Uwe Marx

List of Publications by Year
in descending order

		172457	138484
59	4,164	29	58
papers	citations	h-index	g-index

66	66	66	4462
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A four-organ-chip for interconnected long-term co-culture of human intestine, liver, skin and kidney equivalents. Lab on A Chip, 2015, 15, 2688-2699.	6.0	662
2	A dynamic multi-organ-chip for long-term cultivation and substance testing proven by 3D human liver and skin tissue co-culture. Lab on A Chip, 2013, 13, 3538.	6.0	396
3	Skin and hair on-a-chip: in vitro skin models versus ex vivo tissue maintenance with dynamic perfusion. Lab on A Chip, 2013, 13, 3555.	6.0	221
4	Biology-inspired microphysiological system approaches to solve the prediction dilemma of substance testing. ALTEX: Alternatives To Animal Experimentation, 2016, 33, 272-321.	1.5	214
5	Functional coupling of human pancreatic islets and liver spheroids on-a-chip: Towards a novel human ex vivo type 2 diabetes model. Scientific Reports, 2017, 7, 14620.	3.3	205
6	Chip-based human liverâ€"intestine and liverâ€"skin co-cultures â€" A first step toward systemic repeated dose substance testing in vitro. European Journal of Pharmaceutics and Biopharmaceutics, 2015, 95, 77-87.	4.3	171
7	Integrating biological vasculature into a multi-organ-chip microsystem. Lab on A Chip, 2013, 13, 3588.	6.0	155
8	â€˜Human-on-a-chipâ€™ Developments: A Translational Cutting-edge Alternative to Systemic Safety Assessment and Efficiency Evaluation of Substances in Laboratory Animals and Man?. ATLA Alternatives To Laboratory Animals, 2012, 40, 235-257.	1.0	153
9	Bone marrowâ€onâ€aâ€chip: Longâ€term culture of human haematopoietic stem cells in a threeâ€dimensional microfluidic environment. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, 479-489.	2.7	141
10	A multi-organ chip co-culture of neurospheres and liver equivalents for long-term substance testing. Journal of Biotechnology, 2015, 205, 36-46.	3.8	124
11	Biology-inspired microphysiological systems to advance medicines for patient benefit and animal welfare. ALTEX: Alternatives To Animal Experimentation, 2020, 37, 365-394.	1.5	123
12	Non-animal models of epithelial barriers (skin, intestine and lung) in research, industrial applications and regulatory toxicology. ALTEX: Alternatives To Animal Experimentation, 2015, 32, 327-378.	1.5	108
13	Application of Microphysiological Systems to Enhance Safety Assessment in Drug Discovery. Annual Review of Pharmacology and Toxicology, 2018, 58, 65-82.	9.4	95
14	Chip-based liver equivalents for toxicity testing â€" organotypicalness versus cost-efficient high throughput. Lab on A Chip, 2013, 13, 3481.	6.0	94
15	A Human Lymph Node In Vitro?Challenges and Progress. Artificial Organs, 2006, 30, 803-808.	1.9	88
16	Autologous induced pluripotent stem cell-derived four-organ-chip. Future Science OA, 2019, 5, FSO413.	1.9	75
17	Immunological substance testing on human lymphatic micro-organoids in vitro. Journal of Biotechnology, 2010, 148, 38-45.	3.8	74
18	Engineering Blood and Lymphatic Microvascular Networks in Fibrin Matrices. Frontiers in Bioengineering and Biotechnology, 2017, 5, 25.	4.1	74

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19	Human multi-organ chip co-culture of bronchial lung culture and liver spheroids for substance exposure studies. Scientific Reports, 2020, 10, 7865.	3.3	68
20	Design and prototyping of a chip-based multi-micro-organoid culture system for substance testing, predictive to human (substance) exposure. Journal of Biotechnology, 2010, 148, 70-75.	3.8	62
21	The Multi-organ Chip - A Microfluidic Platform for Long-term Multi-tissue Coculture. Journal of Visualized Experiments, 2015, , e52526.	0.3	56
22	Simultaneous evaluation of anti-EGFR-induced tumour and adverse skin effects in a microfluidic human 3D co-culture model. Scientific Reports, 2018, 8, 15010.	3.3	56
23	Human immunity in vitro â€" Solving immunogenicity and more. Advanced Drug Delivery Reviews, 2014, 69-70, 103-122.	13.7	53
24	Nâ€glycosylation and biological activity of recombinant human alpha1â€antitrypsin expressed in a novel human neuronal cell line. Biotechnology and Bioengineering, 2011, 108, 2118-2128.	3.3	51
25	The ascendance of microphysiological systems to solve the drug testing dilemma. Future Science OA, 2017, 3, FSO0185.	1.9	51
26	Emulating human microcapillaries in a multi-organ-chip platform. Journal of Biotechnology, 2015, 216, 1-10.	3.8	48
27	Metalâ€Specific Biomaterial Accumulation in Human Periâ€Implant Bone and Bone Marrow. Advanced Science, 2020, 7, 2000412.	11.2	48
28	Monoclonal Antibody Production. ATLA Alternatives To Laboratory Animals, 1997, 25, 121-135.	1.0	44
29	Optimizing drug discovery by Investigative Toxicology: Current and future trends. ALTEX: Alternatives To Animal Experimentation, 2019, 36, 289-313.	1.5	38
30	Characterization of application scenario-dependent pharmacokinetics and pharmacodynamic properties of permethrin and hyperforin in a dynamic skin and liver multi-organ-chip model. Toxicology, 2021, 448, 152637.	4.2	32
31	Reconstructed human skin shows epidermal invagination towards integrated neopapillae indicating early hair follicle formation in vitro. Journal of Tissue Engineering and Regenerative Medicine, 2020, 14, 761-773.	2.7	31
32	Development and Analysis of Alpha 1-Antitrypsin Neoglycoproteins: The Impact of Additional <i>N</i>-Glycosylation Sites on Serum Half-Life. Molecular Pharmaceutics, 2013, 10, 2616-2629.	4.6	30
33	The role of fibrinolysis inhibition in engineered vascular networks derived from endothelial cells and adipose-derived stem cells. Stem Cell Research and Therapy, 2018, 9, 35.	5.5	30
34	Skin Irritation Testing beyond Tissue Viability: Fucoxanthin Effects on Inflammation, Homeostasis, and Metabolism. Pharmaceutics, 2020, 12, 136.	4.5	30
35	Biological cardio-micro-pumps for microbioreactors and analytical micro-systems. Sensors and Actuators B: Chemical, 2011, 156, 517-526.	7.8	28
36	Bioengineering of a Full-Thickness Skin Equivalent in a 96-Well Insert Format for Substance Permeation Studies and Organ-On-A-Chip Applications. Bioengineering, 2018, 5, 43.	3.5	28

