

John F Engelhardt

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279
papers

21,355
citations

78
h-index

137
g-index

295
ext. papers

23,458
ext. citations

9.1
avg, IF

6.38
L-index

#	Paper	IF	Citations
279	Submucosal glands are the predominant site of CFTR expression in the human bronchus. <i>Nature Genetics</i> , 1992 , 2, 240-8	36.3	590
278	Ablation of E2A in recombinant adenoviruses improves transgene persistence and decreases inflammatory response in mouse liver. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1994 , 91, 6196-200	11.5	551
277	A revised airway epithelial hierarchy includes CFTR-expressing ionocytes. <i>Nature</i> , 2018 , 560, 319-324	50.4	526
276	A controlled study of adenoviral-vector-mediated gene transfer in the nasal epithelium of patients with cystic fibrosis. <i>New England Journal of Medicine</i> , 1995 , 333, 823-31	59.2	520
275	Successful ex vivo gene therapy directed to liver in a patient with familial hypercholesterolaemia. <i>Nature Genetics</i> , 1994 , 6, 335-41	36.3	515
274	Modular flexibility of dystrophin: implications for gene therapy of Duchenne muscular dystrophy. <i>Nature Medicine</i> , 2002 , 8, 253-61	50.5	446
273	Inactivation of E2a in recombinant adenoviruses improves the prospect for gene therapy in cystic fibrosis. <i>Nature Genetics</i> , 1994 , 7, 362-9	36.3	444
272	Circular intermediates of recombinant adeno-associated virus have defined structural characteristics responsible for long-term episomal persistence in muscle tissue. <i>Journal of Virology</i> , 1998 , 72, 8568-77	6.6	365
271	Inefficient gene transfer by adenovirus vector to cystic fibrosis airway epithelia of mice and humans. <i>Nature</i> , 1994 , 371, 802-6	50.4	342
270	Lipopolysaccharide induces Rac1-dependent reactive oxygen species formation and coordinates tumor necrosis factor-alpha secretion through IKK regulation of NF-kappa B. <i>Journal of Biological Chemistry</i> , 2001 , 276, 30188-98	5.4	335
269	Targeted injury of type II alveolar epithelial cells induces pulmonary fibrosis. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2010 , 181, 254-63	10.2	322
268	Adenovirus-mediated transfer of the CFTR gene to lung of nonhuman primates: toxicity study. <i>Human Gene Therapy</i> , 1993 , 4, 771-80	4.8	311
267	CD4(+) T-lymphocytes mediate ischemia/reperfusion-induced inflammatory responses in mouse liver. <i>Journal of Clinical Investigation</i> , 1997 , 100, 279-89	15.9	301
266	Endosomal processing limits gene transfer to polarized airway epithelia by adeno-associated virus. <i>Journal of Clinical Investigation</i> , 2000 , 105, 1573-87	15.9	295
265	Direct gene transfer of human CFTR into human bronchial epithelia of xenografts with E1-deleted adenoviruses. <i>Nature Genetics</i> , 1993 , 4, 27-34	36.3	287
264	Disease phenotype of a ferret CFTR-knockout model of cystic fibrosis. <i>Journal of Clinical Investigation</i> , 2010 , 120, 3149-60	15.9	262
263	Production of CFTR-null and CFTR-DeltaF508 heterozygous pigs by adeno-associated virus-mediated gene targeting and somatic cell nuclear transfer. <i>Journal of Clinical Investigation</i> , 2008 , 118, 1571-7	15.9	250

