

Gunther Wennemuth

List of Publications by Year in descending order

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Version: 2024-02-01

66
papers

2,713
citations

185998

28
h-index

189595

50
g-index

69
all docs

69
docs citations

69
times ranked

3816
citing authors

#	ARTICLE	IF	CITATIONS
1	Sperm-specific protein kinase A catalytic subunit C \hat{A} 2 orchestrates cAMP signaling for male fertility. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 13483-13488.	3.3	217
2	Bicarbonate actions on flagellar and Ca ²⁺ -channel responses: initial events in sperm activation. Development (Cambridge), 2003, 130, 1317-1326.	1.2	176
3	CaV2.2 and CaV2.3 (N- and R-type) Ca ²⁺ Channels in Depolarization-evoked Entry of Ca ²⁺ into Mouse Sperm. Journal of Biological Chemistry, 2000, 275, 21210-21217.	1.6	159
4	An Olfactory Subsystem that Detects Carbon Disulfide and Mediates Food-Related Social Learning. Current Biology, 2010, 20, 1438-1444.	1.8	151
5	Calcium Clearance Mechanisms of Mouse Sperm. Journal of General Physiology, 2003, 122, 115-128.	0.9	132
6	The liquid overlay technique is the key to formation of co-culture spheroids consisting of primary osteoblasts, fibroblasts and endothelial cells. Cytotherapy, 2011, 13, 1000-1012.	0.3	116
7	The cellular mechanism for water detection in the mammalian taste system. Nature Neuroscience, 2017, 20, 927-933.	7.1	99
8	Remote ischemic preconditioning regulates HIF-1 $\hat{\pm}$ levels, apoptosis and inflammation in heart tissue of cardiosurgical patients: a pilot experimental study. Basic Research in Cardiology, 2013, 108, 314.	2.5	93
9	Release of Macrophage Migration Inhibitory Factor and CXCL8/Interleukin-8 from Lung Epithelial Cells Rendered Necrotic by Influenza A Virus Infection. Journal of Virology, 2002, 76, 9298-9306.	1.5	89
10	Characterization of the Olfactory Receptors Expressed in Human Spermatozoa. Frontiers in Molecular Biosciences, 2015, 2, 73.	1.6	74
11	TRPM7 kinase activity is essential for T cell colonization and alloreactivity in the gut. Nature Communications, 2017, 8, 1917.	5.8	70
12	Lactate flux in astrocytes is enhanced by a non \hat{c} atalytic action of carbonic anhydrase II. Journal of Physiology, 2012, 590, 2333-2351.	1.3	63
13	A Distinct Oncogenerative Multinucleated Cancer Cell Serves as a Source of Stemness and Tumor Heterogeneity. Cancer Research, 2018, 78, 2318-2331.	0.4	63
14	Purification and Characterization of Macrophage Migration Inhibitory Factor as a Secretory Protein from Rat Epididymis: Evidences for Alternative Release and Transfer to Spermatozoa. Molecular Medicine, 2001, 7, 27-35.	1.9	61
15	Beyond Repair Foci: DNA Double-Strand Break Repair in Euchromatic and Heterochromatic Compartments Analyzed by Transmission Electron Microscopy. PLoS ONE, 2012, 7, e38165.	1.1	58
16	Influence of macrophage migration inhibitory factor (MIF) on the zinc content and redox state of protein-bound sulphhydryl groups in rat sperm: indications for a new role of MIF in sperm maturation. Molecular Human Reproduction, 2004, 10, 605-611.	1.3	57
17	DNA repair in the context of chromatin: New molecular insights by the nanoscale detection of DNA repair complexes using transmission electron microscopy. DNA Repair, 2011, 10, 427-437.	1.3	57
18	NAADP and the two-pore channel protein 1 participate in the acrosome reaction in mammalian spermatozoa. Molecular Biology of the Cell, 2014, 25, 948-964.	0.9	53

