

Marcel Egli

List of Publications by Year in descending order

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62
papers

13,237
citations

186209

28
h-index

123376

61
g-index

62
all docs

62
docs citations

62
times ranked

20466
citing authors

#	ARTICLE	IF	CITATIONS
1	Calcium's Role in Mechanotransduction during Muscle Development. Cellular Physiology and Biochemistry, 2014, 33, 249-272.	1.1	11,109
2	Simulated Microgravity: Critical Review on the Use of Random Positioning Machines for Mammalian Cell Culture. BioMed Research International, 2015, 2015, 1-8.	0.9	164
3	Rhythmic Secretion of Prolactin in Rats: Action of Oxytocin Coordinated by Vasoactive Intestinal Polypeptide of Suprachiasmatic Nucleus Origin. Endocrinology, 2004, 145, 3386-3394.	1.4	95
4	Low Intensity and Frequency Pulsed Electromagnetic Fields Selectively Impair Breast Cancer Cell Viability. PLoS ONE, 2013, 8, e72944.	1.1	93
5	Differential Gene Regulation under Altered Gravity Conditions in Follicular Thyroid Cancer Cells: Relationship between the Extracellular Matrix and the Cytoskeleton. Cellular Physiology and Biochemistry, 2011, 28, 185-198.	1.1	88
6	Prolactin secretion patterns: basic mechanisms and clinical implications for reproduction. Reproduction, 2010, 140, 643-654.	1.1	81
7	Short-term weightlessness produced by parabolic flight maneuvers altered gene expression patterns in human endothelial cells. FASEB Journal, 2012, 26, 639-655.	0.2	77
8	Facilities for Simulation of Microgravity in the ESA Ground-Based Facility Programme. Microgravity Science and Technology, 2016, 28, 191-203.	0.7	71
9	Characterization of Human Chondrocytes Exposed to Simulated Microgravity. Cellular Physiology and Biochemistry, 2010, 25, 551-560.	1.1	65
10	Moderate alterations of the cytoskeleton in human chondrocytes after short-term microgravity produced by parabolic flight maneuvers could be prevented by up-regulation of BMP2 and SOX9. FASEB Journal, 2015, 29, 2303-2314.	0.2	65
11	Fluid Dynamics Appearing during Simulated Microgravity Using Random Positioning Machines. PLoS ONE, 2017, 12, e0170826.	1.1	65
12	Changes in Morphology, Gene Expression and Protein Content in Chondrocytes Cultured on a Random Positioning Machine. PLoS ONE, 2013, 8, e79057.	1.1	64
13	Tissue Engineering Under Microgravity Conditions—Use of Stem Cells and Specialized Cells. Stem Cells and Development, 2018, 27, 787-804.	1.1	63
14	A proteomic approach to analysing spheroid formation of two human thyroid cell lines cultured on a random positioning machine. Proteomics, 2011, 11, 2095-2104.	1.3	61
15	Effects of basic fibroblast growth factor on endothelial cells under conditions of simulated microgravity. Journal of Cellular Biochemistry, 2008, 104, 1324-1341.	1.2	57
16	The effects of microgravity on differentiation and cell growth in stem cells and cancer stem cells. Stem Cells Translational Medicine, 2020, 9, 882-894.	1.6	51
17	Application of free-flow IEF to identify protein candidates changing under microgravity conditions. Proteomics, 2010, 10, 904-913.	1.3	50
18	Anatomical and functional characterization of clock gene expression in neuroendocrine dopaminergic neurons. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2006, 290, R1309-R1323.	0.9	49