262	SOD1 mutations disrupt redox-sensitive Rac regulation of NADPH oxidase in a familial ALS model. <i>Journal of Clinical Investigation</i> , 2008 , 118, 659-70	15.9	247
261	Redox gene therapy for ischemia/reperfusion injury of the liver reduces AP1 and NF-kappaB activation. <i>Nature Medicine</i> , 1998 , 4, 698-704	50.5	244
260	Manganese superoxide dismutase protects nNOS neurons from NMDA and nitric oxide-mediated neurotoxicity. <i>Journal of Neuroscience</i> , 1998 , 18, 2040-55	6.6	239
259	Trans-splicing vectors expand the utility of adeno-associated virus for gene therapy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 6716-21	11.5	231
258	Dual SMAD Signaling Inhibition Enables Long-Term Expansion of Diverse Epithelial Basal Cells. <i>Cell Stem Cell</i> , 2016 , 19, 217-231	18	210
257	Airway epithelial cells: current concepts and challenges. <i>Proceedings of the American Thoracic Society</i> , 2008 , 5, 772-7		209
256	Prolonged transgene expression in cotton rat lung with recombinant adenoviruses defective in E2a. <i>Human Gene Therapy</i> , 1994 , 5, 1217-29	4.8	202
255	Adenovirus-mediated transfer of the CFTR gene to lung of nonhuman primates: biological efficacy study. <i>Human Gene Therapy</i> , 1993 , 4, 759-69	4.8	200
254	Intracellular trafficking of adeno-associated viral vectors. <i>Gene Therapy</i> , 2005 , 12, 873-80	4	198
253	Wnt-3A/beta-catenin signaling induces transcription from the LEF-1 promoter. <i>Journal of Biological Chemistry</i> , 2002 , 277, 33398-410	5.4	198
252	Endocytosis and nuclear trafficking of adeno-associated virus type 2 are controlled by rac1 and phosphatidylinositol-3 kinase activation. <i>Journal of Virology</i> , 2000 , 74, 9184-96	6.6	195
251	Nox2 and Rac1 regulate H2O2-dependent recruitment of TRAF6 to endosomal interleukin-1 receptor complexes. <i>Molecular and Cellular Biology</i> , 2006 , 26, 140-54	4.8	192
250	Expanding AAV packaging capacity with trans-splicing or overlapping vectors: a quantitative comparison. <i>Molecular Therapy</i> , 2001 , 4, 383-91	11.7	192
249	Overexpression of human catalase inhibits proliferation and promotes apoptosis in vascular smooth muscle cells. <i>Circulation Research</i> , 1999 , 85, 524-33	15.7	187
248	Therapeutic approaches for ischemia/reperfusion injury in the liver. <i>Journal of Molecular Medicine</i> , 1999 , 77, 577-92	5.5	186
247	Ubiquitination of both adeno-associated virus type 2 and 5 capsid proteins affects the transduction efficiency of recombinant vectors. <i>Journal of Virology</i> , 2002 , 76, 2043-53	6.6	179
246	Expression of the cystic fibrosis gene in adult human lung. <i>Journal of Clinical Investigation</i> , 1994 , 93, 737-49	15.9	177
245	The porcine lung as a potential model for cystic fibrosis. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2008 , 295, L240-63	5.8	176

244	Interleukin-1beta induction of NFkappaB is partially regulated by H2O2-mediated activation of NFkappaB-inducing kinase. <i>Journal of Biological Chemistry</i> , 2006 , 281, 1495-505	5.4	174
243	A new dual-vector approach to enhance recombinant adeno-associated virus-mediated gene expression through intermolecular cis activation. <i>Nature Medicine</i> , 2000 , 6, 595-8	50.5	166
242	Efficient in vivo gene expression by trans-splicing adeno-associated viral vectors. <i>Nature Biotechnology</i> , 2005 , 23, 1435-9	44.5	164
241	Virus-mediated transduction of murine retina with adeno-associated virus: effects of viral capsid and genome size. <i>Journal of Virology</i> , 2002 , 76, 7651-60	6.6	162
240	Polarity influences the efficiency of recombinant adenoassociated virus infection in differentiated airway epithelia. <i>Human Gene Therapy</i> , 1998 , 9, 2761-76	4.8	159
239	Ischemia/reperfusion injury in the liver of BALB/c mice activates AP-1 and nuclear factor kappaB independently of IkappaB degradation. <i>Hepatology</i> , 1998 , 28, 1022-30	11.2	158
238	Signaling components of redox active endosomes: the redoxosomes. <i>Antioxidants and Redox Signaling</i> , 2009 , 11, 1313-33	8.4	154
237	Prevention of late effects of irradiation lung damage by manganese superoxide dismutase gene therapy. <i>Gene Therapy</i> , 1998 , 5, 196-208	4	152
236	Requirement for Rac1-dependent NADPH oxidase in the cardiovascular and dipsogenic actions of angiotensin II in the brain. <i>Circulation Research</i> , 2004 , 95, 532-9	15.7	152
235	Concatamerization of adeno-associated virus circular genomes occurs through intermolecular recombination. <i>Journal of Virology</i> , 1999 , 73, 9468-77	6.6	143
234	Tyrosine phosphorylation of I kappa B alpha activates NF kappa B through a redox-regulated and c-Src-dependent mechanism following hypoxia/reoxygenation. <i>Journal of Biological Chemistry</i> , 2003 , 278, 2072-80	5.4	142
233	MUC5B and MUC7 are differentially expressed in mucous and serous cells of submucosal glands in human bronchial airways. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 1998 , 19, 30-7	5.7	140
232	Cloned ferrets produced by somatic cell nuclear transfer. <i>Developmental Biology</i> , 2006 , 293, 439-48	3.1	136
231	Partial correction of endogenous DeltaF508 CFTR in human cystic fibrosis airway epithelia by spliceosome-mediated RNA trans-splicing. <i>Nature Biotechnology</i> , 2002 , 20, 47-52	44.5	135
230	Bile acid regulation of C/EBPbeta, CREB, and c-Jun function, via the extracellular signal-regulated kinase and c-Jun NH2-terminal kinase pathways, modulates the apoptotic response of hepatocytes. <i>Molecular and Cellular Biology</i> , 2003 , 23, 3052-66	4.8	134
229	Dynamin is required for recombinant adeno-associated virus type 2 infection. <i>Journal of Virology</i> , 1999 , 73, 10371-6	6.6	133
228	Signaling role of intracellular iron in NF-kappaB activation. <i>Journal of Biological Chemistry</i> , 2003 , 278, 17646-54	5.4	130
227	An approach for treating the hepatobiliary disease of cystic fibrosis by somatic gene transfer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1993 , 90, 4601-5	11.5	127

