

# Martin L Yarmush

## List of Publications by Year in Descending Order

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

561  
papers

26,671  
citations

81  
h-index

136  
g-index

585  
ext. papers

29,481  
ext. citations

5.7  
avg, IF

6.95  
L-index

#	Paper	IF	Citations
561	Design and Evaluation of a Handheld Robotic Device for Peripheral Catheterization.. <i>Journal of Medical Devices, Transactions of the ASME</i> , <b>2022</b> , 16, 021015	1.3	0
560	Machine-Assisted Discovery of Chondroitinase ABC Complexes Towards Sustained Neural Regeneration.. <i>Advanced Healthcare Materials</i> , <b>2022</b> , e2102101	10.1	3
559	CYP450 drug inducibility in NAFLD via an in vitro hepatic model: Understanding drug-drug interactions in the fatty liver.. <i>Biomedicine and Pharmacotherapy</i> , <b>2022</b> , 146, 112377	7.5	0
558	Combinatorial Use of Therapeutic ELP-Based Micelle Particles in Tissue Engineering.. <i>Advanced Healthcare Materials</i> , <b>2022</b> , e2102795	10.1	1
557	Machine-Assisted Discovery of Chondroitinase ABC Complexes toward Sustained Neural Regeneration (Adv. Healthcare Mater. 10/2022). <i>Advanced Healthcare Materials</i> , <b>2022</b> , 11, 2270051	10.1	1
556	Human-Origin iPSC-Based Recellularization of Decellularized Whole Rat Livers. <i>Bioengineering</i> , <b>2022</b> , 9, 219	5.3	1
555	High-Voltage, Pulsed Electric Fields Eliminate Stable Infection in a Mouse Burn Model. <i>Advances in Wound Care</i> , <b>2021</b> , 10, 477-489	4.8	2
554	Liver donor age affects hepatocyte function through age-dependent changes in decellularized liver matrix. <i>Biomaterials</i> , <b>2021</b> , 270, 120689	15.6	7
553	Self-assembled elastin-like polypeptide fusion protein coacervates as competitive inhibitors of advanced glycation end-products enhance diabetic wound healing. <i>Journal of Controlled Release</i> , <b>2021</b> , 333, 176-187	11.7	7
552	Multiorgan Metabolomics and Lipidomics Provide New Insights Into Fat Infiltration in the Liver, Muscle Wasting, and Liver-Muscle Crosstalk Following Burn Injury. <i>Journal of Burn Care and Research</i> , <b>2021</b> , 42, 269-287	0.8	0
551	Development of liver microtissues with functional biliary ductular network. <i>Biotechnology and Bioengineering</i> , <b>2021</b> , 118, 17-29	4.9	4
550	Advanced technologies for the preservation of mammalian biospecimens. <i>Nature Biomedical Engineering</i> , <b>2021</b> , 5, 793-804	19	4
549	Autofluorescence of blood and its application in biomedical and clinical research. <i>Biotechnology and Bioengineering</i> , <b>2021</b> , 118, 4550-4576	4.9	1
548	HSymM-guided engineering of the immunodominant p53 transactivation domain putative peptide antigen for improved binding to its anti-p53 monoclonal antibody. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2021</b> , 51, 128341	2.9	
547	Anti-inflammatory effects of haptoglobin on LPS-stimulated macrophages: Role of HMGB1 signaling and implications in chronic wound healing. <i>Wound Repair and Regeneration</i> , <b>2020</b> , 28, 493-505	3.6	4
546	Hepatic gap junctions amplify alcohol liver injury by propagating cGAS-mediated IRF3 activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 11667-11673	11.5	23
545	Improvement of steatotic rat liver function with a defatting cocktail during ex situ normothermic machine perfusion is not directly related to liver fat content. <i>PLoS ONE</i> , <b>2020</b> , 15, e0232886	3.7	6