#	ARTICLE	IF	CITATIONS
19	Three-dimensional growth of human endothelial cells in an automated cell culture experiment container during the SpaceX CRS-8 ISS space mission – The SPHEROIDS project. <i>Biomaterials</i> , 2017, 124, 126-156.	5.7	47
20	Effect of simulated microgravity on growth and production of exopolymeric substances of <i>Micrococcus luteus</i> space and earth isolates. <i>FEMS Immunology and Medical Microbiology</i> , 2010, 59, 350-356.	2.7	46
21	Prolactin secretory rhythm of mated rats induced by a single injection of oxytocin. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2006, 290, E566-E572.	1.8	38
22	Enhanced robustness digital holographic microscopy for demanding environment of space biology. <i>Biomedical Optics Express</i> , 2012, 3, 313.	1.5	37
23	Ambient and supplemental magnetic fields promote myogenesis via a TRPC1-mitochondrial axis: evidence of a magnetic mitohormetic mechanism. <i>FASEB Journal</i> , 2019, 33, 12853-12872.	0.2	37
24	Prolactin secretory rhythm in women: immediate and long-term alterations after sexual contact. <i>Human Reproduction</i> , 2012, 27, 1139-1143.	0.4	34
25	Calcium-dependent deceleration of the cell cycle in muscle cells by simulated microgravity. <i>FASEB Journal</i> , 2013, 27, 2045-2054.	0.2	34
26	Cell cultivation under different gravitational loads using a novel random positioning incubator. <i>Biotechnology and Bioengineering</i> , 2014, 111, 1180-1190.	1.7	34
27	Growth of Endothelial Cells in Space and in Simulated Microgravity – a Comparison on the Secretory Level. <i>Cellular Physiology and Biochemistry</i> , 2019, 52, 1039-1060.	1.1	32
28	The Fight against Cancer by Microgravity: The Multicellular Spheroid as a Metastasis Model. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3073.	1.8	32
29	Lack of Associations between Female Hormone Levels and Visuospatial Working Memory, Divided Attention and Cognitive Bias across Two Consecutive Menstrual Cycles. <i>Frontiers in Behavioral Neuroscience</i> , 2017, 11, 120.	1.0	29
30	Digital holographic microscopy real-time monitoring of cytoarchitectural alterations during simulated microgravity. <i>Journal of Biomedical Optics</i> , 2010, 15, 026021.	1.4	28
31	Accelerated autofocusing of off-axis holograms using critical sampling. <i>Optics Letters</i> , 2012, 37, 5094.	1.7	28
32	Gravitational force modulates G ₂ /M phase exit in mechanically unloaded myoblasts. <i>Cell Cycle</i> , 2013, 12, 3001-3012.	1.3	28
33	Influence of Mechanical Unloading on Articular Chondrocyte Dedifferentiation. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1289.	1.8	28
34	An in Vitro Study on Tissue Repair: Impact of Unloading on Cells Involved in the Remodelling Phase. <i>Microgravity Science and Technology</i> , 2011, 23, 391-401.	0.7	27
35	Metabolic enzyme diversity in different human thyroid cell lines and their sensitivity to gravitational forces. <i>Proteomics</i> , 2012, 12, 2539-2546.	1.3	27
36	A mathematical model for the mating-induced prolactin rhythm of female rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2006, 290, E573-E582.	1.8	25