226	Intratracheal injection of adenovirus containing the human MnSOD transgene protects athymic nude mice from irradiation-induced organizing alveolitis. <i>International Journal of Radiation Oncology Biology Physics</i> , 1999 , 43, 169-81	4	125
225	Nox2-containing NADPH oxidase and Akt activation play a key role in angiotensin II-induced cardiomyocyte hypertrophy. <i>Physiological Genomics</i> , 2006 , 26, 180-91	3.6	121
224	Establishment of a reverse genetics system for studying human bocavirus in human airway epithelia. <i>PLoS Pathogens</i> , 2012 , 8, e1002899	7.6	117
223	Adeno-associated virus-targeted disruption of the CFTR gene in cloned ferrets. <i>Journal of Clinical Investigation</i> , 2008 , 118, 1578-83	15.9	117
222	Distinct classes of proteasome-modulating agents cooperatively augment recombinant adeno-associated virus type 2 and type 5-mediated transduction from the apical surfaces of human airway epithelia. <i>Journal of Virology</i> , 2004 , 78, 2863-74	6.6	109
221	Redox modifier genes in amyotrophic lateral sclerosis in mice. <i>Journal of Clinical Investigation</i> , 2007 , 117, 2913-9	15.9	107
220	Redox gene therapy protects human IB-3 lung epithelial cells against ionizing radiation-induced apoptosis. <i>Human Gene Therapy</i> , 1998 , 9, 1381-6	4.8	105
219	Cystic fibrosis transmembrane conductance regulator-associated ATP release is controlled by a chloride sensor. <i>Journal of Cell Biology</i> , 1998 , 143, 645-57	7.3	99
218	Gene therapy for cystic fibrosis using E1-deleted adenovirus: a phase I trial in the nasal cavity. The University of North Carolina at Chapel Hill. <i>Human Gene Therapy</i> , 1994 , 5, 615-39	4.8	99
217	New animal models of cystic fibrosis: what are they teaching us?. <i>Current Opinion in Pulmonary Medicine</i> , 2011 , 17, 478-83	3	97
216	Abnormal endocrine pancreas function at birth in cystic fibrosis ferrets. <i>Journal of Clinical Investigation</i> , 2012 , 122, 3755-68	15.9	95
215	Endosomal Nox2 facilitates redox-dependent induction of NF-kappaB by TNF-alpha. <i>Antioxidants and Redox Signaling</i> , 2009 , 11, 1249-63	8.4	94
214	PITX2, beta-catenin and LEF-1 interact to synergistically regulate the LEF-1 promoter. <i>Journal of Cell Science</i> , 2005 , 118, 1129-37	5.3	92
213	Lipid rafts and caveolin-1 coordinate interleukin-1beta (IL-1beta)-dependent activation of NFkappaB by controlling endocytosis of Nox2 and IL-1beta receptor 1 from the plasma membrane. <i>Journal of Biological Chemistry</i> , 2009 , 284, 33255-64	5.4	91
212	Enhancement of muscle gene delivery with pseudotyped adeno-associated virus type 5 correlates with myoblast differentiation. <i>Journal of Virology</i> , 2001 , 75, 7662-71	6.6	86
211	Stem cell niches in the mouse airway. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2001 , 24, 649-52	5.7	84
210	Genotypic analysis of respiratory mucous sulfation defects in cystic fibrosis. <i>Journal of Clinical Investigation</i> , 1995 , 96, 2997-3004	15.9	84
209	Control of hepatic nuclear superoxide production by glucose 6-phosphate dehydrogenase and NADPH oxidase-4. <i>Journal of Biological Chemistry</i> , 2011 , 286, 8977-87	5.4	82