544	Differential Cell Death and Regrowth of Dermal Fibroblasts and Keratinocytes After Application of Pulsed Electric Fields. <i>Bioelectricity</i> , <b>2020</b> , 2, 175-185	2	2
543	Tryptophan Metabolism via the Kynurenine Pathway: Implications for Graft Optimization during Machine Perfusion. <i>Journal of Clinical Medicine</i> , <b>2020</b> , 9,	5.1	3
542	Deep learning robotic guidance for autonomous vascular access. <i>Nature Machine Intelligence</i> , <b>2020</b> , 2, 104-115	22.5	31
541	A comparison of hepato-cellular in vitro platforms to study CYP3A4 induction. <i>PLoS ONE</i> , <b>2020</b> , 15, e0228011	3.7	9
540	Metabolic and lipidomic profiling of steatotic human livers during ex situ normothermic machine perfusion guides resuscitation strategies. <i>PLoS ONE</i> , <b>2020</b> , 15, e0228011	3.7	9
539	Multi-layer stackable tissue culture platform for 3D co-culture <b>2020</b> , 08, 37-49		
538	Subzero non-frozen preservation of human livers in the supercooled state. <i>Nature Protocols</i> , <b>2020</b> , 15, 2024-2040	18.8	9
537	Progressive hypoxia-on-a-chip: An in vitro oxygen gradient model for capturing the effects of hypoxia on primary hepatocytes in health and disease. <i>Biotechnology and Bioengineering</i> , <b>2020</b> , 117, 763-775	4.9	19
536	Deep-supercooling for extended preservation of adipose-derived stem cells. <i>Cryobiology</i> , <b>2020</b> , 92, 67-75	5.7	9
535	Tissue scaffolds functionalized with therapeutic elastin-like biopolymer particles. <i>Biotechnology and Bioengineering</i> , <b>2020</b> , 117, 1575-1583	4.9	4
534	Subnormothermic Machine Perfusion of Steatotic Livers Results in Increased Energy Charge at the Cost of Anti-Oxidant Capacity Compared to Normothermic Perfusion. <i>Metabolites</i> , <b>2019</b> , 9,	5.6	6
533	Supercooling extends preservation time of human livers. <i>Nature Biotechnology</i> , <b>2019</b> , 37, 1131-1136	44.5	54
532	A protein interaction free energy model based on amino acid residue contributions: Assessment of point mutation stability of T4 lysozyme. <i>Technology</i> , <b>2019</b> , 7, 12-39	3	2
531	Repopulation of intrahepatic bile ducts in engineered rat liver grafts. <i>Technology</i> , <b>2019</b> , 7, 46-55	3	7
530	Dynamin and reverse-mode sodium calcium exchanger blockade confers neuroprotection from diffuse axonal injury. <i>Cell Death and Disease</i> , <b>2019</b> , 10, 727	9.8	10
529	Simple Surface Modification of Poly(dimethylsiloxane) via Surface Segregating Smart Polymers for Biomicrofluidics. <i>Scientific Reports</i> , <b>2019</b> , 9, 7377	4.9	66
528	Mouse Model of Pressure Ulcers After Spinal Cord Injury. <i>Journal of Visualized Experiments</i> , <b>2019</b> ,	1.6	2
527	IGBT-Based Pulsed Electric Fields Generator for Disinfection: Design and In Vitro Studies on <i>Pseudomonas aeruginosa</i> . <i>Annals of Biomedical Engineering</i> , <b>2019</b> , 47, 1314-1325	4.7	6

