CITATION REPORT List of articles citing

Genomic responses in mouse models poorly mimic human inflammatory diseases

DOI: 10.1073/pnas.1222878110 Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 3507-12.

Source: https://exaly.com/paper-pdf/55804704/citation-report.pdf

Version: 2024-04-20

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper IF	Citations
2355	Soluble polysialylated NCAM: a novel player of the innate immune system in the lung. 2013 , 70, 3695-708	38
2354	Inflammatory findings on species extrapolations: humans are definitely no 70-kg mice. 2013, 87, 563-7	104
2353	On being the right size: scaling effects in designing a human-on-a-chip. 2013 , 5, 1149-61	107
2352	Epithelial cancers in the post-genomic era: should we reconsider our lifestyle?. 2013, 32, 673-705	15
2351	Toward drugs for protease-activated receptor 2 (PAR2). 2013 , 56, 7477-97	59
2350	Chloroquine inhibits HMGB1 inflammatory signaling and protects mice from lethal sepsis. 2013 , 86, 410-8	74
2349	Resveratrol blunts the positive effects of exercise training on cardiovascular health in aged men. 2013 , 591, 5047-59	174
2348	The Cinderella effect: searching for the best fit between mouse models and human diseases. 2013 , 133, 2509-2513	12
2347	Sterols and oxysterols in immune cell function. 2013 , 14, 893-900	183
2346	Translating translational research: mouse models of human disease. 2013 , 10, 373-4	25
2345	Omics approaches to study host-microbiota interactions. 2013 , 16, 270-7	22
2344	The PCAST report: impact and implications for the pharmaceutical industry. 2013 , 94, 300-2	7
2343	Chronic obstructive pulmonary disease genomics: yesterday, discovering population biomarkers; tomorrow, defining disease clusters. 2013 , 187, 900-2	2
2342	The new pig on the block: modelling cancer in pigs. 2013 , 22, 673-80	42
2341	Extracellular mitochondrial ATP, suramin, and autism?. 2013 , 35, 1454-6	9
2340	Co-infection with Mycobacterium tuberculosis and human immunodeficiency virus: an overview and motivation for systems approaches. 2013 , 69, 101-13	18
2339	Repairing damaged tendon and muscle: are mesenchymal stem cells and scaffolds the answer?. 2013 , 8, 613-30	11

2338	Severe sepsis and septic shock. 2013 , 369, 840-51	2252
2337	Early T helper cell programming of gene expression in human. 2013 , 25, 282-90	11
2336	Use of human specimens in research: the evolving United States regulatory, policy, and scientific landscape. 2013 , 19, 322-330	16
2335	Questions regarding the predictive value of one evolved complex adaptive system for a second: exemplified by the SOD1 mouse. 2013 , 113, 231-53	25
2334	Diverse novel functions of neutrophils in immunity, inflammation, and beyond. 2013 , 210, 1283-99	463
2333	Comparative wound healingare the small animal veterinarian's clinical patients an improved translational model for human wound healing research?. 2013 , 21, 372-81	34
2332	Of mice and men. 2013 , 19, 1140-1	3
2331	Of mice, men, and inflammation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, E3150	20
2330	Predictive markers of safety and immunogenicity of adjuvanted vaccines. 2013 , 41, 458-68	33
2329	Chemistry meets biology in colitis-associated carcinogenesis. 2013 , 47, 958-86	30
2328	Studying immunity to zoonotic diseases in the natural host - keeping it real. 2013 , 13, 851-61	67
2327	NF- B 1 inhibits NOD2-induced cytokine secretion through ATF3-dependent mechanisms. 2013 , 33, 4857-71	27
2326	Immune mechanisms in medium and large-vessel vasculitis. 2013 , 9, 731-40	243
2325	Personalized neuroprosthetics. 2013 , 5, 210rv2	110
2324	Immune cell-derived C3a and C5a costimulate human T cell alloimmunity. 2013 , 13, 2530-9	77
2323	Accelerating next-generation vaccine development for global disease prevention. 2013 , 340, 1232910	194
2322	Is there value in plasma cytokine measurements in patients with severe trauma and sepsis?. 2013 , 61, 3-9	38
2321	An mRNA atlas of G protein-coupled receptor expression during primary human monocyte/macrophage differentiation and lipopolysaccharide-mediated activation identifies targetable candidate regulators of inflammation. 2013 , 218, 1345-53	33

2320	Sepsis-induced immunosuppression: from cellular dysfunctions to immunotherapy. 2013 , 13, 862-74	1306
2319	Age-dependent dysregulation of innate immunity. 2013 , 13, 875-87	618
2318	TB or not TB: that is no longer the question. 2013 , 5, 213sr6	40
2317	Genomic and epigenomic regulation of adipose tissue inflammation in obesity. 2013 , 24, 625-34	32
2316	Inflammatory responses induced by lipopolysaccharide are amplified in primary human monocytes but suppressed in macrophages by complement protein C5a. 2013 , 191, 4308-16	60
2315	Synthetic or food-derived vitamin Care they equally bioavailable?. 2013 , 5, 4284-304	54
2314	Mice poor models for inflammation. 2013 , 495, 285-285	
2313	The pig as a valuable model for testing the effect of resveratrol to prevent cardiovascular disease. 2013 , 1290, 130-5	27
2312	Experimental liver fibrosis research: update on animal models, legal issues and translational aspects. 2013 , 6, 19	215
2311	Tipping the inflammatory balance: inflammasome activation distinguishes metabolically unhealthy from healthy obesity. 2013 , 56, 2343-6	12
2310	Pre-conditioning with synthetic CpG-oligonucleotides attenuates myocardial ischemia/reperfusion injury via IL-10 up-regulation. 2013 , 108, 376	34
2309	The impact of breed and tissue compartment on the response of pig macrophages to lipopolysaccharide. 2013 , 14, 581	36
2308	A-to-I RNA editing does not change with age in the healthy male rat brain. 2013, 14, 395-400	11
2307	Kinotypes: stable species- and individual-specific profiles of cellular kinase activity. 2013 , 14, 854	15
2306	Transcriptomic classification of genetically engineered mouse models of breast cancer identifies human subtype counterparts. 2013 , 14, R125	120
2305	Large-scale polymorphism discovery in macaque G-protein coupled receptors. 2013, 14, 703	5
2304	Hepatic stellate cells and liver fibrosis. 2013 , 3, 1473-92	420
2303	Trade-offs between anti-aging dietary supplementation and exercise. 2013 , 16, 419-26	9

(2013-2013)

2302	Over-distension of the airways by mechanical ventilation in the elderly: adding insult to injury. 2013 , 17, 165	1
2301	A simple meningococcal sepsis prognostic score: focusing on the human animal. 2013 , 17, 172	
2300	Pathophysiology of endotoxin tolerance: mechanisms and clinical consequences. 2013 , 17, 242	140
2299	Preserving spontaneous breathing during mechanical ventilatory support: an old yet fascinating story. 2013 , 17, 1013	
2298	Gut-on-a-Chip microenvironment induces human intestinal cells to undergo villus differentiation. 2013 , 5, 1130-40	438
2297	Advances in the development and use of human tissue-based techniques for drug toxicity testing. 2013 , 9, 1155-69	2
2296	Safety pharmacology investigations in toxicology studies: an industry survey. 2013 , 68, 44-51	40
2295	Antimicrobial peptides and gut microbiota in homeostasis and pathology. 2013 , 5, 1465-83	203
2294	New methods for the discovery and synthesis of PDE7 inhibitors as new drugs for neurological and inflammatory disorders. 2013 , 8, 733-51	24
2293	Pluripotent stem cell-based models to investigate retinal pigmented epithelium function and disease. 2013 , 10, e231-e236	
2292	Mouse medicine and human biology. 2013 , 50, 88-91	7
2291	Coagulopathy, catecholamines, and biomarkers of endothelial damage in experimental human endotoxemia and in patients with severe sepsis: a prospective study. 2013 , 28, 586-96	72
2290	Telomere dynamics in mice and humans. 2013 , 50, 165-74	120
2289	Injectable small intestine submucosal extracellular matrix in an acute myocardial infarction model. 2013 , 96, 1686-94; discussion 1694	32
2288	Modeling human disease with pluripotent stem cells: from genome association to function. 2013 , 12, 656-68	149
2287	Humanized mice for the study of infectious diseases. 2013 , 25, 428-35	51
2286	IFN-Edriven intratumoral microenvironment exhibits superior prognostic effect compared with an IFN-Edriven microenvironment in patients with colon carcinoma. 2013 , 183, 1897-1909	13
2285	Modeling Huntington's disease with induced pluripotent stem cells. 2013 , 56, 50-64	53

2284 Of mice and humans. **2013**, 12, 264-264

2283	Model organisms: Mouse models challenged. 2013 , 10, 288	12
2282	Of men, not mice. 2013 , 19, 379	33
2281	Controlling complexity: the clinical relevance of mouse complex genetics. 2013 , 21, 1191-6	25
2280	Host-microbiota interaction and intestinal stem cells in chronic inflammation and colorectal cancer. 2013 , 9, 409-22	16
2279	Immune effector mechanisms implicated in atherosclerosis: from mice to humans. 2013 , 38, 1092-104	456
2278	Of mice and men: what rodent models don't tell us. 2013 , 10, 284-5	20
2277	Glucagon's yin and yang effects on hepatic glucose production. 2013 , 19, 674-5	5
2276	Pharmacogenomic biomarkers for personalized medicine. 2013 , 14, 969-80	13
2275	Development of a human three-dimensional organotypic skin-melanoma spheroid model for in vitro drug testing. 2013 , 4, e719	103
2274	Baseline tumor growth and immune control in laboratory mice are significantly influenced by subthermoneutral housing temperature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 20176-81	198
2273	Using case studies to explore the external validity of flomplexIdevelopment interventions. 2013 , 19, 229-248	75
2272	Prenatal folic acid and risk of asthma in children: a systematic review and meta-analysis. 2013, 98, 1272-81	71
2271	U6 is unsuitable for normalization of serum miRNA levels in patients with sepsis or liver fibrosis. 2013 , 45, e42	111
2270	Early increase in alveolar macrophage prostaglandin 15d-PGJ2 precedes neutrophil recruitment into lungs of cytokine-insufflated rats. 2013 , 36, 1030-40	7
2269	Genetic variation in Chlamydia trachomatis and their hosts: impact on disease severity and tissue tropism. 2013 , 8, 1129-1146	45
2268	TLR2 activation causes no morbidity or cardiovascular failure, despite excessive systemic nitric oxide production. 2013 , 100, 28-35	9
2267	Reply: Moving forward in sepsis research. 2013 , 188, 1265-6	1

(2013-2013)

2266	Lungs, bone marrow, and adipose tissue. A network approach to the pathobiology of chronic obstructive pulmonary disease. 2013 , 188, 1396-406	25
2265	Acute lung injury and fibrosis in a baboon model of Escherichia coli sepsis. 2014 , 50, 439-50	20
2264	The years of the monkey. 2013 , 23, 1161-2	1
2263	Moving forward in sepsis research. 2013 , 188, 1264-5	
2262	Vascular transcriptional alterations produced by juvenile obesity in Ossabaw swine. 2013 , 45, 434-46	30
2261	Recombinant human activated protein C as a therapy for severe sepsis: lessons learned?. 2013 , 187, 1041-3	10
2260	Utilization of mouse models to decipher natural killer cell biology and potential clinical applications. 2013 , 2013, 227-33	16
2259	Humanizing the mouse: in defense of murine models of critical illness. 2013 , 187, 898-900	12
2258	Animal Experiments in Homeopathic Research. 2013 , 26, 268-272	
2257	Instrumental variable analyses. Exploiting natural randomness to understand causal mechanisms. 2013 , 10, 255-60	16
2256	Protection against Heme Toxicity: Hemopexin Rules, OK?. 2013 , 311-338	3
2255	Overexpression of the gastrin-releasing peptide in cutaneous nerve fibers and its receptor in the spinal cord in primates with chronic itch. 2013 , 133, 2489-2492	39
2254	Immunoediting and antigen loss: overcoming the achilles heel of immunotherapy with antigen non-specific therapies. 2013 , 3, 197	29
2253	Overexpression of the endothelial protein C receptor is detrimental during pneumonia-derived gram-negative sepsis (Melioidosis). 2013 , 7, e2306	11
2252	Ketogenic diets and pain. 2013 , 28, 993-1001	40
2251	RKIP contributes to IFN-Isynthesis by CD8+ T cells after serial TCR triggering in systemic inflammatory response syndrome. 2013 , 191, 708-16	11
2250	T cells in atherosclerosis. 2013 , 25, 615-22	110
2249	Human and mouse macrophages collaborate with neutrophils to kill larval Strongyloides stercoralis. 2013 , 81, 3346-55	60

2248 Regarding "A process-based review of mouse models of pulmonary hypertension". **2013**, 3, 447

2247 Deciphering the sepsis riddle: we can learn from Star Trek. 2013 , 41, 245	58-60 5	
Pattern-recognition receptor signaling regulator mRNA expression in hutransient inflammation or progressive fibrosis. 2013 , 14, 18124-47	umans and mice, and in	-
Concerns over interspecies transcriptional comparisons in mice and hum ²²⁴⁵ Proceedings of the National Academy of Sciences of the United States of A		2
2244 Use of animal models for the study of human disease-a shock society de	ebate. 2013 , 40, 345-6)
Elevated levels of plasma mitochondrial DNA DAMPs are linked to clinic injured human subjects. 2013 , 258, 591-6; discussion 596-8	cal outcome in severely	1
2242 Platelet function beyond hemostasis and thrombosis. 2013 , 20, 451-6	45	;
2241 Ablating a cardiac protein: causality at last. 2013 , 112, 1415-9		
2240 Creatinea dispensable metabolite?. 2013 , 112, 878-80	13	,
Emerging therapeutic strategies to prevent infection-related microvasc and dysfunction. 2013 , 4, 572-82	cular endothelial activation 39)
2238 IACUC review of nonhuman primate research. 2013 , 54, 234-45	31	
2237 Clinical trials in idiopathic pulmonary fibrosis: a framework for moving f	Forward. 2013 , 42, 1446-8 4	
2236 From mice to men: gene therapy's future for treatment of myocardial in	nfarction. 2013 , 6, 360-2 4	
Role for platelet glycoprotein Ib-IX and effects of its inhibition in endote thrombocytopenia, and mortality. 2013 , 33, 2529-37	oxemia-induced thrombosis, 35	
2234 Systems pharmacology of adverse event mitigation by drug combination	ns. 2013 , 5, 206ra140 82	
Nonhuman primate lung decellularization and recellularization using a s bioreactor. 2013 , e50825	specialized large-organ 27	,
Nonhuman primate models in the genomic era: a paradigm shift. 2013 , 9	54, 154-65 42	
2231 Systems biology of the vervet monkey. 2013 , 54, 122-43	93	

2230 Towards clinical applications of anti-endotoxin antibodies; a re-appraisal of the disconnect. **2013**, 5, 2589-620 20 The need to include animal protection in public health policies. 2013, 34, 549-59 11 Molecular Differences and Similarities Between Alzheimer's Disease and the 5XFAD Transgenic 2228 30 Mouse Model of Amyloidosis. 2013, 6, 1-10 The promised land of human immunology. 2013, 78, 203-13 14 2226 Molecular triggers of neuroinflammation in mouse models of demyelinating diseases. 2013, 394, 1571-81 14 Of mice and men: the quest to determine a circadian basis for myocardial protection in ischemia/reperfusion injury. 2013, 112, e115-7 Of creatures great and small: the advantages of farm animal models in immunology research. 2013, 2224 5 4, 124 The relevance of mouse models for investigating age-related bone loss in humans. 2013, 68, 1209-17 159 2222 Infectious diseases in humanized mice. 2013, 43, 2246-54 39 Integrative mouse and human mRNA studies using WGCNA nominates novel candidate genes 2221 39 involved in the pathogenesis of major depressive disorder. 2013, 14, 1979-90 2220 Crossroads of coagulation and innate immunity: the case of deep vein thrombosis. 2013, 11 Suppl 1, 233-41 79 2219 Sepsis: multiple abnormalities, heterogeneous responses, and evolving understanding. 2013, 93, 1247-88 258 2218 Necroptosis in solid organ transplantation: a missing link to immune activation?. 2013, 13, 2785-6 6 Reply to Osterburg et al.: To study human inflammatory diseases in humans. Proceedings of the 6 2217 11.5 National Academy of Sciences of the United States of America, 2013, 110, E3371 Intestinal alkaline phosphatase prevents metabolic syndrome in mice. Proceedings of the National 2216 11.5 179 Academy of Sciences of the United States of America, 2013, 110, 7003-8 Reply to Cauwels et al.: Of men, not mice, and inflammation. Proceedings of the National Academy 2215 11.5 of Sciences of the United States of America, 2013, 110, E3151 2214 Comparative analysis of monocyte subsets in the pig. 2013, 190, 6389-96 71 Systemic CD14 inhibition attenuates organ inflammation in porcine Escherichia coli sepsis. 2013, 2213 26 81, 3173-81

2212	Dysregulation of the angiopoietin-Tie-2 axis in sepsis and ARDS. 2013 , 4, 517-24	62
2211	Inflammatory responses in hypoxic ischemic encephalopathy. 2013 , 34, 1121-30	148
221 0	Development of an adverse outcome pathway from drug-mediated bile salt export pump inhibition to cholestatic liver injury. 2013 , 136, 97-106	88
2209	Protective role of the lymphatics from sepsis. 2013 , 122, 2143-4	
2208	From integrative disease modeling to predictive, preventive, personalized and participatory (P4) medicine. 2013 , 4, 23	38
2207	The metabolic phenotype of rodent sepsis: cause for concern?. 2013 , 1, 25	33
2206	A mouse is not a rat is not a man: species-specific metabolic responses to sepsis - a nail in the coffin of murine models for critical care research?. 2013 , 1, 26	27
2205	Synthetic research tools as alternatives to animal models. 2013 , 42, 189-90	2
2204	Protein kinase C and acute respiratory distress syndrome. 2013 , 39, 467-79	24
2203	The baby and the bathwater: is Ouabain's biomarker value lost without evidence of a causal role in acute kidney injury?. 2013 , 41, e141	
2202	Hypothermic liquid ventilation prevents early hemodynamic dysfunction and cardiovascular mortality after coronary artery occlusion complicated by cardiac arrest in rabbits. 2013 , 41, e457-65	28
2201	On correlation and causality. 2013 , 41, e140-1	1
2200	Human cytomegalovirus manipulation of latently infected cells. 2013, 5, 2803-24	33
2199	Reverse Direction Method: A Possible Tool to Link Animal Models with Corresponding Human Diseases and Disorders. 2013 , 1,	
2198	[Thoughts on the complex relationship between medicine and animals: a death prayer for a loyal cat]. 2013 , 141, 1449-55	
2197	Increases in the risk of cognitive impairment and alterations of cerebral the myloid metabolism in mouse model of heart failure. 2013 , 8, e63829	30
2196	Nature-inspired antimicrobial polymersassessment of their potential for biomedical applications. 2013 , 8, e73812	47
2195	Role of tumor necrosis factor-#n the human systemic endotoxin-induced transcriptome. 2013 , 8, e79051	11

(2014-2013)

2194	Of Timescales, Animal Models, and Human Disease: The 50th Anniversary of C. elegans as a Biological Model. 2013 , 4, 129	6
2193	The influence of maternal prenatal and early childhood nutrition and maternal prenatal stress on offspring immune system development and neurodevelopmental disorders. 2013 , 7, 120	127
2192	Myths, artifacts, and fatal flaws: identifying limitations and opportunities in vitamin C research. 2013 , 5, 5161-92	64
2191	Systems Approach to Rheumatoid Arthritis. 2013 , 20, 348	
2190	A vision becoming reality. 2013 , 41, 449-52	
2189	Humane Society International's global campaign to end animal testing. 2013 , 41, 453-9	4
2188	The Three Rs - do we need a new principle?. 2013 , 41, P56-7	1
2187	Reactivation of multiple viruses in patients with sepsis. 2014 , 9, e98819	224
2186	Bisphenol A exposure enhances atherosclerosis in WHHL rabbits. 2014 , 9, e110977	38
2185	Transcriptomic meta-analysis of multiple sclerosis and its experimental models. 2014 , 9, e86643	27
2184	Transcriptomic profiling of the development of the inflammatory response in human monocytes in vitro. 2014 , 9, e87680	56
2183	Bacteria induce prolonged PMN survival via a phosphatidylcholine-specific phospholipase C- and protein kinase C-dependent mechanism. 2014 , 9, e87859	4
2182	Human and mouse skeletal muscle stem cells: convergent and divergent mechanisms of myogenesis. 2014 , 9, e90398	51
2181	Host responses to sepsis vary in different low-lethality murine models. 2014 , 9, e94404	25
2180	Intestine-specific deletion of microsomal triglyceride transfer protein increases mortality in aged mice. 2014 , 9, e101828	14
2179	Loss of the endothelial glucocorticoid receptor prevents the therapeutic protection afforded by dexamethasone after LPS. 2014 , 9, e108126	17
2178	The "genomic storm" induced by bacterial endotoxin is calmed by a nuclear transport modifier that attenuates localized and systemic inflammation. 2014 , 9, e110183	13
2177	The role of complement in age-related macular degeneration: heparan sulphate, a ZIP code for complement factor H?. 2014 , 6, 407-16	48

2176 Pathogenesis: Causation Shadow. **2014**, 169-190

A rational framework for evaluating the next generation of vaccines against Mycobacterium avium subspecies paratuberculosis. 2014 , 4, 126	27
2174 Unconventional animal models: a booster for new advances in host-pathogen interactions. 2014 , 4, 14	13
2173 Design Criteria for Generating Physiologically Relevant In Vitro Models in Bioreactors. 2014 , 2, 548-56	59 ₄₇
2172 Amyotrophic lateral sclerosis - cell based therapy and novel therapeutic development. 2014 , 23, 207-	14 17
Tumor-associated neutrophils stimulate T cell responses in early-stage human lung cancer. 2014 , 124, 5466-80	330
Endogenous Tetrapyrroles Influence Leukocyte Responses to Lipopolysaccharide in Human Blood: Pre-Clinical Evidence Demonstrating the Anti-Inflammatory Potential of Biliverdin. 2014 , 5, 1000218	10
2169 Other TLR Pathway Defects. 2014 , 687-710	1
2168 Inflammatory mechanisms in atherosclerosis. 2014 , 34, 63-71	31
2167 Lost in translation: the need for better tools. 2014 , 42, P41-5	
2166 Are we close to a vaccination against Staphylococcus aureus?. 2014 , 9, 717-20	О
The PIRO (predisposition, insult, response, organ dysfunction) model: toward a staging system for acute illness. 2014 , 5, 27-35	35
2164 What can we learn from a critically ill mouse?. 2014 , 103, 225	
2163 Animal models of kidney inflammation in translational medicine. 2014 , 11, 19-27	10
Modeling immunity and inflammation in stroke: differences between rodents and humans?. 2014 , 45, e179-80	16
2161 The reproducibility of biomedical research: Sleepers awake!. 2014 , 2, 35-42	37
2160 Protein kinase C: a regulator of cytoskeleton remodelling and T-cell migration. 2014 , 42, 1490-7	8
The changing immune system in sepsis: is individualized immuno-modulatory therapy the answer?. 21 59 2014 , 5, 45-56	181

2158	Eccentric exercise in aging and diseased skeletal muscle: good or bad?. 2014 , 116, 1439-45	38
2157	The recognition of LpxC inhibitors as potential antibiotics could revolutionise the management of sepsis in veterinary patients if their unknown biological properties are widely evaluated in suitable animal modelsPeer review under responsibility of Faculty of Veterinary Medicine, Cairo University.	1
2156	Screening vaccine formulations for biological activity using fresh human whole blood. 2014 , 10, 1129-35	9
2155	Host innate immune responses to sepsis. 2014 , 5, 36-44	232
2154	[Adjuvant treatment of sepsis: what is known?]. 2014 , 109, 583-90	2
2153	HMGB1 as a therapeutic target for sepsis: it's all in the timing!. 2014 , 18, 243-5	42
2152	Translational pain research: Lessons from genetics and genomics. 2014 , 6, 249sr4	37
2151	The current understanding of sepsis and research priorities for the future. 2014 , 5, 1-3	47
2150	Effects of intra-abdominal sepsis on atherosclerosis in mice. 2014 , 18, 469	53
2149	Animal models of sepsis. 2014 , 5, 143-53	238
12	Animal models of sepsis. 2014, 5, 143-53 Cancer stem cells as a target population for drug discovery. 2014, 6, 1567-85	238 7
12		
2148	Cancer stem cells as a target population for drug discovery. 2014 , 6, 1567-85 The impact of human and mouse differences in NOS2 gene expression on the brain's redox and	7
2148	Cancer stem cells as a target population for drug discovery. 2014 , 6, 1567-85 The impact of human and mouse differences in NOS2 gene expression on the brain's redox and immune environment. 2014 , 9, 50 Isoflavones inhibit poly(I:C)-induced serum, brain, and skin inflammatory mediators - relevance to	7
2148 2147 2146	Cancer stem cells as a target population for drug discovery. 2014 , 6, 1567-85 The impact of human and mouse differences in NOS2 gene expression on the brain's redox and immune environment. 2014 , 9, 50 Isoflavones inhibit poly(I:C)-induced serum, brain, and skin inflammatory mediators - relevance to chronic fatigue syndrome. 2014 , 11, 168	7
2148 2147 2146 2145	Cancer stem cells as a target population for drug discovery. 2014, 6, 1567-85 The impact of human and mouse differences in NOS2 gene expression on the brain's redox and immune environment. 2014, 9, 50 Isoflavones inhibit poly(I:C)-induced serum, brain, and skin inflammatory mediators - relevance to chronic fatigue syndrome. 2014, 11, 168 References. 2014, 167-204	7 19 14
2148 2147 2146 2145 2144	Cancer stem cells as a target population for drug discovery. 2014, 6, 1567-85 The impact of human and mouse differences in NOS2 gene expression on the brain's redox and immune environment. 2014, 9, 50 Isoflavones inhibit poly(I:C)-induced serum, brain, and skin inflammatory mediators - relevance to chronic fatigue syndrome. 2014, 11, 168 References. 2014, 167-204 Bridging lipid metabolism and innate host defense. 2014, 6, 258fs41 Sterile inflammation after permanent distal MCA occlusion in hypertensive rats. 2014, 34, 307-15 Engraftment of human iPS cells and allogeneic porcine cells into pigs with inactivated RAG2 and	7 19 14 8

2140	Quantitative genetics in the study of virus-induced disease. 2014 , 88, 193-225	6
2139	Classical and Alternative Activation and Metalloproteinase Expression Occurs in Foam Cell Macrophages in Male and Female ApoE Null Mice in the Absence of T and B Lymphocytes. 2014 , 5, 537	24
2138	Tender mediation in a ruthless environment: can lipoxins provide lifesaving modifications to fatally deregulated immunoinflammatory responses in sepsis?*. 2014 , 42, 1012-4	
2137	Applying Convergent Immunity to Innovative Vaccines Targeting Staphylococcus aureus. 2014 , 5, 463	18
2136	Modeling immunity and inflammation in stroke: don't be afraid of mice?. 2014 , 45, e181-2	4
2135	The intimate relationship between human cytomegalovirus and the dendritic cell lineage. 2014 , 5, 389	48
2134	Inflammatory therapeutic targets in coronary atherosclerosis-from molecular biology to clinical application. 2014 , 5, 455	25
2133	Dusp3 and Psme3 are associated with murine susceptibility to Staphylococcus aureus infection and human sepsis. 2014 , 10, e1004149	21
2132	What can we learn from elegant clinical studies?*. 2014 , 42, 972-3	
2131	Transgenic mouse technology in skin biology: generation of complete or tissue-specific knockout mice. 2014 , 134, 1-5	10
2130	A new human 3D-liver model unravels the role of galectins in liver infection by the parasite Entamoeba histolytica. 2014 , 10, e1004381	30
2129	Oral streptococci utilize a Siglec-like domain of serine-rich repeat adhesins to preferentially target platelet sialoglycans in human blood. 2014 , 10, e1004540	60
2128	Experimental infection of rhesus macaques and common marmosets with a European strain of West Nile virus. 2014 , 8, e2797	15
2127	In Vitro Models of Filaggrin-Associated Diseases. 2014 , 75-81	1
2126	State-of-the-art of 3D cultures (organs-on-a-chip) in safety testing and pathophysiology. 2014 , 31, 441-77	122
2125	Induction of Wnt-inducible signaling protein-1 correlates with invasive breast cancer oncogenesis and reduced type 1 cell-mediated cytotoxic immunity: a retrospective study. 2014 , 10, e1003409	35
2124	Phenotype ontologies and cross-species analysis for translational research. 2014 , 10, e1004268	52
2123	Sepsis in old age: review of human and animal studies. 2014 , 5, 126-36	50

2122	Mechanism of West Nile virus neuroinvasion: a critical appraisal. 2014 , 6, 2796-825	81
2121	Skeletal muscle tissue engineering: strategies for volumetric constructs. 2014 , 5, 362	71
2120	Stress hyperglycemia, insulin treatment, and innate immune cells. 2014 , 2014, 486403	65
2119	Remote conditioning or erythropoietin before surgery primes kidneys to clear ischemia-reperfusion-damaged cells: a renoprotective mechanism?. 2014 , 306, F873-84	17
2118	The utility of Apc-mutant rats in modeling human colon cancer. 2014 , 7, 1215-25	40
2117	Prediction of gene expression in human using rat in vivo gene expression in Japanese Toxicogenomics Project. 2014 , 2, 8-15	4
2116	The ethical dimension in published animal research in critical care: the public face of science. 2014 , 18, R15	26
2115	Role of the cathelicidin-related antimicrobial peptide in inflammation and mortality in a mouse model of bacterial meningitis. 2014 , 6, 205-18	33
2114	Improving productivity of modern-day drug discovery. 2014 , 9, 115-8	8
2113	Bioinformatics multivariate analysis determined a set of phase-specific biomarker candidates in a novel mouse model for viral myocarditis. 2014 , 7, 444-54	27
2112	Development of an ex vivo porcine lung model for studying growth, virulence, and signaling of Pseudomonas aeruginosa. 2014 , 82, 3312-23	51
2111	Pigment epithelium-derived factor (PEDF) suppresses IL-1#mediated c-Jun N-terminal kinase (JNK) activation to improve hepatocyte insulin signaling. 2014 , 155, 1373-85	26
2110	Recent developments in cell-based assays and stem cell technologies for botulinum neurotoxin research and drug discovery. 2014 , 14, 153-68	20
2109	Targeting monocyte and macrophage subpopulations for immunotherapy: a patent review (2009 - 2013). 2014 , 24, 779-90	6
2108	Using Human Induced Pluripotent Stem Cells to Model Skeletal Diseases. 2016 , 1353, 101-18	13
2107	Lipid antigens in immunity. 2014 , 395, 61-81	25
2106	Interruption of macrophage-derived IL-27(p28) production by IL-10 during sepsis requires STAT3 but not SOCS3. 2014 , 193, 5668-77	30
2105	The use of mode of action information in risk assessment: quantitative key events/dose-response framework for modeling the dose-response for key events. 2014 , 44 Suppl 3, 17-43	54

2104	Animal models of allergic airways disease: where are we and where to next?. 2014 , 115, 2055-64	31
2103	Immunotherapy and radiation therapy: considerations for successfully combining radiation into the paradigm of immuno-oncology drug development. 2014 , 182, 252-7	12
2102	Is animal research sufficiently evidence based to be a cornerstone of biomedical research?. 2014 , 348, g3387	103
2101	Achilles tendon injuries in elite athletes: lessons in pathophysiology from their equine counterparts. 2014 , 55, 86-99	39
2100	Mouse models for Aicardi-GoutiEes syndrome provide clues to the molecular pathogenesis of systemic autoimmunity. 2014 , 175, 9-16	19
2099	Hematopoietic Stem Cell Protocols. 2014 ,	1
2098	Systematic, spatial imaging of large multimolecular assemblies and the emerging principles of supramolecular order in biological systems. 2014 , 27, 3-18	22
2097	Cytochrome P450 epoxygenase dependence of opioid analgesia: fluconazole does not interfere with remifentanil-mediated analgesia in human subjects. 2014 , 96, 684-93	2
2096	Human hypertrophic and keloid scar models: principles, limitations and future challenges from a tissue engineering perspective. 2014 , 23, 382-6	91
2095	Absence of CD4 or CD8 lymphocytes changes infiltration of inflammatory cells and profiles of cytokine expression in skin wounds, but does not impair healing. 2014 , 23, 189-94	45
2094	The pain of altruism. 2014 , 18, 615-7	34
2093	Rheumatoid arthritis in 2013. Translational medicine in RA: time for change. 2014 , 10, 74-6	2
2092	Mechanisms of NDV-3 vaccine efficacy in MRSA skin versus invasive infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E5555-63	47
2091	CyTOF supports efficient detection of immune cell subsets from small samples. 2014 , 415, 1-5	89
2090	Molecular landscape of T cell-mediated rejection in human kidney transplants: prominence of CTLA4 and PD ligands. 2014 , 14, 2565-76	72
2089	IL-18 is not therapeutic for neovascular age-related macular degeneration. 2014 , 20, 1372-5	31
2088	Understanding the beneficial effects of doxycycline on the dystrophic phenotype of the mdx mouse. 2014 , 50, 283-6	4
2087	Aged mice are unable to mount an effective myeloid response to sepsis. 2014 , 192, 612-22	38

2086	European consensus proposal for immunoglobulin therapies. 2014 , 44, 2207-14	38
2085	Analyzing and grading effectiveness research: a new approach. 2014 , 15, 503-5	
2084	Translational research: from pot to plot. 2014 , 12, 277-85	41
2083	Comparison of the transcriptional landscapes between human and mouse tissues. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 17224-9	239
2082	Emerging and resistant infections. 2014 , 11 Suppl 4, S193-200	6
2081	The pig as an animal model for human pathologies: A proteomics perspective. 2014 , 8, 715-31	140
2080	The challenge of translating ischemic conditioning from animal models to humans: the role of comorbidities. 2014 , 7, 1321-33	74
2079	Meta-analysis of preclinical studies of mesenchymal stromal cells for ischemic stroke. 2014 , 82, 1277-86	137
2078	Development of a novel preclinical model of pneumococcal pneumonia in nonhuman primates. 2014 , 50, 995-1004	16
2077	A critical role for human caspase-4 in endotoxin sensitivity. 2014 , 193, 335-43	78
2076	Cardiomyocyte-specific transforming growth factor Buppression blocks neutrophil infiltration, augments multiple cytoprotective cascades, and reduces early mortality after myocardial infarction. 2014 , 114, 1246-57	73
2075	Reduced MyD88 dependency of ISCOMATRIXI djuvant in a DNA prime-protein boost HIV vaccine. 2014 , 10, 1078-90	9
2074	A role for human brain pericytes in neuroinflammation. 2014 , 11, 104	94
2073	An animal study to examine the effects of the bilateral, epidural cortical stimulation on the progression of amyotrophic lateral sclerosis. 2014 , 11, 139	3
2072	Cardiopulmonary toxicity of peat wildfire particulate matter and the predictive utility of precision cut lung slices. 2014 , 11, 29	49
2071	Generation of multi-gene knockout rabbits using the Cas9/gRNA system. 2014 , 3, 12	69
2070	Persistent inflammation and T cell exhaustion in severe sepsis in the elderly. 2014 , 18, R130	61
2069	Evolutionary profiling reveals the heterogeneous origins of classes of human disease genes: implications for modeling disease genetics in animals. 2014 , 14, 212	24

2068	Year in review 2013: Critical Carerespirology. 2014 , 18, 577	1
2067	EvoCor: a platform for predicting functionally related genes using phylogenetic and expression profiles. 2014 , 42, W72-5	6
2066	Age-related differences in biomarkers of acute inflammation during hospitalization for sepsis. 2014 , 42, 99-107	12
2065	Abandon the mouse research ship? Not just yet!. 2014 , 41, 463-75	111
2064	Levels of circulating miR-133a are elevated in sepsis and predict mortality in critically ill patients. 2014 , 42, 1096-104	91
2063	The effect of ex vivo CDDO-Me activation on nuclear factor erythroid 2-related factor 2 pathway in white blood cells from patients with septic shock. 2014 , 42, 392-9	11
2062	Viscoelastic guidance of resuscitation. 2014 , 27, 212-8	53
2061	Location, location, location: cytokine concentrations are dependent on blood sampling site. 2014 , 42, 337-42	17
2060	Induced hypothermia during resuscitation from hemorrhagic shock attenuates microvascular inflammation in the rat mesenteric microcirculation. 2014 , 42, 518-24	8
2059	A better understanding of why murine models of trauma do not recapitulate the human syndrome. 2014 , 42, 1406-13	36
2058	Plasma angiopoietin 2 concentrations are related to impaired lung function and organ failure in a clinical cohort receiving high-dose interleukin 2 therapy. 2014 , 42, 115-20	6
2057	Improved survival after transplantation of more donor plasmacytoid dendritic or naWe T cells from unrelated-donor marrow grafts: results from BMTCTN 0201. 2014 , 32, 2365-72	62
2056	The next generation of sepsis clinical trial designs: what is next after the demise of recombinant human activated protein C?*. 2014 , 42, 1714-21	131
2055	The august krogh principle: seeking unity in diversity: reply. 2014 , 42, 480-1	O
2054	T-cell aging in rheumatoid arthritis. 2014 , 26, 93-100	93
2053	The anthropomorphic mouse. 2014 , 63, 1-3	
2052	Early murine polymicrobial sepsis predominantly causes renal injury. 2014 , 41, 97-103	23
2051	Altered L-type Ca2+ channel activity contributes to exacerbated hypoperfusion and mortality in smooth muscle cell BK channel-deficient septic mice. 2014 , 307, R138-48	6

2050	G-CSF drives a posttraumatic immune program that protects the host from infection. 2014 , 192, 2405-17	25
2049	Rodent models of ischemic stroke lack translational relevance are baboon models the answer?. 2014 , 36, 417-22	13
2048	MORPHIN: a web tool for human disease research by projecting model organism biology onto a human integrated gene network. 2014 , 42, W147-53	13
2047	Lymph node fibroblastic reticular cell transplants show robust therapeutic efficacy in high-mortality murine sepsis. 2014 , 6, 249ra109	26
2046	Filaggrin. 2014 ,	3
2045	Slice cultures from head and neck squamous cell carcinoma: a novel test system for drug susceptibility and mechanisms of resistance. 2014 , 110, 479-88	69
2044	Animal Models in Pharmacogenomics. 2014 , 73-87	3
2043	Asymptomatic carriage of group A streptococcus is associated with elimination of capsule production. 2014 , 82, 3958-67	31
2042	A novel in vitro model for studying the interactions between human whole blood and endothelium. 2014 , e52112	7
2041	Differential expression of the alternatively spliced OPRM1 isoform Eppioid receptor-1K in HIV-infected individuals. 2014 , 28, 19-30	21
2040	A Novel Drug for Treatment of Necrotizing Soft-Tissue Infections: A Randomized Clinical Trial. 2014 , 149, 528-36	58
2039	Production of Transgenic Rabbits. 2014 , 275-304	1
2038	Blood Monocytes and Their Subsets in Health and Disease. 2014 , 3-36	1
2037	Endothelial dysfunction in an ovine model of collagen-induced arthritis. 2014 , 51, 90-101	8
2036	Modeling immunity and inflammation in stroke: can mice be trusted?. 2014 , 45, e177-8	7
2035	Redefining Strategies to Introduce Tolerance-Inducing Cellular Therapy in Human beings to Combat Autoimmunity and Transplantation Reactions. 2014 , 5, 392	1
2034	Chicken embryos as a potential new model for early onset type I diabetes. 2014 , 2014, 354094	9
2033	Biomarkers in acute respiratory distress syndrome: from pathobiology to improving patient care. 2014 , 8, 573-86	28