208	Transfer of the CFTR gene to the lung of nonhuman primates with E1-deleted, E2a-defective recombinant adenoviruses: a preclinical toxicology study. <i>Human Gene Therapy</i> , 1995 , 6, 839-51	4.8	82
207	NADPH Oxidases Are Essential for Macrophage Differentiation. <i>Journal of Biological Chemistry</i> , 2016 , 291, 20030-41	5.4	82
206	Lung phenotype of juvenile and adult cystic fibrosis transmembrane conductance regulator-knockout ferrets. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2014 , 50, 502-12	5.7	81
205	The draft genome sequence of the ferret (<i>Mustela putorius furo</i>) facilitates study of human respiratory disease. <i>Nature Biotechnology</i> , 2014 , 32, 1250-5	44.5	81
204	Human cystic fibrosis transmembrane conductance regulator directed to respiratory epithelial cells of transgenic mice. <i>Nature Genetics</i> , 1992 , 2, 13-20	36.3	81
203	Lysozyme secretion by submucosal glands protects the airway from bacterial infection. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2005 , 32, 548-52	5.7	78
202	Structural analysis of adeno-associated virus transduction circular intermediates. <i>Virology</i> , 1999 , 261, 8-14	3.6	78
201	Gene therapy of cystic fibrosis lung disease using E1 deleted adenoviruses: a phase I trial. <i>Human Gene Therapy</i> , 1994 , 5, 501-19	4.8	78
200	Aspm knockout ferret reveals an evolutionary mechanism governing cerebral cortical size. <i>Nature</i> , 2018 , 556, 370-375	50.4	77
199	Adeno-associated Virus (AAV) Serotypes Have Distinctive Interactions with Domains of the Cellular AAV Receptor. <i>Journal of Virology</i> , 2017 , 91,	6.6	77
198	Defective innate immunity and hyperinflammation in newborn cystic fibrosis transmembrane conductance regulator-knockout ferret lungs. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2015 , 52, 683-94	5.7	76
197	GPx-1 gene delivery modulates NFkappaB activation following diverse environmental injuries through a specific subunit of the IKK complex. <i>Antioxidants and Redox Signaling</i> , 2001 , 3, 415-32	8.4	76
196	Molecular basis of defective anion transport in L cells expressing recombinant forms of CFTR. <i>Human Molecular Genetics</i> , 1993 , 2, 1253-61	5.6	76
195	Overexpression of human superoxide dismutase inhibits oxidation of low-density lipoprotein by endothelial cells. <i>Circulation Research</i> , 1998 , 82, 1289-97	15.7	74
194	Infection Is Not Required for Mucoinflammatory Lung Disease in CFTR-Knockout Ferrets. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018 , 197, 1308-1318	10.2	73
193	Rate limiting steps of AAV transduction and implications for human gene therapy. <i>Current Gene Therapy</i> , 2001 , 1, 137-47	4.3	73
192	Evidence for a superoxide permeability pathway in endosomal membranes. <i>Molecular and Cellular Biology</i> , 2008 , 28, 3700-12	4.8	72
191	Stem cells in the lung. <i>Methods in Enzymology</i> , 2006 , 419, 285-321	1.7	72