526	A microfluidic patterned model of non-alcoholic fatty liver disease: applications to disease progression and zonation. <i>Lab on A Chip</i> , <b>2019</b> , 19, 3022-3031	7.2	21
525	A microfluidic 3D hepatocyte chip for hepatotoxicity testing of nanoparticles. <i>Nanomedicine</i> , <b>2019</b> , 14, 2209-2226	5.6	20
524	Systems engineering the organ preservation process for transplantation. <i>Current Opinion in Biotechnology</i> , <b>2019</b> , 58, 192-201	11.4	9
523	Rapid maturation of the hepatic cell line Huh7 via CDK inhibition for PXR dependent CYP450 metabolism and induction. <i>Scientific Reports</i> , <b>2019</b> , 9, 15848	4.9	2
522	Macrophage modulation by polymerized hemoglobins: Potential as a wound-healing therapy <b>2019</b> , 07, 84-97		
521	First-in-human evaluation of a hand-held automated venipuncture device for rapid venous blood draws. <i>Technology</i> , <b>2019</b> , 7, 98-107	3	17
520	Oxygenated UW Solution Decreases ATP Decay and Improves Survival After Transplantation of DCD Liver Grafts. <i>Transplantation</i> , <b>2019</b> , 103, 363-370	1.8	8
519	Selective Inactivation of and with Pulsed Electric Fields and Antibiotics. <i>Advances in Wound Care</i> , <b>2019</b> , 8, 136-148	4.8	3
518	Gut Microbiota-Derived Tryptophan Metabolites Modulate Inflammatory Response in Hepatocytes and Macrophages. <i>Cell Reports</i> , <b>2018</b> , 23, 1099-1111	10.6	222
517	Microfluidic platforms for the study of neuronal injury in vitro. <i>Biotechnology and Bioengineering</i> , <b>2018</b> , 115, 815-830	4.9	23
516	Microfluidic flow cytometry: The role of microfabrication methodologies, performance and functional specification. <i>Technology</i> , <b>2018</b> , 6, 1-23	3	23
515	Skin regeneration with all accessory organs following ablation with irreversible electroporation. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2018</b> , 12, 98-113	4.4	16
514	Live cell imaging of cytosolic NADH/NAD ratio in hepatocytes and liver slices. <i>American Journal of Physiology - Renal Physiology</i> , <b>2018</b> , 314, G97-G108	5.1	8
513	Improving functional re-endothelialization of acellular liver scaffold using REDV cell-binding domain. <i>Acta Biomaterialia</i> , <b>2018</b> , 78, 151-164	10.8	39
512	Hepatic connexin 32 associates with nonalcoholic fatty liver disease severity. <i>Hepatology Communications</i> , <b>2018</b> , 2, 786-797	6	8
511	Long-term deep-supercooling of large-volume water and red cell suspensions via surface sealing with immiscible liquids. <i>Nature Communications</i> , <b>2018</b> , 9, 3201	17.4	41
510	RNA-Based dCas9/VP64 System Improves the Viability of Cryopreserved Mammalian Cells. <i>Nano LIFE</i> , <b>2018</b> , 08, 1850004	0.9	0
509	Metabolic Patterning on a Chip: Towards in vitro Liver Zonation of Primary Rat and Human Hepatocytes. <i>Scientific Reports</i> , <b>2018</b> , 8, 8951	4.9	50