2032	Human-specific epigenetic variation in the immunological Leukotriene B4 Receptor (LTB4R/BLT1) implicated in common inflammatory diseases. 2014 , 6, 19	17
2031	mNos2 deletion and human NOS2 replacement in Alzheimer disease models. 2014 , 73, 752-69	21
2030	Systems kinomics for characterizing host responses to high-consequence pathogens at the NIH/NIAID Integrated Research Facility-Frederick. 2014 , 71, 190-98	3
2029	The NIAID Integrated Research Facility at Frederick, Maryland: a unique international resource to facilitate medical countermeasure development for BSL-4 pathogens. 2014 , 71, 213-9	15
2028	Systems biology and systems genetics - novel innovative approaches to study host-pathogen interactions during influenza infection. 2014 , 6, 47-54	18
2027	Bioengineered human tumor within a bone niche. 2014 , 35, 5785-94	56
2026	Genomic and systems approaches to translational biomarker discovery in immunological diseases. 2014 , 19, 133-9	3
2025	Discordant biological and toxicological species responses to TLR3 activation. 2014 , 184, 1062-1072	15
2024	Experimental autoimmune encephalomyelitis is a good model of multiple sclerosis if used wisely. 2014 , 3, 555-64	51
2023	The future is now: early life events preset adult behaviour. 2014 , 210, 46-57	35
	The future is now: early life events preset adult behaviour. 2014 , 210, 46-57 Animal models of human disease: challenges in enabling translation. 2014 , 87, 162-71	35
2022	Animal models of human disease: challenges in enabling translation. 2014 , 87, 162-71 Determination of the safety and efficacy of therapeutic neutralization of tumor necrosis factor-	320
2022	Animal models of human disease: challenges in enabling translation. 2014, 87, 162-71 Determination of the safety and efficacy of therapeutic neutralization of tumor necrosis factor- (TNF-Husing AZD9773, an anti-TNF-Himmune Fab, in murine CLP sepsis. 2014, 63, 149-60 Importing, caring, breeding, genotyping, and phenotyping a genetic mouse in a Chinese university. 2014, 53, 487-92 Polymicrobial sepsis alters antigen-dependent and -independent memory CD8 T cell functions.	320 15
2022 2021 2020	Animal models of human disease: challenges in enabling translation. 2014, 87, 162-71 Determination of the safety and efficacy of therapeutic neutralization of tumor necrosis factor- (TNFusing AZD9773, an anti-TNFmmune Fab, in murine CLP sepsis. 2014, 63, 149-60 Importing, caring, breeding, genotyping, and phenotyping a genetic mouse in a Chinese university. 2014, 53, 487-92 Polymicrobial sepsis alters antigen-dependent and -independent memory CD8 T cell functions.	320 15
2022 2021 2020 2019	Animal models of human disease: challenges in enabling translation. 2014, 87, 162-71 Determination of the safety and efficacy of therapeutic neutralization of tumor necrosis factor— (TNF-)Jusing AZD9773, an anti-TNF-)Jimmune Fab, in murine CLP sepsis. 2014, 63, 149-60 Importing, caring, breeding, genotyping, and phenotyping a genetic mouse in a Chinese university. 2014, 53, 487-92 Polymicrobial sepsis alters antigen-dependent and -independent memory CD8 T cell functions. 2014, 192, 3618-25 Protein antigens increase the protective efficacy of a capsule-based vaccine against Staphylococcus aureus in a rat model of osteomyelitis. 2014, 82, 83-91	320 15 1
2022 2021 2020 2019 2018	Animal models of human disease: challenges in enabling translation. 2014, 87, 162-71 Determination of the safety and efficacy of therapeutic neutralization of tumor necrosis factor-# (TNF-#using AZD9773, an anti-TNF-#mmune Fab, in murine CLP sepsis. 2014, 63, 149-60 Importing, caring, breeding, genotyping, and phenotyping a genetic mouse in a Chinese university. 2014, 53, 487-92 Polymicrobial sepsis alters antigen-dependent and -independent memory CD8 T cell functions. 2014, 192, 3618-25 Protein antigens increase the protective efficacy of a capsule-based vaccine against Staphylococcus aureus in a rat model of osteomyelitis. 2014, 82, 83-91	320 15 1 42 29

2014	Safe clinical use of carbon nanotubes as innovative biomaterials. 2014 , 114, 6040-79	167
2013	Microfluidic single-cell analysis for systems immunology. 2014 , 14, 1246-60	73
2012	DFLAT: functional annotation for human development. 2014 , 15, 45	18
2011	Generation of knockout rabbits using transcription activator-like effector nucleases. 2014 , 3, 3	31
2010	Intracellular growth of Mycobacterium avium subspecies and global transcriptional responses in human macrophages after infection. 2014 , 15, 58	10
2009	Emerging role of human basophil biology in health and disease. 2014 , 14, 408	28
2008	The human side of microglia. 2014 , 37, 125-35	150
2007	Perspectives in immunopharmacology: the future of immunosuppression. 2014 , 161, 211-5	4
2006	Antigen-specific activation and cytokine-facilitated expansion of naive, human CD8+ T cells. 2014 , 9, 950-66	78
2005	Phosphatidylinositol-specific phospholipase C contributes to survival of Staphylococcus aureus USA300 in human blood and neutrophils. 2014 , 82, 1559-71	38
2004	The role of macrophage phenotype in vascularization of tissue engineering scaffolds. 2014 , 35, 4477-88	532
2003	Systems biology in drug discovery and development. 2014 , 19, 113-25	62
2002	Challenges and responses in human vaccine development. 2014 , 28, 18-26	46
2001	In vivo characterization of alveolar and interstitial lung macrophages in rhesus macaques: implications for understanding lung disease in humans. 2014 , 192, 2821-9	118
2000	IVIG pluripotency and the concept of Fc-sialylation: challenges to the scientist. 2014 , 14, 349	61
1999	Eco-immunology. 2014 ,	3
1998	Food allergy: Insights into etiology, prevention, and treatment provided by murine models. 2014 , 133, 309-17	81
1997	iPS cells: a game changer for future medicine. 2014 , 33, 409-17	301

1996	Endotoxin-induced experimental systemic inflammation in humans: a model to disentangle immune-to-brain communication. 2014 , 35, 1-8	127
1995	Systems-level analysis of innate immunity. 2014 , 32, 547-77	43
1994	Systems approaches to Coronavirus pathogenesis. 2014 , 6, 61-9	7
1993	Regulation of immune responses by neutrophils. 2014 , 1319, 66-81	57
1992	Preclinical characterization of signal transducer and activator of transcription 3 small molecule inhibitors for primary and metastatic brain cancer therapy. 2014 , 349, 458-69	27
1991	Drug discovery through stem cell-based organoid models. 2014 , 69-70, 19-28	141
1990	Epidermal growth factor receptor inhibition attenuates liver fibrosis and development of hepatocellular carcinoma. 2014 , 59, 1577-90	216
1989	Why primate models matter. 2014 , 76, 801-27	334
1988	Rigid nanoparticle-based delivery of anti-cancer siRNA: challenges and opportunities. 2014 , 32, 831-43	59
1987	Translation: screening for novel therapeutics with disease-relevant cell types derived from human stem cell models. 2014 , 75, 952-60	29
1986	Borrelia burgdorferi RNA induces type I and III interferons via Toll-like receptor 7 and contributes to production of NF- B -dependent cytokines. 2014 , 82, 2405-16	35
1985	Models: stretching the skills of cell lines and mice. 2014 , 11, 617-20	13
1984	Intestinal alkaline phosphatase: novel functions and protective effects. 2014 , 72, 82-94	191
1983	Lessons learned from the fate of AstraZeneca's drug pipeline: a five-dimensional framework. 2014 , 13, 419-31	806
1982	Revitalizing psychiatric therapeutics. 2014 , 39, 220-9	61
1981	Adipose tissue and adipocyte dysregulation. 2014 , 40, 16-28	139
1980	Immunopathogenesis of abdominal sepsis. 2014 , 399, 1-9	35
1979	LMX1B mutations with nails and kneecaps: a new paradigm?. 2014 , 29, 9-12	37

1978	The multifaceted functions of neutrophils. 2014 , 9, 181-218	664
1977	Translational paradigms in pharmacology and drug discovery. 2014 , 87, 189-210	31
1976	Central nervous system delivery of helper-dependent canine adenovirus corrects neuropathology and behavior in mucopolysaccharidosis type VII mice. 2014 , 25, 199-211	23
1975	Histone deacetylase inhibition blunts ischemia/reperfusion injury by inducing cardiomyocyte autophagy. 2014 , 129, 1139-51	233
1974	Genetically modified pigs to model human diseases. 2014 , 55, 53-64	44
1973	Differences between murine and human sepsis. 2014 , 94, 1135-49	16
1972	Is there new hope for therapeutic matrix metalloproteinase inhibition?. 2014 , 13, 904-27	488
1971	Editorial: The intricacy of choice: can bacteria decide what type of myeloid cells to stimulate?. 2014 , 96, 671-4	6
1970	Septic shock: desperately seeking treatment. 2014 , 126, 31-9	29
1969	Design and utilization of macrophage and vascular smooth muscle cell co-culture systems in atherosclerotic cardiovascular disease investigation. 2014 , 19, 394-406	15
1968	Myeloid-lymphoid ontogeny in the rhesus monkey (Macaca mulatta). 2014 , 297, 1392-406	14
1967	Clinical trial design in prevention and treatment of acute respiratory distress syndrome. 2014 , 35, 713-27	O
1966	A comparative encyclopedia of DNA elements in the mouse genome. 2014 , 515, 355-64	1026
1965	Macrophages: Biology and Role in the Pathology of Diseases. 2014 ,	8
1964	Macrophages. 2014 , 34, 2509-19	25
1963	Regenerative healing, scar-free healing and scar formation across the species: current concepts and future perspectives. 2014 , 23, 615-9	50
1962	Imiquimod inhibits melanoma development by promoting pDC cytotoxic functions and impeding tumor vascularization. 2014 , 134, 2551-2561	49
1961	Macrophage immunoregulatory pathways in tuberculosis. 2014 , 26, 471-85	88

1960	Immunomodulatory activity of interferon-beta. 2014 , 1, 622-31	74
1959	Maternal inflammation modulates infant immune response patterns to viral lung challenge in a murine model. 2014 , 76, 33-40	18
1958	On the horizon: research priorities in burns for the next decade. 2014 , 94, 917-30	15
1957	Patient Safety in Surgery. 2014 ,	5
1956	Optimization of a nonviral transfection system to evaluate Cox-2 controlled interleukin-4 expression for osteoarthritis gene therapy in vitro. 2014 , 16, 352-63	5
1955	Is boosting the immune system in sepsis appropriate?. 2014 , 18, 216	36
1954	HMGB1 as a drug target in staphylococcal pneumonia. 2014 , 18, 131	9
1953	Septic acute kidney injury: molecular mechanisms and the importance of stratification and targeting therapy. 2014 , 18, 501	44
1952	Anti-inflammatory actions of Chemoattractant Receptor-homologous molecule expressed on Th2 by the antagonist MK-7246 in a novel rat model of Alternaria alternata elicited pulmonary inflammation. 2014 , 743, 106-16	9
1951	Transcriptional divergence and conservation of human and mouse erythropoiesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 4103-8	60
1950	The linear ubiquitin assembly complex (LUBAC) is essential for NLRP3 inflammasome activation. 2014 , 211, 1333-47	163
	2011, 211, 1333 17	
1949	Regenerative Medicine Ethics. 2014,	3
7. 7		
7. 7	Regenerative Medicine Ethics. 2014 ,	3
1948 1947	Regenerative Medicine Ethics. 2014, Lessons learned from mice and man: mimicking human allergy through mouse models. 2014, 155, 1-16 Finding a common language: resolving the town and gown tension in moving toward	3
1948 1947	Regenerative Medicine Ethics. 2014, Lessons learned from mice and man: mimicking human allergy through mouse models. 2014, 155, 1-16 Finding a common language: resolving the town and gown tension in moving toward evidence-informed practice. 2014, 10, 275-7	3 21 5
1948 1947 1946	Regenerative Medicine Ethics. 2014, Lessons learned from mice and man: mimicking human allergy through mouse models. 2014, 155, 1-16 Finding a common language: resolving the town and gown tension in moving toward evidence-informed practice. 2014, 10, 275-7 Humanized mice as a model for aberrant responses in human T cell immunotherapy. 2014, 193, 587-96 Organs-on-chips (microphysiological systems): tools to expedite efficacy and toxicity testing in	3 21 5 41

1942	How far can mice carry autism research?. 2014 , 158, 13-4	14
1941	Delayed kidney graft function: from mechanism to translation. 2014 , 86, 251-8	136
1940	Neuroinflammation and Neurodegeneration. 2014,	5
1939	Adjunctive Therapies in Sepsis. 2014 , 15, 204-213	
1938	Human brain derived cells respond in a type-specific manner after exposure to urban particulate matter (PM). 2014 , 28, 1290-5	23
1937	Strategies to improve drug development for sepsis. 2014 , 13, 741-58	146
1936	A long-awaited merger of the pathways mediating host defence and programmed cell death. 2014 , 14, 601-18	94
1935	Editorial: you give me fever: transcriptional responses to LPS. 2014 , 96, 161-3	2
1934	Does estrogen deficiency cause lacrimal gland inflammation and aqueous-deficient dry eye in mice?. 2014 , 127, 153-60	18
1933	Serum metabolomics identifies citrulline as a predictor of adverse outcomes in an equine model of gut-derived sepsis. 2014 , 46, 339-47	21
1932	Modeling CVD in human pluripotent cells by genome editing. 2014 , 64, 460-2	7
1931	RAG1/2 knockout pigs with severe combined immunodeficiency. 2014 , 193, 1496-503	68
1930	Post-infectious immune suppression: a new paradigm of severe infections. 2014 , 44, 455-63	15
1929	Testing cardiovascular drug safety and efficacy in randomized trials. 2014 , 114, 1156-61	5
1928	Human sensory neurons: Membrane properties and sensitization by inflammatory mediators. 2014 , 155, 1861-1870	96
1927	Early changes of muscle membrane properties in porcine faecal peritonitis. 2014 , 18, 484	14
1926	The methodological quality of animal research in critical care: the public face of science. 2014 , 4, 26	24
1925	Complement modulation of T cell immune responses during homeostasis and disease. 2014 , 96, 745-56	49

1924 Clinical translation of multipotent mesenchymal stromal cells in transplantatio	n. 2014 , 34, 351-64 5
Immunocompetent 3D model of human upper airway for disease modeling and evaluation. 2014 , 11, 2082-91	l in vitro drug 53
1922 Animal models in burn research. 2014 , 71, 3241-55	231
$_{ m 1921}$ The role of the inflammasome in cardiovascular diseases. 2014 , 92, 307-19	32
1920 Emerging technologies and challenges for better and safer drugs. 2014 , 36, 67	7-84 6
Dexmedetomidine controls systemic cytokine levels through the cholinergic ar pathway. 2014 , 37, 1763-70	nti-inflammatory 104
1918 Lack of association of KATNAL1 gene sequence variants and azoospermia in hu	imans. 2014 , 31, 1065-71 4
1917 Corrective GUSB transfer to the canine mucopolysaccharidosis VII brain. 2014,	22, 762-73
Natural and abrupt involution of the mammary gland affects differently the me consequences of weaning. 2014 , 102, 10-5	etabolic and health
1915 Summary and Outlook. 2014 , 113-121	
1914 Absence of a role for interleukin-13 in inflammatory bowel disease. 2014 , 44, 3	70-85 6 ₇
1913 Moving forward in clinical trials for ALS: motor neurons lead the way please. 20	914 , 19, 441-9 27
1912 Nanoparticles and Innate Immunity. 2014 , 9-31	
1911 Management of infections in critically ill patients. 2014 , 15, 474-8	4
Protective immunity against recurrent Staphylococcus aureus skin infection rec interleukin-17A. 2014 , 82, 2125-34	quires antibody and 82
1909 Models matter: the search for an effective Staphylococcus aureus vaccine. 201	4 , 12, 585-91 136
Adipose and leptomeningeal arteriole endothelial dysfunction induced by https://doi.org/1908/practical human model to study Alzheimer's disease vasculopathy. 2014 , 235, 1	yloid peptide: a 23-9
1907 Fungal model systems and the elucidation of pathogenicity determinants. 201 4	4, 70, 42-67

1906	Never Say Never Again! The Thirty-third Presidential Address to the Surgical Infection Society. 2014 , 15, 145-153	2
1905	Biomarkers of coronary artery disease: the promise of the transcriptome. 2014 , 16, 513	24
1904	Proteogenomics of selective susceptibility to endotoxin using circulating acute phase biomarkers and bioassay development in sheep: a review. 2014 , 12, 12	10
1903	Engineering and evaluating drug delivery particles in microfluidic devices. 2014 , 190, 139-49	88
1902	Gradient generation platforms: new directions for an established microfluidic technology. 2014 , 14, 3241-7	40
1901	Transgenerational Epigenetics: Current Controversies and Debates. 2014 , 371-390	8
1900	The current epidemiology and clinical decisions surrounding acute respiratory infections. 2014 , 20, 579-88	34
1899	Inflammation in Parkinson's Disease. 2014 ,	3
1898	The therapeutic potential of histamine receptor ligands in inflammatory bowel disease. 2014 , 91, 12-7	9
1897	Development and characterisation of monoclonal antibodies reactive with porcine CSF1R (CD115). 2014 , 47, 123-8	4
1896	Integrative "omic" analysis of experimental bacteremia identifies a metabolic signature that distinguishes human sepsis from systemic inflammatory response syndromes. 2014 , 190, 445-55	79
1895	Peeking inside AMD. 2014 , 7, 476-476	
1894	The social honey bee in biomedical research: realities and expectations. 2014 , 12, 7-13	18
1893	H2S during circulatory shock: some unresolved questions. 2014 , 41, 48-61	47
1892	Cardiospecific sevoflurane treatment quenches inflammation but does not attenuate myocardial cell damage markers: a proof-of-concept study in patients undergoing mitral valve repair. 2014 , 112, 1005-14	14
1891	Small molecule screening in human induced pluripotent stem cell-derived terminal cell types. 2014 , 289, 4562-70	34
1890	Distinct CD11b+-monocyte subsets accelerate endothelial cell recovery after acute and chronic endothelial cell damage. 2014 , 173, 80-91	8
1889	Mice matter. 2014 , 112, 87-9	О

1888	The Role of the Innate Immune System in Sepsis. 2014 , 15, 169-176	6
1887	Path to the clinic: assessment of iPSC-based cell therapies in vivo in a nonhuman primate model. 2014 , 7, 1298-1309	64
1886	Corrective GUSB transfer to the canine mucopolysaccharidosis VII cornea using a helper-dependent canine adenovirus vector. 2014 , 181, 22-31	15
1885	Pyroptotic death storms and cytopenia. 2014 , 26, 128-37	47
1884	Editorial to accompany "Effects of statins on liver cell function and inflammation in septic rats". 2014 , 186, 101-2	1
1883	From "ES-like" cells to induced pluripotent stem cells: a historical perspective in domestic animals. 2014 , 81, 103-11	48
1882	Vanadium pentoxide: risk assessment implications of a treatment- but not dose-related tumorigenic response in B6C3F1 mice. 2014 , 69, 333-7	3
1881	Genetic and intervention studies implicating complement C3 as a major target for the treatment of periodontitis. 2014 , 192, 6020-7	76
1880	Heterogeneity of stromal cells in the human splenic white pulp. Fibroblastic reticulum cells, follicular dendritic cells and a third superficial stromal cell type. 2014 , 143, 462-77	16
1879	Epigenetic silencing of the human NOS2 gene: rethinking the role of nitric oxide in human macrophage inflammatory responses. 2014 , 192, 2326-38	84
1878	Conclusion. 2014 , 249-264	
1877	Glossary. 2014 , 303-362	
1876	Antiviral activity of human OASL protein is mediated by enhancing signaling of the RIG-I RNA sensor. 2014 , 40, 936-48	158
1875	Homeobox transcription factor VentX regulates differentiation and maturation of human dendritic cells. 2014 , 289, 14633-43	12
1874	Viral infections in mice with reconstituted human immune system components. 2014 , 161, 118-24	6
1873	Studies in human intestinal tissues: is it time to reemphasize research in human immunology?. 2014 , 147, 26-30	2
1872	Ontogeny of early life immunity. 2014 , 35, 299-310	221
1871	Metabolism of Human Diseases. 2014 ,	4

(2014-2014)

1870	337-51, vii-viii	39
1869	Thymic stromal lymphopoietin mediates the host response and increases mortality during sepsis. 2014 , 191, 19-24	9
1868	Danger signalling during cancer cell death: origins, plasticity and regulation. 2014 , 21, 26-38	155
1867	Animal models of human disease: inflammation. 2014 , 87, 121-30	68
1866	Attenuation of responses to endotoxin by the triggering receptor expressed on myeloid cells-1 inhibitor LR12 in nonhuman primate. 2014 , 120, 935-42	35
1865	Comprehensive Management of Arteriovenous Malformations of the Brain and Spine. 37-49	
1864	Real-time cytotoxicity assays in human whole blood. 2014 , e51941	1
1863	The Physiology and Genetics of Oxidative Stress in Mycobacteria. 2014 , 2,	21
1862	Anesthesia, microcirculation, and wound repair in aging. 2014 , 120, 760-72	48
1861	Effects of selective ¶-adrenoceptor blockade on cardiovascular and renal function and circulating cytokines in ovine hyperdynamic sepsis. 2014 , 18, 610	24
1860	Comprehensive Management of Arteriovenous Malformations of the Brain and Spine. 1-17	
1859	Increased Gut Permeability and Microbiota Change Associate with Mesenteric Fat Infl ammation and Metabolic Dysfunction in Diet-Induced Obese Mice. 2014 , 77-102	
1858	Lymphomania. 2014 , 123, 3057-8	2
1857	Thrombocytopenia impairs host defense in gram-negative pneumonia-derived sepsis in mice. 2014 , 124, 3781-90	137
1856	Platelets: balancing the septic triad. 2014 , 124, 3670-2	3
1855	The bovine lung in biomedical research: visually guided bronchoscopy, intrabronchial inoculation and in vivo sampling techniques. 2014 ,	9
1854	A human-specific mutation limits nonhuman primate efficacy in preclinical xenotransplantation studies. 2014 , 97, 385-90	8
1853	Human endotoxin administration as an experimental model in drug development. 2014 , 96, 418-22	33

1852	Cytokine profiles in mouse models of experimental immune thrombocytopenia reveal a lack of inflammation and differences in response to intravenous immunoglobulin depending on the mouse strain. 2014 , 54, 2871-9	9
1851	Can limited scientific value of potential pandemic pathogen experiments justify the risks?. 2014 , 5, e02008-14	9
1850	The flaws and human harms of animal experimentation. 2015 , 24, 407-19	154
1849	Association between biomarkers of endothelial injury and hypocoagulability in patients with severe sepsis: a prospective study. 2015 , 19, 191	78
1848	Applying computation biology and "big data" to develop multiplex diagnostics for complex chronic diseases such as osteoarthritis. 2015 , 20, 533-9	10
1847	Application of the Neurosphere Assay for DNT Hazard Assessment: Challenges and Limitations. 2015 , 1	10
1846	Zinc dyshomeostasis during polymicrobial sepsis in mice involves zinc transporter Zip14 and can be overcome by zinc supplementation. 2015 , 309, G768-78	51
1845	TSLP is differentially regulated by vitamin D3 and cytokines in human skin. 2015 , 3, 32-43	15
1844	New paradigms in sepsis: from prevention to protection of failing microcirculation. 2015 , 13, 1743-56	72
1843	Quantitative Systems Pharmacology Approaches Applied to Microphysiological Systems (MPS): Data Interpretation and Multi-MPS Integration. 2015 , 4, 585-94	44
1842	Invasive surgery reduces infarct size and preserves cardiac function in a porcine model of myocardial infarction. 2015 , 19, 2655-63	11
1841	Asparaginase treatment side-effects may be due to genes with homopolymeric Asn codons (Review-Hypothesis). 2015 , 36, 607-26	10
1840	Volatile organic compounds during inflammation and sepsis in rats: a potential breath test using ion-mobility spectrometry. 2015 , 122, 117-26	23
1839	The Use and Potential of pNF-H as a General Blood Biomarker of Axonal Loss: An Immediate Application for CNS Injury. 2015 , 318-329	7
1838	Platelets at the interface of thrombosis, inflammation, and cancer. 2015 , 126, 582-8	326
1837	Fatal autoimmunity in mice reconstituted with human hematopoietic stem cells encoding defective FOXP3. 2015 , 125, 3886-95	26
1836	Rhesus monkey model of liver disease reflecting clinical disease progression and hepatic gene expression analysis. 2015 , 5, 15019	6
1835	A 3D map of the islet routes throughout the healthy human pancreas. 2015 , 5, 14634	105

(2015-2015)

1834	Specialized Pro-Resolving Mediators from Omega-3 Fatty Acids Improve Amyloid-押hagocytosis and Regulate Inflammation in Patients with Minor Cognitive Impairment. 2015 , 48, 293-301	25
1833	A combined pre-clinical meta-analysis and randomized confirmatory trial approach to improve data validity for therapeutic target validation. 2015 , 5, 13428	26
1832	Short-term hyperoxia does not exert immunologic effects during experimental murine and human endotoxemia. 2015 , 5, 17441	15
1831	Whole-Blood Gene Expression Profiles in Large-Scale Epidemiological Studies: What Do They Tell?. 2015 , 4, 377-386	10
1830	Effect of trivalent arsenicals on cell proliferation in mouse and human microvascular endothelial cells. 2015 , 2, 833-837	4
1829	Large animal models of rare genetic disorders: sheep as phenotypically relevant models of human genetic disease. 2015 , 10, 107	27
1828	Transvenous vagus nerve stimulation does not modulate the innate immune response during experimental human endotoxemia: a randomized controlled study. 2015 , 17, 150	29
1827	Aging-like changes in the transcriptome of irradiated microglia. 2015 , 63, 754-67	34
1826	Use of Humanized Mice to Study the Pathogenesis of Autoimmune and Inflammatory Diseases. 2015 , 21, 1652-73	28
1825	Evaluation of the Cytosorb[Hemoadsorptive Column in a Pig Model of Severe Smoke and Burn Injury. 2015 , 44, 487-95	32
1824	Genetic characterization of interleukins (IL-1⊞L-1⊞L-2, IL-4, IL-8, IL-10, IL-12A, IL-12B, IL-15 and IL-18) with relevant biological roles in lagomorphs. 2015 , 21, 787-801	16
1823	BubbleGUM: automatic extraction of phenotype molecular signatures and comprehensive visualization of multiple Gene Set Enrichment Analyses. 2015 , 16, 814	52
1822	Identification and annotation of conserved promoters and macrophage-expressed genes in the pig genome. 2015 , 16, 970	9
1821	Microglia processes associate with diffusely injured axons following mild traumatic brain injury in the micro pig. 2015 , 12, 186	61
1820	Hemopexin in severe inflammation and infection: mouse models and human diseases. 2015 , 19, 166	32
1819	Cells from the hematopoietic lineage are only present transiently during healing in a mouse model of non-severe burn injury. 2015 , 6, 134	4
1818	Phenotypic and functional analysis of monocyte populations in cattle peripheral blood identifies a subset with high endocytic and allogeneic T-cell stimulatory capacity. 2015 , 46, 112	32
1817	Novel 24-h ovine model of brain death to study the profile of the endothelin axis during cardiopulmonary injury. 2015 , 3, 31	7

1816	TAT-HSP70 Attenuates Experimental Lung Injury. 2015 , 43, 582-8	7
1815	Influence of lipopolysaccharide-binding protein on pulmonary inflammation in gram-negative pneumonia. 2015 , 43, 612-9	11
1814	From bench to patient: model systems in drug discovery. 2015 , 8, 1171-4	7
1813	The platelet Fc receptor, FcRIIa. 2015, 268, 241-52	60
1812	Effect of Colchicine on Clostridium Difficile Infection Incidence, Recurrence, and Severity. 2015 , 23, 141-147	1
1811	Imaging Lymphoid Cell Death In Vivo During Polymicrobial Sepsis. 2015 , 43, 2303-12	8
1810	TEMPORAL LINKS BETWEEN ENDOTOXIN ACTIVITY LEVELS AND INTERLEUKIN 6 CONCENTRATIONS IN ABDOMINAL SEPSIS. 2015 , 44, 310-5	1
1809	Caring for social complexity in nanomedicine. 2015 , 10, 3181-93	8
1808	Mice Brain Tissue Injury Induced by Diisononyl Phthalate Exposure and the Protective Application of Vitamin E. 2015 , 29, 311-20	15
1807	Our time is now - how companion animal veterinarians can transform biomedical science. 2015 , 56, 689-92	1
1806	Plasma Glycoproteomics Reveals Sepsis Outcomes Linked to Distinct Proteins in Common Pathways. 2015 , 43, 2049-2058	34
1805	SIN3A mutations are rare in men with azoospermia. 2015 , 47, 1083-5	O
1804	Likelihood ratios in assessing the safety of new medicines. 2015 , 43, P2-4	2
1803	Models and Methods to Investigate Acute Stress Responses in Cattle. 2015 , 5, 1268-95	46
1802	Advanced Human In vitro Models for the Discovery and Development of Lung Cancer Therapies. 2015 ,	3
1801	Synergistic Aspects to Explain the Pathophysiology of Sepsis and Septic Shock-An Opinion. 2015 , 03,	1
1800	Lessons from Toxicology: Developing a 21st-Century Paradigm for Medical Research. 2015 , 123, A268-72	49
1799	Establishing the pig as a large animal model for vaccine development against human cancer. 2015 , 6, 286	12

1798	Efficacy of the porcine species in biomedical research. 2015 , 6, 293	84
1797	Long Intergenic Non-Coding RNAs: Novel Drivers of Human Lymphocyte Differentiation. 2015 , 6, 175	16
1796	AS03-Adjuvanted, Very-Low-Dose Influenza Vaccines Induce Distinctive Immune Responses Compared to Unadjuvanted High-Dose Vaccines in BALB/c Mice. 2015 , 6, 207	17
1795	Bench-to-Bedside and Bedside Back to the Bench; Seeking a Better Understanding of the Acute Pathophysiological Process in Severe Traumatic Brain Injury. 2015 , 6, 47	13
1794	Tuberculosis Vaccine Development [Its History and Future Directions. 2015,	4
1793	Time-Dependent and Organ-Specific Changes in Mitochondrial Function, Mitochondrial DNA Integrity, Oxidative Stress and Mononuclear Cell Infiltration in a Mouse Model of Burn Injury. 2015 , 10, e0143730	51
1792	RNA Sequence Analysis of Human Huntington Disease Brain Reveals an Extensive Increase in Inflammatory and Developmental Gene Expression. 2015 , 10, e0143563	99
1791	Coccidioides Endospores and Spherules Draw Strong Chemotactic, Adhesive, and Phagocytic Responses by Individual Human Neutrophils. 2015 , 10, e0129522	35
1790	Effects of Radiation on Spinal Dura Mater and Surrounding Tissue in Mice. 2015 , 10, e0133806	9
1789	Differential Toll-Like Receptor-Signalling of Burkholderia pseudomallei Lipopolysaccharide in Murine and Human Models. 2015 , 10, e0145397	20
1788	Hemopexin and haptoglobin: allies against heme toxicity from hemoglobin not contenders. 2015 , 6, 187	139
1787	Comparative Medicine in the Twenty-First Century: Where are We Now and Where Do We Go from Here?. 2015 , 2, 2	7
1786	Cardiac function in a long-term follow-up study of moderate and severe porcine model of chronic myocardial infarction. 2015 , 2015, 209315	5
1785	Safety and Efficacy Endpoints for Mesenchymal Stromal Cell Therapy in Renal Transplant Recipients. 2015 , 2015, 391797	10
1784	Comparison of Folate Receptor Targeted Optical Contrast Agents for Intraoperative Molecular Imaging. 2015 , 2015, 469047	49
1783	EB PUFAs and Resveratrol Differently Modulate Acute and Chronic Inflammatory Processes. 2015 , 2015, 535189	16
1782	Better science with human cell-based organ and tissue models. 2015 , 43, 29-38	8
1781	Literature review on in vitro and alternative Developmental Neurotoxicity (DNT) testing methods. 2015 , 12, 778E	14

1780	Intravenous Immunoglobulin with Enhanced Polyspecificity Improves Survival in Experimental Sepsis and Aseptic Systemic Inflammatory Response Syndromes. 2016 , 21, 1002-1010	16
1779	Barriers to the Uptake of Human-based Test Methods, and How to Overcome Them. 2015 , 43, 301-8	5
1778	Role of Platelets in Inflammation. 2015,	6
1777	iPSC technologyPowerful hand for disease modeling and therapeutic screen. 2015 , 48, 256-65	26
1776	How long must they suffer? success and failure of our efforts to end the animal tragedy in laboratories. 2015 , 43, 129-43	3
1775	Postnatal Age Is a Critical Determinant of the Neonatal Host Response to Sepsis. 2015 , 21, 496-504	41
1774	A Human-Specific ∰-Nicotinic Acetylcholine Receptor Gene in Human Leukocytes: Identification, Regulation and the Consequences of CHRFAM7A Expression. 2015 , 21, 323-36	25
1773	Physiological and immune-biological characterization of a long-term murine model of blunt chest trauma. 2015 , 43, 140-7	18
1772	Experimental design of complement component 5a-induced acute lung injury (C5a-ALI): a role of CC-chemokine receptor type 5 during immune activation by anaphylatoxin. 2015 , 29, 3762-72	30
1771	Macrophage takeover and the host-bacilli interplay during tuberculosis. 2015 , 10, 853-72	33
1770	Considerations on pig models for appetite, metabolic syndrome and obese type 2 diabetes: From food intake to metabolic disease. 2015 , 759, 231-9	55
1769	Serial Killers and Mass Murderers: Engineered T Cells Are up to the Task. 2015 , 3, 470-2	2
1768	Multiscale analysis of the murine intestine for modeling human diseases. 2015 , 7, 740-57	5
1767	Life Extension. 2015 ,	O
1766	Application of Mouse Genetics to Human Disease: Generation and Analysis of Mouse Models. 2015 , 63-75	
1765	Biology and mechano-response of tendon cells: Progress overview and perspectives. 2015 , 33, 785-92	17
1764	Chronic superantigen exposure induces systemic inflammation, elevated bloodstream endotoxin, and abnormal glucose tolerance in rabbits: possible role in diabetes. 2015 , 6, e02554	31
1763	Collection and Processing of External Secretions and Tissues of Mouse Origin. 2015 , 2355-2368	

(2015-2015)

1762	Failed drug discovery in psychiatry: time for human genome-guided solutions. 2015 , 19, 183-7	27
1761	Molecular signatures of vaccine adjuvants. 2015 , 33, 5302-7	50
1760	Expectations for methodology and translation of animal research: a survey of health care workers. 2015 , 16, 29	1
1759	Causes and consequences of coagulation activation in sepsis: an evolutionary medicine perspective. 2015 , 13, 105	38
1758	Insights and limits of translational research in critical care medicine. 2015 , 5, 8	9
1757	Inter-species pathway perturbation prediction via data-driven detection of functional homology. 2015 , 31, 501-8	5
1756	Large animal models for vaccine development and testing. 2015 , 56, 53-62	68
1755	Porcine models of cutaneous wound healing. 2015 , 56, 127-38	127
1754	In vitro innate immune cell based models to assess whole cell Bordetella pertussis vaccine quality: a proof of principle. 2015 , 43, 100-9	9
1753	Emerging and disease-specific mechanisms of hepatic stellate cell activation. 2015 , 35, 107-18	70
1752	Src-family-tyrosine kinase Lyn is critical for TLR2-mediated NF- B activation through the PI 3-kinase signaling pathway. 2015 , 21, 685-97	20
1751	A window-of-opportunity biomarker study of etodolac in resectable breast cancer. 2015 , 4, 1583-8	6
1750	Establishing a biomarker for postoperative ileus in humans - Results of the BiPOI trial. 2015 , 143, 58-64	6
1749	Insights into the Role of Chemokines, Damage-Associated Molecular Patterns, and Lymphocyte-Derived Mediators from Computational Models of Trauma-Induced Inflammation. 2015 , 23, 1370-87	53
1748	Role of Toll-like receptors in diabetic renal lesions in a miniature pig model. 2015 , 1, e1400183	23
1747	Non-human primate and rodent embryonic stem cells are differentially sensitive to embryotoxic compounds. 2015 , 2, 165-174	7
1746	A change in inflammatory footprint precedes plaque instability: a systematic evaluation of cellular aspects of the adaptive immune response in human atherosclerosis. 2015 , 4,	54
1745	The majority of 9,729 group A streptococcus strains causing disease secrete SpeB cysteine protease: pathogenesis implications. 2015 , 83, 4750-8	29

