

# Marcel Egli

## List of Publications by Year in descending order

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Version: 2024-02-01

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	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
2	Cytosolic calcium and membrane potential in articular chondrocytes during parabolic flight. <i>Acta Astronautica</i> , 2022, 193, 287-302.	1.7	0
3	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
4	Mathematical Modeling and Simulation Provides Evidence for New Strategies of Ovarian Stimulation. <i>Frontiers in Endocrinology</i> , 2021, 12, 613048.	1.5	5
5	Cognitive function in association with high estradiol levels resulting from fertility treatment. <i>Hormones and Behavior</i> , 2021, 130, 104951.	1.0	3
6	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
7	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
8	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
9	Microtubules and Vimentin Fiber Stability during Parabolic Flights. <i>Microgravity Science and Technology</i> , 2020, 32, 921-933.	0.7	5
10	The effects of microgravity on differentiation and cell growth in stem cells and cancer stem cells. <i>Stem Cells Translational Medicine</i> , 2020, 9, 882-894.	1.6	51
11	Associations Between Natural Physiological and Supraphysiological Estradiol Levels and Stress Perception. <i>Frontiers in Psychology</i> , 2019, 10, 1296.	1.1	8
12	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
13	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
14	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 &amp; Technology</i> , 2019, 53, 3959-3968.	4.6	4
15	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
16	Electrophysiological experiments in microgravity: lessons learned and future challenges. <i>Npj Microgravity</i> , 2018, 4, 7.	1.9	14
17	Tissue Engineering Under Microgravity Conditions – Use of Stem Cells and Specialized Cells. <i>Stem Cells and Development</i> , 2018, 27, 787-804.	1.1	63
18	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

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19	TRPC6 in simulated microgravity of intervertebral disc cells. <i>European Spine Journal</i> , 2018, 27, 2621-2630.	1.0	12
20	Influence of Mechanical Unloading on Articular Chondrocyte Dedifferentiation. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1289.	1.8	28
21	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
22	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
23	Calcium dependent current recordings in <i>Xenopus laevis</i> oocytes in microgravity. <i>Acta Astronautica</i> , 2017, 141, 228-236.	1.7	3
24	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
25	Fluid Dynamics Appearing during Simulated Microgravity Using Random Positioning Machines. <i>PLoS ONE</i> , 2017, 12, e0170826.	1.1	65
26	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
27	Facilities for Simulation of Microgravity in the ESA Ground-Based Facility Programme. <i>Microgravity Science and Technology</i> , 2016, 28, 191-203.	0.7	71
28	Tissue Engineering of Cartilage on Ground-Based Facilities. <i>Microgravity Science and Technology</i> , 2016, 28, 237-245.	0.7	10
29	Simulated Microgravity: Critical Review on the Use of Random Positioning Machines for Mammalian Cell Culture. <i>BioMed Research International</i> , 2015, 2015, 1-8.	0.9	164
30	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. <i>FASEB Journal</i> , 2015, 29, 2303-2314.	0.2	65
31	Cell cultivation under different gravitational loads using a novel random positioning incubator. <i>Biotechnology and Bioengineering</i> , 2014, 111, 1180-1190.	1.7	34
32	Calcium's Role in Mechanotransduction during Muscle Development. <i>Cellular Physiology and Biochemistry</i> , 2014, 33, 249-272.	1.1	11,109
33	A Novel Microgravity Simulator Applicable for Three-Dimensional Cell Culturing. <i>Microgravity Science and Technology</i> , 2014, 26, 77-88.	0.7	25
34	Calcium-dependent deceleration of the cell cycle in muscle cells by simulated microgravity. <i>FASEB Journal</i> , 2013, 27, 2045-2054.	0.2	34
35	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
36	Gravitational force modulates G <sub>2</sub> /M phase exit in mechanically unloaded myoblasts. <i>Cell Cycle</i> , 2013, 12, 3001-3012.	1.3	28

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37	Low Intensity and Frequency Pulsed Electromagnetic Fields Selectively Impair Breast Cancer Cell Viability. PLoS ONE, 2013, 8, e72944.	1.1	93
38	Changes in Morphology, Gene Expression and Protein Content in Chondrocytes Cultured on a Random Positioning Machine. PLoS ONE, 2013, 8, e79057.	1.1	64
39	Accelerated autofocusing of off-axis holograms using critical sampling. Optics Letters, 2012, 37, 5094.	1.7	28
40	Enhanced robustness digital holographic microscopy for demanding environment of space biology. Biomedical Optics Express, 2012, 3, 313.	1.5	37
41	Prolactin secretory rhythm in women: immediate and long-term alterations after sexual contact. Human Reproduction, 2012, 27, 1139-1143.	0.4	34
42	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
43	A Semi-automated Electrophysiology System for Recording from Xenopus Oocytes Under Microgravity Conditions. Microgravity Science and Technology, 2012, 24, 237-244.	0.7	9
44	Metabolic enzyme diversity in different human thyroid cell lines and their sensitivity to gravitational forces. Proteomics, 2012, 12, 2539-2546.	1.3	27
45	Microfluidic platform for electrophysiological studies on Xenopus laevis oocytes under varying gravity levels. Lab on A Chip, 2011, 11, 3471.	3.1	19
46	Proteome Analysis of Thyroid Cancer Cells After Long-Term Exposure to a Random Positioning Machine. Microgravity Science and Technology, 2011, 23, 381-390.	0.7	16
47	An in Vitro Study on Tissue Repair: Impact of Unloading on Cells Involved in the Remodelling Phase. Microgravity Science and Technology, 2011, 23, 391-401.	0.7	27
48	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
49	Parabolic maneuvers of the Swiss Air Force fighter jet F-5E as a research platform for cell culture experiments in microgravity. Acta Astronautica, 2011, 68, 1729-1741.	1.7	13
50	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
51	Application of free-flow IEF to identify protein candidates changing under microgravity conditions. Proteomics, 2010, 10, 904-913.	1.3	50
52	Effect of simulated microgravity on growth and production of exopolymeric substances of <i>Micrococcus luteus</i> space and earth isolates. FEMS Immunology and Medical Microbiology, 2010, 59, 350-356.	2.7	46
53	Prolactin secretion patterns: basic mechanisms and clinical implications for reproduction. Reproduction, 2010, 140, 643-654.	1.1	81
54	Digital holographic microscopy real-time monitoring of cytoarchitectural alterations during simulated microgravity. Journal of Biomedical Optics, 2010, 15, 026021.	1.4	28

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55	Characterization of Human Chondrocytes Exposed to Simulated Microgravity. Cellular Physiology and Biochemistry, 2010, 25, 551-560.	1.1	65
56	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
57	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
58	Prolactin secretory rhythm of mated rats induced by a single injection of oxytocin. American Journal of Physiology - Endocrinology and Metabolism, 2006, 290, E566-E572.	1.8	38
59	A mathematical model for the mating-induced prolactin rhythm of female rats. American Journal of Physiology - Endocrinology and Metabolism, 2006, 290, E573-E582.	1.8	25
60	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
61	Ovarian steroid hormones modulate circadian rhythms of neuroendocrine dopaminergic neuronal activity. Brain Research, 2004, 1005, 164-181.	1.1	16
62	Angiotensin II influences the hyperpolarization-activated current I <sub>h</sub> in neurones of the rat paraventricular nucleus. Neuroscience Letters, 2002, 330, 53-56.	1.0	6