508	Impact of Complete Spinal Cord Injury on Healing of Skin Ulcers in Mouse Models. <i>Journal of Neurotrauma</i> , <b>2018</b> , 35, 815-824	5.4	6
507	Decellularized human liver extracellular matrix (hDLM)-mediated hepatic differentiation of human induced pluripotent stem cells (iPSCs). <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2018</b> , 12, e1962-e1973	4.4	37
506	The growing role of precision and personalized medicine for cancer treatment. <i>Technology</i> , <b>2018</b> , 6, 79-100	103	
505	Tri-culture system for pro-hapten sensitizer identification and potency classification. <i>Technology</i> , <b>2018</b> , 6, 67-74	3	1
504	Rejuvenation of aged rat skin with pulsed electric fields. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2018</b> , 12, 2309-2318	4.4	5
503	Dose-, treatment- and time-dependent toxicity of superparamagnetic iron oxide nanoparticles on primary rat hepatocytes. <i>Nanomedicine</i> , <b>2018</b> , 13, 1267-1284	5.6	19
502	Adaptive Kinematic Control of a Robotic Venipuncture Device Based on Stereo Vision, Ultrasound, and Force Guidance. <i>IEEE Transactions on Industrial Electronics</i> , <b>2017</b> , 64, 1626-1635	8.9	33
501	CFD assessment of the effect of convective mass transport on the intracellular clearance of intracellular triglycerides in macrosteatotic hepatocytes. <i>Biomechanics and Modeling in Mechanobiology</i> , <b>2017</b> , 16, 1095-1102	3.8	5
500	Recent advances in nonbiofouling PDMS surface modification strategies applicable to microfluidic technology. <i>Technology</i> , <b>2017</b> , 5, 1-12	3	75
499	Generation and manipulation of hydrogel microcapsules by droplet-based microfluidics for mammalian cell culture. <i>Lab on A Chip</i> , <b>2017</b> , 17, 1913-1932	7.2	72
498	Regulation of Energy Homeostasis After Gastric Bypass Surgery. <i>Annual Review of Biomedical Engineering</i> , <b>2017</b> , 19, 459-484	12	5
497	Bioacoustic-enabled patterning of human iPSC-derived cardiomyocytes into 3D cardiac tissue. <i>Biomaterials</i> , <b>2017</b> , 131, 47-57	15.6	69
496	Multi-omic network-based interrogation of rat liver metabolism following gastric bypass surgery featuring SWATH proteomics. <i>Technology</i> , <b>2017</b> , 5, 139-184	3	3
495	Prostaglandin E Produced by Alginate-Encapsulated Mesenchymal Stromal Cells Modulates the Astrocyte Inflammatory Response. <i>Nano LIFE</i> , <b>2017</b> , 7,	0.9	4
494	Interrupting Burn-Induced Changes in Serum Acute Response Markers via Connexin 32 Gap Junction Inhibition and Neutralization at the Liver. <i>Nano LIFE</i> , <b>2017</b> , 07, 1750004	0.9	
493	Design and Evaluation of a Robotic Device for Automated Tail Vein Cannulations in Rodent Models. <i>Journal of Medical Devices, Transactions of the ASME</i> , <b>2017</b> , 11, 0410081-410087	1.3	1
492	A microfluidic in-line ELISA for measuring secreted protein under perfusion. <i>Biomedical Microdevices</i> , <b>2017</b> , 19, 101	3.7	7
491	Co-delivery of a growth factor and a tissue-protective molecule using elastin biopolymers accelerates wound healing in diabetic mice. <i>Biomaterials</i> , <b>2017</b> , 141, 149-160	15.6	57

490	Stromal Cell-Derived Growth Factor-1 Alpha-Elastin Like Peptide Fusion Protein Promotes Cell Migration and Revascularization of Experimental Wounds in Diabetic Mice. <i>Advances in Wound Care</i> , <b>2017</b> , 6, 10-22	4.8	12
489	Discarded Livers Find a New Life: Engineered Liver Grafts Using Hepatocytes Recovered From Marginal Livers. <i>Artificial Organs</i> , <b>2017</b> , 41, 579-585	2.6	8
488	Prediction of Scar Size in Rats Six Months after Burns Based on Early Post-injury Polarization-Sensitive Optical Frequency Domain Imaging. <i>Frontiers in Physiology</i> , <b>2017</b> , 8, 967	4.6	5
487	Metabolomic Modularity Analysis (MMA) to Quantify Human Liver Perfusion Dynamics. <i>Metabolites</i> , <b>2017</b> , 7,	5.6	6
486	Proteomic analysis of naturally-sourced biological scaffolds. <i>Biomaterials</i> , <b>2016</b> , 75, 37-46	15.6	85
485	Exposure to human immunodeficiency virus/hepatitis C virus in hepatic and stellate cell lines reveals cooperative profibrotic transcriptional activation between viruses and cell types. <i>Hepatology</i> , <b>2016</b> , 64, 1951-1968	11.2	25
484	Preventing Scars after Injury with Partial Irreversible Electroporation. <i>Journal of Investigative Dermatology</i> , <b>2016</b> , 136, 2297-2304	4.3	16
483	Isolation and co-culture of rat parenchymal and non-parenchymal liver cells to evaluate cellular interactions and response. <i>Scientific Reports</i> , <b>2016</b> , 6, 25329	4.9	66
482	Differential Leukocyte Counting via Fluorescent Detection and Image Processing on a Centrifugal Microfluidic Platform. <i>Analytical Methods</i> , <b>2016</b> , 8, 8272-8279	3.2	4
481	Eradication of multidrug-resistant pseudomonas biofilm with pulsed electric fields. <i>Biotechnology and Bioengineering</i> , <b>2016</b> , 113, 643-650	4.9	45
480	Single-step electrical field strength screening to determine electroporation induced transmembrane transport parameters. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2016</b> , 1858, 2041-2049	3.8	7
479	Functionalized Biopolymer Particles Enhance Performance of a Tissue-Protective Peptide under Proteolytic and Thermal Stress. <i>Biomacromolecules</i> , <b>2016</b> , 17, 2073-9	6.9	5
478	Longitudinal, 3D Imaging of Collagen Remodeling in Murine Hypertrophic Scars In Vivo Using Polarization-Sensitive Optical Frequency Domain Imaging. <i>Journal of Investigative Dermatology</i> , <b>2016</b> , 136, 84-92	4.3	34
477	A Novel Resolvin-Based Strategy for Limiting Acetaminophen Hepatotoxicity. <i>Clinical and Translational Gastroenterology</i> , <b>2016</b> , 7, e153	4.2	20
476	Long-term maintenance of a microfluidic 3D human liver sinusoid. <i>Biotechnology and Bioengineering</i> , <b>2016</b> , 113, 241-6	4.9	135
475	Therapeutic Delivery of Stromal Cell-Derived Factor-1 for Injury Repair. <i>Nano LIFE</i> , <b>2016</b> , 06, 1530001	0.9	
474	Development of a Microsphere-Based System to Facilitate Real-Time Insulin Monitoring. <i>Journal of Diabetes Science and Technology</i> , <b>2016</b> , 10, 689-96	4.1	3
473	Rat liver regeneration following ablation with irreversible electroporation. <i>PeerJ</i> , <b>2016</b> , 4, e1571	3.1	25