1744	High-dose ascorbate with low-dose amphotericin B attenuates severity of disease in a model of the reappearance of candidemia during sepsis in the mouse. 2015 , 309, R223-34	19
1743	Pancreatic Beta Cell Survival and Signaling Pathways: Effects of Type 1 Diabetes-Associated Genetic Variants. 2016 , 1433, 21-54	12
1742	A Detailed Characterization of the Dysfunctional Immunity and Abnormal Myelopoiesis Induced by Severe Shock and Trauma in the Aged. 2015 , 195, 2396-407	57
1741	T-cell receptor gene therapyready to go viral?. 2015 , 9, 2019-42	20
1740	The Snark was a Boojum - reloaded. 2015 , 12 Suppl 1, S20	13
1739	Caenorhabditis elegans: What We Can and Cannot Learn from Aging Worms. 2015 , 23, 256-79	33
1738	Human coagulation factor X-adenovirus type 5 complexes poorly stimulate an innate immune response in human mononuclear phagocytes. 2015 , 89, 2884-91	14
1737	Systems immunology reveals markers of susceptibility to West Nile virus infection. 2015 , 22, 6-16	28
1736	Asthma "of horses and men"how can equine heaves help us better understand human asthma immunopathology and its functional consequences?. 2015 , 66, 97-105	83
1735	Transcriptome assessment reveals a dominant role for TLR4 in the activation of human monocytes by the alarmin MRP8. 2015 , 194, 575-83	56
1734	Reservoir host immune responses to emerging zoonotic viruses. 2015 , 160, 20-35	80
1733	Modeling acute traumatic injury. 2015 , 194, 220-32	41
1732	A novel analytical brain block tool to enable functional annotation of discriminatory transcript biomarkers among discrete regions of the fronto-limbic circuit in primate brain. 2015 , 1600, 42-58	6
1731	Myricitrin exhibits antioxidant, anti-inflammatory and antifibrotic activity in carbon tetrachloride-intoxicated mice. 2015 , 230, 21-9	115
1730	Staphylococcus aureus Infection in Humanized Mice: A New Model to Study Pathogenicity Associated With Human Immune Response. 2015 , 212, 435-44	26
1729	Live attenuated influenza virus increases pneumococcal translocation and persistence within the middle ear. 2015 , 212, 195-201	16
1728	[Epigenetic regulation in sepsis : current state of knowledge]. 2015 , 64, 42-55	
1727	Infection, Autoimmunity, and Vitamin D. 2015 , 163-182	2

1726	rabbits. 2015 , 35, 1058-70		40
1725	Predicting protein phosphorylation from gene expression: top methods from the IMPROVER Species Translation Challenge. 2015 , 31, 462-70		12
1724	Surviving sepsis in the era of antibiotic resistance: are there any alternative approaches to antibiotic therapy?. 2015 , 80, 7-13		19
1723	Tissue-engineered models of human tumors for cancer research. 2015 , 10, 257-68		63
1722	Antitumour efficacy of the selumetinib and trametinib MEK inhibitors in a combined human airway-tumour-stroma lung cancer model. 2015 , 205, 111-9		19
1721	Human recombinant apyrase therapy protects against canine pulmonary ischemia-reperfusion injury. 2015 , 34, 247-53		17
1720	TCR-mediated functions are enhanced in activated peripheral blood T cells isolated from leucocyte reduction systems. 2015 , 416, 137-45		7
1719	Inhibition of mitochondrial genome expression triggers the activation of CHOP-10 by a cell signaling dependent on the integrated stress response but not the mitochondrial unfolded protein response. 2015 , 21, 58-68		52
1718	New insights and updated guidelines for epigenome-wide association studies. 2015 , 1, 14-19		20
1717	Genomic responses to inflammation in mouse models mimic humans: we concur, apples to oranges comparisons won't do. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E346	11.5	33
1717 1716	comparisons won't do. Proceedings of the National Academy of Sciences of the United States of	11.5	33
1716	comparisons won't do. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E346	11.5	
1716	comparisons won't do. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E346 The enduring importance of animal models in understanding periodontal disease. 2015 , 6, 229-35	11.5	40
1716 1715	comparisons won't do. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E346 The enduring importance of animal models in understanding periodontal disease. 2015 , 6, 229-35 Engineered in vitro disease models. 2015 , 10, 195-262 The future of preclinical animal models in pharmaceutical discovery and development: a need to	11.5	40
1716 1715 1714	comparisons won't do. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E346 The enduring importance of animal models in understanding periodontal disease. 2015 , 6, 229-35 Engineered in vitro disease models. 2015 , 10, 195-262 The future of preclinical animal models in pharmaceutical discovery and development: a need to bring in cerebro to the in vivo discussions. 2015 , 43, 70-7	11.5	40 373 33
1716 1715 1714 1713	comparisons won't do. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E346 The enduring importance of animal models in understanding periodontal disease. 2015 , 6, 229-35 Engineered in vitro disease models. 2015 , 10, 195-262 The future of preclinical animal models in pharmaceutical discovery and development: a need to bring in cerebro to the in vivo discussions. 2015 , 43, 70-7 Innovative human-specific investigational approaches to autoimmune disease. 2015 , 5, 18451-18463 The WOMED model of benign thyroid disease: Acquired magnesium deficiency due to physical and	11.5	40 373 33
1716 1715 1714 1713 1712	comparisons won't do. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E346 The enduring importance of animal models in understanding periodontal disease. 2015 , 6, 229-35 Engineered in vitro disease models. 2015 , 10, 195-262 The future of preclinical animal models in pharmaceutical discovery and development: a need to bring in cerebro to the in vivo discussions. 2015 , 43, 70-7 Innovative human-specific investigational approaches to autoimmune disease. 2015 , 5, 18451-18463 The WOMED model of benign thyroid disease: Acquired magnesium deficiency due to physical and psychological stressors relates to dysfunction of oxidative phosphorylation. 2015 , 3, 44-64 Computational modeling predicts IL-10 control of lesion sterilization by balancing early host immunity-mediated antimicrobial responses with caseation during mycobacterium tuberculosis	11.5	40 373 33 12 16

1708	TAM receptor-dependent regulation of SOCS3 and MAPKs contributes to proinflammatory cytokine downregulation following chronic NOD2 stimulation of human macrophages. 2015 , 194, 1928-37	24
1707	A review of genetic methods and models for analysis of coronavirus-induced severe pneumonitis. 2015 , 96, 494-506	1
1706	Silver sulfadiazine retards wound healing in mice via alterations in cytokine expression. 2015 , 135, 1459-1462	17
1705	New insights into TB physiology suggest untapped therapeutic opportunities. 2015 , 264, 327-43	20
1704	Species differential regulation of COX2 can be described by an NFB-dependent logic AND gate. 2015 , 72, 2431-43	19
1703	Macrophages modulate engineered human tissues for enhanced vascularization and healing. 2015 , 43, 616-27	49
1702	A Critical Review of Models of Perinatal Infection. 2015 , 37, 289-304	28
1701	Molecular mechanisms in genetically defined autoinflammatory diseases: disorders of amplified danger signaling. 2015 , 33, 823-74	181
1700	Skeletal muscle dysfunction is associated with derangements in mitochondrial bioenergetics (but not UCP3) in a rodent model of sepsis. 2015 , 308, E713-25	20
1699	Now you see me, now you don't: the interaction of Salmonella with innate immune receptors. 2015 , 13, 206-16	97
1698	Interleukin-3 amplifies acute inflammation and is a potential therapeutic target in sepsis. 2015 , 347, 1260-5	183
1697	Time-restricted feeding attenuates age-related cardiac decline in Drosophila. 2015 , 347, 1265-9	155
1696	Engineering control into medicine. 2015 , 30, 652.e1-7	8
1695	Splicing landscape of the eight collaborative cross founder strains. 2015 , 16, 52	6
1694	The future of murine sepsis and trauma research models. 2015 , 98, 945-52	71
1693	Urinary tract infection of mice to model human disease: Practicalities, implications and limitations. 2016 , 42, 780-99	35
1692	B Supplementation increases amyloid-phagocytosis and resolvin D1 in patients with minor cognitive impairment. 2015 , 29, 2681-9	43
1691	Development and application of human adult stem or progenitor cell organoids. 2015 , 11, 546-54	50

1690	Phagocytosis. 2015 , 109, 469-76	26
1689	Acute myocardial infarction activates distinct inflammation and proliferation pathways in circulating monocytes, prior to recruitment, and identified through conserved transcriptional responses in mice and humans. 2015 , 36, 1923-34	57
1688	Results of a preclinical randomized controlled multicenter trial (pRCT): Anti-CD49d treatment for acute brain ischemia. 2015 , 7, 299ra121	167
1687	MTMR3 risk allele enhances innate receptor-induced signaling and cytokines by decreasing autophagy and increasing caspase-1 activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 10461-6	20
1686	Adaptive Evolution as a Predictor of Species-Specific Innate Immune Response. 2015 , 32, 1717-29	19
1685	New insights into the architecture of the islet of Langerhans: a focused cross-species assessment. 2015 , 58, 2218-28	57
1684	Role of the AMP kinase in cytokine-induced human EndoC-🖽1 cell death. 2015 , 414, 53-63	17
1683	Beta-blocker use in severe sepsis and septic shock: a systematic review. 2015 , 31, 1817-25	48
1682	Livestock models for exploiting the promise of pluripotent stem cells. 2015 , 56, 74-82	22
1681	The Sick and the Weak: Neuropathies/Myopathies in the Critically Ill. 2015 , 95, 1025-109	166
1680	Molecular and cellular profiling of acute responses to total body radiation exposure in ovariectomized female cynomolgus macaques. 2015 , 91, 510-8	12
1679	Detailed characterization of a long-term rodent model of critical illness and recovery. 2015 , 43, e84-96	12
1678	Inter-species inference of gene set enrichment in lung epithelial cells from proteomic and large transcriptomic datasets. 2015 , 31, 492-500	2
1677	Discovering probiotic microorganisms: in vitro, in vivo, genetic and omics approaches. 2015 , 6, 58	179
1676	The Genetic Basis of Mendelian Phenotypes: Discoveries, Challenges, and Opportunities. 2015 , 97, 199-215	432
1675	Mitochondrial decline precedes phenotype development in the complement factor H mouse model of retinal degeneration but can be corrected by near infrared light. 2015 , 36, 2869-76	34
1674	Ungulates as model systems for the study of disease processes in natural populations. 2015 , 96, 4-15	24
1673	Organ system heterogeneity DB: a database for the visualization of phenotypes at the organ system level. 2015 , 43, D900-6	7

1672	Septic shock sera containing circulating histones induce dendritic cell-regulated necrosis in fatal septic shock patients. 2015 , 43, e107-16	24
1671	Host-Based Diagnostics for Detection and Prognosis of Infectious Diseases. 2015 , 465-500	4
1670	Traumatic spinal cord injury in mice with human immune systems. 2015 , 271, 432-44	9
1669	Animal experimentation in forensic sciences: How far have we come?. 2015 , 254, e29-35	6
1668	Two persistent organic pollutants which act through different xenosensors (alpha-endosulfan and 2,3,7,8 tetrachlorodibenzo-p-dioxin) interact in a mixture and downregulate multiple genes involved in human hepatocyte lipid and glucose metabolism. 2015 , 116, 79-91	23
1667	Animal Models in Biomedical Research. 2015 , 1497-1534	2
1666	Research in Laboratory Animal and Comparative Medicine. 2015 , 1535-1541	
1665	Inducing Persistent Flow Disturbances Accelerates Atherogenesis and Promotes Thin Cap Fibroatheroma Development in D374Y-PCSK9 Hypercholesterolemic Minipigs. 2015 , 132, 1003-12	48
1664	Peritoneal wash contents used to predict mortality in a murine sepsis model. 2015 , 199, 211-9	9
1663	Mesenchymal stromal cells and the acute respiratory distress syndrome (ARDS): challenges for clinical application. 2015 , 70, 611-2	3
1662	Parallels Between Mammals and Flies in Inflammatory Bowel Disease. 2015 , 151-189	1
1661	A Jekyll and Hyde Profile: Type 1 Interferon Signaling Plays a Prominent Role in the Initiation and Maintenance of a Persistent Virus Infection. 2015 , 212 Suppl 1, S31-6	10
1660	Vector-transmitted disease vaccines: targeting salivary proteins in transmission (SPIT). 2015 , 31, 363-72	11
1659	The molecular landscape of antibody-mediated kidney transplant rejection: evidence for NK involvement through CD16a Fc receptors. 2015 , 15, 1336-48	88
1658	Increased expression of neutrophil-related genes in patients with early sepsis-induced ARDS. 2015 , 308, L1102-13	101
1657	Translational models of lung disease. 2015 , 128, 235-56	34
1656	MicroRNAs as potential signatures of environmental exposure or effect: a systematic review. 2015 , 123, 399-411	205
1655	Emerging single-cell technologies in immunology. 2015 , 98, 23-32	9

1654	Prevalence of M4 macrophages within human coronary atherosclerotic plaques is associated with features of plaque instability. 2015 , 186, 219-25	32
1653	The potential use of mesenchymal stem cells in stroke therapyFrom bench to bedside. 2015 , 352, 1-11	30
1652	Age influences inflammatory responses, hemodynamics, and cardiac proteasome activation during acute lung injury. 2015 , 41, 216-27	16
1651	The influence of dysfunctional signaling and lipid homeostasis in mediating the inflammatory responses during atherosclerosis. 2015 , 1852, 1498-510	61
1650	Ischemic optic neuropathies and their models: disease comparisons, model strengths and weaknesses. 2015 , 59, 135-47	19
1649	Magnesium corrosion particles do not interfere with the immune function of primary human and murine macrophages. 2015 , 4, 21-30	11
1648	Embryo and gamete cryopreservation for genetic resources conservation of laboratory animals. 2015 , 46, 47-59	7
1647	Current challenges in understanding immune cell functions during septic syndromes. 2015 , 16, 11	8
1646	Human metabolic response to systemic inflammation: assessment of the concordance between experimental endotoxemia and clinical cases of sepsis/SIRS. 2015 , 19, 71	50
1645	Why do they die? Comparison of selected aspects of organ injury and dysfunction in mice surviving and dying in acute abdominal sepsis. 2015 , 3, 48	26
1644	Sepsis: a roadmap for future research. 2015 , 15, 581-614	616
1643	Human experimental endotoxemia in modeling the pathophysiology, genomics, and therapeutics of innate immunity in complex cardiometabolic diseases. 2015 , 35, 525-34	36
1642	The science of fatty acids and inflammation. 2015 , 6, 293S-301S	186
1641	Man is the new mouse: Elective surgery as a key translational model for multi-organ dysfunction and sepsis. 2015 , 16, 154-163	2
1640	New signaling pathways govern the host response to C. albicans infection in various niches. 2015 , 25, 679-89	57
1639	Advanced age is associated with worsened outcomes and a unique genomic response in severely injured patients with hemorrhagic shock. 2015 , 19, 77	52
1638	A comprehensive time-course-based multicohort analysis of sepsis and sterile inflammation reveals a robust diagnostic gene set. 2015 , 7, 287ra71	197
1637	Probing the secrets of Alzheimer's disease using human-induced pluripotent stem cell technology. 2015 , 12, 121-5	18

1636	Host response to Candida albicans bloodstream infection and sepsis. 2015 , 6, 316-26	58
1635	Cardiometabolic effects of genetic upregulation of the interleukin 1 receptor antagonist: a Mendelian randomisation analysis. 2015 , 3, 243-53	81
1634	Macrophages and cancer: from mechanisms to therapeutic implications. 2015 , 36, 229-39	422
1633	Mouse models rarely mimic the transcriptome of human neurodegenerative diseases: A systematic bioinformatics-based critique of preclinical models. 2015 , 759, 101-17	38
1632	Immunology and Psychiatry. 2015 ,	3
1631	Pig Induced Pluripotent Stem Cell-Derived Neural Rosettes Developmentally Mimic Human Pluripotent Stem Cell Neural Differentiation. 2015 , 24, 1901-11	7
1630	Monocyte imaging after myocardial infarction with 19F MRI at 3 T: a pilot study in explanted porcine hearts. 2015 , 16, 612-20	34
1629	Survival from burns in the new millennium: 70 years' experience from a single institution. 2015 , 261, 263-8	33
1628	Genomics of injury: The Glue Grant experience. 2015 , 78, 671-86	47
1627	Organ-on-a-chip: development and clinical prospects toward toxicity assessment with an emphasis on bone marrow. 2015 , 38, 409-18	19
1626	Sepsis and cytomegalovirus: foes or conspirators?. 2015 , 204, 431-7	22
1625	HIF1&llows monocytes to take a breather during sepsis. 2015 , 42, 397-9	5
1624	Using argument notation to engineer biological simulations with increased confidence. 2015 , 12, 20141059	16
1623	Standardization of a human organ culture model of intestinal inflammation and its application for drug testing. 2015 , 421, 96-103	3
1622	Regulation of pulmonary graft-versus-host disease by IL-26+CD26+CD4 T lymphocytes. 2015 , 194, 3697-712	32
1621	Organs-on-chips at the frontiers of drug discovery. 2015 , 14, 248-60	765
1620	Human monocytes undergo functional re-programming during sepsis mediated by hypoxia-inducible factor-1\(\text{1}\)2015, 42, 484-98	228
1619	Only humans have human placentas: molecular differences between mice and humans. 2015 , 108, 65-71	112

1618	Type 2 Diabetes is a Delayed Late Effect of Whole-Body Irradiation in Nonhuman Primates. 2015 , 183, 398-406	21
1617	Inflammation and Nutritional Science for Programs/Policies and Interpretation of Research Evidence (INSPIRE). 2015 , 145, 1039S-1108S	134
1616	Complement protein C1q bound to apoptotic cells suppresses human macrophage and dendritic cell-mediated Th17 and Th1 T cell subset proliferation. 2015 , 97, 147-60	74
1615	Cutaneous wound healing in aging small mammals: a systematic review. 2015 , 23, 318-39	52
1614	The intersection of microbiome and host at the skin interface: genomic- and metagenomic-based insights. 2015 , 25, 1514-20	52
1613	Multifactorial processes to slowing the biological clock: Insights from a comparative approach. 2015 , 71, 27-37	8
1612	Respiratory nanoparticle-based vaccines and challenges associated with animal models and translation. 2015 , 219, 622-631	21
1611	The rat adequately reflects human responses to exercise in blood biochemical profile: a comparative study. 2015 , 3, e12293	30
1610	A microfluidically perfused three dimensional human liver model. 2015 , 71, 119-131	132
1609	Role of the autonomic nervous system in activation of human brown adipose tissue: A review of the literature. 2015 , 41, 437-45	17
1608	DEL-1 restrains osteoclastogenesis and inhibits inflammatory bone loss in nonhuman primates. 2015 , 7, 307ra155	56
1607	Genes affecting ∉tell function in type 1 diabetes. 2015 , 15, 97	36
1606	Inflammatory mediator-induced modulation of GABAA currents in human sensory neurons. 2015 , 310, 401-9	25
1605	A Role for IFITM Proteins in Restriction of Mycobacterium tuberculosis Infection. 2015 , 13, 874-83	35
1604	Translational toxicology in setting occupational exposure limits for dusts and hazard classification - a critical evaluation of a recent approach to translate dust overload findings from rats to humans. 2015 , 12, 3	31
1603	Cholinergic Pathway Suppresses Pulmonary Innate Immunity Facilitating Pneumonia After Stroke. 2015 , 46, 3232-40	54
1602	Immunesenescence and inflammaging: A contributory factor in the poor outcome of the geriatric trauma patient. 2015 , 24, 349-57	22
1601	Modeling Human Bone Marrow Failure Syndromes Using Pluripotent Stem Cells and Genome Engineering. 2015 , 23, 1832-42	9

1600	Can animal data translate to innovations necessary for a new era of patient-centred and individualised healthcare? Bias in preclinical animal research. 2015 , 16, 53	26
1599	A shift in paradigm towards human biology-based systems for cholestatic-liver diseases. 2015 , 593, 5043-55	14
1598	GeneWeaver: finding consilience in heterogeneous cross-species functional genomics data. 2015 , 26, 556-66	9
1597	An update on the etiology of abdominal aortic aneurysms: implications for future diagnostic testing. 2015 , 13, 1079-90	6
1596	Moraxella catarrhalis induces an immune response in the murine lung that is independent of human CEACAM5 expression and long-term smoke exposure. 2015 , 309, L250-61	11
1595	Professionalism and ethics in animal research. 2015 , 33, 1027-8	4
1594	The uncovering of ESE-1 in human neutrophils: implication of its role in neutrophil function and survival. 2015 , 16, 356-61	4
1593	Increasing disparities between resource inputs and outcomes, as measured by certain health deliverables, in biomedical research. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 11335-40	55
1592	Drying process strongly affects probiotics viability and functionalities. 2015 , 214, 17-26	61
1591	Rodents as pre-clinical models for predicting vaccine performance in humans. 2015 , 14, 1213-1225	9
1590	A new frontier for an old drug? A word of caution for beta-blockers in sepsis!. 2015 , 31, 1829-30	1
1589	Computational Systems Toxicology. 2015 ,	5
1588	Zebrafish as tools for drug discovery. 2015 , 14, 721-31	608
1587	Protein A suppresses immune responses during Staphylococcus aureus bloodstream infection in guinea pigs. 2015 , 6,	27
1586	Understanding the pathogenesis of abdominal aortic aneurysms. 2015 , 13, 975-87	171
1585	Epigenetische Regulation in der Sepsis. 2015 , 18, 160-173	
1584	Network-based discovery through mechanistic systems biology. Implications for applicationsSMEs and drug discovery: where the action is. 2015 , 15, 41-8	9
1583	Not All SCID Pigs Are Created Equally: Two Independent Mutations in the Artemis Gene Cause SCID in Pigs. 2015 , 195, 3171-9	32

1582	The Blood Transcriptome of Experimental Melioidosis Reflects Disease Severity and Shows Considerable Similarity with the Human Disease. 2015 , 195, 3248-3261	18
1581	The NLRP3 inflammasome is critically involved in the development of bronchopulmonary dysplasia. 2015 , 6, 8977	98
1580	Computational functional genomics based analysis of pain-relevant micro-RNAs. 2015, 134, 1221-38	3
1579	The long noncoding RNA landscape in hypoxic and inflammatory renal epithelial injury. 2015 , 309, F901-13	57
1578	Analysis of circulating plasmacytoid dendritic cells during the course of sepsis. 2015 , 158, 248-54	5
1577	Neutrophil elastase-induced elastin degradation mediates macrophage influx and lung injury in 60% O2-exposed neonatal rats. 2015 , 309, L53-62	9
1576	Potential therapeutic targets for sepsis in women. 2015 , 19, 1531-43	12
1575	A systematic comparison of the impact of inflammatory signaling on absorption, distribution, metabolism, and excretion gene expression and activity in primary human hepatocytes and HepaRG cells. 2015 , 43, 273-83	58
1574	Mice are not men. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E345	78
1573	CHRFAM7A, a human-specific and partially duplicated #-nicotinic acetylcholine receptor gene with the potential to specify a human-specific inflammatory response to injury. 2015 , 97, 247-57	35
1572	CXCL4-induced plaque macrophages can be specifically identified by co-expression of MMP7+S100A8+ in vitro and in vivo. 2015 , 21, 255-65	62
1571	Going viral: chimeric antigen receptor T-cell therapy for hematological malignancies. 2015 , 263, 68-89	237
1570	The pathogenesis of bleomycin-induced lung injury in animals and its applicability to human idiopathic pulmonary fibrosis. 2015 , 41, 57-73	85
1569	The dual nature of interleukin-10 in pemphigus vulgaris. 2015 , 73, 335-41	21
1568	A low-cost, high-quality new drug discovery process using patient-derived induced pluripotent stem cells. 2015 , 20, 37-49	29
1567	Pathophysiological basis for compromised health beyond generations: role of maternal high-fat diet and low-grade chronic inflammation. 2015 , 26, 1-8	37
1566	Disruption of microRNA-21 by TALEN leads to diminished cell transformation and increased expression of cell-environment interaction genes. 2015 , 356, 506-516	25
1565	Designing specific cheese-ripening ecosystems to shape the immune effects of dairy products?. 2015 , 12, 219-229	6

1564	Differential and opposing effects of imatinib on LPS- and ventilator-induced lung injury. 2015 , 308, L259-69	40
1563	Intestinal neuroendocrine cells and goblet cells are mediators of IL-17A-amplified epithelial IL-17C production in human inflammatory bowel disease. 2015 , 8, 943-58	43
1562	Perioperative Kidney Injury. 2015 ,	1
1561	In vitro micro-physiological models for translational immunology. 2015 , 15, 614-36	29
1560	Blau syndrome-associated Nod2 mutation alters expression of full-length NOD2 and limits responses to muramyl dipeptide in knock-in mice. 2015 , 194, 349-57	27
1559	A Tissue Regeneration Approach to Bone and Cartilage Repair. 2015 ,	3
1558	Beyond mice and men: environmental change, immunity and infections in wild ungulates. 2015 , 37, 255-66	23
1557	The human microbiota associated with overall health. 2015 , 35, 129-40	15
1556	Treefrogs as animal models for research on auditory scene analysis and the cocktail party problem. 2015 , 95, 216-37	42
1555	Inflammation and tuberculosis: host-directed therapies. 2015 , 277, 373-87	74
1554	Vaccine adjuvant uses of poly-IC and derivatives. 2015 , 14, 447-59	118
1553	Genomic responses in mouse models greatly mimic human inflammatory diseases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 1167-72	337
1552	Recognition of Coxiella burnetii by toll-like receptors and nucleotide-binding oligomerization domain-like receptors. 2015 , 211, 978-87	17
1551	A perspective on the clinical translation of scaffolds for tissue engineering. 2015 , 43, 641-56	128
1550	Upconverting nanoparticles: assessing the toxicity. 2015 , 44, 1561-84	416
1549	MicroRNA-146a controls Th1-cell differentiation of human CD4+ T lymphocytes by targeting PRKC D. 2015 , 45, 260-72	39
1548	What You See Is What You Get. 2016 , 12, 52-55	
1547	Mortality of Septic Mice Strongly Correlates With Adrenal Gland Inflammation. 2016 , 44, e190-9	13

1546	Intestine-Derived Matrix Metalloproteinase-8 Is a Critical Mediator of Polymicrobial Peritonitis. 2016 , 44, e200-6	12
1545	Platelets as Mediators of the Vascular Response to Infection. 2016 , 23-30	
1544	Biology-inspired microphysiological system approaches to solve the prediction dilemma of substance testing. 2016 , 33, 272-321	161
1543	Brain Fires in Autism Spectrum Disorders. 2016 , 13,	
1542	Interplay between Cellular and Molecular Inflammatory Mediators in Lung Cancer. 2016 , 2016, 3494608	24
1541	Evaluating mesenchymal stem cell therapy for sepsis with preclinical meta-analyses prior to initiating a first-in-human trial. 2016 , 5,	56
1540	Evaluation of Collagen Type-1 Production and Anti-Inflammatory Activities of Human Placental Extracts in Human Gingival Fibroblasts. 2016 , 25, 277-281	2
1539	GPR41 and GPR43 in Obesity and Inflammation - Protective or Causative?. 2016 , 7, 28	145
1538	The Role of Animal Models in the Study of Hematopoietic Stem Cell Transplantation and GvHD: A Historical Overview. 2016 , 7, 333	24
1537	Fas Versatile Signaling and Beyond: Pivotal Role of Tyrosine Phosphorylation in Context-Dependent Signaling and Diseases. 2016 , 7, 429	10
1536	Immune Regulation by Pericytes: Modulating Innate and Adaptive Immunity. 2016 , 7, 480	68
1535	Exploring Relationships between Host Genome and Microbiome: New Insights from Genome-Wide Association Studies. 2016 , 7, 1611	14
1534	Neuroinvasion and Inflammation in Viral Central Nervous System Infections. 2016 , 2016, 8562805	75
1533	Humanized Mice in Translational Immunology. 2016 , 285-326	8
1532	Complementary Approaches to Existing Target Based Drug Discovery for Identifying Novel Drug Targets. 2016 , 4,	16
1531	Farewell to Animal Testing: Innovations on Human Intestinal Microphysiological Systems. 2016 , 7,	18
1530	Microfabricated Physiological Models for In Vitro Drug Screening Applications. 2016 , 7,	16
1529	Tomato Aqueous Extract Modulates the Inflammatory Profile of Immune Cells and Endothelial Cells. 2016 , 21, 168	12

1528	"Omics"-Informed Drug and Biomarker Discovery: Opportunities, Challenges and Future Perspectives. 2016 , 4,	83
1527	Activation of innate immune genes in caprine blood leukocytes after systemic endotoxin challenge. 2016 , 12, 241	15
1526	The Pig: A Relevant Model for Evaluating the Neutrophil Serine Protease Activities during Acute Pseudomonas aeruginosa Lung Infection. 2016 , 11, e0168577	14
1525	Efficacy of the Quorum Sensing Inhibitor FS10 Alone and in Combination with Tigecycline in an Animal Model of Staphylococcal Infected Wound. 2016 , 11, e0151956	34
1524	Human Liver Infection in a Dish: Easy-To-Build 3D Liver Models for Studying Microbial Infection. 2016 , 11, e0148667	12
1523	LPS-induced Murine Neuroinflammation Model: Main Features and Suitability for Pre-clinical Assessment of Nutraceuticals. 2016 , 14, 155-64	164
1522	The Emerging Potential for Epigenetic Therapeutics in Noncancer Disorders. 2016 , 437-456	2
1521	Expectations for the methodology and translation of animal research: a survey of the general public, medical students and animal researchers in North America. 2016 , 44, 361-381	4
1520	The European Citizens' Stop Vivisection Initiative and the revision of Directive. 2016 , 44, 383-390	4
1519	Clinical and Experimental Sepsis Impairs CD8 T-Cell-Mediated Immunity. 2016 , 36, 57-74	30
1518	SYSTEM-WIDE MAPPING OF ACTIVATED CIRCUITRY IN EXPERIMENTAL SYSTEMIC INFLAMMATORY RESPONSE SYNDROME. 2016 , 45, 148-56	6
1517	Enhanced Efficacy of Combinations of Pexiganan with Colistin Versus Acinetobacter Baumannii in Experimental Sepsis. 2016 , 46, 219-25	8
1516	Immunologic Consequences of Hypoxia during Critical Illness. 2016 , 125, 237-49	14
1515	Use of Biotelemetry to Define Physiology-Based Deterioration Thresholds in a Murine Cecal Ligation and Puncture Model of Sepsis. 2016 , 44, e420-31	27
1514	The integration of quantitative genetics, paleontology, and neontology reveals genetic underpinnings of primate dental evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 9262-7	41
1513	Intradermal injection of an anti-Langerin-HIVGag fusion vaccine targets epidermal Langerhans cells in nonhuman primates and can be tracked in vivo. 2016 , 46, 689-700	12
1512	OBESITY AND CRITICAL ILLNESS: INSIGHTS FROM ANIMAL MODELS. 2016 , 45, 349-58	28
1511	The Response to Burn Injury in Mice With Human Hematolymphoid Systems. 2016 , 263, 199-204	4

1510	Early leukocyte gene expression associated with age, burn size, and inhalation injury in severely burned adults. 2016 , 80, 250-7	17
1509	Post-Lyme Syndrome-Associated Polyneuropathy Treated With Immune Immunoglobulin and a Luteolin-Containing Formulation. 2016 , 36, 290-1	2
1508	Editorial: 21st Century Storm Chasers: Defining Macrophage Activation Syndrome. 2016 , 68, 557-60	7
1507	Similarly Lethal Strains of Extraintestinal Pathogenic Escherichia coli Trigger Markedly Diverse Host Responses in a Zebrafish Model of Sepsis. 2016 , 1,	13
1506	ACUTE DIALYSIS QUALITY INITIATIVE (ADQI) XIV SEPSIS PHENOTYPES AND TARGETS FOR BLOOD PURIFICATION IN SEPSIS: THE BOGOTICONSENSUS. 2016 , 45, 242-8	7
1505	Mapping ethical and social aspects of cancer biomarkers. 2016 , 33, 763-772	8
1504	Systems biology approaches for identifying adverse drug reactions and elucidating their underlying biological mechanisms. 2016 , 8, 104-22	30
1503	Loss of MeCP2 in the rat models regression, impaired sociability and transcriptional deficits of Rett syndrome. 2016 , 25, 3284-3302	38
1502	The Role of Lipopolysaccharide Structure in Monocyte Activation and Cytokine Secretion. 2016 , 45, 22-7	16
1501	Defining the optimal animal model for translational research using gene set enrichment analysis. 2016 , 8, 831-8	20
1500	Tissue Chips to aid drug development and modeling for rare diseases. 2016 , 4, 1113-1121	26
1499	Surviving physiological stress: Can insights into human adaptation to austere environments be applied to the critical care unit?. 2016 , 11, 6-13	2
1498	Effectiveness of Multiple Blood-Cleansing Interventions in Sepsis, Characterized in Rats. 2016 , 6, 24719	1
1497	Detecting common genomic mechanism between diseases using paired sparse canonical correlation analysis. 2016 ,	
1496	Epigenetic Regulation of Myeloid Cells. 2016 , 4,	14
1495	Depression as a systemic syndrome: mapping the feedback loops of major depressive disorder. 2016 , 46, 551-62	87
1494	Canine cancer immunotherapy studies: linking mouse and human. 2016 , 4, 97	62
1493	Antibody Half-Life. 2016 , 565-590	

1492	Generation of Hoxc13 knockout pigs recapitulates human ectodermal dysplasia-9. 2017 , 26, 184-191	16
1491	Monocyte-induced recovery of inflammation-associated hepatocellular dysfunction in a biochip-based human liver model. 2016 , 6, 21868	36
1490	Current advances in three-dimensional tissue/organ printing. 2016 , 13, 612-621	27
1489	Regulated necrosis-related molecule mRNA expression in humans and mice and in murine acute tissue injury and systemic autoimmunity leading to progressive organ damage, and progressive fibrosis. 2016 , 36,	21
1488	Mechanistic Modeling of Inflammation. 2016 , 325-352	0
1487	Generation of transgenic cynomolgus monkeys that express green fluorescent protein throughout the whole body. 2016 , 6, 24868	26
1486	Genetically diverse CC-founder mouse strains replicate the human influenza gene expression signature. 2016 , 6, 26437	17
1485	Effects of Different Crystalloid Solutions on Hemodynamics, Peripheral Perfusion, and the Microcirculation in Experimental Abdominal Sepsis. 2016 , 125, 744-754	31
1484	Response of human macrophages to wound matrices in vitro. 2016 , 24, 514-24	46
1483	Mouse Models in Bone Fracture Healing Research. 2016 , 2, 101-111	36
1482	Common and Rare Genetic Variation in CCR2, CCR5, or CX3CR1 and Risk of Atherosclerotic Coronary Heart Disease and Glucometabolic Traits. 2016 , 9, 250-8	14
1481	HDL functionality in reverse cholesterol transportChallenges in translating data emerging from mouse models to human disease. 2016 , 1861, 566-83	52
1480	Animal Models of Helicobacter pylori Infection. 2016 , 273-297	2
1479	Construction of an immunorelated protein-protein interaction network for clarifying the mechanism of burn. 2016 , 42, 405-13	5
1478	A novel microfluidic assay reveals a key role for protein kinase C In regulating human neutrophil-endothelium interaction. 2016 , 100, 1027-1035	24
1477	Autophagy in sepsis: Degradation into exhaustion?. 2016 , 12, 1073-82	80
1476	Why does bone have TERM limits?. 2016 , 47, 1159-61	5
1475	Modeling intraocular bacterial infections. 2016 , 54, 30-48	28

1474	Designing phase 3 sepsis trials: application of learned experiences from critical care trials in acute heart failure. 2016 , 4, 24	31
1473	Strain-Related Differences in the Immune Response: Relevance to Human Stroke. 2016 , 7, 303-12	30
1472	Human whole-blood culture system for ex vivo characterization of designer-cell function. 2016 , 113, 588-97	9
1471	Preclinical modeling of hematopoietic stem cell transplantation - advantages and limitations. 2016 , 283, 1595-606	11
1470	Complement inhibition in pre-clinical models of periodontitis and prospects for clinical application. 2016 , 28, 285-91	36
1469	Human Validation of Genes Associated With a Murine Atherosclerotic Phenotype. 2016 , 36, 1240-6	34
1468	Clarifying Human White Matter. 2016 , 39, 103-28	72
1467	Metabolic Response to Burn. 2016 , 73-84	
1466	Development of immunization trials against Acinetobacter baumannii. 2016 , 5, 53-60	30
1465	Normalizing the environment recapitulates adult human immune traits in laboratory mice. 2016 , 532, 512-6	590
1464	Pigs as models of human cancers. 2016 , 86, 433-7	34
1463	Radiation-induced brain injury: low-hanging fruit for neuroregeneration. 2016 , 40, E3	28
1462	3D Printed Tissue Models: Present and Future. 2016 , 2, 1722-1731	102
1461	Sequential Infection with Common Pathogens Promotes Human-like Immune Gene Expression and Altered Vaccine Response. 2016 , 19, 713-9	144
1460	Bridging translation for acute kidney injury with better preclinical modeling of human disease. 2016 , 310, F972-84	31
1459	IRF5 and IRF5 Disease-Risk Variants Increase Glycolysis and Human M1 Macrophage Polarization by Regulating Proximal Signaling and Akt2 Activation. 2016 , 16, 2442-55	58
1458	Humanized mice in infectious diseases. 2016 , 49, 29-38	29
1457	A role for seminal plasma in modulating pregnancy outcomes in domestic species. 2016 , 152, R223-R232	58

1456	Increasing the Impact of Materials in and beyond Bio-Nano Science. 2016 , 138, 13449-13456	39
1455	Mice engrafted with human hematopoietic stem cells support a human myeloid cell inflammatory response in vivo. 2016 , 24, 1004-1014	8
1454	Proteinases, Their Extracellular Targets, and Inflammatory Signaling. 2016 , 68, 1110-1142	39
1453	The diagnostic and prognostic value of systems biology research in major traumatic and thermal injury: a review. 2016 , 4, 33	21
1452	Developmental Models and Mechanisms for Understanding the Effects of Early Experiences on Psychological Development. 2016 , 1-43	1
1451	The metabolic stress response to burn trauma: current understanding and therapies. 2016 , 388, 1417-1426	138
1450	3D human tissue culture: modeling environmental effects on the stem cell epigenome. 2016 , 8, 1453-1457	4
1449	Novel Role for Matrix Metalloproteinase 9 in Modulation of Cholesterol Metabolism. 2016 , 5,	14
1448	Colistin enhances therapeutic efficacy of daptomycin or teicoplanin in a murine model of multiresistant Acinetobacter baumannii sepsis. 2016 , 86, 392-398	14
1447	Platelet-Derived Growth Factor in Heart Failure. 2017 , 243, 355-369	9
1446	Generation of RUNX3 knockout pigs using CRISPR/Cas9-mediated gene targeting. 2016, 51, 970-978	21
1445	Neurotensin stimulates sortilin and mTOR in human microglia inhibitable by methoxyluteolin, a potential therapeutic target for autism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E7049-E7058	71
1444	Adaptive immune response to whole cell pertussis vaccine reflects vaccine quality: A possible complementation to the Pertussis Serological Potency test. 2016 , 34, 4429-36	2
1443	Stem cell-derived cardiomyocytes and hepatocytes as tools for drug development and screening applications. 2016 , 171-192	1
1442	Current Murine Models of Sepsis. 2016 , 17, 385-93	109
1441	Novel translational model of resolving inflammation triggered by UV-killed E. coli. 2016 , 2, 154-65	21
1440	Macrophage Recruitment and Polarization During Collateral Vessel Remodeling in Murine Adipose Tissue. 2016 , 23, 75-87	18
1439	Atherogenesis: hyperhomocysteinemia interactions with LDL, macrophage function, paraoxonase 1, and exercise. 2016 , 1363, 138-54	27

