

Stephan Reichl

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

1,891
citations

236925

25
h-index

254184

43
g-index

53
all docs

53
docs citations

53
times ranked

2241
citing authors

#	ARTICLE	IF	CITATIONS
1	Films based on human hair keratin as substrates for cell culture and tissue engineering. <i>Biomaterials</i> , 2009, 30, 6854-6866.	11.4	188
2	Diclofenac sodium delivery to the eye: In vitro evaluation of novel solid lipid nanoparticle formulation using human cornea construct. <i>International Journal of Pharmaceutics</i> , 2008, 355, 307-313.	5.2	182
3	Keratin films for ocular surface reconstruction. <i>Biomaterials</i> , 2011, 32, 3375-3386.	11.4	149
4	RPMI 2650 epithelial model and three-dimensional reconstructed human nasal mucosa as in vitro models for nasal permeation studies. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2010, 74, 290-297.	4.3	104
5	Keratin films for ocular surface reconstruction: Evaluation of biocompatibility in an in-vivo model. <i>Biomaterials</i> , 2015, 42, 112-120.	11.4	78
6	Cell culture models of the human cornea – a comparative evaluation of their usefulness to determine ocular drug absorption in-vitro. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 60, 299-307.	2.4	75
7	Keratin film made of human hair as a nail plate model for studying drug permeation. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2011, 78, 432-440.	4.3	63
8	An alkyl polyglucoside-mixed emulsifier as stabilizer of emulsion systems: The influence of colloidal structure on emulsions skin hydration potential. <i>Journal of Colloid and Interface Science</i> , 2011, 358, 182-191.	9.4	62
9	Review of Alternative Carrier Materials for Ocular Surface Reconstruction. <i>Current Eye Research</i> , 2014, 39, 541-552.	1.5	60
10	Human cornea construct HCC – an alternative for in vitro permeation studies? A comparison with human donor corneas. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2005, 60, 305-308.	4.3	58
11	A gold(III) biscarbene complex with improved activity as a TrxR inhibitor and cytotoxic drug: comparative studies with different gold metallodrugs. <i>Metallomics</i> , 2019, 11, 533-545.	2.4	58
12	The use of a porcine organotypic cornea construct for permeation studies from formulations containing befunolol hydrochloride. <i>International Journal of Pharmaceutics</i> , 2003, 250, 191-201.	5.2	57
13	Cultivation of RPMI 2650 cells as an in-vitro model for human transmucosal nasal drug absorption studies: optimization of selected culture conditions. <i>Journal of Pharmacy and Pharmacology</i> , 2012, 64, 1621-1630.	2.4	51
14	In vitro cell culture models to study the corneal drug absorption. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2011, 7, 559-578.	3.3	40
15	Development of a serum-free human cornea construct for in vitro drug absorption studies: The influence of varying cultivation parameters on barrier characteristics. <i>International Journal of Pharmaceutics</i> , 2011, 416, 268-279.	5.2	39
16	Prevalidation of a Human Cornea Construct as an Alternative to Animal Corneas for In Vitro Drug Absorption Studies. <i>Journal of Pharmaceutical Sciences</i> , 2012, 101, 2976-2988.	3.3	38
17	Toward the practical implementation of eye-related bioavailability prediction models. <i>Drug Discovery Today</i> , 2014, 19, 31-44.	6.4	37
18	Infected nail plate model made of human hair keratin for evaluating the efficacy of different topical antifungal formulations against <i>Trichophyton rubrum</i> in vitro. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2013, 84, 599-605.	4.3	35