472	3D Near Infrared and Ultrasound Imaging of Peripheral Blood Vessels for Real-Time Localization and Needle Guidance. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 9902, 388-396	0.9	9
471	Personalized Medicine Approaches in Prostate Cancer Employing Patient Derived 3D Organoids and Humanized Mice. <i>Frontiers in Cell and Developmental Biology</i> , <b>2016</b> , 4, 64	5.7	22
470	Metabolic Flux Distribution during Defatting of Steatotic Human Hepatoma (HepG2) Cells. <i>Metabolites</i> , <b>2016</b> , 6,	5.6	37
469	Elastin-like polypeptides: A strategic fusion partner for biologics. <i>Biotechnology and Bioengineering</i> , <b>2016</b> , 113, 1617-27	4.9	46
468	Donor variability among anti-inflammatory pre-activated mesenchymal stromal cells. <i>Technology</i> , <b>2016</b> , 4, 201-215	3	12
467	A Microfabricated Platform for Generating Physiologically-Relevant Hepatocyte Zonation. <i>Scientific Reports</i> , <b>2016</b> , 6, 26868	4.9	39
466	System Design and Development of a Robotic Device for Automated Venipuncture and Diagnostic Blood Cell Analysis. <i>IEEE International Conference on Intelligent Robots and Systems</i> , <b>2016</b> , 2016, 514-520	0.6	5
465	Multilayered tissue mimicking skin and vessel phantoms with tunable mechanical, optical, and acoustic properties. <i>Medical Physics</i> , <b>2016</b> , 43, 3117-3131	4.4	47
464	New technologies in drug metabolism and toxicity screening: organ-to-organ interaction. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , <b>2016</b> , 12, 475-7	5.5	14
463	Emerging In Vitro Liver Technologies for Drug Metabolism and Inter-Organ Interactions. <i>Tissue Engineering - Part B: Reviews</i> , <b>2016</b> , 22, 383-394	7.9	36
462	The development and characterization of SDF1 $\alpha$ -elastin-like-peptide nanoparticles for wound healing. <i>Journal of Controlled Release</i> , <b>2016</b> , 232, 238-47	11.7	41
461	Nanolayered siRNA delivery platforms for local silencing of CTGF reduce cutaneous scar contraction in third-degree burns. <i>Biomaterials</i> , <b>2016</b> , 95, 22-34	15.6	32
460	Nondestructive Methods for Monitoring Cell Removal During Rat Liver Decellularization. <i>Tissue Engineering - Part C: Methods</i> , <b>2016</b> , 22, 671-8	2.9	26
459	PPAR Agonists and 3D Alginate Encapsulation Accelerate Oligodendrocyte Differentiation of Mouse Embryonic Stem Cells. <i>Nano LIFE</i> , <b>2016</b> , 06, 1650003	0.9	1
458	Surgical models of Roux-en-Y gastric bypass surgery and sleeve gastrectomy in rats and mice. <i>Nature Protocols</i> , <b>2015</b> , 10, 495-507	18.8	48
457	Polyethylene glycol protects primary hepatocytes during supercooling preservation. <i>Cryobiology</i> , <b>2015</b> , 71, 125-9	2.7	21
456	Machine perfusion enhances hepatocyte isolation yields from ischemic livers. <i>Cryobiology</i> , <b>2015</b> , 71, 244-55	5	5
455	Development and validation of a microfluidic immunoassay capable of multiplexing parallel samples in microliter volumes. <i>Lab on A Chip</i> , <b>2015</b> , 15, 3211-21	7.2	23