1438	A systematic review of methodology applied during preclinical anesthetic neurotoxicity studies: important issues and lessons relevant to the design of future clinical research. 2016 , 26, 6-36	50
1437	Injury, inflammation and the emergence of human-specific genes. 2016 , 24, 602-6	13
1436	Apoptosis in Cancer Pathogenesis and Anti-cancer Therapy. 2016 ,	3
1435	Novel Approaches to Apoptosis-Inducing Therapies. 2016 , 930, 173-204	13
1434	Using the mouse to model human disease: increasing validity and reproducibility. 2016 , 9, 101-3	142
1433	Pathogenic, immunologic, and clinical aspects of sepsis - update 2016. 2016 , 14, 917-27	9
1432	Advantages of nonhuman primates as preclinical models for evaluating stem cell-based therapies for Parkinson's disease. 2016 , 17, 352-366	46
1431	Non-linear Dynamics in Transcriptional Regulation: Biological Logic Gates. 2016 , 43-62	3
1430	Brainy birds. 2016 , 26, R650-R652	
1429	With mouse age comes wisdom: A review and suggestions of relevant mouse models for age-related conditions. 2016 , 160, 54-68	13
1428	Generation and characterization of RAG2 knockout pigs as animal model for severe combined immunodeficiency. 2016 , 178, 37-49	29
1427	Sex Hormones and Sleep in Men and Women From the General Population: A Cross-Sectional Observational Study. 2016 , 101, 3968-3977	17
1426	Differential Paradigms in Animal Models of Sepsis. 2016 , 18, 26	41
1425	Is gonococcal disease preventable? The importance of understanding immunity and pathogenesis in vaccine development. 2016 , 42, 928-41	62
1424	Nonlinear Dynamics in Biological Systems. 2016 ,	2
1423	The selective NLRP3-inflammasome inhibitor MCC950 reduces infarct size and preserves cardiac function in a pig model of myocardial infarction. 2017 , 38, 828-836	174
1422	'Model organisms' in the light of evolution. 2016 , 26, R649-50	29
1421	Research Resource: A Reference Transcriptome for Constitutive Androstane Receptor and Pregnane X Receptor Xenobiotic Signaling. 2016 , 30, 937-48	2

1420 Experimental systems to study the origin of the myofibroblast in peritoneal fibrosis. 2016 , 35, 133-41	12
The population genomics of rhesus macaques (Macaca mulatta) based on whole-genome sequences. 2016 , 26, 1651-1662	76
1418 The road to precision psychiatry: translating genetics into disease mechanisms. 2016 , 19, 1397-1407	131
Human and mouse monocytes display distinct signalling and cytokine profiles upon stimulation with FFAR2/FFAR3 short-chain fatty acid receptor agonists. 2016 , 6, 34145	49
1416 Minipigs as models in drug discovery. 2016 , 11, 1131-1134	11
1415 Evolutionary Medicine II. Use of the Comparative Method and The Animal Model. 2016 , 65-68	
Distinct behavioral and epileptic phenotype differences in 129/P mice compared to C57BL/6 mice subject to intraamygdala kainic acid-induced status epilepticus. 2016 , 64, 186-194	3
Induced Pluripotent Stem Cell-Derived Outer-Blood-Retinal Barrier for Disease Modeling and Drug Discovery. 2016 , 436-457	
1412 Disease-Specific Stem Cell Models for Toxicological Screenings and Drug Development. 2016 , 122-144	
Circadian Rhythm and Sleep Disruption: Causes, Metabolic Consequences, and Countermeasures. 2016 , 37, 584-608	280
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	280 28
¹⁴¹¹ 2016 , 37, 584-608	
 2016, 37, 584-608 1410 Involvement of B cells in non-infectious uveitis. 2016, 5, e63 	28
1411 2016, 37, 584-608 1410 Involvement of B cells in non-infectious uveitis. 2016, 5, e63 1409 Physics-Based Modeling for the Physiome. 2016, 127-148 Intravenous Endotoxin Challenge in Healthy Humans: An Experimental Platform to Investigate and	28
1410 Involvement of B cells in non-infectious uveitis. 2016, 5, e63 1409 Physics-Based Modeling for the Physiome. 2016, 127-148 1408 Intravenous Endotoxin Challenge in Healthy Humans: An Experimental Platform to Investigate and Modulate Systemic Inflammation. 2016, Increased nicotine response in iPSC-derived human neurons carrying the CHRNA5 N398 allele. 2016	28 2 15
1410 Involvement of B cells in non-infectious uveitis. 2016, 5, e63 1409 Physics-Based Modeling for the Physiome. 2016, 127-148 1408 Intravenous Endotoxin Challenge in Healthy Humans: An Experimental Platform to Investigate and Modulate Systemic Inflammation. 2016, 1407 Increased nicotine response in iPSC-derived human neurons carrying the CHRNA5 N398 allele. 2016, 6, 34341	28 2 15 23
1411 2016, 37, 584-608 1410 Involvement of B cells in non-infectious uveitis. 2016, 5, e63 1409 Physics-Based Modeling for the Physiome. 2016, 127-148 1408 Intravenous Endotoxin Challenge in Healthy Humans: An Experimental Platform to Investigate and Modulate Systemic Inflammation. 2016, 1407 Increased nicotine response in iPSC-derived human neurons carrying the CHRNA5 N398 allele. 2016 1406 Lessons from sheep models of transfusion. 2016, 11, 73-78	28 2 15 23

1402	Impact of Isolated Burns on Major Organs: A Large Animal Model Characterized. 2016 , 46, 137-47	19
1401	Nonalcoholic fatty liver disease: Roles of the gut and the liver and metabolic modulation by some dietary factors and especially long-chain n-3 PUFA. 2016 , 60, 147-59	24
1400	Properties of Adult Lung Stem and Progenitor Cells. 2016 , 231, 2582-9	13
1399	Effect of disrupted mitochondria as a source of damage-associated molecular patterns on the production of tumor necrosis factor by splenocytes from dogs. 2016 , 77, 604-12	4
1398	Controlling the cytokine storm in severe bacterial diarrhoea with an oral Toll-like receptor 4 antagonist. 2016 , 147, 178-89	6
1397	Identification of Biological and Pharmaceutical Mast Cell- and Basophil-Related Targets. 2016 , 83, 465-72	1
1396	Exome screening to identify loss-of-function mutations in the rhesus macaque for development of preclinical models of human disease. 2016 , 17, 170	7
1395	NF-B in acute pancreatitis: Mechanisms and therapeutic potential. 2016, 16, 477-88	80
1394	Immune-competent human skin disease models. 2016 , 21, 1479-1488	25
1393	Human ex-vivo action potential model for pro-arrhythmia risk assessment. 2016 , 81, 183-95	22
1392	IMMUNE CELL PHENOTYPE AND FUNCTION IN SEPSIS. 2016 , 45, 282-91	79
1391	Renal Proteomic Responses to Severe Sepsis and Surgical Trauma: Dynamic Analysis of Porcine Tissue Biopsies. 2016 , 46, 453-64	8
1390	Systematic Evaluation of the Cellular Innate Immune Response During the Process of Human Atherosclerosis. 2016 , 5,	28
1389	Comparison of Gene Expression Patterns Between Mouse Models of Nonalcoholic Fatty Liver Disease and Liver Tissues From Patients. 2016 , 151, 513-525.e0	125
1388	Modular, pumpless body-on-a-chip platform for the co-culture of GI tract epithelium and 3D primary liver tissue. 2016 , 16, 2719-29	136
1387	Apolipoprotein E as a Therapeutic Target in Alzheimer's Disease: A Review of Basic Research and Clinical Evidence. 2016 , 30, 773-89	66
1386	Up-regulation of the human-specific CHRFAM7A gene in inflammatory bowel disease. 2016 , 5, 66-71	16
1385	The best of both worlds: reaping the benefits from mammalian and bacterial therapeutic circuits. 2016 , 34, 11-19	10

1384	Preoperative prognostic factors for severe diffuse secondary peritonitis: a retrospective study. 2016 , 401, 611-7	10
1383	A human macrophage-hepatocyte co-culture model for comparative studies of infection and replication of Francisella tularensis LVS strain and subspecies holarctica and mediasiatica. 2016 , 16, 2	7
1382	Ethanol-mediated activation of the NLRP3 inflammasome in iPS cells and iPS cells-derived neural progenitor cells. 2016 , 9, 51	20
1381	RNA-Seq of Huntington's disease patient myeloid cells reveals innate transcriptional dysregulation associated with proinflammatory pathway activation. 2016 , 25, 2893-2904	33
1380	29th International Mammalian Genome Conference meeting report. 2016 , 27, 169-78	O
1379	Human gut-on-a-chip technology: will this revolutionize our understanding of IBD and future treatments?. 2016 , 10, 883-5	30
1378	Physiologically relevant human tissue models for infectious diseases. 2016 , 21, 1540-1552	34
1377	Activation of the vitamin D receptor selectively interferes with calcineurin-mediated inflammation: a clinical evaluation in the abdominal aortic aneurysm. 2016 , 96, 784-90	12
1376	Atopic diseases and inflammation of the brain in the pathogenesis of autism spectrum disorders. 2016 , 6, e844	105
1375	Reply. 2016 , 68, 1569-70	
1375	Prevention of antibiotic-associated metabolic syndrome in mice by intestinal alkaline phosphatase. 2016 , 18, 519-27	27
	Prevention of antibiotic-associated metabolic syndrome in mice by intestinal alkaline phosphatase.	27 43
1374	Prevention of antibiotic-associated metabolic syndrome in mice by intestinal alkaline phosphatase. 2016 , 18, 519-27	
1374 1373	Prevention of antibiotic-associated metabolic syndrome in mice by intestinal alkaline phosphatase. 2016 , 18, 519-27 The Burn Wound Microenvironment. 2016 , 5, 106-118	43
1374 1373 1372	Prevention of antibiotic-associated metabolic syndrome in mice by intestinal alkaline phosphatase. 2016, 18, 519-27 The Burn Wound Microenvironment. 2016, 5, 106-118 Recent insights into endothelial control of leukocyte extravasation. 2016, 73, 1591-608 Genomic landscapes of endogenous retroviruses unveil intricate genetics of conventional and	43 17
1374 1373 1372 1371	Prevention of antibiotic-associated metabolic syndrome in mice by intestinal alkaline phosphatase. 2016, 18, 519-27 The Burn Wound Microenvironment. 2016, 5, 106-118 Recent insights into endothelial control of leukocyte extravasation. 2016, 73, 1591-608 Genomic landscapes of endogenous retroviruses unveil intricate genetics of conventional and genetically-engineered laboratory mouse strains. 2016, 100, 248-56 Pre-vaccination inflammation and B-cell signalling predict age-related hyporesponse to hepatitis B	43 17
1374 1373 1372 1371 1370	Prevention of antibiotic-associated metabolic syndrome in mice by intestinal alkaline phosphatase. 2016, 18, 519-27 The Burn Wound Microenvironment. 2016, 5, 106-118 Recent insights into endothelial control of leukocyte extravasation. 2016, 73, 1591-608 Genomic landscapes of endogenous retroviruses unveil intricate genetics of conventional and genetically-engineered laboratory mouse strains. 2016, 100, 248-56 Pre-vaccination inflammation and B-cell signalling predict age-related hyporesponse to hepatitis B vaccination. 2016, 7, 10369	43 17 1 81

1366	Microfluidic assay for precise measurements of mouse, rat, and human neutrophil chemotaxis in whole-blood droplets. 2016 , 100, 241-7	26
1365	Isolation and characterization of embryonic ameloblast lineage cells derived from tooth buds of fetal miniature swine. 2016 , 52, 445-53	7
1364	Compendium of Immune Signatures Identifies Conserved and Species-Specific Biology in Response to Inflammation. 2016 , 44, 194-206	155
1363	Enhancer Turnover Is Associated with a Divergent Transcriptional Response to Glucocorticoid in Mouse and Human Macrophages. 2016 , 196, 813-822	45
1362	Animal Models of Ophthalmic Diseases. 2016 ,	1
1361	Immune regulation of kidney disease in 2015: Updates on immunosuppression in kidney disease. 2016 , 12, 65-6	
1360	Central nervous system myeloid cells as drug targets: current status and translational challenges. 2016 , 15, 110-24	79
1359	Translational atherosclerosis research: From experimental models to coronary artery disease in humans. 2016 , 248, 110-6	11
1358	Application of a Framework to Assess the Usefulness of Alternative Sepsis Criteria. 2016 , 44, e122-30	46
1357	Remote effects of acute kidney injury in a porcine model. 2016 , 310, F259-71	17
1357 1356	Remote effects of acute kidney injury in a porcine model. 2016 , 310, F259-71 Blocking Indolamine-2,3-Dioxygenase Rebound Immune Suppression Boosts Antitumor Effects of Radio-Immunotherapy in Murine Models and Spontaneous Canine Malignancies. 2016 , 22, 4328-40	17 80
	Blocking Indolamine-2,3-Dioxygenase Rebound Immune Suppression Boosts Antitumor Effects of	
1356	Blocking Indolamine-2,3-Dioxygenase Rebound Immune Suppression Boosts Antitumor Effects of Radio-Immunotherapy in Murine Models and Spontaneous Canine Malignancies. 2016 , 22, 4328-40 Analysis of factors contributing to variation in the C57BL/6J fecal microbiota across German animal	80
1356 1355	Blocking Indolamine-2,3-Dioxygenase Rebound Immune Suppression Boosts Antitumor Effects of Radio-Immunotherapy in Murine Models and Spontaneous Canine Malignancies. 2016 , 22, 4328-40 Analysis of factors contributing to variation in the C57BL/6J fecal microbiota across German animal facilities. 2016 , 306, 343-355 Stress and glucocorticoid receptor transcriptional programming in time and space: Implications for	8o 97
1356 1355 1354	Blocking Indolamine-2,3-Dioxygenase Rebound Immune Suppression Boosts Antitumor Effects of Radio-Immunotherapy in Murine Models and Spontaneous Canine Malignancies. 2016, 22, 4328-40 Analysis of factors contributing to variation in the C57BL/6J fecal microbiota across German animal facilities. 2016, 306, 343-355 Stress and glucocorticoid receptor transcriptional programming in time and space: Implications for the brain-gut axis. 2016, 28, 12-25 Endotoxin Tolerance Inhibits Lyn and c-Src Phosphorylation and Association with Toll-Like Receptor	8o 97 33
1356 1355 1354 1353	Blocking Indolamine-2,3-Dioxygenase Rebound Immune Suppression Boosts Antitumor Effects of Radio-Immunotherapy in Murine Models and Spontaneous Canine Malignancies. 2016, 22, 4328-40 Analysis of factors contributing to variation in the C57BL/6J fecal microbiota across German animal facilities. 2016, 306, 343-355 Stress and glucocorticoid receptor transcriptional programming in time and space: Implications for the brain-gut axis. 2016, 28, 12-25 Endotoxin Tolerance Inhibits Lyn and c-Src Phosphorylation and Association with Toll-Like Receptor 4 but Increases Expression and Activity of Protein Phosphatases. 2016, 8, 171-84 Laminin 2 knockout mice rescued with the human protein exhibit enamel maturation defects.	80 97 33
1356 1355 1354 1353 1352	Blocking Indolamine-2,3-Dioxygenase Rebound Immune Suppression Boosts Antitumor Effects of Radio-Immunotherapy in Murine Models and Spontaneous Canine Malignancies. 2016, 22, 4328-40 Analysis of factors contributing to variation in the C57BL/6J fecal microbiota across German animal facilities. 2016, 306, 343-355 Stress and glucocorticoid receptor transcriptional programming in time and space: Implications for the brain-gut axis. 2016, 28, 12-25 Endotoxin Tolerance Inhibits Lyn and c-Src Phosphorylation and Association with Toll-Like Receptor 4 but Increases Expression and Activity of Protein Phosphatases. 2016, 8, 171-84 Laminin & knockout mice rescued with the human protein exhibit enamel maturation defects. 2016, 52-54, 207-218	80 97 33 13 8

1348	Recent developments in severe sepsis research: from bench to bedside and back. 2016 , 11, 293-314	10
1347	Environmental Influences on the Immune System: The Aging Immune System. 2016 , 55-76	1
1346	Miniature Swine for Preclinical Modeling of Complexities of Human Disease for Translational Scientific Discovery and Accelerated Development of Therapies and Medical Devices. 2016 , 44, 299-314	44
1345	Touchscreen assays of learning, response inhibition, and motivation in the marmoset (Callithrix jacchus). 2016 , 19, 673-7	17
1344	Identification of candidate biomarkers of brain damage in a mouse model of closed head injury: a metabolomic pilot study. 2016 , 12, 1	13
1343	Engineered Nanoparticles and the Immune System: Interaction and Consequences. 2016 , 205-226	1
1342	The E3 ubiquitin ligase RNF144B is LPS-inducible in human, but not mouse, macrophages and promotes inducible IL-1\text{\text{\text{P}}}\text{cond}. 2016 , 100, 155-61	9
1341	Translational failure of anti-inflammatory compounds for myocardial infarction: a meta-analysis of large animal models. 2016 , 109, 240-8	21
1340	Patterns of gene expression among murine models of hemorrhagic shock/trauma and sepsis. 2016 , 48, 135-44	13
1339	Progress of clinical practice on the management of burn-associated pain: Lessons from animal models. 2016 , 42, 1161-72	20
1338	LaGomiCs-Lagomorph Genomics Consortium: An International Collaborative Effort for Sequencing the Genomes of an Entire Mammalian Order. 2016 , 107, 295-308	15
1337	Report of the Inaugural Meeting of the TFOS i(2) = initiating innovation Series: Targeting the Unmet Need for Dry Eye Treatment. 2016 , 14, 264-316	44
1336	In Search of a Cure for Sepsis: Taming the Monster in Critical Care Medicine. 2016 , 8, 156-70	11
1335	The rat closely mimics oxidative stress and inflammation in humans after exercise but not after exercise combined with vitamin C administration. 2016 , 116, 791-804	16
1334	The human microbiota: novel targets for hospital-acquired infections and antibiotic resistance. 2016 , 26, 342-7	25
1333	Analysis of Endothelial Adherence of Bartonella henselae and Acinetobacter baumannii Using a Dynamic Human Ex Vivo Infection Model. 2015 , 84, 711-22	17
1332	Risk Stratification and Prognosis in Sepsis: What Have We Learned from Microarrays?. 2016 , 37, 209-18	26
1331	Comprehensive RNAi-based screening of human and mouse TLR pathways identifies species-specific preferences in signaling protein use. 2016 , 9, ra3	43

1330 A comprehensive bioinformatics method to screen key genes for severe burn. **2016**, 14, 18-26

1329 NF-B-Related Genetic Diseases. 2016 ,	O
1328 Gene expression profiling in stroke: relevance of blood-brain interaction. 2016 , 26, 80-6	19
1327 Mapping the effects of drugs on the immune system. 2016 , 34, 47-54	54
1326 Gene expression profile of vascular ischemia-reperfusion injury in rhesus monkeys. 2016 , 576, 753-62	2
1325 The role of systemic inflammation linking maternal BMI to neurodevelopment in children. 2016 , 79, 3-	12 70
A comprehensive overview of hepatoprotective natural compounds: mechanism of action and clinical perspectives. 2016 , 90, 39-79	66
#Arrestin scaffolds and signaling elements essential for the obestatin/GPR39 system that determine the myogenic program in human myoblast cells. 2016 , 73, 617-35	19
1322 Opposing effects of alcohol on the immune system. 2016 , 65, 242-51	80
A Cross-Species Analysis of Animal Models for the Investigation of Preterm Birth Mechanisms. 2016 , 23, 482-91	22
1320 The progress in understanding and treatment of diabetic retinopathy. 2016 , 51, 156-86	449
A disease-risk polymorphism increases TPL2 expression thereby leading to increased pattern recognition receptor-initiated caspase-1 and caspase-8 activation, signalling and cytokine secretion. 2016 , 65, 1799-1811	18
1318 Treatment of traumatic brain injury with anti-inflammatory drugs. 2016 , 275 Pt 3, 367-380	86
1317 A survey of current trends in computational drug repositioning. 2016 , 17, 2-12	309
Impact of haemorrhagic shock intensity on the dynamic of alarmins release in porcine poly-trauma animal model. 2016 , 42, 67-75	17
1315 The Human Model: Changing Focus on Autism Research. 2016 , 79, 642-9	18
Differential subnetwork of chemokines/cytokines in human, mouse, and rat brain cells after oxygen-glucose deprivation. 2017 , 37, 1425-1434	42
An in-depth comparison of the porcine, murine and human inflammasomes; lessons from the porcine genome and transcriptome. 2017 , 202, 2-15	63

1312	Three-Dimensional Printing of Tissue/Organ Analogues Containing Living Cells. 2017, 45, 180-194	50
1311	Comparative transcriptome analysis of equine alveolar macrophages. 2017 , 49, 375-382	15
1310	Neuroendocrinology of mast cells: Challenges and controversies. 2017 , 26, 751-759	59
1309	Shortcomings of Animal Models and the Rise of Engineered Human Cardiac Tissue. 2017 , 3, 1884-1897	18
1308	Gastrointestinal Organoids: Understanding the Molecular Basis of the Host-Microbe Interface. 2017 , 3, 138-149	51
1307	Characterization of non-lethal West Nile Virus (WNV) infection in horses: Subclinical pathology and innate immune response. 2017 , 103, 71-79	14
1306	Vaccination of rhesus macaques with the live-attenuated HSV-1 vaccine VC2 stimulates the proliferation of mucosal T cells and germinal center responses resulting in sustained production of highly neutralizing antibodies. 2017 , 35, 536-543	25
1305	Readapting the adaptive immune response - therapeutic strategies for atherosclerosis. 2017 , 174, 3926-3939	14
1304	Adjuvant effects of a sequence-engineered mRNA vaccine: translational profiling demonstrates similar human and murine innate response. 2017 , 15, 1	104
1303	Characterization of a model of systemic inflammation in humans in vivo elicited by continuous infusion of endotoxin. 2017 , 7, 40149	22
1302	Fumarylacetoacetate Hydrolase Knock-out Rabbit Model for Hereditary Tyrosinemia Type 1. 2017 , 292, 4755-4763	12
1301	Innovative Approaches to Improve Anti-Infective Vaccine Efficacy. 2017 , 57, 189-222	7
1300	Binge alcohol consumption 18 h after induction of sepsis in a mouse model causes rapid overgrowth of bacteria, a cytokine storm, and decreased survival. 2017 , 63, 9-17	7
1299	Astrocytes fuel the fire of lymphocyte toxicity after stroke. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 425-427	9
1298	Reproducibility Issues: Avoiding Pitfalls in Animal Inflammation Models. 2017, 1559, 1-17	15
1297	A Systematic and Meta-Analysis of Mortality in Experimental Mouse Models Analyzing Delayed Cerebral Ischemia After Subarachnoid Hemorrhage. 2017 , 8, 206-219	22
1296	PPAR ugments heart function and cardiac fatty acid oxidation in early experimental polymicrobial sepsis. 2017 , 312, H239-H249	28
1295	Making Mouse Models That Reflect Human Immune Responses. 2017 , 38, 181-193	112

1294	Fifty Years of Research in ARDS. Insight into Acute Respiratory Distress Syndrome. From Models to Patients. 2017 , 196, 18-28	37
1293	Conserved gene regulation during acute inflammation between zebrafish and mammals. 2017 , 7, 41905	57
1292	Non-animal models of wound healing in cutaneous repair: In silico, in vitro, ex vivo, and in vivo models of wounds and scars in human skin. 2017 , 25, 164-176	49
1291	Of mice and CRISPR: The post-CRISPR future of the mouse as a model system for the human condition. 2017 , 18, 187-193	29
1290	Targeting Alpha Toxin To Mitigate Its Lethal Toxicity in Ferret and Rabbit Models of Staphylococcus aureus Necrotizing Pneumonia. 2017 , 61,	25
1289	Fatty liver promotes fibrosis in monkeys consuming high fructose. 2017 , 25, 290-293	29
1288	Mouse versus Human Neutrophils in Cancer: A Major Knowledge Gap. 2017 , 3, 149-160	63
1287	Translational Safety Genetics. 2017 , 45, 119-126	5
1286	Time-of-Day Dictates Transcriptional Inflammatory Responses to Cytotoxic Chemotherapy. 2017 , 7, 41220	12
1285	Update on Chlamydia trachomatis Vaccinology. 2017 , 24,	63
1284	Reduced risk of UC in families affected by appendicitis: a Danish national cohort study. 2017 , 66, 1398-1402	14
·	Reduced risk of UC in families affected by appendicitis: a Danish national cohort study. 2017 , 66, 1398-1402 Milk fat globule epidermal growth factor 8 inhibits periodontitis in non-human primates and its gingival crevicular fluid levels can differentiate periodontal health from disease in humans. 2017 , 44, 472-483	14 7
·	Milk fat globule epidermal growth factor 8 inhibits periodontitis in non-human primates and its gingival crevicular fluid levels can differentiate periodontal health from disease in humans. 2017, 44, 472-483 Concise Review: Increasing the Validity of Cerebrovascular Disease Models and Experimental	14 7 23
1283	Milk fat globule epidermal growth factor 8 inhibits periodontitis in non-human primates and its gingival crevicular fluid levels can differentiate periodontal health from disease in humans. 2017, 44, 472-483 Concise Review: Increasing the Validity of Cerebrovascular Disease Models and Experimental Methods for Translational Stem Cell Research. 2017, 35, 1141-1153	7
1283	Milk fat globule epidermal growth factor 8 inhibits periodontitis in non-human primates and its gingival crevicular fluid levels can differentiate periodontal health from disease in humans. 2017, 44, 472-483 Concise Review: Increasing the Validity of Cerebrovascular Disease Models and Experimental Methods for Translational Stem Cell Research. 2017, 35, 1141-1153 Molecules in pain and sex: a developing story. 2017, 10, 9	7 23
1283 1282 1281	Milk fat globule epidermal growth factor 8 inhibits periodontitis in non-human primates and its gingival crevicular fluid levels can differentiate periodontal health from disease in humans. 2017, 44, 472-483 Concise Review: Increasing the Validity of Cerebrovascular Disease Models and Experimental Methods for Translational Stem Cell Research. 2017, 35, 1141-1153 Molecules in pain and sex: a developing story. 2017, 10, 9 Imiquimod has strain-dependent effects in mice and does not uniquely model human psoriasis.	7 23 47
1283 1282 1281 1280	Milk fat globule epidermal growth factor 8 inhibits periodontitis in non-human primates and its gingival crevicular fluid levels can differentiate periodontal health from disease in humans. 2017, 44, 472-483 Concise Review: Increasing the Validity of Cerebrovascular Disease Models and Experimental Methods for Translational Stem Cell Research. 2017, 35, 1141-1153 Molecules in pain and sex: a developing story. 2017, 10, 9 Imiquimod has strain-dependent effects in mice and does not uniquely model human psoriasis. 2017, 9, 24 Milk fat globule-epidermal growth factor-factor VIII attenuates sepsis-induced acute kidney injury. 2017, 213, 281-289	7 23 47 81
1282 1281 1280	Milk fat globule epidermal growth factor 8 inhibits periodontitis in non-human primates and its gingival crevicular fluid levels can differentiate periodontal health from disease in humans. 2017, 44, 472-483 Concise Review: Increasing the Validity of Cerebrovascular Disease Models and Experimental Methods for Translational Stem Cell Research. 2017, 35, 1141-1153 Molecules in pain and sex: a developing story. 2017, 10, 9 Imiquimod has strain-dependent effects in mice and does not uniquely model human psoriasis. 2017, 9, 24 Milk fat globule-epidermal growth factor-factor VIII attenuates sepsis-induced acute kidney injury. 2017, 213, 281-289 Genomic variants in mouse model induced by azoxymethane and dextran sodium sulfate	7 23 47 81

1276	Oscillatory wall shear stress is a dominant flow characteristic affecting lesion progression patterns and plaque vulnerability in patients with coronary artery disease. 2017 , 14,	40
1275	Experimental animal modelling for TB vaccine development. 2017 , 56, 268-273	27
1274	Mass spectrometry for the discovery of biomarkers of sepsis. 2017 , 13, 648-664	52
1273	Evaluation of Immunomodulatory Properties of Feline Mesenchymal Stem Cells. 2017 , 26, 776-785	13
1272	Host knockout of E-prostanoid 2 receptors reduces tumor growth and causes major alterations of gene expression in prostaglandin E-producing tumors. 2017 , 13, 476-482	5
1271	References. 2017 , 301-354	
1270	Glucocorticoid resistance as a major drive in sepsis pathology. 2017 , 35, 85-96	41
1269	Concordance analysis of microarray studies identifies representative gene expression changes in Parkinson's disease: a comparison of 33 human and animal studies. 2017 , 17, 58	15
1268	Genomic Responses of Mouse Synovial Fibroblasts During Tumor Necrosis Factor-Driven Arthritogenesis Greatly Mimic Those in Human Rheumatoid Arthritis. 2017 , 69, 1588-1600	20
1267	Methoxyluteolin Inhibits Neuropeptide-stimulated Proinflammatory Mediator Release via mTOR Activation from Human Mast Cells. 2017 , 361, 462-471	26
1266	Modulation of innate immunity of patients with Alzheimer's disease by omega-3 fatty acids. 2017 , 31, 3229-3239	28
1265	Hypothermic Neuronal Rescue from Infection-Sensitised Hypoxic-Ischaemic Brain Injury Is Pathogen Dependent. 2017 , 39, 238-247	33
1264	Chemically different non-thermal plasmas target distinct cell death pathways. 2017 , 7, 600	25
1263	Warming the mouse to model human diseases. 2017 , 13, 458-465	88
1262	Comparative transcriptomics in human and mouse. 2017 , 18, 425-440	99
1261	Murine Models of Sepsis and Trauma: Can We Bridge the Gap?. 2017 , 58, 90-105	82
1260	Do we need animal models to advance research on inflammatory joint disease?. 2017 , 84, 381-383	4
1259	Late Therapeutic Intervention with Antibiotics and Fluid Resuscitation Allows for a Prolonged Disease Course with High Survival in a Severe Murine Model of Sepsis. 2017 , 47, 726-734	21

1258	Endogenous hepcidin and its agonist mediate resistance to selected infections by clearing non-transferrin-bound iron. 2017 , 130, 245-257	77
1257	p38and p38aFrom Spectators to Key Physiological Players. 2017 , 42, 431-442	39
1256	Immunologic effects of trauma and transfusion. 2017 , 82, S50-S56	5
1255	Animal Models of Biliary Disease: Current Approaches and Limitations. 2017, 63-84	
1254	The ten barriers for translation of animal data on AKI to the clinical setting. 2017, 43, 898-900	10
1253	The translational potential of human induced pluripotent stem cells for clinical neurology: The translational potential of hiPSCs in neurology. 2017 , 33, 129-144	13
1252	Bcl-2 expression is essential for development and normal physiological properties of tooth hard tissue and saliva production. 2017 , 358, 94-100	3
1251	Microfluidics Enabled Bottom-Up Engineering of 3D Vascularized Tumor for Drug Discovery. 2017 , 11, 6691-6702	85
1250	Lipidomics in translational research and the clinical significance of lipid-based biomarkers. 2017 , 189, 13-29	56
1249	Early Diagnosis of Sepsis: Is an Integrated Omics Approach the Way Forward?. 2017 , 21, 525-537	21
1248	Macrophage-based therapeutic strategies in regenerative medicine. 2017 , 122, 74-83	158
1247	Les modles animaux sont-ils neessaires aux progres sur les rhumatismes inflammatoires?. 2017 , 84, 368-371	
1246	Biomaterial-driven in situ cardiovascular tissue engineering-a multi-disciplinary perspective. 2017 , 2, 18	124
1245	Hyperoxia provokes a time- and dose-dependent inflammatory response in mechanically ventilated mice, irrespective of tidal volumes. 2017 , 5, 27	35
1244	Heart Failure. 2017,	4
1243	Gastrointestinal microphysiological systems. 2017 , 242, 1633-1642	21
1242	Engineering kidney cells: reprogramming and directed differentiation to renal tissues. 2017 , 369, 185-197	14
1241	Lack of elevation in plasma levels of pro-inflammatory cytokines in common rodent models of pulmonary arterial hypertension: questions of construct validity for human patients. 2017 , 7, 476-485	10

Progress and Future Prospectives in Skin-on-Chip Development with Emphasis on the use of Different Cell Types and Technical Challenges. 2017 , 13, 418-429	62
Clinical and radiological control of highly active relapsing-remitting multiple sclerosis with first-line natalizumab. 2017 , 7, 175-181	ine 2
1238 Arthritis models: usefulness and interpretation. 2017 , 39, 469-486	42
1237 The ascendance of microphysiological systems to solve the drug testing dilemma. 2017 , 3, FSO18	35 45
1236 Construction of 3D multicellular microfluidic chip for an in vitro skin model. 2017 , 19, 22	64
Impact of tranexamic acid on coagulation and inflammation in murine models of traumatic brain injury and hemorrhage. 2017 , 215, 47-54	21
Gene Expression Analysis to Assess the Relevance of Rodent Models to Human Lung Injury. 2017 57, 184-192	, 14
Galectin-3 binding protein, coronary artery disease and cardiovascular mortality: Insights from th LURIC study. 2017 , 260, 121-129	ne 21
Of Mice and Men: Proteasome's Role in LPS-Induced Inflammation and Tolerance. 2017 , 47, 445-4	454 5
1231 Infant nutrition and the microbiome. 2017 , 220-257	1
Efficacy of antibody-based therapies against Middle East respiratory syndrome coronavirus (MERS-CoV) in common marmosets. 2017 , 143, 30-37	50
1229 Neisseria models of infection and persistence in the upper respiratory tract. 2017 , 75,	18
1228 Annual Update in Intensive Care and Emergency Medicine 2017. 2017 ,	
1227 Murine RAW 264.7 cell line as an immune target: are we missing something?. 2017 , 39, 55-58	41
A novel toolbox to investigate tissue spatial organization applied to the study of the islets of Langerhans. 2017 , 7, 44261	10
1225 Organ-on-chip models: new opportunities for biomedical research. 2017 , 3, FSO130	19
Copper Is a Host Effector Mobilized to Urine during Urinary Tract Infection To Impair Bacterial Colonization. 2017 , 85,	32
1223 Autism Spectrum Disorders. 2017 , 643-659	

1222	in vitro testing or basal cytotoxicity: Establishment or an adverse outcome pathway from chemical insult to cell death. 2017 , 39, 104-110	43
1221	Molecular Diagnostics of Ageing and Tackling Age-related Disease. 2017 , 38, 67-80	7
1220	Antibiotic-induced gut microbiota disruption during human endotoxemia: a randomised controlled study. 2017 , 66, 1623-1630	45
1219	Comparative performance analysis of human iPSC-derived and primary neural progenitor cells (NPC) grown as neurospheres in vitro. 2017 , 25, 72-82	45
1218	M. tuberculosis-Initiated Human Mannose Receptor Signaling Regulates Macrophage Recognition and Vesicle Trafficking by FcREChain, Grb2, and SHP-1. 2017 , 21, 126-140	76
1217	Neuroimaging of deployment-associated traumatic brain injury (TBI) with a focus on mild TBI (mTBI) since 2009. 2017 , 31, 1204-1219	27
1216	Discovering Drugs for the Treatment of Ebola Virus. 2017 , 9, 299-317	43
1215	Assessment of the synbiotic properites of human milk oligosaccharides and Bifidobacterium longum subsp. infantis in vitro and in humanised mice. 2017 , 8, 281-289	14
1214	Human reconstructed skin xenografts on mice to model skin physiology. 2017 , 98, 14-24	19
1213	Leukotriene B4 indicates lung injury and on-going inflammatory changes after severe trauma in a porcine long-term model. 2017 , 127, 25-31	9
1212	Monocyte-lymphocyte cross-communication via soluble CD163 directly links innate immune system activation and adaptive immune system suppression following ischemic stroke. 2017 , 7, 12940	21
1211	A cell culture model for investigation of synapse influenceability: epigenetics, expression and function of gene targets important for synapse formation and preservation in SH-SY5Y neuroblastoma cells differentiated by retinoic acid. 2017 , 124, 1341-1367	19
121 0	Animal Models in Translational Research: Rosetta Stone or Stumbling Block?. 2017 , 39, 1700089	30
1209	Human induced pluripotent stem cell-derived vascular smooth muscle cells: differentiation and therapeutic potential. 2017 , 113, 1282-1293	20
1208	The Power of Zebrafish in Personalised Medicine. 2017 , 1007, 179-197	17
1207	The Sydney Heart Bank: improving translational research while eliminating or reducing the use of animal models of human heart disease. 2017 , 9, 431-441	27
1206	A systematic review of molecular responses to cancer therapy in normal human mucosa. 2017 , 124, 355-366	3
1205	A Role of Remote Organs Effect in Acute Kidney Injury Outcome. 2017 , 137, 273-276	19

Use of a Central Venous Line for Fluids, Drugs and Nutrient Administration in a Mouse Model of Critical Illness. 2017 ,	10
1203 A bacteriophages journey through the human body. 2017 , 279, 106-122	108
Organoid technology for brain and therapeutics research. 2017 , 23, 771-778	30
Concordant and discordant gene expression patterns in mouse strains identify best-fit animal model for human tuberculosis. 2017 , 7, 12094	21
1200 Development of a Perfusion Platform for Dynamic Cultivation of in vitro Skin Models. 2017 , 30, 180-189	11
A Protocol for Using Gene Set Enrichment Analysis to Identify the Appropriate Animal Model for Translational Research. 2017 ,	2
1198 TFOS DEWS II pathophysiology report. 2017 , 15, 438-510	629
1197 TFOS DEWS II Sex, Gender, and Hormones Report. 2017 , 15, 284-333	167
1196 Clinical trial research in focus: rethinking trials in sepsis. 2017 , 5, 610-611	14
Fibroblast Growth Factor 21-Metabolic Role in Mice and Men. 2017 , 38, 468-488	146
Fibroblast Growth Factor 21-Metabolic Role in Mice and Men. 2017 , 38, 468-488 1194 IVIG regulates the survival of human but not mouse neutrophils. 2017 , 7, 1296	146
1194 IVIG regulates the survival of human but not mouse neutrophils. 2017 , 7, 1296 A comparative multi-parametric in vitro model identifies the power of test conditions to predict the	19
1194 IVIG regulates the survival of human but not mouse neutrophils. 2017 , 7, 1296 A comparative multi-parametric in vitro model identifies the power of test conditions to predict the fibrotic tendency of a biomaterial. 2017 , 7, 1689	19 14
1194 IVIG regulates the survival of human but not mouse neutrophils. 2017, 7, 1296 A comparative multi-parametric in vitro model identifies the power of test conditions to predict the fibrotic tendency of a biomaterial. 2017, 7, 1689 1192 Obestatin controls skeletal muscle fiber-type determination. 2017, 7, 2137	19 14 7
IVIG regulates the survival of human but not mouse neutrophils. 2017, 7, 1296 A comparative multi-parametric in vitro model identifies the power of test conditions to predict the fibrotic tendency of a biomaterial. 2017, 7, 1689 Obestatin controls skeletal muscle fiber-type determination. 2017, 7, 2137 A microengineered model of RBC transfusion-induced pulmonary vascular injury. 2017, 7, 3413 Label-free technology and patient cells: from early drug development to precision medicine. 2017,	19 14 7 14
IVIG regulates the survival of human but not mouse neutrophils. 2017, 7, 1296 A comparative multi-parametric in vitro model identifies the power of test conditions to predict the fibrotic tendency of a biomaterial. 2017, 7, 1689 Obestatin controls skeletal muscle fiber-type determination. 2017, 7, 2137 A microengineered model of RBC transfusion-induced pulmonary vascular injury. 2017, 7, 3413 Label-free technology and patient cells: from early drug development to precision medicine. 2017, 22, 1808-1815 Groundhog Day for Rodent Models of Acute Lung Injury: Clear Relevance or Renewed Debate?.	19 14 7 14 20