190	rAAV2 traffics through both the late and the recycling endosomes in a dose-dependent fashion. <i>Molecular Therapy</i> , 2006 , 13, 671-82	11.7	72
189	Bioelectric properties of chloride channels in human, pig, ferret, and mouse airway epithelia. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2007 , 36, 313-23	5.7	69
188	Formation of adeno-associated virus circular genomes is differentially regulated by adenovirus E4 ORF6 and E2a gene expression. <i>Journal of Virology</i> , 1999 , 73, 161-9	6.6	69
187	Inverted terminal repeat sequences are important for intermolecular recombination and circularization of adeno-associated virus genomes. <i>Journal of Virology</i> , 2005 , 79, 364-79	6.6	68
186	Inhibition of Rac1-derived reactive oxygen species in nucleus tractus solitarius decreases blood pressure and heart rate in stroke-prone spontaneously hypertensive rats. <i>Hypertension</i> , 2007 , 50, 62-8	8.5	66
185	Second-strand genome conversion of adeno-associated virus type 2 (AAV-2) and AAV-5 is not rate limiting following apical infection of polarized human airway epithelia. <i>Journal of Virology</i> , 2003 , 77, 7361-8	6.6	66
184	Stat3 confers resistance against hypoxia/reoxygenation-induced oxidative injury in hepatocytes through upregulation of Mn-SOD. <i>Journal of Hepatology</i> , 2004 , 41, 957-65	13.4	66
183	Subcellular site of superoxide dismutase expression differentially controls AP-1 activity and injury in mouse liver following ischemia/reperfusion. <i>Hepatology</i> , 2001 , 33, 902-14	11.2	66
182	Real-Time Monitoring of Insulin Using a Graphene Field-Effect Transistor Aptameric Nanosensor. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 27504-27511	9.5	65
181	Alsln and SOD1(G93A) proteins regulate endosomal reactive oxygen species production by glial cells and proinflammatory pathways responsible for neurotoxicity. <i>Journal of Biological Chemistry</i> , 2011 , 286, 40151-62	5.4	65
180	In vivo retroviral gene transfer into human bronchial epithelia of xenografts. <i>Journal of Clinical Investigation</i> , 1992 , 90, 2598-607	15.9	65
179	At least two mutant alleles of ornithine delta-aminotransferase cause gyrate atrophy of the choroid and retina in Finns. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1989 , 86, 197-201	11.5	64
178	Comparative biology of cystic fibrosis animal models. <i>Methods in Molecular Biology</i> , 2011 , 742, 311-34	1.4	63
177	Cellular heterogeneity of CFTR expression and function in the lung: implications for gene therapy of cystic fibrosis. <i>European Journal of Human Genetics</i> , 1998 , 6, 12-31	5.3	62
176	PITX2 and beta-catenin interactions regulate Lef-1 isoform expression. <i>Molecular and Cellular Biology</i> , 2007 , 27, 7560-73	4.8	62
175	Effects of antioxidant enzyme overexpression on the invasive phenotype of hamster cheek pouch carcinoma cells. <i>Free Radical Biology and Medicine</i> , 1999 , 27, 572-9	7.8	62
174	The basic biology of redoxosomes in cytokine-mediated signal transduction and implications for disease-specific therapies. <i>Biochemistry</i> , 2014 , 53, 1551-64	3.2	61
173	Redox-mediated gene therapies for environmental injury: approaches and concepts. <i>Antioxidants and Redox Signaling</i> , 1999 , 1, 5-27	8.4	61

