

# Markus HengstschlÄäger

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3996287/publications.pdf>

Version: 2024-02-01

84  
papers

4,734  
citations

172457

29  
h-index

102487

66  
g-index

84  
all docs

84  
docs citations

84  
times ranked

8485  
citing authors

#	ARTICLE	IF	CITATIONS
1	Regulation of innate immune cell function by mTOR. <i>Nature Reviews Immunology</i> , 2015, 15, 599-614.	22.7	612
2	In vitro cell migration and invasion assays. <i>Mutation Research - Reviews in Mutation Research</i> , 2013, 752, 10-24.	5.5	605
3	Oct-4-expressing cells in human amniotic fluid: a new source for stem cell research?. <i>Human Reproduction</i> , 2003, 18, 1489-1493.	0.9	321
4	Comparison of cancer cells cultured in 2D vs 3D reveals differences in AKT/mTOR/S6-kinase signaling and drug response. <i>Journal of Cell Science</i> , 2017, 130, 203-218.	2.0	308
5	<scp>mTORC</scp>1 and <scp>mTORC</scp>2 as regulators of cell metabolism in immunity. <i>FEBS Letters</i> , 2017, 591, 3089-3103.	2.8	194
6	Chronic signaling via the metabolic checkpoint kinase mTORC1 induces macrophage granuloma formation and marks sarcoidosis progression. <i>Nature Immunology</i> , 2017, 18, 293-302.	14.5	191
7	Cancer-associated fibroblast-derived WNT2 increases tumor angiogenesis in colon cancer. <i>Angiogenesis</i> , 2020, 23, 159-177.	7.2	174
8	The mTOR pathway and its role in human genetic diseases. <i>Mutation Research - Reviews in Mutation Research</i> , 2008, 659, 284-292.	5.5	156
9	Neurogenic cells in human amniotic fluid. <i>American Journal of Obstetrics and Gynecology</i> , 2004, 191, 309-314.	1.3	134
10	Modeling human carcinomas: Physiologically relevant 3D models to improve anti-cancer drug development. <i>Advanced Drug Delivery Reviews</i> , 2014, 79-80, 50-67.	13.7	129
11	The tuberous sclerosis gene products hamartin and tuberin are multifunctional proteins with a wide spectrum of interacting partners. <i>Mutation Research - Reviews in Mutation Research</i> , 2008, 658, 234-246.	5.5	125
12	Albumin is the major carrier protein for PFOS, PFOA, PFHxS, PFNA and PFDA in human plasma. <i>Environment International</i> , 2020, 137, 105324.	10.0	123
13	The relevance of the individual genetic background for the toxicokinetics of two significant neurodevelopmental toxicants: Mercury and lead. <i>Mutation Research - Reviews in Mutation Research</i> , 2010, 705, 130-140.	5.5	115
14	mTOR-Mediated Regulation of Dendritic Cell Differentiation and Function. <i>Trends in Immunology</i> , 2016, 37, 778-789.	6.8	93
15	Stem Cells in Amniotic Fluid as New Tools to Study Human Genetic Diseases. <i>Stem Cell Reviews and Reports</i> , 2007, 3, 256-264.	5.6	77
16	Efficient siRNA-mediated prolonged gene silencing in human amniotic fluid stem cells. <i>Nature Protocols</i> , 2010, 5, 1081-1095.	12.0	70
17	The Resazurin Reduction Assay Can Distinguish Cytotoxic from Cytostatic Compounds in Spheroid Screening Assays. <i>Journal of Biomolecular Screening</i> , 2014, 19, 1047-1059.	2.6	70
18	The HDL receptor SR-BI is associated with human prostate cancer progression and plays a possible role in establishing androgen independence. <i>Reproductive Biology and Endocrinology</i> , 2015, 13, 88.	3.3	67