1186	Induction of Heme Oxygenase-1 Attenuates the Severity of Sepsis in a Non-Surgical Preterm Mouse Model. 2017 , 47, 242-250	16
1185	Nonhuman primate model of polytraumatic hemorrhagic shock recapitulates early platelet dysfunction observed following severe injury in humans. 2017 , 82, 461-469	11
1184	Tissue chips - innovative tools for drug development and disease modeling. 2017 , 17, 3026-3036	76
1183	Clinical Safety and Applications of Stem Cell Gene Therapy. 2017 , 67-89	
1182	A mathematical system for human implantable wound model studies. 2017 , 4, 77-100	
1181	The role of NIGMS P50 sponsored team science in our understanding of multiple organ failure. 2017 , 83, 520-531	9
1180	Activation of non-canonical WNT signaling in human visceral adipose tissue contributes to local and systemic inflammation. 2017 , 7, 17326	26
1179	Diet as a Therapeutic Option for Adult Inflammatory Bowel Disease. 2017 , 46, 745-767	99
1178	When Enough Is Enough: Decision Criteria for Moving a Known Drug into Clinical Testing for a New Indication in the Absence of Preclinical Efficacy Data. 2017 , 15, 354-361	2
1177	Childhood tolerance of severe influenza: a mortality analysis in mice. 2017 , 313, L1087-L1095	7
1176	Reply to Fattori et al.: Action of SP and IL-33 on mast cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E10036	
1175	Newborn susceptibility to infection vs. disease depends on complex in vivo interactions of host and pathogen. 2017 , 39, 615-625	23
1174	Perinatal western-type diet and associated gestational weight gain alter postpartum maternal mood. 2017 , 7, e00828	8
1173	Emerging Associations Between Neutrophils, Atherosclerosis, and Psoriasis. 2017 , 19, 53	19
1172	A Comprehensive Mouse Transcriptomic BodyMap across 17 Tissues by RNA-seq. 2017 , 7, 4200	79
1171	Of Mice, Dirty Mice, and Men: Using Mice To Understand Human Immunology. 2017 , 199, 383-388	131
1170	Host-Pathogen Interface: Progress in Understanding the Pathogenesis of Infection Due to Multidrug-Resistant Bacteria in the Intensive Care Unit. 2017 , 215, S1-S8	5
1169	Social and physical environments early in development predict DNA methylation of inflammatory genes in young adulthood. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 7611-7616	79

1168	The past decade in bench research into pulmonary infectious diseases: What do clinicians need to know?. 2017 , 22, 1062-1072	6
1167	Strategies for designing novel tuberculosis vaccines. 2017 , 7, 113-128	
1166	Transcriptome modulation by hydrocortisone in severe burn shock: ancillary analysis of a prospective randomized trial. 2017 , 21, 158	4
1165	Low HDL levels in sepsis versus trauma patients in intensive care unit. 2017 , 7, 60	36
1164	Progress and challenges in large-scale expansion of human pluripotent stem cells. 2017 , 59, 244-254	94
1163	Immune Cell-Supplemented Human Skin Model for Studying Fungal Infections. 2017 , 1508, 439-449	7
1162	Clinical potential of oligonucleotide-based therapeutics in the respiratory system. 2017 , 169, 83-103	21
1161	KERIS: kaleidoscope of gene responses to inflammation between species. 2017 , 45, D908-D914	7
1160	Survival after multiple traumas is associated with improved outcomes from gram-negative sepsis: Clinical and experimental evidence. 2017 , 74, 163-171	3
1159	The impact of inflammation on respiratory plasticity. 2017 , 287, 243-253	34
	The impact of inflammation on respiratory plasticity. 2017 , 287, 243-253 Translational Relevance of Swine Models of Spinal Cord Injury. 2017 , 34, 541-551	34 25
1158	Translational Relevance of Swine Models of Spinal Cord Injury. 2017 , 34, 541-551 In vitro acute and developmental neurotoxicity screening: an overview of cellular platforms and	25
1158	Translational Relevance of Swine Models of Spinal Cord Injury. 2017, 34, 541-551 In vitro acute and developmental neurotoxicity screening: an overview of cellular platforms and high-throughput technical possibilities. 2017, 91, 1-33	25 99
1158 1157 1156	Translational Relevance of Swine Models of Spinal Cord Injury. 2017, 34, 541-551 In vitro acute and developmental neurotoxicity screening: an overview of cellular platforms and high-throughput technical possibilities. 2017, 91, 1-33 Adverse outcome pathway development from protein alkylation to liver fibrosis. 2017, 91, 1523-1543	25 99 33
1158 1157 1156 1155	Translational Relevance of Swine Models of Spinal Cord Injury. 2017, 34, 541-551 In vitro acute and developmental neurotoxicity screening: an overview of cellular platforms and high-throughput technical possibilities. 2017, 91, 1-33 Adverse outcome pathway development from protein alkylation to liver fibrosis. 2017, 91, 1523-1543 Immunotherapy of Sepsis: Blind Alley or Call for Personalized Assessment?. 2017, 65, 37-49 A Genome-Wide Association Study to Identify Single-Nucleotide Polymorphisms for Acute Kidney	25 99 33 13
1158 1157 1156 1155 1154	Translational Relevance of Swine Models of Spinal Cord Injury. 2017, 34, 541-551 In vitro acute and developmental neurotoxicity screening: an overview of cellular platforms and high-throughput technical possibilities. 2017, 91, 1-33 Adverse outcome pathway development from protein alkylation to liver fibrosis. 2017, 91, 1523-1543 Immunotherapy of Sepsis: Blind Alley or Call for Personalized Assessment?. 2017, 65, 37-49 A Genome-Wide Association Study to Identify Single-Nucleotide Polymorphisms for Acute Kidney Injury. 2017, 195, 482-490	25 99 33 13 22

(2017-2017)

1150	Mitochondria-Targeted Antioxidants and Uncouplers of Oxidative Phosphorylation in Treatment of the Systemic Inflammatory Response Syndrome (SIRS). 2017 , 232, 904-912	7
1149	Exposure to the environmental endocrine disruptor TCDD and human reproductive dysfunction: Translating lessons from murine models. 2017 , 68, 59-71	60
1148	Epigenetic synergism between interleukin-4 and aryl-hydrocarbon receptor in human macrophages. 2017 , 95, 395-404	8
1147	Pretreatment of activated human CD8 T cells with IL-12 leads to enhanced TCR-induced signaling and cytokine production. 2017 , 81, 1-15	14
1146	Host Defense Mechanisms Against Viruses. 2017 , 1175-1197.e7	2
1145	The potential for animal models to provide insight into mild traumatic brain injury: Translational challenges and strategies. 2017 , 76, 396-414	84
1144	Clinical Use and Therapeutic Potential of IVIG/SCIG, Plasma-Derived IgA or IgM, and Other Alternative Immunoglobulin Preparations. 2017 , 65, 215-231	14
1143	Characterising Pre-pubertal Resistance to Death from Endotoxemia. 2017 , 7, 16541	5
1142	The AOP Concept: How Novel Technologies Can Support Development of Adverse Outcome Pathways. 2017 , 3, 271-277	3
1141	Infections: A Possible Risk Factor for Type 2 Diabetes. 2017 , 80, 227-251	3
1140	Nonhuman Primates and Translational Research-Cardiovascular Disease. 2017 , 58, 235-250	34
1139	Systematic heterogenization for better reproducibility in animal experimentation. 2017 , 46, 343-349	32
1138	Overview of Cell Models: From Organs Cultured in a Petri Dish to Organs-on-Chips. 2017 , 72, 159-168	O
1137	Of Mice and Men: Comparative Analysis of Neuro-Inflammatory Mechanisms in Human and Mouse Using Cause-and-Effect Models. 2017 , 59, 1045-1055	11
1136	Molecular characterization of the transition from acute to chronic kidney injury following ischemia/reperfusion. 2017 , 2,	117
1135	Chasing the Fat Demon: Fat Chance, Buddy?. 2017 , 13, 86-88	О
1134	Commensal to Pathogen Transition of Candida albicans. 2017,	3
1133	Heme as a Target for Therapeutic Interventions. 2017 , 8, 146	65

1132	Hurdles in Basic Science Translation. 2017 , 8, 478	19
1131	The Oncopig Cancer Model as a Complementary Tool for Phenotypic Drug Discovery. 2017 , 8, 894	9
1130	Adult Human Primary Cardiomyocyte-Based Model for the Simultaneous Prediction of Drug-Induced Inotropic and Pro-arrhythmia Risk. 2017 , 8, 1073	31
1129	The Role of Interleukin-18, Oxidative Stress and Metabolic Syndrome in Alzheimer's Disease. 2017 , 6,	25
1128	Cell Migration Research Based on Organ-on-Chip-Related Approaches. 2017, 8,	10
1127	Natural Killer Cell Assessment in Peripheral Circulation and Bronchoalveolar Lavage Fluid of Patients with Severe Sepsis: A Case Control Study. 2017 , 18,	3
1126	Zebrafish as a Model Organism for the Development of Drugs for Skin Cancer. 2017 , 18,	23
1125	Systems Biology: Methods and Applications. 2017 , 434-480	
1124	Translational Rodent Models for Research on Parasitic Protozoa-A Review of Confounders and Possibilities. 2017 , 7, 238	21
1123	The MeLiM Minipig: An Original Spontaneous Model to Explore Cutaneous Melanoma Genetic Basis. 2017 , 8, 146	16
1122	Inhibition of TNF Receptor p55 By a Domain Antibody Attenuates the Initial Phase of Acid-Induced Lung Injury in Mice. 2017 , 8, 128	13
1121	The Role of IFN-聞uring the Course of Sepsis Progression and Its Therapeutic Potential. 2017 , 8, 493	23
112 0	Humanized Mouse Models of Infection. 2017 , 8, 512	21
1119	Different Adjuvants Induce Common Innate Pathways That Are Associated with Enhanced Adaptive Responses against a Model Antigen in Humans. 2017 , 8, 943	58
1118	Revealing the Complexity in CD8 T Cell Responses to Infection in Inbred C57B/6 versus Outbred Swiss Mice. 2017 , 8, 1527	16
1117	Comparative Study of Transcriptome Profiles of Mouse Livers and Skins Infected by Fork-Tailed or Non-Fork-Tailed. 2017 , 8, 1648	1
1116	How to Translate Time? The Temporal Aspect of Human and Rodent Biology. 2017 , 8, 92	67
1115	Considerations for Experimental Animal Models of Concussion, Traumatic Brain Injury, and Chronic Traumatic Encephalopathy-These Matters Matter. 2017 , 8, 240	43

1114	Mesenchymal Stem Cells in Sepsis and Associated Organ Dysfunction: A Promising Future or Blind Alley?. 2017 , 2017, 7304121	15
1113	A Framework for Evaluating Nonclinical Safety of Novel Adjuvants and Adjuvanted Preventive Vaccines. 2017 , 445-476	
1112	Highly Variable Genomic Landscape of Endogenous Retroviruses in the C57BL/6J Inbred Strain, Depending on Individual Mouse, Gender, Organ Type, and Organ Location. 2017 , 2017, 3152410	1
1111	3D printed in vitro disease models. 2017 , 115-138	2
1110	gene mutations: mechanisms of familial dysautonomia and gene-targeting therapies. 2017, 10, 95-103	9
1109	Genetically engineered rat gliomas: PDGF-driven tumor initiation and progression in tv-a transgenic rats recreate key features of human brain cancer. 2017 , 12, e0174557	13
1108	Candidate genes on murine chromosome 8 are associated with susceptibility to Staphylococcus aureus infection in mice and are involved with Staphylococcus aureus septicemia in humans. 2017 , 12, e0179033	2
1107	The frontline of immune response in peripheral blood. 2017 , 12, e0182294	10
1106	Tumor necrosis factor superfamily ligand mRNA expression profiles differ between humans and mice during homeostasis and between various murine kidney injuries. 2017 , 24, 77	8
1105	Host responses to concurrent combined injuries in non-human primates. 2017 , 14, 23	6
1104	Responses of rat and mouse primary microglia to pro- and anti-inflammatory stimuli: molecular profiles, K channels and migration. 2017 , 14, 166	34
1103	High-volume hemofiltration in adult burn patients with septic shock and acute kidney injury: a multicenter randomized controlled trial. 2017 , 21, 289	43
1102	A Biomimetic Microfluidic Tumor Microenvironment Platform Mimicking the EPR Effect for Rapid Screening of Drug Delivery Systems. 2017 , 7, 9359	64
1101	A strategy for evaluating pathway analysis methods. 2017 , 18, 453	19
1100	Human iPSC Models in Drug Discovery: Opportunities and Challenges. 2017 , 48-73	4
1099	Translational Aspects of Diet and Non-Alcoholic Fatty Liver Disease. 2017 , 9,	12
1098	Big Offensive and Defensive Mechanisms in Systems Immunity From System Modeling and Big Data Mining. 2017 , 249-372	
1097	Model Validity in Nanoimmunosafety: Advantages and Disadvantages of In vivo vs In vitro Models, and Human vs Animal Models. 2017 , 2, 71-76	6

Reevaluation of the Strain Pressure Theory: Toward a Better Understanding the Biology of Tooth Movement. 2017 , 11, 133-140	1
Time Response of Oxidative/Nitrosative Stress and Inflammation in LPS-Induced Endotoxaemia-A Comparative Study of Mice and Rats. 2017 , 18,	. 21
CRISPR/Cas9-Mediated Mutation of A-Crystallin Gene Induces Congenital Cataracts in Rabbits. 2017 , 58, BIO34-BIO41	18
1093 Preclinical Pharmacology and Toxicology - Contributions to the Translational Interface?. 2017 ,	3
Recapitulation of microtissue models connected with real-time readout systems via 3D printing technology. 2017 , 9, 233-236	
1091 Human Stakeholders and the Use of Animals in Drug Development. 2018 , 123, 3-58	6
1090 Biomaterials for Engineering Immune Responses. 2018 , 98, 49-68	O
1089 Long non-coding RNAs: An essential emerging field in kidney pathogenesis. 2018 , 99, 755-765	23
Islet proteomics reveals genetic variation in dopamine production resulting in altered insulin secretion. 2018 , 293, 5860-5877	22
1087 S. aureus endocarditis: Clinical aspects and experimental approaches. 2018 , 308, 640-652	18
Therapeutic mild hypothermia improves early outcomes in rats subjected to severe sepsis. 2018 , 199, 1-9	8
Effect of Postmortem Interval and Years in Storage on RNA Quality of Tissue at a Repository of th NIH NeuroBioBank. 2018 , 16, 148-157	ne 27
Extensive T cell cross-reactivity between diverse seasonal influenza strains in the ferret model. 2018 , 8, 6112	18
1083 Biomaterials for Tissue Engineering. 2018 ,	
Genomic Response to Vitamin D Supplementation in the Setting of a Randomized, Placebo-Controlled Trial. 2018 , 31, 133-142	20
Analgesic mechanisms of gabapentinoids and effects in experimental pain models: a narrative review. 2018 , 120, 1315-1334	49
1080 In Vitro Model of Macrophage-Biomaterial Interactions. 2018 , 1758, 161-176	6
TLR-2, IL-10 and IL-17-mediated immunity in experimental chemotherapy murine model of system candidiasis; cyclophosphamides' impact and roles. 2018 , 119, 183-192	nic 13

1078	Intramuscular vaccination of guinea pigs with the live-attenuated human herpes simplex vaccine VC2 stimulates a transcriptional profile of vaginal Th17 and regulatory Tr1 responses. 2018 , 36, 2842-2849	21
1077	Of mice, men and immunity: a case for evolutionary systems biology. 2018 , 19, 421-425	14
1076	Stromal cell-laden 3D hydrogel microwell arrays as tumor microenvironment model for studying stiffness dependent stromal cell-cancer interactions. 2018 , 170, 37-48	52
1075	Mou-on-a-chiplfor precision medicine. 2018 , 3, 137-146	9
1074	Mitigating the Impact of Antibacterial Drug Resistance through Host-Directed Therapies: Current Progress, Outlook, and Challenges. 2018 , 9,	37
1073	Biomechanics of Immediate Postextraction Implant Osseointegration. 2018 , 97, 987-994	21
1072	How are the expression patterns of gut antimicrobial peptides modulated by human gastrointestinal diseases? A bridge between infectious, inflammatory, and malignant diseases. 2018 , 24, e3071	3
1071	Modeling autism in non-human primates: Opportunities and challenges. 2018 , 11, 686-694	21
1070	The Role of the Human Immune System in Chronic Hypoxic Pulmonary Hypertension. 2018 , 198, 528-531	5
1069	Animal models of cardiac arrest: A systematic review of bias and reporting. 2018 , 125, 16-21	13
1068	Advanced Microengineered Lung Models for Translational Drug Discovery. 2018 , 23, 777-789	11
1067	A community approach to mortality prediction in sepsis via gene expression analysis. 2018 , 9, 694	106
1066	Bench-to-Bedside: A Translational Perspective on Murine Models of Sepsis. 2018 , 19, 137-141	4
1065	A microengineered vascularized bleeding model that integrates the principal components of hemostasis. 2018 , 9, 509	47
1064	Interaction of engineered nanomaterials with the immune system: Health-related safety and possible benefits. 2018 , 10, 74-83	7
1063	Generation of full-thickness skin equivalents using hair follicle-derived primary human keratinocytes and fibroblasts. 2018 , 12, e2134-e2146	9
1062	Pathology and Pathogenesis of Immune-Mediated Diseases of Animals. 2018, 55, 5-7	1
1061	Induced Pluripotent Stem Cells in Disease Modeling and Gene Identification. 2018 , 1706, 17-38	23

1060 Engineering 3D Hydrogels for Personalized In Vitro Human Tissue Models. 2018 , 7, 1701165	57
Cross-species transcriptional analysis reveals conserved and host-specific neoplastic processes in mammalian glioma. 2018 , 8, 1180	15
Multicohort Analysis of Whole-Blood Gene Expression Data Does Not Form a Robust Diagnostic for Acute Respiratory Distress Syndrome. 2018 , 46, 244-251	19
1057 Alternatives to animal testing in basic and preclinical research of atopic dermatitis. 2018 , 27, 476-483	13
1056 Opportunities for organoids as new models of aging. 2018 , 217, 39-50	28
Neonatal Systemic Inflammation Induces Inflammatory Reactions and Brain Apoptosis in a Pathogen-Specific Manner. 2018 , 113, 212-220	23
Shifting sands: the complexities and uncertainties of the evolving US regulatory, policy, and scientific landscape for biospecimen research. 2018 , 24, 136-148	4
Inflammation following acute myocardial infarction: Multiple players, dynamic roles, and novel therapeutic opportunities. 2018 , 186, 73-87	290
The Transferability from Animal Models to Humans: Challenges Regarding Aggregation and Protein Corona Formation of Nanoparticles. 2018 , 19, 374-385	51
Effect of conjugated linoleic acid on blood inflammatory markers: a systematic review and meta-analysis on randomized controlled trials. 2018 , 72, 1071-1082	10
1050 Skin wound healing in humans and mice: Challenges in translational research. 2018 , 90, 3-12	141
1049 Finite element modeling to analyze TEER values across silicon nanomembranes. 2018 , 20, 11	8
1048 Inflammatory and Neuropathic Pain From Bench to Bedside: What Went Wrong?. 2018 , 19, 571-588	55
Critical Interactions between Immunogenic Cancer Cell Death, Oncolytic Viruses, and the Immune System Define the Rational Design of Combination Immunotherapies. 2018 , 200, 450-458	48
Effects of Veliparib on Microglial Activation and Functional Outcomes after Traumatic Brain Injury in the Rat and Pig. 2018 , 35, 918-929	8
Species-specific differences in regulation of macrophage inflammation by the C3a-C3a receptor axis. 2018 , 24, 66-78	4
1044 Fictional Models and Fictional Representations. 2018 , 28, 375-394	
Divergence of Noncoding Regulatory Elements Explains Gene-Phenotype Differences between Human and Mouse Orthologous Genes. 2018 , 35, 1653-1667	5

1042	Progress in melanoma modelling in vitro. 2018 , 27, 578-586	16
1041	Cell motility in cancer invasion and metastasis: insights from simple model organisms. 2018 , 18, 296-312	211
1040	Unsupervised Analysis of Transcriptomics in Bacterial Sepsis Across Multiple Datasets Reveals Three Robust Clusters. 2018 , 46, 915-925	115
1039	Altered Hippocampal Gene Expression and Morphology in Fetal Piglets following Maternal Respiratory Viral Infection. 2018 , 40, 104-119	19
1038	News Feature: What happens when lab animals go wild. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 3196-3199	9
1037	Humanized Mouse Models for the Preclinical Assessment of Cancer Immunotherapy. 2018 , 32, 245-266	31
1036	Conserved and species-specific transcription factor co-binding patterns drive divergent gene regulation in human and mouse. 2018 , 46, 1878-1894	8
1035	Comparative transcriptome profiling of the human and mouse dorsal root ganglia: an RNA-seq-based resource for pain and sensory neuroscience research. 2018 , 159, 1325-1345	155
1034	Wnt-Responsive Odontoblasts Secrete New Dentin after Superficial Tooth Injury. 2018 , 97, 1047-1054	12
1033	Prediagnostic Serum Vitamin D Levels and the Risk of Crohn's Disease and Ulcerative Colitis in European Populations: A Nested Case-Control Study. 2018 , 24, 633-640	28
1032	Whole-organism phenotypic screening for anti-infectives promoting host health. 2018, 14, 331-341	11
1031	Reduction of Animal Sacrifice in Biomedical Science & Research through Alternative Design of Animal Experiments. 2018 , 26, 896-902	15
1030	Effect of administration of high-protein diet in rats submitted to resistance training. 2018 , 57, 1083-1096	6
1029	Weak by the machines: muscle motor protein dysfunction - a side effect of intensive care unit treatment. 2018 , 222, e12885	14
1028	What Is the Predictive Value of Animal Models for Vaccine Efficacy in Humans? Reevaluating the Potential of Mouse Models for the Human Immune System. 2018 , 10,	12
1027	What Is the Predictive Value of Animal Models for Vaccine Efficacy in Humans? Consideration of Strategies to Improve the Value of Animal Models. 2018 , 10,	21
1026	High-throughput approaches for screening and analysis of cell behaviors. 2018 , 153, 85-101	35
1025	Toward a CRISPR Picture: Use of CRISPR/Cas9 to Model Diseases in Human Stem Cells In Vitro. 2018 , 119, 62-68	7

	Overexpression During Endotoxin Tolerance Impairs the Adaptive Immune Response in Patients via HIF1 2018 , 217, 393-404	30
	translatable blood gene signature as a marker of exposure to smoking: computational ches of the top ranked teams in the sbv IMPROVER Systems Toxicology challenge. 2018 , 5, 25-30	1
1022 Next g	eneration organoids for biomedical research and applications. 2018 , 36, 132-149	63
	models of chemotherapy-induced mucositis: translational relevance and challenges. 2018 , 231-G246	31
	lar similarities and differences from human pulmonary fibrosis and corresponding mouse MALDI imaging mass spectrometry in comparative medicine. 2018 , 98, 141-149	12
	lung branching morphogenesis is orchestrated by the spatiotemporal distribution of SOX2, and SOX9. 2018 , 314, L144-L149	56
1018 The eff	ects of topical nitric oxide on healing of partial thickness porcine burns. 2018 , 44, 423-428	8
	herapy with an Adeno-Associated Viral Vector Expressing Human Interleukin-2 Alters e System Homeostasis in Humanized Mice. 2018 , 29, 352-365	13
1016 Self-as	sembled liver organoids recapitulate hepatobiliary organogenesis in vitro. 2018, 67, 750-761	67
1015 MicroR	NAs as Clinical Biomarkers and Therapeutic Tools in Perioperative Medicine. 2018 , 126, 670-681	53
	lling Differentiation of Stem Cells for Developing Personalized Organ-on-Chip Platforms. , 1700426	45
	cion of macrophages from intracellular pathogens by miR-182-5p mimic-a gene expression nalysis approach. 2018 , 285, 244-260	3
1012 Bacteri	al Dissemination to the Brain in Sepsis. 2018 , 197, 747-756	50
1011	ex Environmental Rearing Enhances Social Salience and Affects Hippocampal Corticotropin ng Hormone Receptor Expression in a Sex-Specific Manner. 2018 , 369, 399-411	15
1010 Model	answers: Rational application of murine models in arthritis research. 2018, 48, 32-38	15
1009 Progra	mming Morphogenesis through Systems and Synthetic Biology. 2018 , 36, 415-429	25
	otherapy of Mild Cognitive Impairment by ß Supplementation: Why Are Amyloid-問dies and ß Not Working in Clinical Trials?. 2018 , 62, 1013-1022	9
1007 System	s Biology. 2018 ,	

(2018-2018)

1006	All animals are equal but some animals are more equal than others: Plasma lactate and succinate in hemorrhagic shock-A comparison in rodents, swine, nonhuman primates, and injured patients. 2018 , 84, 537-541	12
1005	Inflammatory processes during acute respiratory distress syndrome: a complex system. 2018 , 24, 1-9	34
1004	The hepatokines fetuin-A and fetuin-B are upregulated in the state of hepatic steatosis and may differently impact on glucose homeostasis in humans. 2018 , 314, E266-E273	32
1003	Biomaterials-based 3D cell printing for next-generation therapeutics and diagnostics. 2018 , 156, 88-106	150
1002	A Method for Cross-Species Visualization and Analysis of RNA-Sequence Data. 2018 , 1702, 291-305	2
1001	Mouse models for human intestinal microbiota research: a critical evaluation. 2018, 75, 149-160	212
1000	A porcine model to study the effect of brain death on kidney genomic responses. 2018 , 2, 208-216	
999	Establishment of an induced pluripotent stem cell model of Hirschsrpung disease, a congenital condition of the enteric nervous system, from a patient carrying a novel RET mutation. 2018 , 29, 975-980	1
998	Cytokine-Mediated Tissue Injury in Non-human Primate Models of Viral Infections. 2018, 9, 2862	7
997	Trauma research: Trials and tribulations of a triceratops. 2018 , 85, 841-850	
996	Animal models for understanding microbial decomposition of human remains. 2018 , 28, 117-125	2
995	INTRODUCTION: Immune Relevant Animal Models: Opportunities and Challenges. 2018, 59, 209-210	
994	Reproducing the human mucosal environment ex vivo: inflammatory bowel disease as a paradigm. 2018 , 34, 384-391	2
993	Found In Translation: a machine learning model for mouse-to-human inference. 2018 , 15, 1067-1073	32
992	Of Mice, Dogs, Pigs, and Men: Choosing the Appropriate Model for Immuno-Oncology Research. 2018 , 59, 247-262	31
991	Better science for safer medicines: the human imperative. 2018 , 111, 433-438	11
990	Equine lung decellularization: a potential approach for in vitro modeling the role of the extracellular matrix in asthma. 2018 , 9, 2041731418810164	8
989	Human neural stem cell-derived neuron/astrocyte co-cultures respond to La Crosse virus infection with proinflammatory cytokines and chemokines. 2018 , 15, 315	10

988	Personalized mathematical model of endotoxin-induced inflammatory responses in young men and associated changes in heart rate variability. 2018 , 13, 42	4
987	New advances in understanding thyroid-associated ophthalmopathy and the potential role for insulin-like growth factor-I receptor. 2018 , 7, 134	8
986	MIgGGly (mouse IgG glycosylation analysis) - a high-throughput method for studying Fc-linked IgG N-glycosylation in mice with nanoUPLC-ESI-MS. 2018 , 8, 13688	12
985	Network proteomics of human dermal wound healing. 2018 , 39, 124002	6
984	Contributions of Farm Animals to Immunology. 2018 , 5, 307	17
983	Discordant roles for FGF ligands in lung branching morphogenesis between human and mouse. 2019 , 247, 254-265	20
982	Is it possible to overcome issues of external validity in preclinical animal research? Why most animal models are bound to fail. 2018 , 16, 304	114
981	Advanced model systems and tools for basic and translational human immunology. 2018 , 10, 73	46
980	Alzheimer's disease (AD) therapeutics - 2: Beyond amyloid - Re-defining AD and its causality to discover effective therapeutics. 2018 , 158, 376-401	20
979	Choosing outcomes for clinical trials: a pragmatic perspective. 2018 , 24, 428-433	3
978	IFIT1 Exerts Opposing Regulatory Effects on the Inflammatory and Interferon Gene Programs in LPS-Activated Human Macrophages. 2018 , 25, 95-106.e6	31
977	Highly visible sepsis publications from 2012 to 2017: Analysis and comparison of altmetrics and bibliometrics. 2018 , 48, 357-371	10
976	The AB loop of oncostatin M (OSM) determines species-specific signaling in humans and mice. 2018 , 293, 20181-20199	10
975	Clinical trials involving carbon-ion radiation therapy and the path forward. 2018 , 124, 4467-4476	21
974	Microglia in Alzheimer's Disease: A Role for Ion Channels. 2018 , 12, 676	20
973	Potential Pitfalls of the Humanized Mice in Modeling Sepsis. 2018 , 2018, 6563454	7
972	Contemporary Circulating Enterovirus D68 Strains Have Acquired the Capacity for Viral Entry and Replication in Human Neuronal Cells. 2018 , 9,	54
971	Bone physiology as inspiration for tissue regenerative therapies. 2018 , 185, 240-275	145

970	Human Neural Stem Cells. 2018,	1
969	Cardioprotective effects and underlying mechanism of Radix Salvia miltiorrhiza and Lignum Dalbergia odorifera in a pig chronic myocardial ischemia model. 2018 , 42, 2628-2640	10
968	The Cutaneous Microbiome and Wounds: New Molecular Targets to Promote Wound Healing. 2018 , 19,	76
967	Comparative oncology: Integrating human and veterinary medicine. 2018 , 8, 25-34	12
966	Brain Organoids: Expanding Our Understanding of Human Development and Disease. 2018 , 66, 183-206	9
965	Comparison of the Rat and Human Dorsal Root Ganglion Proteome. 2018 , 8, 13469	9
964	Translational Sepsis Research: Spanning the Divide. 2018 , 46, 1497-1505	7
963	MicroRNA-155 Amplifies Nitric Oxide/cGMP Signaling and Impairs Vascular Angiotensin II Reactivity in Septic Shock. 2018 , 46, e945-e954	15
962	Development and application of human skeletal muscle microphysiological systems. 2018 , 18, 3061-3073	11
961	From lipid locus to drug target through human genomics. 2018 , 114, 1258-1270	10
960	Three-dimensional cell culture: from evolution to revolution. 2018, 373,	34
959	Learning lessons in sepsis from the children. 2018 , 14, e8335	O
958	Cecal Ligation and Puncture Alters Glucocorticoid Receptor Expression. 2018 , 46, e797-e804	19
957	The relative resistance of children to sepsis mortality: from pathways to drug candidates. 2018 , 14, e7998	7
956	Modeling Rare Bone Diseases in Animals. 2018 , 16, 458-465	3
955	Reverse Translation: Using Computational Modeling to Enhance Translational Research. 2018 , 122, 1496-1496	8 0
954	mEBT: multiple-matching evidence-based translator of murine genomic responses for human immunity studies. 2018 , 34, 3741-3743	
953	Validation of in vitro assays in three-dimensional human dermal constructs. 2018 , 41, 779-788	13

952	Increased Afterload Augments Sunitinib-Induced Cardiotoxicity in an Engineered Cardiac Microtissue Model. 2018 , 3, 265-276	29
951	Dissociated Oxygen Consumption and Carbon Dioxide Production in the Post-Cardiac Arrest Rat: A Novel Metabolic Phenotype. 2018 , 7,	13
950	Thymulin, free or bound to PBCA nanoparticles, protects mice against chronic septic inflammation. 2018 , 13, e0197601	7
949	Study of melatonin-mediated effects on various hepatic inflammatory responses stimulated by IL-6 in a new HepG2-on-a-chip platform. 2018 , 20, 54	4
948	Of mice and men: the host response to influenza virus infection. 2018 , 29, 446-470	12
947	Feasibility of Induced Pluripotent Stem Cell Therapies for Treatment of Type 1 Diabetes. 2018 , 24, 482-492	2
946	Progress on Reconstructed Human Skin Models for Allergy Research and Identifying Contact Sensitizers. 2021 , 430, 103-129	9
945	Development of the Concept for Stem Cell-Based Developmental Neurotoxicity Evaluation. 2018 , 165, 14-20	20
944	Targeting Interleukin-23 in the Treatment of Noninfectious Uveitis. 2018 , 125, 1977-1983	40
943	The Alternate Futures of Precision Medicine. 2018 , 327-365	
942	Hematology, Hemostasis, Thromboprophylaxis, and Transfusion Medicine in Burn Patients. 2018 , 236-247.e6	О
941	Systemic Inflammatory Cytokines Predict the Infectious Complications but Not Prolonged Postoperative Ileus after Colorectal Surgery. 2018 , 2018, 7141342	9
941		9
	Postoperative Ileus after Colorectal Surgery. 2018, 2018, 7141342 The earthworm Dendrobaena veneta (Annelida): A new experimental-organism for	
940	Postoperative Ileus after Colorectal Surgery. 2018, 2018, 7141342 The earthworm Dendrobaena veneta (Annelida): A new experimental-organism for photobiomodulation and wound healing. 2018, 62, 2867 PKClinhibition as a novel medical countermeasure for radiation-induced vascular damage. 2018,	8
940 939	Postoperative Ileus after Colorectal Surgery. 2018, 2018, 7141342 The earthworm Dendrobaena veneta (Annelida): A new experimental-organism for photobiomodulation and wound healing. 2018, 62, 2867 PKCIInhibition as a novel medical countermeasure for radiation-induced vascular damage. 2018, 32, fj201701099	9
940 939 938	Postoperative Ileus after Colorectal Surgery. 2018, 2018, 7141342 The earthworm Dendrobaena veneta (Annelida): A new experimental-organism for photobiomodulation and wound healing. 2018, 62, 2867 PKCIInhibition as a novel medical countermeasure for radiation-induced vascular damage. 2018, 32, fj201701099 Modelling invasive group A streptococcal disease using bioluminescence. 2018, 18, 60 Sensing of cytosolic LPS through caspy2 pyrin domain mediates noncanonical inflammasome	8 9 1

934	Interference in Bacterial Quorum Sensing: A Biopharmaceutical Perspective. 2018 , 9, 203	135
933	Human Microphysiological Systems and Organoids as Models for Toxicological Studies. 2018 , 6, 185	38
932	Breaking the Barrier - Potent Anti-Inflammatory Activity following Efficient Topical Delivery of Etanercept using Thermoresponsive Nanogels. 2018 , 8, 450-463	45
931	The impact of septic stimuli on the systemic inflammatory response and physiologic insult in a preclinical non-human primate model of polytraumatic injury. 2018 , 15, 11	2
930	Can We Grow Valves Inside the Heart? Perspective on Material-based In Situ Heart Valve Tissue Engineering. 2018 , 5, 54	30
929	GATA3, HDAC6, and BCL6 Regulate FOXP3+ Treg Plasticity and Determine Treg Conversion into Either Novel Antigen-Presenting Cell-Like Treg or Th1-Treg. 2018 , 9, 45	35
928	T Cell Subsets in the Germinal Center: Lessons from the Macaque Model. 2018 , 9, 348	21
927	Comparative Analysis of the Regulatory T Cells Dynamics in Peripheral Blood in Human and Porcine Polytrauma. 2018 , 9, 435	11
926	Development and Characterization of an Endotoxemia Model in Zebra Fish. 2018, 9, 607	10
925	Understanding the Cellular Origin of the Mononuclear Phagocyte System Sheds Light on the Myeloid Postulate of Immune Paralysis in Sepsis. 2018 , 9, 823	13
924	Genetically Induced Tumors in the Oncopig Model Invoke an Antitumor Immune Response Dominated by Cytotoxic CD8町 Cells and Differentiated IT Cells Alongside a Regulatory Response Mediated by FOXP3 T Cells and Immunoregulatory Molecules. 2018 , 9, 1301	11
923	Chronic Critical Illness and the Persistent Inflammation, Immunosuppression, and Catabolism Syndrome. 2018 , 9, 1511	96
922	Effect of electroacupuncture at ST36 on the intestinal mucosal mechanical barrier and expression of occludin in a rat model of sepsis. 2018 , 36, 333-338	8
921	Introduction: Seriously, What is Precision Medicine?. 2018 , 1-15	
920	Precision Organisms. 2018 , 181-228	
919	The Role of miRNAs in the Pathophysiology of Liver Diseases and Toxicity. 2018 , 19,	62
918	Contribution of cryptic epitopes in designing a group A streptococcal vaccine. 2018 , 14, 2034-2052	11
917	Individual variation is the key to the development of a vaccine against Staphylococcus aureus: a comparative study between mice lineages. 2018 , 51, e6773	4