454	Skin rejuvenation with non-invasive pulsed electric fields. <i>Scientific Reports</i> , <b>2015</b> , 5, 10187	4.9	32
453	Hepatic Injury in Nonalcoholic Steatohepatitis Contributes to Altered Intestinal Permeability. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , <b>2015</b> , 1, 222-232	7.9	147
452	A novel low-volume two-chamber microfabricated platform for evaluating drug metabolism and toxicity. <i>Technology</i> , <b>2015</b> , 3, 155-162	3	9
451	The System Design and Evaluation of a 7-DOF Image-Guided Venipuncture Robot. <i>IEEE Transactions on Robotics</i> , <b>2015</b> , 31, 1044-1053	6.5	18
450	Alginate micro-encapsulation of mesenchymal stromal cells enhances modulation of the neuro-inflammatory response. <i>Cytotherapy</i> , <b>2015</b> , 17, 1353-64	4.8	40
449	Modulation of cellular stress response via the erythropoietin/CD131 heteroreceptor complex in mouse mesenchymal-derived cells. <i>Journal of Molecular Medicine</i> , <b>2015</b> , 93, 199-210	5.5	22
448	Long-term coculture strategies for primary hepatocytes and liver sinusoidal endothelial cells. <i>Tissue Engineering - Part C: Methods</i> , <b>2015</b> , 21, 413-22	2.9	66
447	Development of a low-volume, highly sensitive microimmunoassay using computational fluid dynamics-driven multiobjective optimization. <i>Microfluidics and Nanofluidics</i> , <b>2015</b> , 18, 199-214	2.8	4
446	Sizes and Sufficient Quantities of MSC Microspheres for Intrathecal Injection to Modulate Inflammation in Spinal Cord Injury. <i>Nano LIFE</i> , <b>2015</b> , 5,	0.9	5
445	Real-time Needle Steering in Response to Rolling Vein Deformation by a 9-DOF Image-Guided Autonomous Venipuncture Robot. <i>IEEE International Conference on Intelligent Robots and Systems</i> , <b>2015</b> , 2015, 2633-2638	0.6	13
444	An automated image processing method to quantify collagen fibre organization within cutaneous scar tissue. <i>Experimental Dermatology</i> , <b>2015</b> , 24, 78-80	4	27
443	Tissue heterogeneity in structure and conductivity contribute to cell survival during irreversible electroporation ablation by "electric field sinks". <i>Scientific Reports</i> , <b>2015</b> , 5, 8485	4.9	65
442	Layer-by-layer Collagen Deposition in Microfluidic Devices for Microtissue Stabilization. <i>Journal of Visualized Experiments</i> , <b>2015</b> ,	1.6	3
441	Identification of IL-1 $\beta$ and LPS as optimal activators of monolayer and alginate-encapsulated mesenchymal stromal cell immunomodulation using design of experiments and statistical methods. <i>Biotechnology Progress</i> , <b>2015</b> , 31, 1058-70	2.8	18
440	Biotunable acoustic node assembly of organoids. <i>Advanced Healthcare Materials</i> , <b>2015</b> , 4, 1937-43	10.1	62
439	Hair Stimulation with Pulsed Electric Fields. <i>Plastic and Reconstructive Surgery</i> , <b>2015</b> , 136, 30	2.7	2
438	The Role of CHI3L1 (Chitinase-3-Like-1) in the Pathogenesis of Infections in Burns in a Mouse Model. <i>PLoS ONE</i> , <b>2015</b> , 10, e0140440	3.7	11
437	Pulsed electric fields for burn wound disinfection in a murine model. <i>Journal of Burn Care and Research</i> , <b>2015</b> , 36, 7-13	0.8	33