#	ARTICLE	IF	CITATIONS
19	Increased complexity in carcinomas: Analyzing and modeling the interaction of human cancer cells with their microenvironment. <i>Seminars in Cancer Biology</i> , 2015, 35, 107-124.	9.6	60
20	Exclusion from spheroid formation identifies loss of essential cell-cell adhesion molecules in colon cancer cells. <i>Scientific Reports</i> , 2018, 8, 1151.	3.3	59
21	STAT5BN642H is a driver mutation for T cell neoplasia. <i>Journal of Clinical Investigation</i> , 2017, 128, 387-401.	8.2	57
22	Quantification of HDL Proteins, Cardiac Events, and Mortality in Patients with Type 2 Diabetes on Hemodialysis. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , 2015, 10, 224-231.	4.5	54
23	Inverse Data-Driven Modeling and Multiomics Analysis Reveals Phgdh as a Metabolic Checkpoint of Macrophage Polarization and Proliferation. <i>Cell Reports</i> , 2020, 30, 1542-1552.e7.	6.4	52
24	Mercury toxicokinetics of the healthy human term placenta involve amino acid transporters and ABC transporters. <i>Toxicology</i> , 2016, 340, 34-42.	4.2	44
25	STAT3 promotes melanoma metastasis by CEBP-induced repression of the MITF pathway. <i>Oncogene</i> , 2021, 40, 1091-1105.	5.9	42
26	Stromal fibroblasts shape the myeloid phenotype in normal colon and colorectal cancer and induce CD163 and CCL2 expression in macrophages. <i>Cancer Letters</i> , 2021, 520, 184-200.	7.2	40
27	Genetics of the human placenta: implications for toxicokinetics. <i>Archives of Toxicology</i> , 2016, 90, 2563-2581.	4.2	36
28	The tuberous sclerosis genes and regulation of the cyclin-dependent kinase inhibitor p27. <i>Mutation Research - Reviews in Mutation Research</i> , 2006, 613, 10-16.	5.5	33
29	Variations of Protein Levels in Human Amniotic Fluid Stem Cells CD117/2 Over Passages 5 <sup>~</sup> 25. <i>Journal of Proteome Research</i> , 2009, 8, 5285-5295.	3.7	31
30	Reliable Quantification of Protein Expression and Cellular Localization in Histological Sections. <i>PLoS ONE</i> , 2014, 9, e100822.	2.5	31
31	Geophagy during pregnancy: Is there a health risk for infants?. <i>Environmental Research</i> , 2017, 156, 145-147.	7.5	28
32	The transplacental transfer efficiency of per- and polyfluoroalkyl substances (PFAS): a first meta-analysis. <i>Journal of Toxicology and Environmental Health - Part B: Critical Reviews</i> , 2022, 25, 23-42.	6.5	27
33	Subtelomeric rearrangements as neutral genomic polymorphisms. , 2005, 133A, 48-52.		26
34	mTOR protein localization is cell cycle-regulated. <i>Cell Cycle</i> , 2011, 10, 3608-3610.	2.6	25
35	Targeting Epigenetic Readers in Cancer. <i>New England Journal of Medicine</i> , 2012, 367, 1764-1765.	27.0	25
36	Amniotic fluid stem cells and fetal cell microchimerism. <i>Trends in Molecular Medicine</i> , 2013, 19, 271-272.	6.7	25