916	A transcriptome comparison of time-matched developing human, mouse and rat neural progenitor cells reveals human uniqueness. 2018 , 354, 40-55	22
915	Integrating CNVs into meta-QTL identified GBP4 as positional candidate for adult cattle stature. 2018 , 18, 559-567	15
914	Immunomodulatory strategies for immune dysregulation following severe musculoskeletal trauma. 2018 , 2, 21-35	4
913	Chronic inhalation of e-cigarette vapor containing nicotine disrupts airway barrier function and induces systemic inflammation and multiorgan fibrosis in mice. 2018 , 314, R834-R847	97
912	Availability and Risk Assessment of Nanoparticles in Living Systems. 2018, 1-31	7
911	An Overview of Methods to Study Microglia. 2018 , 12, 242	94
910	Inflammation and Disease: Modelling and Modulation of the Inflammatory Response to Alleviate Critical Illness. 2018 , 12, 22-29	11
909	KRAS and TP53 Cooperate to Induce Pancreatic Ductal Adenocarcinoma in Sus scrofa Pigs. 2018 , 8, 12548	19
908	Applications of tumor chip technology. 2018 , 18, 2893-2912	58
907	Stem cell bioengineering: building from stem cell biology. 2018 , 19, 595-614	51
906	From the Clinical Problem to the Basic Research-Co-Culture Models of Osteoblasts and Osteoclasts. 2018 , 19,	22
905	Renal Ischemia-Reperfusion Injury in a Diabetic Monkey Model and Therapeutic Testing of Human Bone Marrow-Derived Mesenchymal Stem Cells. 2018 , 2018, 5182606	110
904	Giving the Genes a Shuffle: Using Natural Variation to Understand Host Genetic Contributions to Viral Infections. 2018 , 34, 777-789	14
903	Brain microglia activation induced by intracranial administration of oligonucleotides and its pharmacological modulation. 2018 , 8, 1345-1354	2
902	Full Issue PDF. 2018 , 3, I-CLXXIV	
901	Identifying and Overcoming Threats to Reproducibility, Replicability, Robustness, and Generalizability in Microbiome Research. 2018 , 9,	82
900	Gut Microbiota in Brain Development and Disorders of the CNS: Therapeutic Strategies Involving Dietary Modification, Pro- and Prebiotic Intervention, and Fecal Microbiota Transplantation (FMT) Therapy. 2018 , 517-594	
899	Tissue repair and regeneration with endogenous stem cells. 2018 , 3, 174-193	101

898	Premise for Standardized Sepsis Models. 2019 , 51, 4-9	25
897	Application of porcine gastrointestinal organoid units as a potential in vitro tool for drug discovery and development. 2019 , 39, 4-15	11
896	Mouse models as a tool for discovering new neurological diseases. 2019 , 165, 106902	8
895	Intrathecal Injection of Allogenic Bone Marrow-Derived Mesenchymal Stromal Cells in Treatment of Patients with Severe Ischemic Stroke: Study Protocol for a Randomized Controlled Observer-Blinded Trial. 2019 , 10, 170-177	21
894	Pathophysiologic Characterization of a Novel Rabbit Model of Biliary Tract Infection-Derived Sepsis. 2019 , 9, 11947	2
893	A dual mixture of persistent organic pollutants modifies carbohydrate metabolism in the human hepatic cell line HepaRG. 2019 , 178, 108628	8
892	Accuracy, discriminative properties and reliability of a human ESC-based in vitro toxicity assay to distinguish teratogens responsible for neural tube defects. 2019 , 93, 2375-2384	1
891	Advanced bioengineering technologies for preclinical research. 2019 , 4, 1622451	3
890	Selection of Models: Evolution and the Choice of Species for Translational Research. 2019 , 93, 82-91	10
889	Equine or porcine synovial fluid as a novel ex vivo model for the study of bacterial free-floating biofilms that form in human joint infections. 2019 , 14, e0221012	24
888	A microscale, full-thickness, human skin on a chip assay simulating neutrophil responses to skin infection and antibiotic treatments. 2019 , 19, 3094-3103	21
887	Laboratory mice born to wild mice have natural microbiota and model human immune responses. 2019 , 365,	189
886	Genetic Syndromes and Aging. 2019 , 211-239	
885	Clinical trial design for unmet clinical needs: a spotlight on sepsis. 2019 , 12, 893-900	6
884	Perturbations in neuroinflammatory pathways are associated with paclitaxel-induced peripheral neuropathy in breast cancer survivors. 2019 , 335, 577019	6
883	Immunity to : Implications for Vaccine Development. 2019 , 7,	12
882	Porcine Invariant Natural Killer T Cells: Functional Profiling and Dynamics in Steady State and Viral Infections. 2019 , 10, 1380	13
881	Relationships between Cytokine Levels and Disease Parameters during the Development of a Collagen-induced Arthritis Model in Cynomolgus Macaques (). 2019 , 69, 228-239	2

880	Leukocyte transcriptional signatures dependent on LPS dosage in human endotoxemia. 2019 , 106, 1153-1160	11
879	Sensor-free and Sensor-based Heart-on-a-chip Platform: A Review of Design and Applications. 2018 , 24, 5375-5385	6
878	Sequencing Disparity in the Genomic Era. 2019 , 36, 1624-1627	12
877	Capturing the Onset of Bacterial Pulmonary Infection in Acini-On-Chips. 2019 , 3, e1900026	18
876	Immunity. 2019 , 25-48	
875	A systematic review of large animal models of combined traumatic brain injury and hemorrhagic shock. 2019 , 104, 160-177	8
874	Drug Discovery in Psychiatry: Time for Human Genome-Guided Solutions. 2019 , 213-218	
873	An Eye on Toxins: Roles in Ocular Damage and Inflammation. 2019 , 11,	21
872	Expression of human TLR4/myeloid differentiation factor 2 directs an early innate immune response associated with modest increases in bacterial burden during infection. 2019 , 25, 401-411	2
871	Challenges of using lipopolysaccharides for cancer immunotherapy and potential delivery-based solutions thereto. 2019 , 10, 165-187	8
870	The contact pathway and sepsis. 2019 , 3, 331-339	21
869	Human-gut-microbiome on a chip. 2019 , 3, 500-501	21
868	Its complicated: The relationship between alcohol and microglia in the search for novel pharmacotherapeutic targets for alcohol use disorders. 2019 , 167, 179-221	17
867	Therapeutic Targeting of Neutrophil Granulocytes in Inflammatory Liver Disease. 2019 , 10, 2257	16
866	Three-dimensional testicular organoids as novel models of testicular biology and toxicology. 2019 , 5, dvz011	10
865	Human pluripotent stem cells for the modelling of diseases of the retina and optic nerve: toward a retina in a dish. 2019 , 48, 114-119	7
864	Quantifying mechanisms in neurodegenerative diseases (NDDs) using candidate mechanism perturbation amplitude (CMPA) algorithm. 2019 , 20, 494	2
863	Hybrid elastomer-plastic microfluidic device as a convenient model for mimicking the blood-brain barrier in vitro. 2019 , 21, 90	8

862	ETV2/ER71 Transcription Factor as a Therapeutic Vehicle for Cardiovascular Disease. 2019 , 9, 5694-5705	5
861	. 2019,	1
860	Autologous bone marrow mononuclear cells modulate joint homeostasis in an equine model of synovitis. 2019 , 33, 14337-14353	9
859	Sex Differences in the Blood Transcriptome Identify Robust Changes in Immune Cell Proportions with Aging and Influenza Infection. 2019 , 29, 1961-1973.e4	35
858	Gut microbiotas and immune checkpoint inhibitor therapy response: a causal or coincidental relationship?. 2019 , 58, 18-24	11
857	Mouse Models of Sepsis and Septic Shock. 2019 , 53, 704-717	12
856	Disease-directed engineering for physiology-driven treatment interventions in neurological disorders. 2019 , 3, 040901	8
855	Dysregulated T helper type 1 (Th1) and Th17 responses in elderly hospitalised patients with infection and sepsis. 2019 , 14, e0224276	9
854	An Acute Stress Model in New Zealand White Rabbits Exhibits Altered Immune Response to Infection with West Nile Virus. 2019 , 8,	2
853	How to Translate Time: The Temporal Aspects of Rodent and Human Pathobiological Processes in Traumatic Brain Injury. 2019 , 36, 1724-1737	21
852	Vasodepressor Effects of Adenosine in the Cat are Independent of Cyclooxygenase, Potassium Channels, and Nitric Oxide Pathways. 2019 , 19, 319-328	
851	Differentiation of Human Monocytes. 2019 , 10, 1907	46
850	Resistin directly inhibits bacterial killing in neutrophils. 2019 , 7, 30	19
849	Oral Bioavailability of As, Pb, and Cd in Contaminated Soils, Dust, and Foods based on Animal Bioassays: A Review. 2019 , 53, 10545-10559	28
848	Age-dependent differences in pulmonary host responses in ARDS: a prospective observational cohort study. 2019 , 9, 55	70
847	Preclinical septic shock research: why we need an animal ICU. 2019 , 9, 66	34
846	Animal Models of Normal and Disturbed Iron and Copper Metabolism. 2019 , 149, 2085-2100	8
845	Fundamental differences in patterns of retinal ageing between primates and mice. 2019 , 9, 12574	7

844	Quantitative evaluation of liposomal doxorubicin and its metabolites in spheroids. 2019, 411, 7087-7094	6
843	Clinically relevant model of pneumococcal pneumonia, ARDS, and nonpulmonary organ dysfunction in mice. 2019 , 317, L717-L736	13
842	Microglia in Alzheimer Disease: Well-Known Targets and New Opportunities. 2019, 11, 233	112
841	A model of clinical endometritis in Holstein heifers using pathogenic Escherichia coli and Trueperella pyogenes. 2019 , 102, 2686-2697	22
840	Insulin-like Growth Factor-I Receptor and Thyroid-Associated Ophthalmopathy. 2019, 40, 236-267	56
839	The virtuous cycle of human genetics and mouse models in drug discovery. 2019 , 18, 255-272	26
838	Multiplexed enrichment and genomic profiling of peripheral blood cells reveal subset-specific immune signatures. 2019 , 5, eaau9223	18
837	Are we listening to everything the PARK genes are telling us?. 2019 , 527, 1527-1540	7
836	Biomechanics of Acute Subdural Hematoma in the Elderly: A Fluid-Structure Interaction Study. 2019 , 36, 2099-2108	27
835	Plasma Proteome Signature of Sepsis: a Functionally Connected Protein Network. 2019 , 19, e1800389	6
834	Engineering microsystems to recapitulate brain physiology on a chip. 2019 , 24, 1725-1730	10
833	Outcome heterogeneity and bias in acute experimental spinal cord injury: A meta-analysis. 2019 , 93, e40-e51	14
832	Summary of the International Conference on Onco-Nephrology: an emerging field in medicine. 2019 , 96, 555-567	25
831	Skin metabolism phase I and phase II enzymes in native and reconstructed human skin: a short review. 2019 , 24, 1899-1910	25
830	Harnessing Human Microphysiology Systems as Key Experimental Models for Quantitative Systems Pharmacology. 2019 , 260, 327-367	9
829	Human-Derived Organ-on-a-Chip for Personalized Drug Development. 2018 , 24, 5471-5486	51
828	Exome sequencing of 20,791 cases of type 2 diabetes and 24,440 controls. 2019 , 570, 71-76	129
827	Pseudomonas aeruginosa Alters Its Transcriptome Related to Carbon Metabolism and Virulence as a Possible Survival Strategy in Blood from Trauma Patients. 2019 , 4,	9

826	Temporal progression of gene regulation of peripheral white blood cells explains gender dimorphism of critically ill patients after trauma. 2019 , 25, 19		
825	Tissue inhibitor of metalloproteinase-1 and interleukin-10 in serum from naWe and scrapie infected sheep. 2019 , 7, 100056		
824	Modeling Pneumonic Plague in Human Precision-Cut Lung Slices Highlights a Role for the Plasminogen Activator Protease in Facilitating Type 3 Secretion. 2019 , 87,		9
823	Perspectives for Clinical Translation of Adipose Stromal/Stem Cells. 2019 , 2019, 5858247		47
822	PPAREcontributes to protection against metabolic and inflammatory derangements associated with acute kidney injury in experimental sepsis. 2019 , 7, e14078		19
821	Disease networks and their contribution to disease understanding: A review of their evolution, techniques and data sources. 2019 , 94, 103206		15
820	Animal Experiments in Periodontal and Peri-Implant Research: Are There Any Changes?. 2019 , 7,		4
819	Deficient IL-6/Stat3 Signaling, High TLR7, and Type I Interferons in Early Human Alcoholic Liver Disease: A Triad for Liver Damage and Fibrosis. 2019 , 3, 867-882		16
818	Insights into the biology of fibrodysplasia ossificans progressiva using patient-derived induced pluripotent stem cells. 2019 , 11, 25-30		7
817	Neuroinflammation and Microvascular Dysfunction After Experimental Subarachnoid Hemorrhage: Emerging Components of Early Brain Injury Related to Outcome. 2019 , 31, 373-389		39
816	Animal models of primary brain tumors. 2019 , 149-195		
815	The Neurosphere Assay as an In Vitro Method for Developmental Neurotoxicity (DNT) Evaluation. 2019 , 141-168		4
814	Functional genomics applications and therapeutic implications in sarcopenia. 2019 , 781, 175-185		2
813	Histological score for degrees of severity in an implant-associated infection model in mice. 2019 , 139, 1235-1244		5
812	Speciation. 2019 , 145-171		
811	Animal Models of Human Disease: Opportunities and Limitations. 2019 , 285-305		
810	Uniquely human CHRFAM7A gene increases the hematopoietic stem cell reservoir in mice and amplifies their inflammatory response. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 7932-7940	11.5	15
809	Porcine Models of Pancreatic Cancer. 2019 , 9, 144		20

808	An in vitro model mimics the contact of biomaterials to blood components and the reaction of surrounding soft tissue. 2019 , 89, 227-241	8
807	Organ-on-a-chip technology: turning its potential for clinical benefit into reality. 2019 , 24, 1217-1223	33
806	Recent advances in our understanding of mast cell activation - or should it be mast cell mediator disorders?. 2019 , 15, 639-656	46
805	Discordance between histologic and visual assessment of tissue viability in excised burn wound tissue. 2019 , 27, 150-161	12
804	Inner sensors of endotoxin - implications for sepsis research and therapy. 2019 , 43, 239-256	36
803	Humanized mouse models of immunological diseases and precision medicine. 2019 , 30, 123-142	46
802	Evolution of the Supermodel: Progress in Modelling Radiotherapy Response in Mice. 2019 , 31, 272-282	9
801	Studying Human Neurological Disorders Using Induced Pluripotent Stem Cells: From 2D Monolayer to 3D Organoid and Blood Brain Barrier Models. 2019 , 9, 565-611	46
800	Selectins and Immune Cells in Acute Myocardial Infarction and Post-infarction Ventricular Remodeling: Pathophysiology and Novel Treatments. 2019 , 10, 300	26
799	Single-Cell Metabolism and Stress Responses in Complex Host Tissues. 2019 , 7,	5
79 ⁸	Impact of cytomegalovirus load on host response to sepsis. 2019 , 208, 295-303	3
797	The Collaborative Cross: A Systems Genetics Resource for Studying Host-Pathogen Interactions. 2019 , 25, 484-498	34
796	Adverse immunostimulation caused by impurities: The dark side of biopharmaceuticals. 2019 , 85, 1418-1426	6
795	Anti-inflammatory effects of Vicenin-2 on dextran sulfate sodium-induced colitis in mice. 2019 , 80, 546-555	3
794	Formation of organotypic testicular organoids in microwell culture 2019, 100, 1648-1660	36
793	HDAC6 Modulates Signaling Pathways Relevant to Synaptic Biology and Neuronal Differentiation in Human Stem-Cell-Derived Neurons. 2019 , 20,	16
792	Hypoxia and mesenchymal stromal cells as key drivers of initial fracture healing in an equine in vitro fracture hematoma model. 2019 , 14, e0214276	13
791	The cellular basis of fibrotic tendon healing: challenges and opportunities. 2019 , 209, 156-168	57

(2019-2019)

790	Computational translation of genomic responses from experimental model systems to humans. 2019 , 15, e1006286	16
789	Craniofacial skeletal response to encephalization: How do we know what we think we know?. 2019 , 168 Suppl 67, 27-46	10
788	IL-1 mediates NGF and COX-2 expression through transforming growth factor-activating kinase 1 in subacromial bursa cells derived from rotator cuff tear patients. 2019 , 24, 925-929	2
787	Concise Review: Canine Diabetes Mellitus as a Translational Model for Innovative Regenerative Medicine Approaches. 2019 , 8, 450-455	8
786	Part III: Minimum Quality Threshold in Preclinical Sepsis Studies (MQTiPSS) for Fluid Resuscitation and Antimicrobial Therapy Endpoints. 2019 , 51, 33-43	24
7 ⁸ 5	Part I: Minimum Quality Threshold in Preclinical Sepsis Studies (MQTiPSS) for Study Design and Humane Modeling Endpoints. 2019 , 51, 10-22	33
784	Therapeutic Targeting of Neutrophil Extracellular Traps in Atherogenic Inflammation. 2019 , 119, 542-552	25
7 ⁸ 3	Induced pluripotent stem cells in disease modelling and drug discovery. 2019 , 20, 377-388	219
782	Characterization of immune responses to anti-PD-1 mono and combination immunotherapy in hematopoietic humanized mice implanted with tumor xenografts. 2019 , 7, 37	77
781	An Overview of Peripheral Blood Mononuclear Cells as a Model for Immunological Research of and Other Apicomplexan Parasites. 2019 , 9, 24	14
780	New strategies for treatment of infectious sepsis. 2019 , 106, 187-192	38
779	Creating cell and animal models of human disease by genome editing using CRISPR/Cas9. 2019 , 21, e3082	22
778	Non-antibody mediated transfusion-related acute lung injury an enigma. 2019 , 4, 7-7	2
777	The Influence of Pain and Analgesia in Rodent Models of Sepsis. 2019 , 69, 546-554	4
776	High mobility group box protein 1 neutralization therapy in ovine bacteremia: Lessons learned from an ovine septic shock model incorporating intensive care support. 2019 , 18, 3271-3280	1
775	Discordant gene responses to radiation in humans and mice and the role of hematopoietically humanized mice in the search for radiation biomarkers. 2019 , 9, 19434	11
774	Osteochondral Tissue Chip Derived From iPSCs: Modeling OA Pathologies and Testing Drugs. 2019 , 7, 411	40
773	Animal Models. 2019 , 239-252	

772	Inhibition of contact-mediated activation of factor XI protects baboons against -induced organ damage and death. 2019 , 3, 658-669	29
771	Human Cell-Based Phenotypic Profiling for Drug Safety-Related Attrition. 2019 , 2, 47	5
770	Immunity to Staphylococcus aureus: Implications for Vaccine Development. 2019 , 766-775	1
769	Effects of Intermittent Administration of Parathyroid Hormone and Parathyroid Hormone-Related Protein on Fracture Healing: A Narrative Review of Animal and Human Studies. 2019 , 3, e10250	14
768	STAT3 and STAT5 Signaling Thresholds Determine Distinct Regulation for Innate Receptor-Induced Inflammatory Cytokines, and / Disease Variants Modulate These Outcomes. 2019 , 203, 3325-3338	3
767	Animal Models in Science and Research. 2019 , 281-293	
766	Are BALB/c Mice Relevant Models for Understanding Sex-Related Differences in Gene Expression in the Human Meibomian Gland?. 2019 , 38, 1554-1562	4
765	Targeting cancers through TCR-peptide/MHC interactions. 2019 , 12, 139	33
764	Microphysiological systems modeling acute respiratory distress syndrome that capture mechanical force-induced injury-inflammation-repair. 2019 , 3, 041503	10
763	Mast Cells in Liver Fibrogenesis. 2019 , 8,	20
762	Tissue Engineering in Oral and Maxillofacial Surgery. 2019 ,	
761	The Evolution of Animal Models in Wound Healing Research: 1993-2017. 2019 , 8, 692-702	25
760	Different Bactericidal and Inflammatory Activities of Human and Mouse Blood. 2019 , 52, e85-e91	О
759	A Porcine Model for Urinary Tract Infection. 2019 , 10, 2564	13
758	Chemical Strategies for Evaluating New Drug Targets. 2019 , 1-24	
757	A Study of Cecal Ligation and Puncture-Induced Sepsis in Tissue-Specific Tumor Necrosis Factor Receptor 1-Deficient Mice. 2019 , 10, 2574	6
756	The Neglectable Impact of Delayed Graft Function on Long-term Graft Survival in Kidneys Donated After Circulatory Death Associates With Superior Organ Resilience. 2019 , 270, 877-883	20
755	and Models for Functional Testing of Therapeutic Anti-scarring Drug Targets in Keloids. 2019 , 8, 655-670	6

754 Preclinical Models for Drug Screening and Target Validation. **2019**, 105-146

753	Maternal Inflammation and Neurodevelopmental Programming: A Review of Preclinical Outcomes and Implications for Translational Psychiatry. 2019 , 85, 107-121	89
75 ²	From Ideal to Real Risk: Philosophy of Causation Meets Risk Analysis. 2019, 39, 729-740	6
751	Sepsis: Therapeutic Potential of Immunosuppression versus Immunostimulation. 2019 , 60, 128-130	1
750	Tomorrow today: organ-on-a-chip advances towards clinically relevant pharmaceutical and medical in vitro models. 2019 , 55, 81-86	56
749	Design principles for dynamic microphysiological systems. 2019 , 1-29	3
748	IRF5 Is Required for Bacterial Clearance in Human M1-Polarized Macrophages, and Immune-Mediated Disease Risk Variants Modulate This Outcome. 2019 , 202, 920-930	12
747	Time series analysis of gene changes and processes after burn with human gene expression profiles. 2019 , 45, 387-397	2
746	Bringing together what belongs together: Optimizing murine infection models by using mouse-adapted Staphylococcus aureus strains. 2019 , 309, 26-38	7
745	Cellular mechanisms promoting cachexia and how they are opposed by sirtuins. 2019 , 97, 235-245	1
744	A conceptual time window-based model for the early stratification of trauma patients. 2019 , 286, 2-15	15
743	A folding switch regulates interleukin 27 biogenesis and secretion of its Bubunit as a cytokine. Proceedings of the National Academy of Sciences of the United States of America, 2019 , 116, 1585-1590	21
742	Immunological Responses to the Relapsing Fever Spirochete in Infected Rhesus Macaques: Implications for Pathogenesis and Diagnosis. 2019 , 87,	3
741	In vitro vascularized liver and tumor tissue microenvironments on a chip for dynamic determination of nanoparticle transport and toxicity. 2019 , 116, 1201-1219	30
740	Embracing microbial exposure in mouse research. 2019 , 105, 73-79	13
739	In vitro and ex vivo systems at the forefront of infection modeling and drug discovery. 2019 , 198, 228-249	22
738	3D organ models-Revolution in pharmacological research?. 2019 , 139, 446-451	37
737	Lab-on-a-chip techniques for high-throughput proteomics and drug discovery. 2019 , 371-422	3

736	Forcine signal regulatory protein alpha binds to human CD47 to inhibit phagocytosis: Implications for human hematopoietic stem cell transplantation into severe combined immunodeficient pigs. 2019, 26, e12466	12
735	Boiling Histotripsy Ablation of Renal Cell Carcinoma in the Eker Rat Promotes a Systemic Inflammatory Response. 2019 , 45, 137-147	28
734	Acute Inflammation After Traumatic Brain Injury. 2019 , 221-239	1
733	Aberrant accrual of BIN1 near Alzheimer's disease amyloid deposits in transgenic models. 2019 , 29, 485-501	13
73 ²	CCR2 Signaling Selectively Regulates IFN-⊞Role of ∰Arrestin 2 in IFNAR1 Internalization. 2019 , 202, 105-118	7
731	The effect of age, sex and strains on the performance and outcome in animal models of stroke. 2019 , 127, 2-11	17
730	How to make a better mouse for brain behavior and immunity. 2019 , 76, 1-2	4
729	Molecular Mechanisms of Nitric Oxide in Cancer Progression, Signal Transduction, and Metabolism. 2019 , 30, 1124-1143	64
728	The Role of Depressive Subtypes within the Neuroinflammation Hypothesis of Major Depressive Disorder. 2019 , 403, 93-110	65
727	Paths to Successful Translation of New Therapies for Severe Traumatic Brain Injury in the Golden Age of Traumatic Brain Injury Research: A Pittsburgh Vision. 2020 , 37, 2353-2371	15
726	Contributing factors in the development of acute lung injury in a murine double hit model. 2020 , 46, 21-30	7
725	Human pluripotent stem cell-derived models and drug screening in CNS precision medicine. 2020 , 1471, 18-56	31
724	Nutrients and Gene Expression in Cardiovascular Disease. 2020 , 469-481	1
723	Investigation of Cross-Species Scaling Methods for Traumatic Brain Injury Using Finite Element Analysis. 2020 , 37, 410-422	16
722	Testicular organoids to study cell-cell interactions in the mammalian testis. 2020, 8, 835-841	9
721	Applications and considerations for the use of genetically engineered mouse models in drug development. 2020 , 380, 325-340	12
720	Why are vaccines against many human viral diseases still unavailable; an historic perspective?. 2020 , 92, 129-138	15
719	Neutrophil-endothelial interactions of murine cells is not a good predictor of their interactions in human cells. 2020 , 34, 2691-2702	6

(2020-2020)

718	Wound dressings functionalized with silver nanoparticles: promises and pitfalls. 2020, 12, 2268-2291	118
717	Species differences in immune-mediated CNS tissue injury and repair: A (neuro)inflammatory topic. 2020 , 68, 811-829	14
716	Use of Organ Dysfunction as a Primary Outcome Variable Following Cecal Ligation and Puncture: Recommendations for Future Studies. 2020 , 54, 168-182	3
715	Comparison of a Short Versus Long Stokes Shift Near-Infrared Dye During Intraoperative Molecular Imaging. 2020 , 22, 144-155	4
714	Improving natural product research translation: From source to clinical trial. 2020, 34, 41-65	23
713	Different degradation rates of nanofiber vascular grafts in small and large animal models. 2020 , 14, 203-214	12
712	Sepsis: future role of omics in diagnosis and therapy. 2020 , 281-289	Ο
711	Atherosclerosis: Beyond the lipid storage hypothesis. The role of autoimmunity. 2020 , 50, e13195	14
710	Development of Colonic Organoids Containing Enteric Nerves or Blood Vessels from Human Embryonic Stem Cells. 2020 , 9,	5
709	A natural Ala610Val substitution causing glucocorticoid receptor hypersensitivity aggravates consequences of endotoxemia. 2020 , 90, 174-183	4
708	Isolation and Culture of Human-Induced Pluripotent Stem Cell-Derived Cerebral Organoid Cells. 2020 , 1	2
707	Modeling alcohol-induced neurotoxicity using human induced pluripotent stem cell-derived three-dimensional cerebral organoids. 2020 , 10, 347	23
706	The use of 4-Hexylresorcinol as antibiotic adjuvant. 2020 , 15, e0239147	8
705	Functional genomics, genetic risk profiling and cell phenotypes in neurodegenerative disease. 2020 , 146, 105088	O
704	Modelling Neuromuscular Diseases in the Age of Precision Medicine. 2020 , 10,	2
703	The guinea pig model for tick-borne spotted fever rickettsioses: A second look. 2020 , 11, 101538	6
702	Recent progress in translational engineered in vitro models of the central nervous system. 2020 , 143, 3181-3213	26
701	Receptor Activator of Nuclear Factor kappa-B Ligand is Not Regulated During Chronic Osteomyelitis in Pigs. 2020 , 179, 7-24	1

700	Convalescent Blood Products in COVID-19: A Narrative Review. 2020, 7, 2049936120960646	2
699	Bridging the Gap Between Fluid Biomarkers for Alzheimer's Disease, Model Systems, and Patients. 2020 , 12, 272	3
698	Host Tropism and Its Implications for Murine Infection Models. 2020, 21,	6
697	Disease Risk-Associated Genetic Variants in and Function in a Complementary Manner to Increase Pattern-Recognition Receptor-Induced Outcomes in Human Macrophages. 2020 , 205, 1406-1418	2
696	Specific Pathogen-Free Animals for Civilian and Military Trauma: a Cautionary Note in the Translation of New Drug Therapies. 2020 , 54, 232-236	4
695	H3K27ac acetylome signatures reveal the epigenomic reorganization in remodeled non-failing human hearts. 2020 , 12, 106	9
694	Organ-on-a-chip engineering: Toward bridging the gap between lab and industry. 2020 , 14, 041501	31
693	Bioengineered Tissue Models to Study SARS-CoV-2 Pathogenesis and Therapeutic Validation. 2020 , 6, 6540-6555	13
692	Gut-on-chip: Recreating human intestine in vitro. 2020, 11, 2041731420965318	13
691	The need to develop a framework for human-relevant research in India: Towards better disease models and drug discovery. 2020 , 45, 1	1
690	Lipid Mediators in Critically Ill Patients: A Step Towards Precision Medicine. 2020 , 11, 599853	3
689	Salmonella Single-Cell Metabolism and Stress Responses in Complex Host Tissues. 2020 , 167-177	
688	3D scaffold materials for skin cancer modeling. 2020 , 305-328	1
687	Microglia mediated neuroinflammation in autism spectrum disorder. 2020 , 130, 167-176	14
686	Machine Learning Applied to Diagnosis of Human Diseases: A Systematic Review. 2020 , 10, 5135	16
685	Levelling the Translational Gap for Animal to Human Efficacy Data. 2020 , 10,	13
684	The Veterinary Immunological Toolbox: Past, Present, and Future. 2020 , 11, 1651	1
683	Neutrophilic infiltration in organ-on-a-chip model of tissue inflammation. 2020 , 20, 3365-3374	24

(2021-2020)

682	Network and Systems Medicine: Position Paper of the European Collaboration on Science and Technology Action on Open Multiscale Systems Medicine. 2020 , 3, 67-90	10
681	The Gene Expression Profile of Uropathogenic Escherichia coli in Women with Uncomplicated Urinary Tract Infections Is Recapitulated in the Mouse Model. 2020 , 11,	12
680	Can animal models really teach us anything about pneumonia? Con. 2020 , 55,	2
679	Is it Time for Reviewer 3 to Request Human Organ Chip Experiments Instead of Animal Validation Studies?. 2020 , 7, 2002030	79
678	Comparison of mouse, rat and rabbit models for adipose - Derived stem cells (ASC) research. 2020 , 68, 205-210	3
677	Isolation and culture of functional adult human neurons from neurosurgical brain specimens. 2020 , 2, fcaa171	4
676	Strong effects of lab-to-field environmental transitions on the bacterial intestinal microbiota of Mus musculus are modulated by Trichuris murisinfection. 2020 , 96,	8
675	The Future Application of Organ-on-a-Chip Technologies as Proving Grounds for MicroBioRobots. 2020 , 11,	6
674	Matrix levels of metalloproteinase-2 (MMP-2) and toxicity evaluation of carbonate apatite-based endodontic sealer in rat subcutaneous implantation. 2020 , 6, e04330	0
673	Genomic, microbial and environmental standardization in animal experimentation limiting immunological discovery. 2020 , 21, 50	2
672	Induction and characterization of pancreatic cancer in a transgenic pig model. 2020, 15, e0239391	11
671	Are researchers moving away from animal models as a result of poor clinical translation in the field of stroke? An analysis of opinion papers 2020 , 4, e100041	8
670	How Qualification of 3D Disease Models Cuts the Gordian Knot in Preclinical Drug Development. 2021 , 265, 29-56	O
669	CD4 T Follicular Helper Cells Prevent Depletion of Follicular B Cells in Response to Cecal Ligation and Puncture. 2020 , 11, 1946	2
668	A rapid, sensitive, and reproducible in vivo PBMC humanized murine model for determining therapeutic-related cytokine release syndrome. 2020 , 34, 12963-12975	10
667	Sequence diversity analyses of an improved rhesus macaque genome enhance its biomedical utility. 2020 , 370,	28
666	Different experimental multiple trauma models induce comparable inflammation and organ injury. 2020 , 10, 20185	2
665	Organoid-based Models to Study the Role of Host-microbiota Interactions in IBD. 2021 , 15, 1222-1235	9

664	Food Additive Emulsifiers and Their Impact on Gut Microbiome, Permeability, and Inflammation: Mechanistic Insights in Inflammatory Bowel Disease. 2021 , 15, 1068-1079	12
663	The Faster-Onset Antidepressant Effects of Hypidone Hydrochloride (YL-0919) in Monkeys Subjected to Chronic Unpredictable Stress. 2020 , 11, 586879	O
662	CD28 Agonism Improves Survival in Immunologically Experienced Septic Mice via IL-10 Released by Foxp3 Regulatory T Cells. 2020 , 205, 3358-3371	1
661	Special Issue on "Cellular and Molecular Mechanisms Underlying the Pathogenesis of Hepatic Fibrosis". 2020 , 9,	3
660	Iroquois Homeobox Protein 2 Identified as a Potential Biomarker for Parkinson's Disease. 2020 , 21,	1
659	Mental health dished up-the use of iPSC models in neuropsychiatric research. 2020 , 127, 1547-1568	5
658	Comparison of bacterial lipopolysaccharide-induced sickness behavior in rodents and humans: Relevance for symptoms of anxiety and depression. 2020 , 115, 15-24	32
657	CoCoCoNet: conserved and comparative co-expression across a diverse set of species. 2020 , 48, W566-W571	11
656	The Influence of Chronic Liver Diseases on Hepatic Vasculature: A Liver-on-a-chip Review. 2020, 11,	10
655	Effect of Stress on Neuroimmune Processes. 2020 , 42, 1007-1014	13
654	Selective Induction of Human Autonomic Neurons Enables Precise Control of Cardiomyocyte Beating. 2020 , 10, 9464	11
653	Development of novel human in vitro vascularized adipose tissue model with functional macrophages. 2020 , 72, 665-683	2
652	Innate Lymphocyte Th1 and Th17 Responses in Elderly Hospitalised Patients with Infection and Sepsis. 2020 , 8,	2
651	IL23 Promotes Antimicrobial Pathways in Human Macrophages, Which Are Reduced With the IBD-Protective IL23R R381Q Variant. 2020 , 10, 673-697	6
650	Concordance between Thioacetamide-Induced Liver Injury in Rat and Human In Vitro Gene Expression Data. 2020 , 21,	4
650 649		43
-	Expression Data. 2020 , 21,	

(2020-2020)

646	Sepsis therapies: learning from 30 years of failure of translational research to propose new leads. 2020 , 12, e10128	54
645	Engineered tumor models for cancer biology and treatment. 2020 , 423-443	1
644	Robustness testing and optimization of an adverse outcome pathway on cholestatic liver injury. 2020 , 94, 1151-1172	15
643	Swine Disease Models for Optimal Vascular Engineering. 2020 , 22, 25-49	10
642	Acute lung injury: The therapeutic role of Rho kinase inhibitors. 2020, 155, 104736	42
641	Bioinformatics analysis of vascular RNA-seq data revealed hub genes and pathways in a novel Tibetan minipig atherosclerosis model induced by a high fat/cholesterol diet. 2020 , 19, 54	12
640	Evaluation of Mesenchymal Stem Cell Therapy for Sepsis: A Randomized Controlled Porcine Study. 2020 , 11, 126	11
639	Systems biology approaches help to facilitate interpretation of cross-species comparisons. 2020 , 23-24, 74-79	3
638	CD4 T Cell Responses and the Sepsis-Induced Immunoparalysis State. 2020 , 11, 1364	24
637	Correlation and clinical relevance of animal models for inhaled pharmaceuticals and biopharmaceuticals. 2020 , 167, 148-169	7
636	Sustained Increases in Immune Transcripts and Immune Cell Trafficking During the Recovery of Experimental Brain Ischemia. 2020 , 51, 2514-2525	5
635	Association between sepsis at ICU admission and mortality in patients with ICU-acquired pneumonia: An infectious second-hit model. 2020 , 59, 207-214	1
634	Mouse Systems Genetics as a Prelude to Precision Medicine. 2020 , 36, 259-272	15
633	Using human induced pluripotent stem cells (hiPSCs) to investigate the mechanisms by which Apolipoprotein E (APOE) contributes to Alzheimer's disease (AD) risk. 2020 , 138, 104788	11
632	Inflamed synovial fluid induces a homeostatic response in bone marrow mononuclear cells in vitro: Implications for joint therapy. 2020 , 34, 4430-4444	7
631	Cortisol inhibits the Escherichia coli-induced endometrial inflammatory response through NF- B and MAPK pathways in postpartum goats. 2020 , 215, 106333	2
630	Microfluidic skin chip with vasculature for recapitulating the immune response of the skin tissue. 2020 , 117, 1853-1863	26
629	Oncoprotein GT198 vaccination delays tumor growth in MMTV-PyMT mice. 2020 , 476, 57-66	5

628	Metabolism-based drug discovery in zebrafish: An emerging strategy to uncover new anti-seizure therapies. 2020 , 167, 107988	4
627	Engineering Microphysiological Immune System Responses on Chips. 2020 , 38, 857-872	25
626	Complex human adenoid tissue-based ex vivo culture systems reveal anti-inflammatory drug effects on germinal center T and B cells. 2020 , 53, 102684	4
625	Restricted immunological and cellular pathways are shared by murine models of chronic alcohol consumption. 2020 , 10, 2451	4
624	Data Driven Analysis Reveals Shared Transcriptome Response, Immune Cell Composition, and Distinct Mortality Rates Across Differing Etiologies of Critical Illness. 2020 , 48, 338-343	6
623	Translating preclinical models to humans. 2020 , 367, 742-743	28
622	Burn injury. 2020 , 6, 11	147
621	Effects of improved water, sanitation, and hygiene and improved complementary feeding on environmental enteric dysfunction in children in rural Zimbabwe: A´cluster-randomized controlled trial. 2020 , 14, e0007963	8
620	Genetically Engineered Pigs to Study Cancer. 2020 , 21,	20
619	[Use of 2D and 3D cell cultures in dermatology]. 2020 , 71, 91-100	
618	Vascularized Microfluidics and the Blood-Endothelium Interface. 2019 , 11,	14
617	The inflammatory response to bone infection - a review based on animal models and human patients. 2020 , 128, 275-286	12
616	Can animal models really teach us anything about pneumonia? Pro. 2020 , 55,	2
615	New Evidence and Insights on Dalbavancin and Wound Healing in a Mouse Model of Skin Infection. 2020 , 64,	7
614	Initiating factors for the onset of OA: A systematic review of animal bone and cartilage pathology in OA. 2020 , 38, 1810-1818	2
613	Of mice, men and microbes: the impact of the microbiome on immune responses. 2020 , 79, 167-169	
612	Human in vitro systems for examining synaptic function and plasticity in the brain. 2020 , 123, 945-965	3
611	Association between serum concentrations of perfluoroalkyl substances (PFAS) and expression of serum microRNAs in a cohort highly exposed to PFAS from drinking water. 2020 , 136, 105446	26

(2021-2020)