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19	Fibronectin in human prostatic cells in vivo and in vitro: expression, distribution, and pathological significance. <i>Histochemistry and Cell Biology</i> , 1999, 112, 51-61.	0.8	52
20	Role of Carbonic Anhydrase IV in the Bicarbonate-Mediated Activation of Murine and Human Sperm. <i>PLoS ONE</i> , 2010, 5, e15061.	1.1	43
21	Phospholipid hydroperoxide glutathione peroxidase: expression pattern during testicular development in mouse and evolutionary conservation in spermatozoa. <i>Molecular Reproduction and Development</i> , 2004, 67, 458-464.	1.0	41
22	CEACAM1 promotes CD8+ T cell responses and improves control of a chronic viral infection. <i>Nature Communications</i> , 2018, 9, 2561.	5.8	41
23	Targeted disruption of <i>Slc2a8</i> (GLUT8) reduces motility and mitochondrial potential of spermatozoa. <i>Molecular Membrane Biology</i> , 2008, 25, 224-235.	2.0	40
24	Episodic rolling and transient attachments create diversity in sperm swimming behavior. <i>BMC Biology</i> , 2014, 12, 67.	1.7	40
25	Prostate specific membrane antigen (PSM) is expressed in various human tissues: implication for the use of PSM reverse transcription polymerase chain reaction to detect hematogenous prostate cancer spread. <i>Urological Research</i> , 1999, 27, 23-27.	1.5	36
26	Neuroendocrine Cells of the Prostate Derive from the Neural Crest. <i>Journal of Biological Chemistry</i> , 2017, 292, 2021-2031.	1.6	32
27	Basigin interacts with both MCT1 and MCT2 in murine spermatozoa. <i>Journal of Cellular Physiology</i> , 2012, 227, 2154-2162.	2.0	31
28	Macrophage Migration Inhibitory Factor-Induced Ca ²⁺ Response in Rat Testicular Peritubular Cells ¹ . <i>Biology of Reproduction</i> , 2000, 62, 1632-1639.	1.2	30
29	Glucose is a pH-Dependent Motor for Sperm Beat Frequency during Early Activation. <i>PLoS ONE</i> , 2012, 7, e41030.	1.1	30
30	Intensity of Androgen and Epidermal Growth Factor Receptor Immunoreactivity in Samples of Radical Prostatectomy as Prognostic Indicator: Correlation With Clinical Data of Long-Term Observations. <i>Journal of Urology</i> , 2006, 176, 532-537.	0.2	29
31	Protein kinase CK2 and new binding partners during spermatogenesis. <i>Cellular and Molecular Life Sciences</i> , 2010, 67, 3905-3913.	2.4	28
32	Four-dimensional analysis by high-speed holographic imaging reveals a chiral memory of sperm flagella. <i>PLoS ONE</i> , 2018, 13, e0199678.	1.1	28
33	Cytotoxic stress induces transfer of mitochondria-associated human endogenous retroviral RNA and proteins between cancer cells. <i>Oncotarget</i> , 2017, 8, 95945-95964.	0.8	28
34	Normal Fertility Requires the Expression of Carbonic Anhydrases II and IV in Sperm. <i>Journal of Biological Chemistry</i> , 2015, 290, 29202-29216.	1.6	27
35	The intramembrane protease <i>SPPL2c</i> promotes male germ cell development by cleaving phospholamban. <i>EMBO Reports</i> , 2019, 20, .	2.0	27
36	Accumulation of DNA damage in complex normal tissues after protracted low-dose radiation. <i>DNA Repair</i> , 2012, 11, 823-832.	1.3	25