172	Pancreatic pathophysiology in cystic fibrosis. <i>Journal of Pathology</i> , 2016 , 238, 311-20	9.4	61
171	The glandular stem/progenitor cell niche in airway development and repair. <i>Proceedings of the American Thoracic Society</i> , 2008 , 5, 682-8		60
170	Temporal pattern of NFkappaB activation influences apoptotic cell fate in a stimuli-dependent fashion. <i>Journal of Cell Science</i> , 2002 , 115, 4843-53	5.3	60
169	Lef1 transcription factor expression defines airway progenitor cell targets for in utero gene therapy of submucosal gland in cystic fibrosis. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 1998 , 18, 750-8	5.7	60
168	IkappaBalph and IkappaBbeta possess injury context-specific functions that uniquely influence hepatic NF-kappaB induction and inflammation. <i>Journal of Clinical Investigation</i> , 2004 , 113, 746-55	15.9	60
167	In utero and postnatal VX-770 administration rescues multiorgan disease in a ferret model of cystic fibrosis. <i>Science Translational Medicine</i> , 2019 , 11,	17.5	58
166	A mutation in the Srrm4 gene causes alternative splicing defects and deafness in the Bronx waltzer mouse. <i>PLoS Genetics</i> , 2012 , 8, e1002966	6	58
165	Current status of gene therapy for inherited lung diseases. <i>Annual Review of Physiology</i> , 2003 , 65, 585-612	13.1	58
164	Endothelin-1 stimulates arterial VCAM-1 expression via NADPH oxidase-derived superoxide in mineralocorticoid hypertension. <i>Hypertension</i> , 2003 , 42, 997-1003	8.5	58
163	Syntaxin 1A is expressed in airway epithelial cells, where it modulates CFTR Cl(-) currents. <i>Journal of Clinical Investigation</i> , 2000 , 105, 377-86	15.9	56
162	Future directions in early cystic fibrosis lung disease research: an NHLBI workshop report. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2012 , 185, 887-92	10.2	55
161	Gastrointestinal pathology in juvenile and adult CFTR-knockout ferrets. <i>American Journal of Pathology</i> , 2014 , 184, 1309-22	5.8	53
160	Two independent molecular pathways for recombinant adeno-associated virus genome conversion occur after UV-C and E4orf6 augmentation of transduction. <i>Human Gene Therapy</i> , 1999 , 10, 591-602	4.8	53
159	gene transfer with AAV improves early cystic fibrosis pig phenotypes. <i>JCI Insight</i> , 2016 , 1, e88728	9.9	53
158	Submucosal Gland Myoepithelial Cells Are Reserve Stem Cells That Can Regenerate Mouse Tracheal Epithelium. <i>Cell Stem Cell</i> , 2018 , 22, 653-667.e5	18	52
157	Reconstitution of tracheal grafts with a genetically modified epithelium. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1991 , 88, 11192-6	11.5	51
156	Glycaemic regulation and insulin secretion are abnormal in cystic fibrosis pigs despite sparing of islet cell mass. <i>Clinical Science</i> , 2015 , 128, 131-42	6.5	50
155	Animal and model systems for studying cystic fibrosis. <i>Journal of Cystic Fibrosis</i> , 2018 , 17, S28-S34	4.1	50