610	Metallic Nanoparticle-Based Optical Cell Chip for Nondestructive Monitoring of Intra/Extracellular Signals. 2020 , 12,	1
609	Longitudinal patterns of cytokine expression at the individual level in humans after laparoscopic sleeve gastrectomy. 2020 , 24, 6622-6633	2
608	Pregnancy has a minimal impact on the acute transcriptional signature to vaccination. 2020 , 5, 29	4
607	Leveraging preclinical models for the development of Alzheimer disease therapeutics. 2020 , 19, 447-462	37
606	Cell-type-resolved proteomic analysis of the human liver. 2020 , 40, 1770-1780	13
605	Biophysical Techniques for Target Validation and Drug Discovery in Transcription-Targeted Therapy. 2020 , 21,	5
604	The study and manipulation of spermatogonial stem cells using animal models. 2020, 380, 393-414	13
603	Early Postoperative Use of Diuretics After Kidney Transplantation Showed Increase in Delayed Graft Function. 2020 , 30, 95-102	1
602	The domesticated buffalo - An emerging model for experimental and therapeutic use of extraembryonic tissues. 2020 , 151, 95-102	7
601	The limitations of using the NTP chronic bioassay on vanadium pentoxide in risk assessments. 2020 , 113, 104650	1
600	Interfacing human induced pluripotent stem cell-derived neurons with designed nanowire arrays as a future platform for medical applications. 2020 , 8, 2434-2446	12
599	Hyperprogression Under Immune Checkpoint-Based Immunotherapy-Current Understanding, The Role of PD-1/PD-L1 Tumour-Intrinsic Signalling, Future Directions and a Potential Large Animal Model. 2020 , 12,	10
598	Ten Unsolved Questions About Neuroinflammation in Parkinson's Disease. 2021 , 36, 16-24	60
597	Commensal to Pathogen Transition of Candida albicans. 2021 , 507-525	О
596	Consequences of maternal psychological stress during pregnancy for the risk of asthma in the offspring. 2021 , 93, e12919	5
595	Primary hepatocyte cultures for liver disease modeling. 2021 , 25, 1-5	2
594	The Nuclear Factor Kappa B (NF-kB) signaling in cancer development and immune diseases. 2021 , 8, 287-297	36
593	Identifying novel B-cell targets for chronic inflammatory autoimmune disease by screening of chemical probes in a patient-derived cell assay. 2021 , 229, 69-82	O

592	Preclinical models for studying immune responses to traumatic injury. 2021 , 162, 377-388	4
591	Bacterial chatter in chronic wound infections. 2021 , 29, 106-116	3
590	An update on endotoxin neutralization strategies in Gram-negative bacterial infections. 2021 , 19, 495-517	2
589	Recent advances in microfluidic technology and applications for anti-cancer drug screening. 2021 , 134, 116118	9
588	Transcriptomic responses from improved murine sepsis models can better mimic human surgical sepsis. 2021 , 35, e21156	2
587	The equine mononuclear phagocyte system: The relevance of the horse as a model for understanding human innate immunity. 2021 , 53, 231-249	3
586	Phenotypic evaluation of a childhood-onset parkinsonism-dystonia mouse model with inherent postural abnormalities. 2021 , 166, 54-63	1
585	A novel transillumination meibography device for in vivo imaging of mouse meibomian glands. 2021 , 19, 201-209	1
584	Polymorphisms and alterations in gene expression associated with rotator cuff tear and healing following surgical repair: a systematic review. 2021 , 30, 200-215	1
583	Organs-on-chips: into the next decade. 2021 , 20, 345-361	193
583 582	Organs-on-chips: into the next decade. 2021 , 20, 345-361 Comparison of response to LPS-induced sepsis in three DBA/2 stocks derived from different sources. 2021 , 37, 2	193
	Comparison of response to LPS-induced sepsis in three DBA/2 stocks derived from different	
582	Comparison of response to LPS-induced sepsis in three DBA/2 stocks derived from different sources. 2021 , 37, 2 Can Exercise-Induced Muscle Damage Be a Good Model for the Investigation of the	5
582 581	Comparison of response to LPS-induced sepsis in three DBA/2 stocks derived from different sources. 2021, 37, 2 Can Exercise-Induced Muscle Damage Be a Good Model for the Investigation of the Anti-Inflammatory Properties of Diet in Humans?. 2021, 9, Dirty Fish Versus Squeaky Clean Mice: Dissecting Interspecies Differences Between Animal Models	5
582 581 580	Comparison of response to LPS-induced sepsis in three DBA/2 stocks derived from different sources. 2021, 37, 2 Can Exercise-Induced Muscle Damage Be a Good Model for the Investigation of the Anti-Inflammatory Properties of Diet in Humans?. 2021, 9, Dirty Fish Versus Squeaky Clean Mice: Dissecting Interspecies Differences Between Animal Models of Interferonopathy. 2020, 11, 623650	5 4 0
582 581 580	Comparison of response to LPS-induced sepsis in three DBA/2 stocks derived from different sources. 2021, 37, 2 Can Exercise-Induced Muscle Damage Be a Good Model for the Investigation of the Anti-Inflammatory Properties of Diet in Humans?. 2021, 9, Dirty Fish Versus Squeaky Clean Mice: Dissecting Interspecies Differences Between Animal Models of Interferonopathy. 2020, 11, 623650 Cell Sources for Human In vitro Bone Models. 2021, 19, 88-100	5 4 0
582 581 580 579	Comparison of response to LPS-induced sepsis in three DBA/2 stocks derived from different sources. 2021, 37, 2 Can Exercise-Induced Muscle Damage Be a Good Model for the Investigation of the Anti-Inflammatory Properties of Diet in Humans?. 2021, 9, Dirty Fish Versus Squeaky Clean Mice: Dissecting Interspecies Differences Between Animal Models of Interferonopathy. 2020, 11, 623650 Cell Sources for Human In vitro Bone Models. 2021, 19, 88-100 A Multi-omics Data Resource for Frontotemporal Dementia Research. 2021, 1281, 269-282 A road map from single-cell transcriptome to patient classification for the immune response to	5 4 0

574	Prenatal Stress and Child Health: Immune Models and Mechanisms. 2021, 131-163	0
573	Porcine pancreatic ductal epithelial cells transformed with KRASG12D and SV40T are tumorigenic.	1
572	Cecal Slurry Injection in Neonatal and Adult Mice. 2021 , 2321, 27-41	О
571	Devices and techniques used to obtain and analyze three-dimensional cell cultures. 2021 , 37, e3126	3
570	Development of Coronavirus Treatments Using Neutralizing Antibodies. 2021, 9,	3
569	Conserved regulatory logic at accessible and inaccessible chromatin during the acute inflammatory response in mammals. 2021 , 12, 567	5
568	Immunomodulation by cannabinoids: Current uses, mechanisms, and identification of data gaps to be addressed for additional therapeutic application. 2021 , 91, 1-59	Ο
567	Drivers of Infectious Disease Seasonality: Potential Implications for COVID-19. 2021 , 36, 35-54	21
566	The lipid biology of sepsis. 2021 , 62, 100090	5
565	The evaluation of pituitary damage associated with cardiac arrest: An experimental rodent model. 2021 , 11, 629	2
564	Hemorrhagic Shock Induces a Rapid Transcriptomic Shift of the Immune Balance in Leukocytes after Experimental Multiple Injury. 2021 , 2021, 6654318	1
563	Creation of BLT Humanized Mice for Sepsis Studies. 2021 , 2321, 137-154	1
562	Effects of radiation on endothelial barrier and vascular integrity. 2021, 43-94	1
561	Proteomic Portraits Reveal Evolutionarily Conserved and Divergent Responses to Spinal Cord Injury. 2021 , 20, 100096	4
560	3D printing equipment in medicine. 2021 , 223-261	
559	Alpha-1 antitrypsin deficiency and recombinant protein sources with focus on plant sources: Updates, challenges and perspectives. 2021 , 163, 10-30	5
558	Toward Developing Immunocompetent Diabetic Foot Ulcer-on-a-Chip Models for Drug Testing. 2021 , 27, 77-88	4
557	A physiological model of the inflammatory-thermal-pain-cardiovascular interactions during an endotoxin challenge. 2021 , 599, 1459-1485	4

556	Nutrition and Rheumatoid Arthritis in the 'Omics' Era. 2021 , 13,	9
555	The Role of Organoids as a Novel Platform for Modeling of Inflammatory Bowel Disease. 2021 , 9, 624045	1
554	Overcoming biological barriers to improve solid tumor immunotherapy. 2021 , 11, 2276-2301	4
553	Schistosome Infection and Schistosome-Derived Products as Modulators for the Prevention and Alleviation of Immunological Disorders. 2021 , 12, 619776	3
552	Human pathways in animal models: possibilities and limitations. 2021 , 49, 1859-1871	7
551	A review on the biological effects of nanomaterials on silkworm (). 2021 , 12, 190-202	4
550	Systematic Review of the Preclinical Technology Readiness of Orthopedic Gene Therapy and Outlook for Clinical Translation. 2021 , 9, 626315	0
549	Effects of Post-Resuscitation Normoxic Therapy on Oxygen-Sensitive Oxidative Stress in a Rat Model of Cardiac Arrest. 2021 , 10, e018773	3
548	Long non-coding RNAs: A double-edged sword in aging kidney and renal disease. 2021 , 337, 109396	5
547	Selective time-dependent changes in activity and cell-specific gene expression in human postmortem brain. 2021 , 11, 6078	9
546	Macrophage phenotypes in tissue repair and the foreign body response: Implications for biomaterial-based regenerative medicine strategies. 2021 , 133, 4-16	33
545	Genomics-driven drug discovery based on disease-susceptibility genes. 2021 , 41, 8	1
544	Genes, Environments, and Phenotypic Plasticity in Immunology. 2021 , 42, 198-208	3
543	Implant-associated osteomyelitis: Development, characterisation, and application of a porcine model. 2021 , 129 Suppl 141, 1-44	1
542	The Gut Microbiome in Hypertension: Recent Advances and Future Perspectives. 2021 , 128, 934-950	15
541	Taurine Alleviates Sympathetic Innervation by Inhibiting NLRP3 Inflammasome in Postinfarcted Rats. 2021 , 77, 745-755	2
540	Translational value of non-human primates in opioid research. 2021 , 338, 113602	4
539	Transarterial Embolization of Liver Cancer in a Transgenic Pig Model. 2021 , 32, 510-517.e3	4

538	Physiology of Cultured Human Microglia Maintained in a Defined Culture Medium. 2021 , 5, 257-272	1
537	Targeting Toll-Like Receptors in Sepsis: From Bench to Clinical Trials. 2021 , 35, 1324-1339	5
536	A double-edged sword: antibody-mediated procoagulant platelets in COVID-19. 2021 , 32, 579-581	2
535	Lipid and Lipoprotein Dysregulation in Sepsis: Clinical and Mechanistic Insights into Chronic Critical Illness. 2021 , 10,	5
534	Gene Expression-Based Diagnosis of Infections in Critically Ill Patients-Prospective Validation of the SepsisMetaScore in a Longitudinal Severe Trauma Cohort. 2021 , 49, e751-e760	3
533	Epistemology and the Ethics of Animal Experimentation. 2021 , 67-96	
532	In Vitro Liver Toxicity Testing of Chemicals: A Pragmatic Approach. 2021 , 22,	6
531	Preclinical models and technologies to advance nanovaccine development. 2021 , 172, 148-182	3
530	Bioinspired in vitro microenvironments to control cell fate: focus on macromolecular crowding. 2021 , 320, C842-C849	3
529	Biomedical Research Must Change - But a Shift Toward Human-specific Research Methods Is Only Part of What Is Needed. 2021 , 49, 69-72	1
528	Recent developments in and models for improved translation of preclinical pharmacokinetics and pharmacodynamics data. 2021 , 53, 207-233	3
527	Species variations in tenocytes' response to inflammation require careful selection of animal models for tendon research.	
526	Anti-PD-L1 therapy does not improve survival in a murine model of lethal Staphyloccocus aureus pneumonia. 2021 ,	1
525	Comparative transcriptomic analysis reveals translationally relevant processes in mouse models of malaria.	
524	Recombinant Inbred Mice as Models for Experimental Precision Medicine and Biology.	1
523	Biofabrication of vasculature in microphysiological models of bone. 2021 , 13,	5
522	NMR-based serum and urine metabolomic profile reveals suppression of mitochondrial pathways in experimental sepsis-associated acute kidney injury. 2021 , 320, F984-F1000	2
521	Intra-Abdominal Lipopolysaccharide Clearance and Inactivation in Peritonitis: Key Roles for Lipoproteins and the Phospholipid Transfer Protein. 2021 , 12, 622935	4

520	Human adipose tissue-derived mesenchymal stem cells and their extracellular vesicles modulate lipopolysaccharide activated human microglia. 2021 , 7, 98	2
519	A Hybrid In Silico and Tumor-on-a-Chip Approach to Model Targeted Protein Behavior in 3D Microenvironments. 2021 , 13,	2
518	Design Challenges in Polymeric Scaffolds for Tissue Engineering. 2021 , 9, 617141	15
517	Porcine models of acute kidney injury. 2021 , 320, F1030-F1044	2
516	Acute Effects on the Human Peripheral Blood Transcriptome of Decompression Sickness Secondary to Scuba Diving. 2021 , 12, 660402	3
515	Acute systemic inflammation exacerbates neuroinflammation in Alzheimer's disease: IL-1聞rives amplified responses in primed astrocytes and neuronal network dysfunction. 2021 , 17, 1735-1755	15
514	Microphysiological system with continuous analysis of albumin for hepatotoxicity modeling and drug screening. 2021 , 98, 318-326	4
513	Genome editing to define the function of risk loci and variants in rheumatic disease. 2021 , 17, 462-474	3
512	Tumor-on-a-chip: from bioinspired design to biomedical application. 2021 , 7, 50	22
511	Species variations in 'tenocytes' response to inflammation require careful selection of animal models for tendon research. 2021 , 11, 12451	4
510	Porcine pancreatic ductal epithelial cells transformed with KRAS and SV40T are tumorigenic. 2021 , 11, 13436	1
509	B Cells in Atherosclerosis: Mechanisms and Potential Clinical Applications. 2021 , 6, 546-563	12
508	N-acetylcysteine is more effective than ellagic acid in preventing acrolein induced dysfunction in mitochondria isolated from rat liver. 2021 , 45, e13775	2
507	The future of basic science in orthopaedics and traumatology: Cassandra or Prometheus?. 2021 , 26, 56	1
506	White Matter Tract-Oriented Deformation Is Dependent on Real-Time Axonal Fiber Orientation. 2021 , 38, 1730-1745	9
505	Targeting Trained Innate Immunity With Nanobiologics to Treat Cardiovascular Disease. 2021 , 41, 1839-1850	1
504	Recent Approaches to Targeting Canonical NFB Signaling in the Early Inflammatory Response to Renal IRI. 2021 , 32, 2117-2124	4
503	The Mammalian Metaorganism: A Holistic View on How Microbes of All Kingdoms and Niches Shape Local and Systemic Immunity. 2021 , 12, 702378	2

502	Therapeutic siRNAs targeting JAK/STAT signalling pathway in inflammatory bowel diseases. 2021,	1
501	New horizons in early drugs development in solid cancers. 2021 , 33, 513-519	О
500	A semisynthetic glycoconjugate provides expanded cross-serotype protection against Streptococcus pneumoniae.	
499	The Microbiota-Gut-Brain Axis in Health and Disease and Its Implications for Translational Research. 2021 , 15, 698172	6
498	Vaccine Research and Development: The Past, Present and Future, Including Novel Therapeutic Strategies. 2021 , 12, 705360	12
497	Emerging Approaches to Understanding Microvascular Endothelial Heterogeneity: A Roadmap for Developing Anti-Inflammatory Therapeutics. 2021 , 22,	3
496	Limited Expansion of Human Hepatocytes in FAH/-Deficient Swine. 2021,	1
495	Modulation of HMGB1 Release in APAP-Induced Liver Injury: A Possible Strategy of Chikusetsusaponin V Targeting NETs Formation. 2021 , 12, 723881	2
494	Dirty mice join the immunologist's toolkit. 2021 , 23, 104817	1
493	Artificial Taste Buds: Bioorthogonally Ligated Gustatory-Neuronal Multicellular Hybrids Enabling Intercellular Taste Signal Transmission. 2021 , 7, 3783-3792	Ο
492	New insights into the microbiota of wild mice. 2021 , 32, 311-318	O
491	High-throughput human primary cell-based airway model for evaluating influenza, coronavirus, or other respiratory viruses in vitro. 2021 , 11, 14961	9
490	Leveraging the Mendelian disorders of the epigenetic machinery to systematically map functional epigenetic variation. 2021 , 10,	0
489	Immunomodulatory Biomaterials for Tissue Repair. 2021 , 121, 11305-11335	16
488	A wild approach to obesity prevention. 2021 , 3, 1038-1039	
487	High-Throughput Screening of Mouse Gene Knockouts Identifies Established and Novel High Body Fat Phenotypes. 2021 , 14, 3753-3785	3
486	Modeling Western Pacific Amyotrophic Lateral Sclerosis and Parkinsonism mementia Complex with Microglia Containing Cerebral Organoids Derived from Induced Pluripotent Stem Cells.	О
485	On the road to the brain-on-a-chip: a review on strategies, methods, and applications. 2021 , 18,	9

484	Cytokines profile in neonatal and adult wild-type mice post-injection of U. S. pediatric vaccination schedule. 2021 , 15, 100267	
483	Making mechanistic sense: are we teaching students what they need to know?. 2021 , 476, 308-313	
482	Conjugates of human serum butyrylcholinesterase and nerve agents are behaviorally safe in rhesus macaques. 2021 , 344, 109499	
481	Plasma extracellular vesicles released after severe burn injury modulate macrophage phenotype and function. 2021 ,	3
480	Reductions in Cardiac Structure and Function 24 Months After Spinal Cord Injury: A Cross-Sectional Study. 2021 , 102, 1490-1498	2
479	A Critical Review of the Evidence That Metformin Is a Putative Anti-Aging Drug That Enhances Healthspan and Extends Lifespan. 2021 , 12, 718942	17
478	Tenascin-C expression in the lymph node pre-metastatic niche in muscle-invasive bladder cancer. 2021 , 125, 1399-1407	2
477	CNS-Spleen Axis - a Close Interplay in Mediating Inflammatory Responses in Burn Patients and a Key to Novel Burn Therapeutics. 2021 , 12, 720221	O
476	Parallel Murine and Human Aortic Wall Genomics Reveals Metabolic Reprogramming as Key Driver of Abdominal Aortic Aneurysm Progression. 2021 , 10, e020231	1
475	Improving rigor and reproducibility in nonhuman primate research. 2021 , 83, e23331	4
474	Epigenetic clock and methylation studies in vervet monkeys. 2021, 1	5
473	Atherothrombotic factors and atherosclerotic cardiovascular events: the multi-ethnic study of atherosclerosis. 2021 ,	5
472	Ubiquitination of ATF6 by disease-associated RNF186 promotes the innate receptor-induced unfolded protein response. 2021 , 131,	4
471	Dietary Sphingomyelin Metabolism and Roles in Gut Health and Cognitive Development. 2021 ,	1
47 ¹	Dietary Sphingomyelin Metabolism and Roles in Gut Health and Cognitive Development. 2021, Inflammation Induces Changes in the Functional Expression of P-gp, BCRP, and MRP2: An Overview of Different Models and Consequences for Drug Disposition. 2021, 13,	1
	Inflammation Induces Changes in the Functional Expression of P-gp, BCRP, and MRP2: An Overview	
47°	Inflammation Induces Changes in the Functional Expression of P-gp, BCRP, and MRP2: An Overview of Different Models and Consequences for Drug Disposition. 2021 , 13, Relevance of organ(s)-on-a-chip systems to the investigation of food-gut microbiota-host	1

466	Versatile membrane-based microfluidic platform for in vitro drug diffusion testing mimicking in vivo environments. 2022 , 39, 102462	0
465	Effect of Subject-Specific, Spatially Reduced, and Idealized Boundary Conditions on the Predicted Hemodynamic Environment in the Murine Aorta. 2021 , 1	Ο
464	Synthetic amyloid beta does not induce a robust transcriptional response in innate immune cell culture systems.	
463	Advanced human-relevant in vitro pulmonary platforms for respiratory therapeutics. 2021 , 176, 113901	9
462	Host-informed therapies for the treatment of pneumococcal pneumonia. 2021 , 27, 971-989	2
461	Genome editing in large animal models. 2021 , 29, 3140-3152	2
460	Enhancers of host immune tolerance to bacterial infection discovered using linked computational and experimental approaches.	О
459	Preclinical and clinical toxicity of immuno-oncology therapies and mitigation strategies. 2022 , 499-513	
458	CDX2-Induced Intestinal Metaplasia in Human Gastric Organoids Derived from Induced Pluripotent Stem Cells.	
457	Human ex vivo lung perfusion: a novel model to study human lung diseases. 2021 , 11, 490	7
457 456	Human ex vivo lung perfusion: a novel model to study human lung diseases. 2021 , 11, 490 Evaluating safety and toxicity. 2021 , 119-137	2
456	Evaluating safety and toxicity. 2021 , 119-137	2
456 455	Evaluating safety and toxicity. 2021, 119-137 Proteomic portraits reveal evolutionarily conserved and divergent responses to spinal cord injury.	2
456 455 454	Evaluating safety and toxicity. 2021, 119-137 Proteomic portraits reveal evolutionarily conserved and divergent responses to spinal cord injury. Human Pulmonary 3D Models For Translational Research. 2018, 13, 1700341 Short and long TNF-alpha exposure recapitulates canonical astrogliosis events in human-induced	2 1 29
456 455 454 453	Evaluating safety and toxicity. 2021, 119-137 Proteomic portraits reveal evolutionarily conserved and divergent responses to spinal cord injury. Human Pulmonary 3D Models For Translational Research. 2018, 13, 1700341 Short and long TNF-alpha exposure recapitulates canonical astrogliosis events in human-induced pluripotent stem cells-derived astrocytes. 2020, 68, 1396-1409 Contemporary Issues in Regenerative Medicine Research Ethics and Governance: An Overview.	2 1 29
456 455 454 453 452	Evaluating safety and toxicity. 2021, 119-137 Proteomic portraits reveal evolutionarily conserved and divergent responses to spinal cord injury. Human Pulmonary 3D Models For Translational Research. 2018, 13, 1700341 Short and long TNF-alpha exposure recapitulates canonical astrogliosis events in human-induced pluripotent stem cells-derived astrocytes. 2020, 68, 1396-1409 Contemporary Issues in Regenerative Medicine Research Ethics and Governance: An Overview. 2014, 3-28 Immunodeficient mouse model for human hematopoietic stem cell engraftment and immune	2 1 29 17

448	Mouse models of liver cancer. 2015 , 1267, 165-83	28
447	Systems Medicine for Lung Diseases: Phenotypes and Precision Medicine in Cancer, Infection, and Allergy. 2016 , 1386, 119-33	3
446	Mouse Injury Model of Polytrauma and Shock. 2018 , 1717, 1-15	6
445	Experimental Human Endotoxemia, Sickness Behavior, and Neuropsychiatric Diseases. 2015 , 63-82	2
444	Osteoporosis and Mechanisms of Skeletal Aging. 2016 , 277-307	2
443	Animal Models of Trauma Induced Coagulopathy. 2016 , 545-565	2
442	Bridging the Translational Gap: The Challenges of Novel Drug Development in Critical Care. 2017, 375-388	1
441	Genetically Engineered Large Animals in Biomedicine. 2018 , 169-214	1
440	Brain-on-a-Chip Device for Modeling Multiregional Networks. 2021 , 7, 350-359	6
439	Improving the prediction of organism-level toxicity through integration of chemical, protein target and cytotoxicity qHTS data. 2016 , 5, 883-894	7
438	Rethinking animal models of sepsis - working towards improved clinical translation whilst integrating the 3Rs. 2020 , 134, 1715-1734	5
437	Animals in Scientific Research. 2017 , 389-413	3
436	Role of MALDI-MSI in combination with 3D tissue models for early stage efficacy and safety testing of drugs and toxicants. 2020 , 17, 827-841	2
435	Single versus combined immunoregulatory approach using PD-1 and CTLA-4 modulators in controlling sepsis. 2017 , 13, 907-919	8
434	Dexmedetomidine Exerts an Anti-inflammatory Effect via 2 Adrenoceptors to Prevent Lipopolysaccharide-induced Cognitive Decline in Mice. 2020 , 133, 393-407	11
433	Modeling Acute Traumatic Hemorrhagic Shock Injury: Challenges and Guidelines for Preclinical Studies. 2017 , 48, 610-623	16
432	An ex vivo lung model to study bronchioles infected with Pseudomonas aeruginosa biofilms. 2016 , 162, 1755-1760	28
431	Mortality prediction in sepsis via gene expression analysis: a community approach.	1

430	Consideration of genetic and sex effects in mice enhances consilience with human addiction studies.	3
429	Single-cell RNA sequencing deconvolutes the in vivo heterogeneity of human bone marrow-derived mesenchymal stem cells.	5
428	High-Throughput Human Primary Cell-Based Airway Model for Evaluating Influenza, Coronavirus, or other Respiratory Viruses in vitro.	4
427	Orthotopic Transplantation and Engraftment of Human Induced Pluripotent Stem Cell-Derived Alveolar Progenitor Cells into Murine Lungs.	O
426	White matter tract-oriented deformation is dependent on real-time axonal fiber orientation.	1
425	Epigenetic clock and methylation studies in vervet monkeys.	7
424	Effect of vitamin D supplementation on biomarkers of inflammation and immune function: functional genomics analysis of the BEST-D trial.	1
423	Generation of tumorigenic porcine pancreatic ductal epithelial cells: toward a large animal model of pancreatic cancer.	4
422	Macrophage-Dependent Trafficking and Remodeling of the Basement Membrane-Interstitial Matrix Interface.	3
421	Genetic discovery and translational decision support from exome sequencing of 20,791 type 2 diabetes cases and 24,440 controls from five ancestries.	2
420	Discordant gene responses to radiation in humans and mice: hematopoietically humanized mice may save the day for radiation biomarker identification.	1
419	A comprehensive atlas of immunological differences between humans, mice and non-human primates.	23
418	Short and long TNF-alpha exposure recapitulates canonical astrogliosis events in human induced pluripotent stem cells-derived astrocytes.	1
417	Lymphoid follicle formation and human vaccination responses recapitulated in an organ-on-a-chip.	7
416	NF- B /MAPK activation underlies ACVR1-mediated inflammation in human heterotopic ossification. 2018 , 3,	27
415	IsdB antibody-mediated sepsis following S. aureus surgical site infection. 2020 , 5,	9
414	Induced regulatory T cells in allograft tolerance via transient mixed chimerism. 2016, 1,	26
413	Bcl-2-associated athanogene 3 protects the heart from ischemia/reperfusion injury. 2016 , 1, e90931	32

412	Murine models of Pneumocystis infection recapitulate human primary immune disorders. 2018, 3,	9
411	Mitochondrial fidelity and metabolic agility control immune cell fate and function. 2018 , 128, 3651-3661	16
410	Human islets expressing HNF1A variant have defective ⊯ell transcriptional regulatory networks. 2019 , 129, 246-251	40
409	Therapeutic translation in acute kidney injury: the epithelial/endothelial axis. 2014, 124, 2355-63	146
408	p21 mediates macrophage reprogramming through regulation of p50-p50 NF- B and IFN- ₽2016 , 126, 3089-103	50
407	An inflammatory bowel disease-risk variant in INAVA decreases pattern recognition receptor-induced outcomes. 2017 , 127, 2192-2205	15
406	Peptidoglycan induces disseminated intravascular coagulation in baboons through activation of both coagulation pathways. 2018 , 132, 849-860	18
405	Toxicology. 2015 , 434-457	4
404	Time course of dementia following sepsis in German health claims data. 2021, 8,	4
403	Meta-analysis of crowdsourced data compendia suggests pan-disease transcriptional signatures of autoimmunity. 2016 , 5, 2884	5
402	Fatty acids from diet and microbiota regulate energy metabolism. 2015 , 4, 738	23
401	Differentiation of burn wounds in an porcine model using terahertz spectroscopy. 2020 , 11, 6528-6535	11
400	A Neutrophil Phenotype Model for Extracorporeal Treatment of Sepsis. 2015, 11, e1004314	8
399	Coordinating Role of RXR I n Downregulating Hepatic Detoxification during Inflammation Revealed by Fuzzy-Logic Modeling. 2016 , 12, e1004431	20
398	Predicted Molecular Effects of Sequence Variants Link to System Level of Disease. 2016 , 12, e1005047	13
397	IL33-mediated ILC2 activation and neutrophil IL5 production in the lung response after severe trauma: A reverse translation study from a human cohort to a mouse trauma model. 2017 , 14, e1002365	59
396	Single nucleotide polymorphisms in pathogen recognition receptor genes are associated with susceptibility to meningococcal meningitis in a pediatric cohort. 2013 , 8, e64252	24
395	A synthetic model of human beta-thalassemia erythropoiesis using CD34+ cells from healthy adult donors. 2013 , 8, e68307	6

394	A systematic analysis of the peripheral and CNS effects of systemic LPS, IL-1⊯[corrected] TNF-⊞ and IL-6 challenges in C57BL/6 mice. 2013 , 8, e69123	147
393	The endogenous Th17 response in NO2-promoted allergic airway disease is dispensable for airway hyperresponsiveness and distinct from Th17 adoptive transfer. 2013 , 8, e74730	17
392	Human NK cell subset functions are differentially affected by adipokines. 2013, 8, e75703	23
391	Intestinal DMBT1 expression is modulated by Crohn's disease-associated IL23R variants and by a DMBT1 variant which influences binding of the transcription factors CREB1 and ATF-2. 2013 , 8, e77773	18
390	FBXW7 mutations in patients with advanced cancers: clinical and molecular characteristics and outcomes with mTOR inhibitors. 2014 , 9, e89388	42
389	Sham surgery and inter-individual heterogeneity are major determinants of monocyte subset kinetics in a mouse model of myocardial infarction. 2014 , 9, e98456	9
388	Interacting chemokine signals regulate dendritic cells in acute brain injury. 2014, 9, e104754	23
387	A preclinical physiological assay to test modulation of knee joint pain in the spinal cord: effects of oxycodone and naproxen. 2014 , 9, e106108	9
386	Integrin 日 理 (CD11d/CD18) is expressed by human circulating and tissue myeloid leukocytes and mediates inflammatory signaling. 2014 , 9, e112770	21
385	Evidence-based translation for the genomic responses of murine models for the study of human immunity. 2015 , 10, e0118017	6
384	Significant in vivo anti-inflammatory activity of Pytren4Q-Mn a superoxide dismutase 2 (SOD2) mimetic scorpiand-like Mn (II) complex. 2015 , 10, e0119102	14
383	Sepsis induces specific changes in histone modification patterns in human monocytes. 2015 , 10, e0121748	28
382	Lung Transcriptomics during Protective Ventilatory Support in Sepsis-Induced Acute Lung Injury. 2015 , 10, e0132296	18
381	Network Modules of the Cross-Species Genotype-Phenotype Map Reflect the Clinical Severity of Human Diseases. 2015 , 10, e0136300	5
380	Decreased Risk of Ventilator-Associated Pneumonia in Sepsis Due to Intra-Abdominal Infection. 2015 , 10, e0137262	2
379	Comparison of Gene Expression by Sheep and Human Blood Stimulated with the TLR4 Agonists Lipopolysaccharide and Monophosphoryl Lipid A. 2015 , 10, e0144345	16
378	A Systematic Study of the Effect of Different Molecular Weights of Hyaluronic Acid on Mesenchymal Stromal Cell-Mediated Immunomodulation. 2016 , 11, e0147868	22
377	Th17 Pathway As a Target for Multipotent Stromal Cell Therapy in Dogs: Implications for Translational Research. 2016 , 11, e0148568	15

376	Characterization of Cells Isolated from Genetic and Trauma-Induced Heterotopic Ossification. 2016 , 11, e0156253	14
375	Shorter Duration of Post-Operative Antibiotics for Cecal Ligation and Puncture Does Not Increase Inflammation or Mortality. 2016 , 11, e0163005	11
374	A Non-Human Primate Model of Severe Pneumococcal Pneumonia. 2016 , 11, e0166092	29
373	Novel Analysis of Immune Cells from Nasal Microbiopsy Demonstrates Reliable, Reproducible Data for Immune Populations, and Superior Cytokine Detection Compared to Nasal Wash. 2017 , 12, e0169805	34
372	Cystatin F is a biomarker of prion pathogenesis in mice. 2017 , 12, e0171923	12
371	Human platelet interaction with E. coli O111 promotes tissue-factor-dependent procoagulant activity, involving Toll like receptor 4. 2017 , 12, e0185431	14
370	A comprehensive assessment of multi-system responses to a renal inoculation of uropathogenic E. coli in swine. 2020 , 15, e0243577	1
369	Pathways of Toxicity. 2014 , 31, 53-61	59
368	State-of-the-art of 3D cultures (organs-on-a-chip) in safety testing and pathophysiology. 2014 , 31, 441-477	67
367	Look back in anger - what clinical studies tell us about preclinical work. 2013 , 30, 275-91	122
J-1		
366	Histopathological assessment of calcification and inflammation of calcific aortic valves from patients with and without diabetes mellitus. 2017 , 32, 293-306	18
	Histopathological assessment of calcification and inflammation of calcific aortic valves from	
366	Histopathological assessment of calcification and inflammation of calcific aortic valves from patients with and without diabetes mellitus. 2017 , 32, 293-306	18
366 365	Histopathological assessment of calcification and inflammation of calcific aortic valves from patients with and without diabetes mellitus. 2017 , 32, 293-306 Sepsis Diagnostics in the Era of "Omics" Technologies. 2018 , 119, 9-29 Cockayne Syndrome: The many challenges and approaches to understand a multifaceted disease.	18
366 365 364	Histopathological assessment of calcification and inflammation of calcific aortic valves from patients with and without diabetes mellitus. 2017, 32, 293-306 Sepsis Diagnostics in the Era of "Omics" Technologies. 2018, 119, 9-29 Cockayne Syndrome: The many challenges and approaches to understand a multifaceted disease. 2020, 43, e20190085	18 7 16
366 365 364 363	Histopathological assessment of calcification and inflammation of calcific aortic valves from patients with and without diabetes mellitus. 2017, 32, 293-306 Sepsis Diagnostics in the Era of "Omics" Technologies. 2018, 119, 9-29 Cockayne Syndrome: The many challenges and approaches to understand a multifaceted disease. 2020, 43, e20190085 Human T-Cell Development and Thymic Egress: An Infectious Disease Perspective. 2015, 6, 33-49 Use of a Humanized Mouse Model System in the Validation of Human Radiation Biodosimetry	18 7 16
366 365 364 363 362	Histopathological assessment of calcification and inflammation of calcific aortic valves from patients with and without diabetes mellitus. 2017, 32, 293-306 Sepsis Diagnostics in the Era of "Omics" Technologies. 2018, 119, 9-29 Cockayne Syndrome: The many challenges and approaches to understand a multifaceted disease. 2020, 43, e20190085 Human T-Cell Development and Thymic Egress: An Infectious Disease Perspective. 2015, 6, 33-49 Use of a Humanized Mouse Model System in the Validation of Human Radiation Biodosimetry Standards. 2019, 191, 439-446 Human longevity is influenced by many genetic variants: evidence from 75,000 UK Biobank	18 7 16 1

(2020-2020)

358	Lack of Humoral Immunity Against Glucosaminidase Is Associated with Postoperative Complications in Staphylococcus aureus Osteomyelitis. 2020 , 102, 1842-1848	9
357	Current Strategies and Future Perspectives of Skin-on-a-Chip Platforms: Innovations, Technical Challenges and Commercial Outlook. 2018 , 24, 5437-5457	10
356	Human Heart Cardiomyocytes in Drug Discovery and Research: New Opportunities in Translational Sciences. 2020 , 21, 787-806	3
355	Comparative Genomics of X-linked Muscular Dystrophies: The Golden Retriever Model. 2013 , 14, 330-42	23
354	Rapid and reliable healing of critical size bone defects with genetically modified sheep muscle. 2015 , 30, 118-30; discussion 130-1	26
353	Variability of mitochondrial respiration in relation to sepsis-induced multiple organ dysfunction. 2018 , 67, S577-S592	10
352	A MRI-Based Toolbox for Neurosurgical Planning in Nonhuman Primates. 2020,	2
351	Human monoclonal anti-TLR4 antibody negatively regulates lipopolysaccharide-induced inflammatory responses in mouse macrophages. 2020 , 22, 4125-4134	3
350	Applications of systems approaches in the study of rheumatic diseases. 2015 , 30, 148-60	5
349	Sepsis-Induced T Cell Immunoparalysis: The Ins and Outs of Impaired T Cell Immunity. 2018 , 200, 1543-1553	81
348	Nonhuman primate models of focal cerebral ischemia. 2017 , 12, 321-328	19
347	The Ethical Implications for Humans in Light of the Poor Predictive Value of Animal Models. 2014 , 05, 966-1005	2
346	Application of Organ-on-Chip in Drug Discovery. 2020 , 08, 119-134	5
345	Knockout mouse models of insulin signaling: Relevance past and future. 2014 , 5, 146-59	22
344	A Guide to Time Lag and Time Lag Shortening Strategies in Oncology-Based Drug Development. 2017 , 23, 75-81	1
343	Dissection of the host-pathogen interaction in human tuberculosis using a bioengineered 3-dimensional model. 2017 , 6,	41
342	Identification of potential biomarkers of vaccine inflammation in mice. 2019, 8,	14
341	A novel role for lipoxin A in driving a lymph node-eye axis that controls autoimmunity to the neuroretina. 2020 , 9,	7

340	The leukocyte non-coding RNA landscape in critically ill patients with sepsis. 2020 , 9,	11
339	Worldwide scientific productions with immunotherapy of sepsis: a bibliometric analysis. 2019 , 7, e7116	4
338	Single-cell RNA sequencing deconvolutes the heterogeneity of human bone marrow-derived mesenchymal stem cells. 2021 , 17, 4192-4206	4
337	Characterization of the Eukaryotic Virome of Mice from Different Sources. 2021 , 9,	O
336	type-1 fimbriae are critical to overcome initial bottlenecks of infection upon low-dose inoculation in a porcine model of cystitis. 2021 , 167,	3
335	In Vitro Disease Models of the Endocrine Pancreas. 2021 , 9,	O
334	Encyclopedia of Inflammatory Diseases. 2013 , 1-20	
333	Er musemodeller plitelige kunnskapskilder?. 2013 , 133, 1439-1439	
332	Research and Patient Safety. 2014 , 299-306	
331	Neuroinflammation and Immune Regulation in Ischemic Stroke: Identification of New Pharmacological Targets. 2014 , 199-244	1
330	Evolutionary Divergence in Human Versus Mouse Innate Immune Gene Regulation and Function. 2014 , 115-155	
329	Proinflammatory Chemical Signaling: Cytokines. 2014 , 145-173	1
328	Stem Cells in Drug Development. 2014 , 1-22	
327	Mouse Models as Paradigms of Human Diseases. 2014 , 163-177	
326	Overview. 2014 , 305-311	
325	The Control of Gene Expression in Macrophages. 2014 , 519-543	
324	Macrolides as anti-inflammatory agents in CAP. 2014 , 243-255	
323	Acute Allograft Injury After Kidney Transplantation. 2015 , 185-195	

322	Granulocytic Phagocytes. 2015 , 78-92.e6	2
321	Biomedical Research Since the Molecular Revolution. 2015 , 27-33	
320	Genomic responses in mouse models greatly mimic human inflammatory disease: Commonalities across species do exist and are potentially important. 2015 , 26, 633-640	
319	Sepsis, Severe Sepsis, and Septic Shock. 2015 , 914-934.e6	O
318	Pathway Analysis and Machine Learning as Tools in Systems Toxicology. 2015 , 209-222	
317	Leukocyte Entry into the Brain. 2015 , 356-403	
316	The Physiology and Genetics of Oxidative Stress in Mycobacteria. 297-322	
315	Stem Cells. 2016 , 4201-4219	
314	Compendium of Inflammatory Diseases. 2016 , 643-659	
313	8: Scientific studies and medical trials. 2016 , 113-130	
312	An ex vivo lung model to study bronchioles infected with Pseudomonas aeruginosa biofilms.	
311	Epigenetic Regulation of Myeloid Cells. 571-590	1
310	Antibiotic Pharmacodynamics. 2018 , 17-29	1
309	Comparative transcriptome profiling of the human and mouse dorsal root ganglia: An RNA-seq-based resource for pain and sensory neuroscience research.	1
308	Animal Research Is an Ethical Issue for Humans as Well as for Animals. 2018, 8, 1	2
307	Multiplexed enrichment and genomic profiling of peripheral immune cell subsets on a microfluidic chip.	O
306	Contemporary circulating enterovirus D68 strains show differential viral entry and replication in human neuronal cells.	
305	A framework for translation of genomic responses from mouse models to human inflammatory disease contexts.	