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37	Anti-carcinoembryonic antigen-related cell adhesion molecule antibody for fluorescence visualization of primary colon cancer and metastases in patient-derived orthotopic xenograft mouse models. <i>Oncotarget</i> , 2020, 11, 429-439.	0.8	25
38	The deregulation of miR-17/CCND1 axis during neuroendocrine transdifferentiation of LNCaP prostate cancer cells. <i>PLoS ONE</i> , 2018, 13, e0200472.	1.1	24
39	Reduced myofibroblast differentiation on femtosecond laser treated 316LS stainless steel. <i>Materials Science and Engineering C</i> , 2013, 33, 901-908.	3.8	23
40	Expression and Enzymic Activity of Ecto 5'-Nucleotidase in the Human Male Genital Tract. <i>Biology of Reproduction</i> , 1998, 59, 190-196.	1.2	22
41	Micro- and nanostructured Al ₂ O ₃ surfaces for controlled vascular endothelial and smooth muscle cell adhesion and proliferation. <i>Materials Science and Engineering C</i> , 2012, 32, 1017-1024.	3.8	22
42	TPC1 deficiency or blockade augments systemic anaphylaxis and mast cell activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 18068-18078.	3.3	21
43	3D structure and in situ arrangements of CatSper channel in the sperm flagellum. <i>Nature Communications</i> , 2022, 13, .	5.8	21
44	Induction of Osteogenic Differentiation by Nanostructured Alumina Surfaces. <i>Journal of Biomedical Nanotechnology</i> , 2014, 10, 831-845.	0.5	17
45	Angiotensin II-mediated calcium signals and mitogenesis in human prostate stromal cell line hPCPs. <i>British Journal of Pharmacology</i> , 2005, 144, 3-10.	2.7	16
46	ABCG2 is expressed in late spermatogenesis and is associated with the acrosome. <i>Biochemical and Biophysical Research Communications</i> , 2009, 378, 302-307.	1.0	14
47	Regional distribution of neuroendocrine cells in the urogenital duct system of the male rat. <i>Prostate</i> , 2012, 72, 326-337.	1.2	13
48	Bradykinin increases intracellular calcium levels in rat testis peritubular cells via the B2 receptor subtype. <i>British Journal of Pharmacology</i> , 2003, 138, 351-358.	2.7	10
49	Loss of RBMS1 as a regulatory target of miR-106b influences cell growth, gap closing and colony forming in prostate carcinoma. <i>Scientific Reports</i> , 2020, 10, 18022.	1.6	10
50	The regulation of HAS3 by miR-10b and miR-29a in neuroendocrine transdifferentiated LNCaP prostate cancer cells. <i>Biochemical and Biophysical Research Communications</i> , 2020, 523, 713-718.	1.0	9
51	Immunohistochemistry of a prostate membrane specific protein during development and maturation of the human prostate. <i>Journal of Anatomy</i> , 1997, 190, 343-349.	0.9	8
52	Soluble CEACAM1 and CEACAM6 are differently expressed in blood serum of pregnant women during normal pregnancy. <i>American Journal of Reproductive Immunology</i> , 2017, 78, e12700.	1.2	7
53	In vitro postovulatory oocyte aging affects H3K9 trimethylation in two-cell embryos after IVF. <i>Annals of Anatomy</i> , 2020, 227, 151424.	1.0	7
54	Fluorophore-conjugated <i>Helicobacter pylori</i> recombinant membrane protein (HopQ) labels primary colon cancer and metastases in orthotopic mouse models by binding CEA-related cell adhesion molecules. <i>Translational Oncology</i> , 2020, 13, 100857.	1.7	6

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55	Increased Expression of AKT3 in Neuroendocrine Differentiated Prostate Cancer Cells Alters the Response Towards Anti-Androgen Treatment. <i>Cancers</i> , 2021, 13, 578.	1.7	6
56	CatSper and its Ca ²⁺ sensor EFCAB9 are necessary for the path chirality of sperm. <i>FASEB Journal</i> , 2022, 36, e22288.	0.2	6
57	Independent signals determine the subcellular localization of NEP in prostate cancer cells. <i>Biochemical and Biophysical Research Communications</i> , 2003, 310, 919-926.	1.0	4
58	Ca ²⁺ clearance mechanisms in cancer cell lines and stromal cells of the prostate. <i>Prostate</i> , 2014, 74, 29-40.	1.2	4
59	Analysis of Gene Expression and Ultrastructure of Stifle Menisci from Juvenile and Adult Pigs. <i>Comparative Medicine</i> , 2016, 66, 30-40.	0.4	4
60	Analysis of Argonaute Complex Bound mRNAs in DU145 Prostate Carcinoma Cells Reveals New miRNA Target Genes. <i>Prostate Cancer</i> , 2017, 2017, 1-12.	0.4	3
61	Bicarbonate action on early events in sperm activation. <i>Annals of Anatomy</i> , 2004, 186, 293-294.	1.0	2
62	Expression of proteinase-activated receptor (PAR2) is androgen-dependent in stromal cell line (hPCPs) from benign prostatic hyperplasia. <i>Prostate</i> , 2010, 70, 1350-1358.	1.2	2
63	RIM2 is a molecular scaffold for Zona pellucida-induced acrosome reaction. <i>Journal of Molecular Cell Biology</i> , 2014, 6, 434-437.	1.5	2
64	The IP3R Binding Protein Released With Inositol 1,4,5-Trisphosphate Is Expressed in Rodent Reproductive Tissue and Spermatozoa. <i>Journal of Cellular Physiology</i> , 2016, 231, 1114-1129.	2.0	1
65	Controlling fibroblast adhesion and proliferation by 1D Al ₂ O ₃ nanostructures. <i>IET Nanobiotechnology</i> , 2019, 13, 621-625.	1.9	1
66	Editorial Comment on: Stem Cell Characteristics in Prostate Cancer Cell Lines. <i>European Urology</i> , 2010, 57, 254.	0.9	0