154	Epithelial sodium channels regulate cystic fibrosis transmembrane conductance regulator chloride channels in <i>Xenopus</i> oocytes. <i>Journal of Biological Chemistry</i> , 2000 , 275, 13266-74	5.4	50
153	Endosomal NADPH oxidase regulates c-Src activation following hypoxia/reoxygenation injury. <i>Biochemical Journal</i> , 2008 , 411, 531-41	3.8	49
152	Genetic redox preconditioning differentially modulates AP-1 and NF kappa B responses following cardiac ischemia/reperfusion injury and protects against necrosis and apoptosis. <i>Molecular Therapy</i> , 2003 , 7, 341-53	11.7	48
151	Loss of ATM function enhances recombinant adeno-associated virus transduction and integration through pathways similar to UV irradiation. <i>Virology</i> , 2000 , 268, 68-78	3.6	48
150	A novel chimeric adenoassociated virus 2/human bocavirus 1 parvovirus vector efficiently transduces human airway epithelia. <i>Molecular Therapy</i> , 2013 , 21, 2181-94	11.7	47
149	Spliceosome-mediated RNA trans-splicing with recombinant adeno-associated virus partially restores cystic fibrosis transmembrane conductance regulator function to polarized human cystic fibrosis airway epithelial cells. <i>Human Gene Therapy</i> , 2005 , 16, 1116-23	4.8	47
148	In vitro modeling of human bocavirus 1 infection of polarized primary human airway epithelia. <i>Journal of Virology</i> , 2013 , 87, 4097-102	6.6	46
147	Dual reporter comparative indexing of rAAV pseudotyped vectors in chimpanzee airway. <i>Molecular Therapy</i> , 2010 , 18, 594-600	11.7	46
146	Abnormal Glucose Tolerance in Infants and Young Children with Cystic Fibrosis. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2016 , 194, 974-980	10.2	45
145	Structural and functional heterogeneity of integrated recombinant AAV genomes. <i>Virus Research</i> , 1997 , 48, 41-56	6.4	45
144	Wnt3a regulates Lef-1 expression during airway submucosal gland morphogenesis. <i>Developmental Biology</i> , 2007 , 305, 90-102	3.1	45
143	Consequences of DNA-dependent protein kinase catalytic subunit deficiency on recombinant adeno-associated virus genome circularization and heterodimerization in muscle tissue. <i>Journal of Virology</i> , 2003 , 77, 4751-9	6.6	45
142	Replication of an Autonomous Human Parvovirus in Non-dividing Human Airway Epithelium Is Facilitated through the DNA Damage and Repair Pathways. <i>PLoS Pathogens</i> , 2016 , 12, e1005399	7.6	43
141	Ferret and pig models of cystic fibrosis: prospects and promise for gene therapy. <i>Human Gene Therapy Clinical Development</i> , 2015 , 26, 38-49	3.2	42
140	Airway glandular development and stem cells. <i>Current Topics in Developmental Biology</i> , 2004 , 64, 33-56	5.3	42
139	Nonstructural Protein NP1 of Human Bocavirus 1 Plays a Critical Role in the Expression of Viral Capsid Proteins. <i>Journal of Virology</i> , 2016 , 90, 4658-4669	6.6	41
138	Superoxide anions and endothelial cell proliferation in normoglycemia and hyperglycemia. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2001 , 21, 195-200	9.4	41
137	Sox2 and Lef-1 interact with Pitx2 to regulate incisor development and stem cell renewal. <i>Development (Cambridge)</i> , 2016 , 143, 4115-4126	6.6	41

136	CFTR Influences Beta Cell Function and Insulin Secretion Through Non-Cell Autonomous Exocrine-Derived Factors. <i>Endocrinology</i> , 2017 , 158, 3325-3338	4.8	39
135	Species-specific differences in mouse and human airway epithelial biology of recombinant adeno-associated virus transduction. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2006 , 34, 56-64	5.7	39
134	Unique biologic properties of recombinant AAV1 transduction in polarized human airway epithelia. <i>Journal of Biological Chemistry</i> , 2006 , 281, 29684-92	5.4	39
133	v-Ha-ras mitogenic signaling through superoxide and derived reactive oxygen species. <i>Molecular Carcinogenesis</i> , 2002 , 33, 206-18	5	39
132	New models of the tracheal airway define the glandular contribution to airway surface fluid and electrolyte composition. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2001 , 24, 195-202	5.7	38
131	Aggressive melanoma cells escape from BMP7-mediated autocrine growth inhibition through coordinated Noggin upregulation. <i>Laboratory Investigation</i> , 2008 , 88, 842-55	5.9	37
130	Dual therapeutic utility of proteasome modulating agents for pharmaco-gene therapy of the cystic fibrosis airway. <i>Molecular Therapy</i> , 2004 , 10, 990-1002	11.7	37
129	Identification and Functional Analysis of Novel Nonstructural Proteins of Human Bocavirus 1. <i>Journal of Virology</i> , 2015 , 89, 10097-109	6.6	36
128	Hepatocytes produce TNF- α following hypoxia-reoxygenation and liver ischemia-reperfusion in a NADPH oxidase- and c-Src-dependent manner. <i>American Journal of Physiology - Renal Physiology</i> , 2013 , 305, G84-94	5.1	36
127	Optimization of Recombinant Adeno-Associated Virus-Mediated Expression for Large Transgenes, Using a Synthetic Promoter and Tandem Array Enhancers. <i>Human Gene Therapy</i> , 2015 , 26, 334-46	4.8	35
126	Developmental expression patterns of CFTR in ferret tracheal surface airway and submucosal gland epithelia. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 1996 , 15, 122-31	5.7	34
125	Comparative biology of rAAV transduction in ferret, pig and human airway epithelia. <i>Gene Therapy</i> , 2007 , 14, 1543-8	4	34
124	Advances in gene therapy for cystic fibrosis lung disease. <i>Human Molecular Genetics</i> , 2019 , 28, R88-R94	5.6	33
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