436	Supercooling preservation and transplantation of the rat liver. <i>Nature Protocols</i> , <b>2015</b> , 10, 484-94	18.8	44
435	Layer-by-layer heparinization of decellularized liver matrices to reduce thrombogenicity of tissue engineered grafts. <i>Journal of Clinical and Translational Research</i> , <b>2015</b> , 1, 48-56	1.1	17
434	Predictivity of dog co-culture model, primary human hepatocytes and HepG2 cells for the detection of hepatotoxic drugs in humans. <i>Toxicology and Applied Pharmacology</i> , <b>2014</b> , 275, 44-61	4.6	49
433	Subnormothermic machine perfusion for ex vivo preservation and recovery of the human liver for transplantation. <i>American Journal of Transplantation</i> , <b>2014</b> , 14, 1400-9	8.7	148
432	Automated image analysis method for detecting and quantifying macrovesicular steatosis in hematoxylin and eosin-stained histology images of human livers. <i>Liver Transplantation</i> , <b>2014</b> , 20, 228-36	4.5	27
431	Microfluidic Isolation of CD34-Positive Skin Cells Enables Regeneration of Hair and Sebaceous Glands In Vivo. <i>Stem Cells Translational Medicine</i> , <b>2014</b> , 3, 1354-62	6.9	9
430	Dynamic interplay of flow and collagen stabilizes primary hepatocytes culture in a microfluidic platform. <i>Lab on A Chip</i> , <b>2014</b> , 14, 2033-9	7.2	70
429	In Vitro platforms for evaluating liver toxicity. <i>Experimental Biology and Medicine</i> , <b>2014</b> , 239, 1180-1191	3.7	118
428	Electroporation-based technologies for medicine: principles, applications, and challenges. <i>Annual Review of Biomedical Engineering</i> , <b>2014</b> , 16, 295-320	12	466
427	Fractional factorial design to investigate stromal cell regulation of macrophage plasticity. <i>Biotechnology and Bioengineering</i> , <b>2014</b> , 111, 2239-51	4.9	24
426	Predicting full thickness skin sensitization using a support vector machine. <i>Toxicology in Vitro</i> , <b>2014</b> , 28, 1413-23	3.6	8
425	Microcavity substrates casted from self-assembled microsphere monolayers for spheroid cell culture. <i>Biomedical Microdevices</i> , <b>2014</b> , 16, 609-15	3.7	11
424	Supercooling enables long-term transplantation survival following 4 days of liver preservation. <i>Nature Medicine</i> , <b>2014</b> , 20, 790-3	50.5	109
423	Cloud-enabled microscopy and droplet microfluidic platform for specific detection of <i>Escherichia coli</i> in water. <i>PLoS ONE</i> , <b>2014</b> , 9, e86341	3.7	40
422	Pharmacokinetics of natural and engineered secreted factors delivered by mesenchymal stromal cells. <i>PLoS ONE</i> , <b>2014</b> , 9, e89882	3.7	23
421	Irreversible electroporation: evolution of a laboratory technique in interventional oncology. <i>Diagnostic and Interventional Radiology</i> , <b>2014</b> , 20, 147-54	3.2	31
420	Brain-on-a-chip microsystem for investigating traumatic brain injury: Axon diameter and mitochondrial membrane changes play a significant role in axonal response to strain injuries. <i>Technology</i> , <b>2014</b> , 2, 106	3	19
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