#	ARTICLE	IF	CITATIONS
37	Human stem cells alter the invasive properties of somatic cells via paracrine activation of mTORC1. <i>Nature Communications</i> , 2017, 8, 595.	12.8	25
38	The Decision on the "Optimal" Human Pluripotent Stem Cell. <i>Stem Cells Translational Medicine</i> , 2014, 3, 553-559.	3.3	23
39	Increasing Live Birth Rate by Preimplantation Genetic Screening of Pooled Polar Bodies Using Array Comparative Genomic Hybridization. <i>PLoS ONE</i> , 2015, 10, e0128317.	2.5	23
40	The unfolded protein response impacts melanoma progression by enhancing FGF expression and can be antagonized by a chemical chaperone. <i>Scientific Reports</i> , 2017, 7, 17498.	3.3	22
41	Tuberin and PRAS40 are anti-apoptotic gatekeepers during early human amniotic fluid stem-cell differentiation. <i>Human Molecular Genetics</i> , 2012, 21, 1049-1061.	2.9	21
42	Rapamycin Maintains the Chondrocytic Phenotype and Interferes with Inflammatory Cytokine Induced Processes. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1494.	4.1	21
43	Malignant Phenotypes in Metastatic Melanoma are Governed by SR-BI and its Association with Glycosylation and STAT5 Activation. <i>Molecular Cancer Research</i> , 2018, 16, 135-146.	3.4	21
44	Prenatal diagnosis of tetrasomy 9p with Dandy-Walker malformation. <i>Prenatal Diagnosis</i> , 2004, 24, 623-626.	2.3	19
45	Inhibition of mTOR down-regulates scavenger receptor, class B, type I (SR-BI) expression, reduces endothelial cell migration and impairs nitric oxide production. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2014, 1841, 944-953.	2.4	19
46	Methylmercury Uptake into BeWo Cells Depends on LAT2-4F2hc, a System L Amino Acid Transporter. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1730.	4.1	19
47	Amniotic Fluid Stem Cells: Future Perspectives. <i>Stem Cells International</i> , 2012, 2012, 1-6.	2.5	16
48	mTORC1 Is Essential for Early Steps during Schwann Cell Differentiation of Amniotic Fluid Stem Cells and Regulates Lipogenic Gene Expression. <i>PLoS ONE</i> , 2014, 9, e107004.	2.5	15
49	In vitro function and in situ localization of Multidrug Resistance-associated Protein (MRP)1 (ABCC1) suggest a protective role against methyl mercury-induced oxidative stress in the human placenta. <i>Archives of Toxicology</i> , 2020, 94, 3799-3817.	4.2	14
50	Amino Acid Transporter LAT1 (SLC7A5) Mediates MeHg-Induced Oxidative Stress Defense in the Human Placental Cell Line HTR-8/SVneo. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1707.	4.1	13
51	Gene Variants Determine Placental Transfer of Perfluoroalkyl Substances (PFAS), Mercury (Hg) and Lead (Pb), and Birth Outcome: Findings From the UmMuKi Bratislava-Vienna Study. <i>Frontiers in Genetics</i> , 2021, 12, 664946.	2.3	13
52	eIF3 controls cell size independently of S6K1-activity. <i>Oncotarget</i> , 2015, 6, 24361-24375.	1.8	13
53	Rapamycin-Induced Hypoxia Inducible Factor 2A Is Essential for Chondrogenic Differentiation of Amniotic Fluid Stem Cells. <i>Stem Cells Translational Medicine</i> , 2016, 5, 580-590.	3.3	12
54	An Optimized 3D Coculture Assay for Preclinical Testing of Pro- and Antiangiogenic Drugs. <i>SLAS Discovery</i> , 2017, 22, 602-613.	2.7	12