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37	A Novel Microgravity Simulator Applicable for Three-Dimensional Cell Culturing. <i>Microgravity Science and Technology</i> , 2014, 26, 77-88.	0.7	25
38	Negative affect is unrelated to fluctuations in hormone levels across the menstrual cycle: Evidence from a multisite observational study across two successive cycles. <i>Journal of Psychosomatic Research</i> , 2017, 99, 21-27.	1.2	25
39	The Quality of Sexual Experience in Women Correlates with Post-Orgasmic Prolactin Surges: Results from an Experimental Prototype Study. <i>Journal of Sexual Medicine</i> , 2013, 10, 1313-1319.	0.3	24
40	The Cellular Composition of Bovine Coccygeal Intervertebral Discs: A Comprehensive Single-Cell RNAseq Analysis. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4917.	1.8	24
41	Microfluidic platform for electrophysiological studies on <i>Xenopus laevis</i> oocytes under varying gravity levels. <i>Lab on A Chip</i> , 2011, 11, 3471.	3.1	19
42	Ovarian steroid hormones modulate circadian rhythms of neuroendocrine dopaminergic neuronal activity. <i>Brain Research</i> , 2004, 1005, 164-181.	1.1	16
43	Proteome Analysis of Thyroid Cancer Cells After Long-Term Exposure to a Random Positioning Machine. <i>Microgravity Science and Technology</i> , 2011, 23, 381-390.	0.7	16
44	Electrophysiological experiments in microgravity: lessons learned and future challenges. <i>Npj Microgravity</i> , 2018, 4, 7.	1.9	14
45	Parabolic maneuvers of the Swiss Air Force fighter jet F-5E as a research platform for cell culture experiments in microgravity. <i>Acta Astronautica</i> , 2011, 68, 1729-1741.	1.7	13
46	Simulated microgravity and the antagonistic influence of strigolactone on plant nutrient uptake in low nutrient conditions. <i>Npj Microgravity</i> , 2018, 4, 20.	1.9	13
47	TRPC6 in simulated microgravity of intervertebral disc cells. <i>European Spine Journal</i> , 2018, 27, 2621-2630.	1.0	12
48	Tissue Engineering of Cartilage on Ground-Based Facilities. <i>Microgravity Science and Technology</i> , 2016, 28, 237-245.	0.7	10
49	A Semi-automated Electrophysiology System for Recording from <i>Xenopus</i> Oocytes Under Microgravity Conditions. <i>Microgravity Science and Technology</i> , 2012, 24, 237-244.	0.7	9
50	Associations Between Natural Physiological and Supraphysiological Estradiol Levels and Stress Perception. <i>Frontiers in Psychology</i> , 2019, 10, 1296.	1.1	8
51	Growing blood vessels in space: Preparation studies of the SPHEROIDS project using related ground-based studies. <i>Acta Astronautica</i> , 2019, 159, 267-272.	1.7	7
52	Scalable Microgravity Simulator Used for Long-Term Musculoskeletal Cells and Tissue Engineering. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8908.	1.8	7
53	Molecular genetic analysis of neural stem cells after space flight and simulated microgravity on earth. <i>Biotechnology and Bioengineering</i> , 2021, 118, 3832-3846.	1.7	7
54	Angiotensin II influences the hyperpolarization-activated current I_h in neurones of the rat paraventricular nucleus. <i>Neuroscience Letters</i> , 2002, 330, 53-56.	1.0	6

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55	Microtubules and Vimentin Fiber Stability during Parabolic Flights. <i>Microgravity Science and Technology</i> , 2020, 32, 921-933.	0.7	5
56	Mathematical Modeling and Simulation Provides Evidence for New Strategies of Ovarian Stimulation. <i>Frontiers in Endocrinology</i> , 2021, 12, 613048.	1.5	5
57	A Simple Method to Determine Cytotoxicity of Water-Soluble Organic Compounds and Solid Particles from Biomass Combustion in Lung Cells in Vitro. <i>Environmental Science & Technology</i> , 2019, 53, 3959-3968.	4.6	4
58	Calcium dependent current recordings in <i>Xenopus laevis</i> oocytes in microgravity. <i>Acta Astronautica</i> , 2017, 141, 228-236.	1.7	3
59	Cognitive function in association with high estradiol levels resulting from fertility treatment. <i>Hormones and Behavior</i> , 2021, 130, 104951.	1.0	3
60	Retrograde Analysis of Calcium Signaling by CaMPARI2 Shows Cytosolic Calcium in Chondrocytes Is Unaffected by Parabolic Flights. <i>Biomedicines</i> , 2022, 10, 138.	1.4	2
61	Electrophysiological Recordings on a Sounding Rocket: Report of a First Attempt Using <i>Xenopus laevis</i> Oocytes. <i>Gravitational and Space Research: Publication of the American Society for Gravitational and Space Research</i> , 2017, 5, 43-56.	0.3	1
62	Cytosolic calcium and membrane potential in articular chondrocytes during parabolic flight. <i>Acta Astronautica</i> , 2022, 193, 287-302.	1.7	0