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19	Epithelial Wound Healing on Keratin Film, Amniotic Membrane and Polystyrene <i>In Vitro</i> . <i>Current Eye Research</i> , 2014, 39, 561-570.	1.5	32
20	Expression of P-glycoprotein in excised human nasal mucosa and optimized models of RPMI 2650 cells. <i>International Journal of Pharmaceutics</i> , 2016, 508, 22-33.	5.2	32
21	Protein quantitation using various modes of high performance liquid chromatography. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2012, 71, 127-138.	2.8	31
22	Compounding of a topical drug with prospective natural surfactant-stabilized pharmaceutical bases: Physicochemical and in vitro/in vivo characterization – A ketoprofen case study. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2012, 80, 164-175.	4.3	31
23	In vitro characterization and ex vivo surgical evaluation of human hair keratin films in ocular surface reconstruction after sterilization processing. <i>Journal of Materials Science: Materials in Medicine</i> , 2013, 24, 221-230.	3.6	30
24	Multidrug Resistance-Associated Protein (MRP1, 2, 4 and 5) Expression in Human Corneal Cell Culture Models and Animal Corneal Tissue. <i>Molecular Pharmaceutics</i> , 2014, 11, 2160-2171.	4.6	27
25	DynaMiTES – A dynamic cell culture platform for in vitro drug testing PART 2 – Ocular DynaMiTES for drug absorption studies of the anterior eye. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018, 126, 166-176.	4.3	27
26	mRNA Expression of Metabolic Enzymes in Human Cornea, Corneal Cell Lines, and Hemicornea Constructs. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2012, 28, 271-277.	1.4	25
27	Expression analysis of MDR1, BCRP and MRP3 transporter proteins in different in vitro and ex vivo cornea models for drug absorption studies. <i>International Journal of Pharmaceutics</i> , 2013, 441, 765-775.	5.2	25
28	Characterization of Vitamin C-Induced Cell Sheets Formed from Primary and Immortalized Human Corneal Stromal Cells for Tissue Engineering Applications. <i>Cells Tissues Organs</i> , 2013, 197, 283-297.	2.3	24
29	HCE-T cell-based permeability model: A well-maintained or a highly variable barrier phenotype?. <i>European Journal of Pharmaceutical Sciences</i> , 2017, 104, 23-30.	4.0	24
30	DynaMiTES – A dynamic cell culture platform for in vitro drug testing PART 1 – Engineering of microfluidic system and technical simulations. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018, 126, 159-165.	4.3	24
31	Recent progress in tight junction modulation for improving bioavailability. <i>Expert Opinion on Drug Discovery</i> , 2014, 9, 367-381.	5.0	19
32	Development of Acyclovir-Loaded Albumin Nanoparticles and Improvement of Acyclovir Permeation Across Human Corneal Epithelial T Cells. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2017, 33, 743-752.	1.4	19
33	Improved in vitro models for preclinical drug and formulation screening focusing on 2D and 3D skin and cornea constructs. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018, 126, 57-66.	4.3	16
34	Establishing and functional testing of a canine corneal construct. <i>Veterinary Ophthalmology</i> , 2008, 11, 280-289.	1.0	15
35	Activity of Multidrug Resistance-Associated Proteins 1–5 (MRP1–5) in the RPMI 2650 Cell Line and Explants of Human Nasal Turbinate. <i>Molecular Pharmaceutics</i> , 2017, 14, 1577-1590.	4.6	15
36	Examining the Suitability of Riboflavin/UVA Treatment for Strengthening the Stromal Bioequivalent of a Human Cornea Construct. <i>Current Eye Research</i> , 2011, 36, 217-231.	1.5	10

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37	Expression analysis of human solute carrier (SLC) family transporters in nasal mucosa and RPMI 2650 cells. <i>European Journal of Pharmaceutical Sciences</i> , 2018, 123, 277-294.	4.0	10
38	Cell Culture Models of the Corneal Epithelium and Reconstructed Cornea Equivalents for In Vitro Drug Absorption Studies. , 2008, , 283-306.		9
39	Expression of glutathione transferases in corneal cell lines, corneal tissues and a human cornea construct. <i>International Journal of Pharmaceutics</i> , 2016, 506, 371-381.	5.2	9
40	Cytochrome P450 Activity in Ex Vivo Cornea Models and a Human Cornea Construct. <i>Journal of Pharmaceutical Sciences</i> , 2016, 105, 2204-2212.	3.3	9
41	Tissue Barrier-on-Chip: A Technology for Reproducible Practice in Drug Testing. <i>Pharmaceutics</i> , 2022, 14, 1451.	4.5	7
42	Physicochemical investigations of native nails and synthetic models for a better understanding of surface adhesion of nail lacquers. <i>European Journal of Pharmaceutical Sciences</i> , 2019, 131, 208-217.	4.0	5
43	Decellularized human corneal stromal cell sheet as a novel matrix for ocular surface reconstruction. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2020, 14, 1318-1332.	2.7	5
44	A unified in vitro test system for the assessment of tight junction modulators. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2019, 142, 353-363.	4.3	4
45	Upregulation of P-glycoprotein expression by ophthalmic drugs in different corneal in-vitro models. <i>Journal of Pharmacy and Pharmacology</i> , 2015, 67, 605-615.	2.4	4
46	Cell sheet technology: Influence of culture conditions on in vitro cultivated corneal stromal tissue for regenerative therapies of the ocular surface. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2021, 109, 1488-1504.	3.4	3
47	Dexamethasone-loaded keratin films for ocular surface reconstruction. <i>Journal of Materials Science: Materials in Medicine</i> , 2022, 33, 29.	3.6	3
48	New Classes of Polycationic Compounds as Preservatives for Ophthalmic Formulations. <i>Pharmaceutical Research</i> , 2019, 36, 11.	3.5	2
49	Microfluidic System for In Vivo-Like Drug Permeation Studies with Dynamic Dilution Profiles. <i>Bioengineering</i> , 2021, 8, 58.	3.5	2
50	Tissue-based in vitro and ex vivo models for ocular permeability studies. , 2016, , 309-323.		0
51	Parameter study of shipping conditions for the ready-to-use application of a 3D human hemicornea construct in drug absorption studies. <i>International Journal of Pharmaceutics</i> , 2018, 536, 377-387.	5.2	0