#	ARTICLE	IF	CITATIONS
55	Effects of the mTOR inhibitor everolimus and the PI3K/mTOR inhibitor NVP-BEZ235 in murine acute lung injury models. <i>Transplant Immunology</i> , 2015, 33, 45-50.	1.2	11
56	Loss of SR-BI Down-Regulates MITF and Suppresses Extracellular Vesicle Release in Human Melanoma. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1063.	4.1	11
57	Metastatic colorectal carcinoma-associated fibroblasts have immunosuppressive properties related to increased IGFBP2 expression. <i>Cancer Letters</i> , 2022, 540, 215737.	7.2	10
58	The HDL particle composition determines its antitumor activity in pancreatic cancer. <i>Life Science Alliance</i> , 2022, 5, e202101317.	2.8	10
59	Tuberin – A New Molecular Target in Alzheimer’s Disease?. <i>Neurochemical Research</i> , 2005, 30, 1413-1419.	3.3	9
60	Fetal magnetic resonance imaging and human genetics. <i>European Journal of Radiology</i> , 2006, 57, 312-315.	2.6	9
61	Insights into Differentiation of Melanocytes from Human Stem Cells and Their Relevance for Melanoma Treatment. <i>Cancers</i> , 2020, 12, 2508.	3.7	8
62	Human Embryo Models and Drug Discovery. <i>International Journal of Molecular Sciences</i> , 2021, 22, 637.	4.1	8
63	Perfluorooctane sulfonic acid (PFOS) inhibits vessel formation in a human 3D co-culture angiogenesis model (NCFs/HUVECs). <i>Environmental Pollution</i> , 2022, 293, 118543.	7.5	8
64	Phosphorylation of nuclear and cytoplasmic pools of ribosomal protein S6 during cell cycle progression. <i>Amino Acids</i> , 2013, 44, 1233-1240.	2.7	7
65	Full biological characterization of human pluripotent stem cells will open the door to translational research. <i>Archives of Toxicology</i> , 2016, 90, 2173-2186.	4.2	7
66	Proteome analysis of NRF2 inhibition in melanoma reveals CD44 up-regulation and increased apoptosis resistance upon vemurafenib treatment. <i>Cancer Medicine</i> , 2022, 11, 956-967.	2.8	7
67	New insights into the role of the tuberous sclerosis genes in leukemia. <i>Leukemia Research</i> , 2009, 33, 883-885.	0.8	6
68	Fetomaternal microchimerism and genetic diagnosis: On the origins of fetal cells and cell-free fetal DNA in the pregnant woman. <i>Mutation Research - Reviews in Mutation Research</i> , 2021, 788, 108399.	5.5	5
69	Amniotic Fluid Stem Cells: What They Are and What They Can Become. <i>Current Stem Cell Research and Therapy</i> , 2023, 18, 7-16.	1.3	5
70	Spatial consequences of blocking mTOR/S6K: Relevance for therapy. <i>Cell Cycle</i> , 2012, 11, 420-421.	2.6	4
71	Embryoid research calls for reassessment of legal regulations. <i>Stem Cell Research and Therapy</i> , 2021, 12, 356.	5.5	4
72	p38 regulates the tumor suppressor PDCD4 via the TSC-mTORC1 pathway. <i>Cell Stress</i> , 2021, 5, 176-182.	3.2	4

#	ARTICLE	IF	CITATIONS
73	Generation of metastatic melanoma specific antibodies by affinity purification. Scientific Reports, 2016, 6, 37253.	3.3	3
74	A haunted beast: Targeting STAT5BN642H in T-Cell Neoplasia. Molecular and Cellular Oncology, 2018, 5, e1435181.	0.7	3
75	Physical Activity and Sedentary Time in Pregnancy: An Exploratory Study on Oxidative Stress Markers in the Placenta of Women with Obesity. Biomedicines, 2022, 10, 1069.	3.2	3
76	Amniotic fluid stem cells to study mTOR signaling in differentiation. Organogenesis, 2012, 8, 96-100.	1.2	2
77	Letter to the Editor: Human Pluripotent Stem Cells Release Oncogenic Soluble E-Cadherin. Stem Cells, 2016, 34, 2443-2446.	3.2	2
78	Three-dimensional migration of human amniotic fluid stem cells involves mesenchymal and amoeboid modes and is regulated by mTORC1. Stem Cells, 2021, 39, 1718-1732.	3.2	2
79	The cellular response to ectopic overexpression of the tuberous sclerosis genes, TSC1 and TSC2: a proteomic approach. International Journal of Oncology, 2005, 27, 831-8.	3.3	2
80	OUP accepted manuscript. Clinical Chemistry, 2022, , .	3.2	2
81	Amniotic Fluid Stem Cell Features Supporting Their Putative Role in Fetal Cell Microchimerism. , 2014, , 53-58.		1
82	Stem Cell-Induced Cell Motility: A Removable Obstacle on the Way to Safe Therapies?. Stem Cells Translational Medicine, 2022, 11, 26-34.	3.3	1
83	Intercellular protein expression variability as a feature of stem cell pluripotency. Amino Acids, 2013, 45, 1315-1317.	2.7	0
84	Amniotic fluid stem cells and the cell source repertoire for non-invasive prenatal testing. Stem Cell Reviews and Reports, 2021, , 1.	3.8	0