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37	Repeated dose multi-drug testing using a microfluidic chip-based coculture of human liver and kidney proximal tubules equivalents. Scientific Reports, 2020, 10, 8879.	3.3	23
38	Emerging technologies and their impact on regulatory science. Experimental Biology and Medicine, 2022, 247, 1-75.	2.4	22
39	A Method for Determination and Simulation of Permeability and Diffusion in a 3D Tissue Model in a Membrane Insert System for Multi-well Plates. Journal of Visualized Experiments, 2018, , .	0.3	15
40	Crosstalk between Immune Cells and Mesenchymal Stromal Cells in a 3D Bioreactor System. International Journal of Artificial Organs, 2012, 35, 986-995.	1.4	14
41	Demonstration of the firstâ€pass metabolism in the skin of the hair dye, 4â€aminoâ€2â€hydroxytoluene, using the Chip2 skinâ€"liver microphysiological model. Journal of Applied Toxicology, 2021, 41, 1553-1567.	2.8	14
42	Crosstalk between immune cells and mesenchymal stromal cells in a 3D bioreactor system. International Journal of Artificial Organs, 2012, 35, 986-995.	1.4	12
43	The microfollicle: a model of the human hair follicle for in vitro studies. In Vitro Cellular and Developmental Biology - Animal, 2020, 56, 847-858.	1.5	12
44	Improved removal of viruslike particles from purified monoclonal antibody IgM preparation via virus filtration. Nature Biotechnology, 1996, 14, 651-652.	17.5	11
45	Trends in Cell Culture Technology. Advances in Experimental Medicine and Biology, 2012, 745, 26-46.	1.6	11
46	Fluorescent optical fiber sensors for cell viability monitoring. Analyst, The, 2013, 138, 4066.	3.5	9
47	miRNA-mediated expression switch of cell adhesion genes driven by microcirculation in chip. Biochip Journal, 2017, 11, 262-269.	4.9	9
48	An Individual Patient's â€œBodyâ€•on Chipsâ€"How Organismoid Theory Can Translate Into Your Personal Precision Therapy Approach. Frontiers in Medicine, 2021, 8, 728866.	2.6	6
49	Validation of Bioreactor and Human-on-a-Chip Devices for Chemical Safety Assessment. Advances in Experimental Medicine and Biology, 2016, 856, 299-316.	1.6	5
50	Human body-on-a-chip systems. , 2020, , 429-439.		5
51	Microphysiological systems in the evaluation of hematotoxicities during drug development. Current Opinion in Toxicology, 2019, 17, 18-22.	5.0	4
52	Automation and opportunities for industry scale-up of microphysiological systems. , 2020, , 441-462.		4
53	The universal physiological templateâ€"a system to advance medicines. Current Opinion in Toxicology, 2020, 23-24, 1-5.	5.0	4
54	Organotypic tissue culture for substance testing. Journal of Biotechnology, 2010, 148, 1-2.	3.8	3

#	Article	IF	Citations
55	Measurement and Simulation of Permeation and Diffusion in Native and Cultivated Tissue Constructs. , 0, , .		3
56	Generation of four integration-free iPSC lines from related human donors. Stem Cell Research, 2019, 41, 101615.	0.7	3
57	Quantitative MALDI-TOF-MS Using Stable-isotope Labeling: Application to the Analysis of N-glycans of Recombinant Î±-1 Antitrypsin Produced Using Different Culture Parameters. Journal of Carbohydrate Chemistry, 2011, 30, 320-333.	1.1	2
58	Generation of two additional integration-free iPSC lines from related human donors. Stem Cell Research, 2021, 53, 102327.	0.7	1
59	Aspects of vascularization in Multi-Organ-Chips. BMC Proceedings, 2013, 7, O6.	1.6	0