304	KRASG12D and TP53R167H Cooperate to Induce Pancreatic Ductal Adenocarcinoma in Sus Scrofa Pigs.	1
303	Disease networks and their contribution to disease understanding and drug repurposing: Evolution of the concept, techniques and data sources.	
302	CELL FITNESS IS AN OMNIPHENOTYPE.	
301	Safety, Efficacy, and Regulation of Mesenchymal Stromal/Stem Cells. 2019 , 141-157	
300	Multipotent mesenchymal stem cells in renal transplantation. 2019 , 11, 21-36	
299	Oncoprotein GT198 Vaccination Delays Tumor Growth in MMTV-PyMT Mice.	
298	Gene and Biochemical Pathway Evaluation of Burns Injury via Protein-Protein Interaction Network Analysis. 2019 , 8, e1257	3
297	Short- and Long-Term ICU-Acquired Immunosuppression. 2020 , 163-174	1
296	What Is the Problem? Pesticides in Our Everyday Life. 2020 , 1-125	
295	Drug Therapies for Peripheral Nerve Injuries. 2020 , 1-27	O
295 294	Drug Therapies for Peripheral Nerve Injuries. 2020, 1-27 The Gene Expression Profile of Uropathogenic Escherichia coli in Women with Uncomplicated Urinary Tract Infections Is Recapitulated in the Mouse Model.	0
	The Gene Expression Profile of Uropathogenic Escherichia coli in Women with Uncomplicated	Ο
294	The Gene Expression Profile of Uropathogenic Escherichia coli in Women with Uncomplicated Urinary Tract Infections Is Recapitulated in the Mouse Model. Development of a novel in vitro insulin resistance model in primary human tenocytes for diabetic	0
294	The Gene Expression Profile of Uropathogenic Escherichia coli in Women with Uncomplicated Urinary Tract Infections Is Recapitulated in the Mouse Model. Development of a novel in vitro insulin resistance model in primary human tenocytes for diabetic tendinopathy research. 2020, 8, e8740 Dexmedetomidine and Cognitive Dysfunction after Critical Illness: What Can (and Cannot) Be	0
294 293 292	The Gene Expression Profile of Uropathogenic Escherichia coli in Women with Uncomplicated Urinary Tract Infections Is Recapitulated in the Mouse Model. Development of a novel in vitro insulin resistance model in primary human tenocytes for diabetic tendinopathy research. 2020, 8, e8740 Dexmedetomidine and Cognitive Dysfunction after Critical Illness: What Can (and Cannot) Be Extrapolated from Rodent Models. 2020, 133, 258-261 Regulation of p27 and Cdk2 Expression in Different Adipose Tissue Depots in Aging and Obesity.	
294 293 292 291	The Gene Expression Profile of Uropathogenic Escherichia coli in Women with Uncomplicated Urinary Tract Infections Is Recapitulated in the Mouse Model. Development of a novel in vitro insulin resistance model in primary human tenocytes for diabetic tendinopathy research. 2020, 8, e8740 Dexmedetomidine and Cognitive Dysfunction after Critical Illness: What Can (and Cannot) Be Extrapolated from Rodent Models. 2020, 133, 258-261 Regulation of p27 and Cdk2 Expression in Different Adipose Tissue Depots in Aging and Obesity. 2021, 22, Leukocyte reduction filters as an alternative source of peripheral blood leukocytes for research.	1
294 293 292 291 290	The Gene Expression Profile of Uropathogenic Escherichia coli in Women with Uncomplicated Urinary Tract Infections Is Recapitulated in the Mouse Model. Development of a novel in vitro insulin resistance model in primary human tenocytes for diabetic tendinopathy research. 2020, 8, e8740 Dexmedetomidine and Cognitive Dysfunction after Critical Illness: What Can (and Cannot) Be Extrapolated from Rodent Models. 2020, 133, 258-261 Regulation of p27 and Cdk2 Expression in Different Adipose Tissue Depots in Aging and Obesity. 2021, 22, Leukocyte reduction filters as an alternative source of peripheral blood leukocytes for research. 2021, 43, 494-498 "Ryanopathies" and RyR2 dysfunctions: can we further decipher them using in vitro human disease	1

Application of mouse genetics to human disease: generation and analysis of mouse models. 2020, 95-108 286 Drawing inferences from photographs. 2020, 29-66 285 Finding relationships among biological entities. 2020, 131-186 284 CoCoCoNet: Conserved and Comparative Co-expression Across a Diverse Set of Species. 283 282 Overcoming the Translational Gap [Nanotechnology in Dermal Drug Delivery, 2021, 285-309 Tapping into 5-HT Receptors to Modify Metabolic and Immune Responses. 2021, 22, 281 280 Mice with diverse microbial exposure histories as a model for preclinical vaccine testing. 2021, 29, 1815-1827.e6 Cannabidiol selectively modulates interleukin (IL)-1 and IL-6 production in toll-like receptor 279 4 activated human peripheral blood monocytes. 2021, 464, 153016 Phenotypic Switch of Human Peritoneal Macrophages during Childhood. 2021, 31, 86-94 278 1 Lithium inhibits tryptophan catabolism via the inflammation-induced kynurenine pathway in human 277 microglia. Cocaine vaccine dAd5GNE protects against moderate daily and high-dose "binge" cocaine use. 2020 6 276 , 15, e0239780 Studies of Transendothelial Migration for Biological and Drug Discovery.. 2020, 2, 600616 275 4 Alzheimer's disease biomarkers in animal models: closing the translational gap. 2013, 2, 108-20 274 13 Lost in translation: animal models and clinical trials in cancer treatment. 2014, 6, 114-8 466 273 Age- and Sex-Associated Effects on Acute-Phase Proteins in Gltingen Minipigs. 2015, 65, 333-41 272 17 TIM-3, a Possible Target for Immunotherapy in Cancer and Chronic Viral Infections. 2014, 1, 271 Highlight report: Interspecies extrapolation by physiologically based pharmacokinetic modeling. 270 O 2015, 14, 1014-6 A rat model of concurrent combined injuries (polytrauma). 2015, 8, 20097-110 269 2

268 Translating Stem Cell Biology Into Drug Discovery. **2016**, 3, 34-38

267	Influence of Genetic Background on Hematologic and Histopathologic Alterations during Acute Granulocytic Anaplasmosis in 129/SvEv and C57BL/6J Mice Lacking Type I and Type II Interferon Signaling. 2017 , 67, 127-137	4
266	Alcohol's Effects on the Brain: Neuroimaging Results in Humans and Animal Models. 2017, 38, 183-206	55
265	Influenza Pathogenesis in Genetically Defined Resistant and Susceptible Murine Strains??. 2017, 90, 471-479	10
264	A NATURAL BODY WINDOW TO STUDY HUMAN PANCREATIC ISLET CELL FUNCTION AND SURVIVAL. 2013 , 1, 111-122	4
263	Mechanistic Understanding of Single-Cell Behavior is Essential for Transformative Advances in Biomedicine. 2018 , 91, 279-289	5
262	New York Times article misleads on the value of mouse models. 2013 , 110, 206	
261	Gene Co-Expression Analysis Identified Preserved and Survival-Related Modules in Severe Blunt Trauma, Burns, Sepsis, and Systemic Inflammatory Response Syndrome. 2021 , 14, 7065-7076	
260	Role of Tumor-Associated Neutrophils in the Molecular Carcinogenesis of the Lung. 2021 , 13,	1
259	In Vitro and In Vivo Models to Assess the Immune-Related Effects of Nanomaterials. 2021 , 18,	2
258	CAMO: A molecular congruence analysis framework for evaluating model organisms.	
257	Role of Innate Immunity in Initiation and Progression of Osteoarthritis, with Emphasis on Horses. 2021 , 11,	1
256	Potential Applications and Perspectives of Humanized Mouse Models. 2021,	3
255	Precision Targeting of the Vagal Anti-Inflammatory Pathway Attenuates the SIRS Response to Burn Injury. 2021 , 92,	O
254	Humanized Mice as a Valuable Pre-Clinical Model for Cancer Immunotherapy Research. 2021, 11, 784947	6
253	Importance of the pig as a human biomedical model. 2021 , 13, eabd5758	19
252	Modeling Innate Antiviral Immunity in Physiological Context. 2021 , 167374	1
251	Culturing human iPSC-derived neural progenitor cells on nanowire arrays: mapping the impact of nanowire length and array pitch on proliferation, viability, and membrane deformation. 2021 ,	O

250	Naturalizing laboratory mice by housing in a farmyard-type habitat confers protection against colorectal carcinogenesis. 2021 , 13, 1993581	1
249	Gene Co-Expression Analysis Identified Preserved and Survival-Related Modules in Severe Blunt Trauma, Burns, Sepsis, and Systemic Inflammatory Response Syndrome. 2021 , Volume 14, 7065-7076	O
248	Enteral nutrition ameliorates the symptoms of Crohn's disease in mice via activating special pro-resolving mediators through innate lymphoid cells. 2021 , 27, 533-542	O
247	Gene Therapy for Acute Respiratory Distress Syndrome 2021 , 12, 786255	O
246	From organ-on-a-chip towards body-on-a-chip. 2022 , 46, 1177-1180	
245	Transcriptional Response in a Sepsis Mouse Model Reflects Transcriptional Response in Sepsis Patients 2022 , 23,	1
244	Influence of Thoracic Trauma on Fracture Healing in Long Bones-A Retrospective Analysis 2022 , 11,	
243	Robust, long-term video EEG monitoring in a porcine model of post-traumatic epilepsy.	O
242	Amnion bilayer for dressing and graft replacement for delayed grafting of full-thickness burns; A study in a rat model 2022 , 17, e0262007	
241	Neurodegeneration and neuroinflammation are linked, but independent of alpha-synuclein inclusions, in a seeding/spreading mouse model of Parkinson's disease 2022 ,	1
240	Biological Effect Evaluation of Different Sized Titanium Dioxide Nanoparticles Using Bombyx mori (Silkworm) as a Model Animal 2022 , 1	1
239	An Overview of Organs-on-Chips Based on Deep Learning 2022 , 2022, 9869518	4
238	Current Perspectives on Gastrointestinal Models to Assess Probiotic-Pathogen Interactions 2022 , 13, 831455	3
237	A Matrigel-based 3D construct of SH-SY5Y cells models the Bynuclein pathologies of Parkinson's disease 2022 ,	1
236	Comparative transcriptomic analysis reveals translationally relevant processes in mouse models of malaria 2022 , 11,	O
235	Retinoic Acid-Differentiated Neuroblastoma SH-SY5Y Is an Accessible In Vitro Model to Study Native Human Acid-Sensing Ion Channels 1a (ASIC1a) 2022 , 11,	3
234	Recent Neurotherapeutic Strategies to Promote Healthy Brain Aging: Are we there yet?. 2022, 13, 175-214	2
233	Deep neural network classification of in vivo burn injuries with different etiologies using terahertz time-domain spectral imaging 2022 , 13, 1855-1868	1

232	Evolutionary rewiring of regulatory networks contributes to phenotypic differences between human and mouse orthologous genes 2022 ,	О
231	A semisynthetic glycoconjugate provides expanded cross-serotype protection against Streptococcus pneumoniae 2022 , 40, 1038-1038	
230	AI-assisted Discovery of an Ethnicity-influenced Driver of Cell Transformation in Esophageal and Gastroesophageal Junction Adenocarcinomas.	
229	Network pharmacology: curing causal mechanisms instead of treating symptoms 2021,	29
228	Evolution of Guanylate Binding Protein () Genes in Muroid Rodents (Muridae and Cricetidae) Reveals an Outstanding Pattern of Gain and Loss 2022 , 13, 752186	2
227	The Emergence of Model Systems to Investigate the Link Between Traumatic Brain Injury and Alzheimer's Disease 2021 , 13, 813544	O
226	The Presence of the Temporal Horn Exacerbates the Vulnerability of Hippocampus During Head Impacts 2022 , 10, 754344	2
225	Transfer learning of clinical outcomes from preclinical molecular data, principles and perspectives 2022 ,	O
224	Macrophage-Associated Disorders: Pathophysiology, Treatment Challenges, and Possible Solutions. 2022 , 65-99	O
223	Potential therapeutic targets for the treatment of opioid abuse and pain 2022, 93, 335-371	O
222	Lab-on-Chip Microsystems for Network of Neurons Studies: A Review 2022 , 10, 841389	1
221	Mouse models of COVID-19 recapitulate inflammatory pathways rather than gene expression.	O
220	A systematic review and meta-analyses of interleukin-1 receptor associated kinase 3 (IRAK3) action on inflammation in in vivo models for the study of sepsis 2022 , 17, e0263968	1
219	Current Pharmaceutical Trends in Neuroimmunology - Part I: Disorders Affecting the CNS 2022 , 28, 427	O
218	Experimental models of acute kidney injury for translational research 2022,	1
217	Importance of Nonhuman Primates as a Model System for Gene Therapy Development in Ophthalmology. 2022 , 239,	
216	Human organs-on-chips for disease modelling, drug development and personalized medicine 2022	31
215	Single-cell technologies to decipher cardiovascular diseases 2022 ,	1

214	A Comprehensive Atlas of Immunological Differences Between Humans, Mice, and Non-Human Primates 2022 , 13, 867015	4
213	IL-1 and IL-1ra are key regulators of the inflammatory response to RNA vaccines 2022,	15
212	Preclinical Testing of Dendritic Core-Multishell Nanoparticles in Inflammatory Skin Equivalents 2022 ,	0
211	Biomimetic Full-Thickness Skin-on-a-Chip Based on a Fibroblast-Derived Matrix. 2022 , 2, 191-211	1
210	Animal-reliance bias in publishing is a potential barrier to scientific progress.	
209	Isotretinoin Impairs the Secretory Function of Meibomian Gland Via the PPAR ignaling Pathway 2022 , 63, 29	O
208	Human Multi-Compartment Platform for Emulating Respiratory Airborne Transmission: From Nose to Pulmonary Acini 2022 , 13, 853317	2
207	Transcriptomic analysis of human sensory neurons in painful diabetic neuropathy reveals inflammation and neuronal loss 2022 , 12, 4729	2
206	Hydro-ethanol extract of Holarrhena floribunda stem bark exhibits anti-anaphylactic and anti-oedematogenic effects in murine models of acute inflammation 2022 , 22, 80	
205	Optimization of a Tricalcium Phosphate-Based Bone Model Using Cell-Sheet Technology to Simulate Bone Disorders. 2022 , 10, 550	Ο
204	Development and CHARACTERIZATION of a humanized mouse model of osteoarthritis 2022,	0
203	Real-time monitoring of immediate drug response and adaptation upon repeated treatment in a microfluidic chip system 2022 , 96, 1483	Ο
202	The Modular μ SiM: a Mass Produced, Rapidly Assembled, and Reconfigurable Platform for the Study of Barrier Tissue Models In Vitro.	0
201	Ectopic Lymphoid Follicle Formation and Human Seasonal Influenza Vaccination Responses Recapitulated in an Organ-on-a-Chip 2022 , e2103241	6
200	The Human Induced Pluripotent Stem Cell Test as an Alternative Method for Embryotoxicity Testing 2022 , 23,	O
199	Invasive aspergillosis-on-chip: A quantitative treatment study of human Aspergillus fumigatus infection 2022 , 283, 121420	1
198	Functional roles of neuromedin B and gastrin-releasing peptide in regulating itch and pain in the spinal cord of non-human primates 2022 , 198, 114972	О
197	PET-CT imaging of pulmonary inflammation using [Ga]Ga-DOTA-TATE 2022 , 12, 19	O

196	From hurdle to springboard: The macrophage as target in biomaterial-based bone regeneration strategies 2022 , 116389	1
195	Transcriptional and Histochemical Signatures of Bone Marrow Mononuclear Cell-Mediated Resolution of Synovitis 2021 , 12, 734322	O
194	Welcome Alternatives to Animal Testing. 2021 , 41, 18-19	
193	Transcriptional response in a sepsis mouse model reflects transcriptional response in sepsis patients.	
192	Establishment of an Inflammatory Osteoarthritis Model With Human Osteochondral Explants 2021 , 9, 787020	O
191	Improving Generation of Cardiac Organoids from Human Pluripotent Stem Cells Using the Aurora Kinase Inhibitor ZM447439 2021 , 9,	2
190	The Presence of the Temporal Horn Exacerbates the Vulnerability of Hippocampus during Head Impacts.	
189	Recent Advances in Microfluidic-Based Microphysiological Systems. 2022 , 16, 13-26	O
188	Translational science: a survey of US biomedical researchers' perspectives and practices 2022 , 51, 22-35	0
187	Reactive oxygen species limit intestinal mucosa-bacteria homeostasis in vitro. 2021 , 11, 23727	1
186	Discovering and Validating Mouse Models of Human Diseases. 2021 , 39-47	
185	Preclinical models of acute liver failure: a comprehensive review 2021 , 9, e12579	2
184	A Facile and Scalable Hydrogel Patterning Method for Microfluidic 3D Cell Culture and Spheroid-in-Gel Culture Array 2021 , 11,	1
183	Lithium inhibits tryptophan catabolism via the inflammation-induced kynurenine pathway in human microglia. 2021 ,	2
182	STopTox: An Alternative to Animal Testing for Acute Systemic and Topical Toxicity 2022, 130, 27012	1
181	Domesticated Buffalo: A Model for Human Biomedical Research. 2022 , 267-275	
180	A roadmap for translational cancer glycoimmunology at single cell resolution 2022, 41, 143	О
179	Integrating Sex and Gender in Mitochondrial Science. 2022 , 26, 100536	O

The Role of Oxidative Stress in Skeletal Muscle Myogenesis and Muscle Disease.. 2022, 11, 178 1 Estrogen, the Peripheral Immune System and Major Depression - A Reproductive Lifespan 177 Perspective.. 2022, 16, 850623 Preclinical Models to Evaluate the Human Response to Autoantigen and Antigen-Specific 176 Immunotherapy in Human Type 1 Diabetes.. 2022, 13, 883000 image_1.PDF. 2018, 175 image_2.PDF. 2018, 174 table_1.PDF. 2018, 173 table_2.PDF. 2018, 172 table_3.PDF. **2018**, 171 Data_Sheet_1.pdf. 2020, 170 169 fdata-02-00047.pdf. 2019, fdata-02-00047.xml. 2019, 168 fdata-02-00047-g0001.tif. 2019, 167 166 Presentation_1.PDF. 2018, Data_Sheet_1.docx. 2019, 165 Data_Sheet_2.docx. 2019, 164 163 Table_1.pdf. **2020**, 162 Table_1.DOCX. 2020, Table_2.DOCX. 2020, 161

160	Table_3.DOCX. 2020 ,	
159	Table_4.DOCX. 2020 ,	
158	Data_Sheet_1.docx. 2018 ,	
157	Table_1.xlsx. 2018 ,	
156	Table_2.xlsx. 2018 ,	
155	Table_3.xls. 2018 ,	
154	Table_4.xls. 2018 ,	
153	Video_1.avi. 2018 ,	
152	Video_2.avi. 2018 ,	
151	Table_1.DOCX. 2019 ,	
150	lmage_1.jpg. 2019 ,	
149	SupplementaryVideo1.PPTX. 2017 ,	
148	Synthetic amyloid beta does not induce a robust transcriptional response in innate immune cell culture systems 2022 , 19, 99	1
147	Translational Role of Rodent Models to Study Ventilator-Induced Lung Injury 2021 , 8, 404-415	
146	Generation of Human iPSC-Derived Astrocytes with a mature star-shaped phenotype for CNS modeling 2022 ,	2
145	Advanced Immune Cell Profiling by Multiparameter Flow Cytometry in Humanized Patient-Derived Tumor Mice 2022 , 14,	Ο
144	Hippocampal but Not Serum Cytokine Levels Are Altered by Traffic-Related Air Pollution in TgF344-AD and Wildtype Fischer 344 Rats in a Sex- and Age-Dependent Manner 2022 , 16, 861733	Ο
143	Domestic Environment and Gut Microbiota: Lessons from Pet Dogs. 2022 , 10, 949	0

Recent Developments in Mouse Trauma Research Models: A Mini-Review.. 2022, 13, 866617

141	Translational research: A patient-centered approach to bridge the valley of death 2022,	О
140	The interactions between DNA nanostructures and cells: A critical overview from a cell biology perspective 2022 ,	3
139	Evidence for immune system alterations in peripheral biological fluids in Parkinson's disease 2022 , 105744	1
138	Will It Work Here? Using Case Studies to Generate Key Facts About Complex Development Programs. 2022 , 87-116	1
137	Three-dimensional (3D) liver cell models - a tool for bridging the gap between animal studies and clinical trials when screening liver accumulation and toxicity of nanobiomaterials 2022 ,	2
136	Involvement of IL-26 in bronchiolitis obliterans syndrome but not in acute rejection after lung transplantation 2022 , 23, 108	
135	Exosomal mitochondrial tRNAs and miRNAs as potential predictors of inflammation in renal proximal tubular epithelial cells. 2022 ,	O
134	CDX2-induced intestinal metaplasia in human gastric organoids derived from induced pluripotent stem cells. 2022 , 25, 104314	0
133	Evaluation of Pulmonary Effects of 3-D Printer Emissions From Acrylonitrile Butadiene Styrene Using an Air-Liquid Interface Model of Primary Normal Human-Derived Bronchial Epithelial Cells 2022 , 10915818221093605	2
132	Drug Therapies for Peripheral Nerve Injuries. 2022 , 437-463	
131	Burn-Induced Local and Systemic Immune Response: Systematic Review and Meta-Analysis of Animal Studies. 2022 ,	O
130	Use of Translational, Genetically Modified Porcine Models to Ultimately Improve Intestinal Disease Treatment. 2022 , 9,	
129	Oxoeicosanoid Signaling Mediates Early Antimicrobial Defense in Zebrafish.	
128	Methods to Enhance the Beneficial Effects of Exercise in Individuals with Spinal Cord Injuries. 2022 , 387-407	0
127	Leukocyte cytokine responses in adult patients with mitochondrial DNA defects. 2022 , 100, 963-971	Ο
126	Biomarkers and 3D models predicting response to immune checkpoint blockade in head and neck cancer (Review). 2022 , 61,	1
125	Novel, Emerging Chip Models of the Blood-Brain Barrier and Future Directions. 2022 , 193-224	

124	An Overview of the Importance and Value of Porcine Species in Sialic Acid Research. 2022, 11, 903	
123	Beneficial Effects of O-GlcNAc Stimulation in a Young Rat Model of Sepsis: Beyond Modulation of Gene Expression. 2022 , 23, 6430	О
122	Robust, long-term video EEG monitoring in a porcine model of post-traumatic epilepsy. ENEURO.0025-22	2.2022
121	Predicting clinical outcomes of SARS-CoV-2 drug treatments with a high throughput human airway on chip platform.	O
120	Personalized Medicine for the Critically Ill Patient: A Narrative Review. 2022, 10, 1200	O
119	Enhancers of Host Immune Tolerance to Bacterial Infection Discovered Using Linked Computational and Experimental Approaches. 2200222	O
118	Kidney Organoids: A pioneering model for kidney diseases. 2022 ,	2
117	Regulation of Key Immune-Related Genes in the Heart Following Burn Injury. 2022 , 12, 1007	O
116	Skin-on-Chip. 2022 , 495-555	
115	Organs-on-a-Chip in Preclinical Studies. 2022 , 557-588	O
114	What can an organ-on-a-chip teach us about human lung physiology?.	2
113	Promising Strategies for the Development of Advanced In Vitro Models with High Predictive Power in Ischaemic Stroke Research. 2022 , 23, 7140	O
112	Genetic Background Matters: Population-Based Studies in Model Organisms for Translational Research. 2022 , 23, 7570	O
111	In Vitro and In Vivo Modeling of Normal and Leukemic Bone Marrow Niches: Cellular Senescence Contribution to Leukemia Induction and Progression. 2022 , 23, 7350	O
110	Lung Organoids⊞he Ultimate Tool to Dissect Pulmonary Diseases?. 10,	
109	Advantages and Disadvantages of Using Small and Large Animals in Burn Research: Proceedings of the 2021 Research Special Interest Group.	
108	Multi-Omics Techniques Make it Possible to Analyze Sepsis-Associated Acute Kidney Injury Comprehensively. 13,	О
107	Impact of the Exposome on the Epigenome in Inflammatory Bowel Disease Patients and Animal Models. 2022 , 23, 7611	2

106	The Use of Human Tissues for Research: What Investigators Need to Know. 026119292211079	О
105	Connecting aging biology and inflammation in the omics era. 2022 , 132,	1
104	Frailty and cytokines in preclinical models: Comparisons with humans. 2022 , 206, 111706	0
103	The Vascular Endothelium and Coagulation: Homeostasis, Disease, and Treatment, with a Focus on the Von Willebrand Factor and Factors VIII and V. 2022 , 23, 8283	2
102	Single Cell Manipulation and Characterization Intended to Study Pathology of Neural Diseases. 2022 ,	
101	Next generation preclinical models of lung development, physiology and disease.	
100	Mammalian Resilience Revealed by a Comparison of Human Diseases and Mouse Models Associated With DNA Helicase Deficiencies. 9,	
99	Standing on the shoulders of mice. 2022 , 55, 1343-1353	1
98	Mouse B2 SINE elements function as IFN-inducible enhancers.	
97	Advancing preclinical models of psychiatric disorders with human brain organoid cultures.	O
96	The Modular µSiM: A Mass Produced, Rapidly Assembled, and Reconfigurable Platform for the Study of Barrier Tissue Models In Vitro. 2200804	1
95	T cell metabolism as interpreted in obesity-associated inflammation.	O
94	An explorative metabolomic analysis of the endothelium in pulmonary hypertension. 2022 , 12,	0
93	Characterization of the Basal and mTOR-Dependent Acute Pulmonary and Systemic Immune Response in a Murine Model of Combined Burn and Inhalation Injury. 2022 , 23, 8779	O
92	The major urinary protein gene cluster knockout mouse as a novel model for translational metabolism research. 2022 , 12,	
91	Adrenergic Immune Effects: Is Beta the Enemy of Good?*. 2022 , 50, 1415-1418	
90	Of mice and men: Laboratory murine models for recapitulating the immunosuppression of human sepsis. 13,	1
89	The emergence of the uniquely human ∰ nicotinic acetylcholine receptor gene and its roles in inflammation. 2022 , 842, 146777	1

88	Development and characterization of type I interferon receptor knockout sheep: A model for viral immunology and reproductive signaling. 13,	O
87	Genome-wide analysis of fitness factors in uropathogenic Escherichia coli in a pig urinary tract infection model. 2022 , 265, 127202	O
86	Tamoxifen Prevents Peritendinous Adhesions: A Preliminary Report. 2022 , 2022, 1-12	O
85	From germ-free to wild: modulating microbiome complexity to understand mucosal immunology.	1
84	Burns as a risk factor for glioblastoma. 2022 ,	O
83	Clearance of small intestinal crypts involves goblet cell mucus secretion by intracellular granule rupture and enterocyte ion transport. 2022 , 15,	1
82	Animal Models for the Study of Acute Cutaneous Wound Healing.	О
81	Genetic and immune crosstalk between severe burns and blunt trauma: A study of transcriptomic data. 13,	O
80	Mouse models of COVID-19 recapitulate inflammatory pathways rather than gene expression. 2022 , 18, e1010867	О
79	Myeloid cell-specific mutation of Spi1 selectively reduces M2 -biased macrophage numbers in skeletal muscle, reduces age-related muscle fibrosis and prevents sarcopenia.	О
78	Helminth infection and helminth-derived products: A novel therapeutic option for non-alcoholic fatty liver disease. 13,	О
77	Common and species-specific molecular signatures, networks, and regulators of influenza virus infection in mice, ferrets, and humans. 2022 , 8,	1
76	Alternation of Organ-Specific Exposure in LPS-Induced Pneumonia Mice after the Inhalation of Tetrandrine Is Governed by Metabolizing Enzyme Suppression and Lysosomal Trapping. 2022 , 23, 12948	О
75	Role of the E3 ubiquitin-ligase Hakai in intestinal inflammation and cancer bowel disease. 2022 , 12,	О
74	Mind the map: a multi-omic approach to post-ischaemic cardiac remodelling paves the way for future cardiovascular research.	O
73	Translation Rescue by Targeting Ppp1r15a through Its Upstream Open Reading Frame in Sepsis-Induced Acute Kidney Injury in a Murine Model. 10.1681/ASN.2022060644	O
72	Divergent regulation of basement membrane trafficking by human macrophages and cancer cells. 2022 , 13,	1
71	Neonatal sepsis and transient immunodeficiency: Potential for novel immunoglobulin therapies?. 13,	O

70	Transcriptomic Analysis in Human 3D Skin Model Injected with Resorbable Hyaluronic Acid Fillers Reveals Foreign Body Response. 2022 , 23, 13046	O
69	Dielectrophoresis-driven Single-cell Manipulation on Microelectrode Array Chips for Accurate Intercellular Interaction Study.	O
68	Hemorrhagic shock and tissue injury provoke distinct components of trauma-induced coagulopathy in a swine model.	O
67	A dental implant-on-a-chip for 3D modeling of hostfhaterialpathogen interactions and therapeutic testing platforms.	O
66	Human neutrophils [\$\$ ne \$\$ murine neutrophils: Does it matter?.	1
65	Administration Methods of Mesenchymal Stem Cells in the Treatment of Burn Wounds. 2022 , 3, 493-516	O
64	Resolution of otitis media in a humanized mouse model. 13,	O
63	Animal models of the immunology and pathogenesis of human babesiosis. 2023 , 39, 38-52	1
62	Lung-on-chip microdevices to foster pulmonary drug discovery.	O
61	Parenteral Exposure of Mice to Ricin Toxin Induces Fatal Hypoglycemia by Cytokine-Mediated Suppression of Hepatic Glucose-6-Phosphatase Expression. 2022 , 14, 820	O
60	New models of Parkinson like neuroinflammation in human microglia clone 3: Activation profiles induced by INF-[plus high glucose and mitochondrial inhibitors. 16,	1
59	Neuromorphic-Based Neuroprostheses for Brain Rewiring: State-of-the-Art and Perspectives in Neuroengineering. 2022 , 12, 1578	O
58	Recombinant Expression of Human IL-33 Protein and Its Effect on Skin Wound Healing in Diabetic Mice. 2022 , 9, 734	O
57	Meta-review on Perforation Model of Subarachnoid Hemorrhage in Mice: Filament Material as a Possible Moderator of Mortality.	O
56	3D bioprinting and its innovative approach for biomedical applications. 2023 , 4,	O
55	The Infiltration of Neutrophil Granulocytes Due to Loss of PTEN Was Associated with Poor Response to Immunotherapy in Renal Cell Carcinoma. Volume 15, 6553-6567	O
54	Immune and associated molecular markers - their role in fibrotic dermal scarring.	O
53	A 3D Perfusable Platform for In Vitro Culture of Patient Derived Xenografts[]2201434	O

52	Association between age and the host response in critically ill patients with sepsis. 2022, 26,	O
51	Clean-catching urine from pigs: A method for collecting quality specimens for urinalysis and microbiological culturing in a laboratory environment. 002367722211334	O
50	Prevention of Postoperative Cognitive Dysfunction by Minocycline in Elderly Patients after Total Knee Arthroplasty: A Randomized Double-blind Placebo-controlled Clinical Trial. 2022 ,	2
49	The Chemistry and the Anti-Inflammatory Activity of Polymethoxyflavonoids from Citrus Genus. 2023 , 12, 23	O
48	Chikungunya patient transcriptional signatures faithfully recapitulated in a C57BL/6J mouse model. 13,	О
47	Dopamine, Immunity and Disease. PHARMREV-AR-2022-000618	1
46	Black Garlic and Thiosulfinate-Enriched Extracts as Adjuvants to Ceftriaxone Treatment in a Rat Peritonitis Model of Sepsis. 2022 , 10, 3095	1
45	Frequency of Meningococcal Meningitis Susceptibility Associated TLR4 +896 A/G (rs4986790) Allele in the Saudi Population. 2022 , 16, 2923-2933	O
44	Animal Model Alternatives in Filovirus and Bornavirus Research. 2023 , 15, 158	O
43	Oxoeicosanoid signaling mediates early antimicrobial defense in zebrafish. 2023 , 42, 111974	O
42	Applications. 2023 , 123-150	0
41	Modeling sepsis, with a special focus on large animal models of porcine peritonitis and bacteremia. 13,	O
40	Immune infiltration analysis reveals immune cell signatures in salivary gland tissue of primary Sjÿren¶ syndrome. 10,	О
39	Lipid Membrane Alterations in Tumor Spheroids Revealed by Fluorescence Lifetime Microscopy Imaging.	0
38	Roadmap for Precision preclinical x-ray radiation studies.	0
37	Nicotinamide mononucleotide alleviates angiotensin II-induced human aortic smooth muscle cell senescence in a microphysiological model. 2023 , Publish Ahead of Print,	0
36	Alterations in Lymphocytic MetabolismAn Emerging Hallmark of MS Pathophysiology?. 2023 , 24, 2094	0
35	Immune cells drive new immunomodulatory therapies for myocardial infarction: From basic to clinical translation. 14,	O

34	Augmentation of IFN-Iby bone marrow derived immune cells in the presence of severe suppression of IFN-In gingivae induced by zoledronic acid and denosumab in Hu-BLT mice model of ONJ. 14,	0
33	One data set, many analysts: Implications for practicing scientists. 14,	Ο
32	Promoting Angiogenesis Using Immune Cells for Tissue-Engineered Vascular Grafts. 2023, 51, 660-678	1
31	Optimization of peptide amphiphile-lipid raft interaction by changing peptide amphiphile lipophilicity. 2023 ,	O
30	Microglia-containing cerebral organoids derived from induced pluripotent stem cells for the study of neurological diseases. 2023 , 26, 106267	О
29	Midgut Volvulus Adds a Murine, Neutrophil-Driven Model of Septic Condition to the Experimental Toolbox. 2023 , 12, 366	O
28	Engineered Platforms for Maturing Pluripotent Stem CellDerived Liver Cells for Disease Modeling. 2023 , 15, 1147-1160	О
27	A Monoclonal Human Alveolar Epithelial Cell Line (Arlo) with Pronounced Barrier Function for Studying Drug Permeability and Viral Infections. 2023 , 10,	O
26	Cellular Atlas of Senescent Lineages in Radiation- or Immunotherapy-Induced Lung Injury by Single-Cell RNA-Sequencing Analysis. 2023 ,	0
25	Intestinal edema induced by LPS-induced endotoxemia is associated with an inflammasome adaptor ASC. 2023 , 18, e0281746	O
24	Biomaterial mediated immunomodulation: An interplay of material environment interaction for ameliorating wound regeneration. 2023 , 37, 1509-1528	0
23	Gene expression patterns and related pathways in the hearts of rhesus monkeys subjected to prolonged myocardial ischemia. 153537022311519	o
22	Long-Term Sequelae of Sepsis. 2023 , 301-312	О
21	Bio-physiological susceptibility of the brain, heart, and lungs to systemic ischemia reperfusion and hyperoxia-induced injury in post-cardiac arrest rats. 2023 , 13,	O
20	Recent developments in organ-on-a-chip technology for cardiovascular disease research.	0
19	Hemostasis-on-a-chip / incorporating the endothelium in microfluidic models of bleeding. 2023 , 34,	O
18	Programmed and environmental determinants driving neonatal mucosal immune development. 2023 , 56, 485-499	Ο
17	Highly Porous and Rigid, Full-thickness Human Skin Model from the Slime-webbed Fiber Scaffold.	Ο

16	NLRP3 Inflammasome® Activation in Acute and Chronic Brain DiseasesAn Update on Pathogenetic Mechanisms and Therapeutic Perspectives with Respect to Other Inflammasomes. 2023 , 11, 999	O
15	Impact of High Salt-Intake on a Natural Gut Ecosystem in Wildling Mice. 2023, 15, 1565	Ο
14	Thiosulfinate-Enriched Allium sativum Extract Exhibits Differential Effects between Healthy and Sepsis Patients: The Implication of HIF-1∃ 2023 , 24, 6234	O
13	Spontaneous Sepsis in Adult Horses: From Veterinary to Human Medicine Perspectives. 2023 , 12, 1052	Ο
12	Organ-on-a-Chip for Drug Screening: A Bright Future for Sustainability? A Critical Review.	0
11	Opportunities and challenges to engineer 3D models of tumor-adaptive immune interactions. 14,	O
10	Induced pluripotent stem cell technology in bone biology. 2023 , 116760	О
9	An improved mouse model of sepsis based on intraperitoneal injections of the enriched culture of cecum slurry.	О
8	Effect of Angiotensin-Converting Enzyme Inhibitor and Angiotensin Receptor Blocker Initiation on Organ Support Tree Days in Patients Hospitalized With COVID-19. 2023 , 329, 1183	О
7	Comparative hydrodynamic and nanoscale imaging study on the interactions of teicoplanin-A2 and bovine submaxillary mucin as a model ocular mucin.	O
6	New horizons of microphysiological systems: India forging its path in human-relevant research. 2023 , 12,	0
5	Chronic Wound Healing Models.	O
4	The Multifaceted Role of WNT Signaling in Alzheimer Disease Onset and Age-Related Progression. 2023 , 12, 1204	О
3	Notch signaling regulates the chondrogenic potential of both articular chondrocytes and their progenitors during expansion.	O
2	GIPR expression is induced by thiazolidinediones in a PPAREIndependent manner and repressed by obesogenic stimuli. 2023 , 102, 151320	0
1	Mouse B2 SINE elements function as IFN-inducible enhancers. 12,	O