

Helmut Dolznig

List of Publications by Year in descending order

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96
papers

5,069
citations

94433

37
h-index

95266

68
g-index

102
all docs

102
docs citations

102
times ranked

9012
citing authors

#	ARTICLE	IF	CITATIONS
1	In vitro cell migration and invasion assays. <i>Mutation Research - Reviews in Mutation Research</i> , 2013, 752, 10-24.	5.5	605
2	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
3	Cancer-associated fibroblast-derived WNT2 increases tumor angiogenesis in colon cancer. <i>Angiogenesis</i> , 2020, 23, 159-177.	7.2	174
4	Lipoxygenase mediates invasion of intrametastatic lymphatic vessels and propagates lymph node metastasis of human mammary carcinoma xenografts in mouse. <i>Journal of Clinical Investigation</i> , 2011, 121, 2000-2012.	8.2	163
5	Hepatic tumor stroma crosstalk guides epithelial to mesenchymal transition at the tumor edge. <i>Oncogene</i> , 2009, 28, 4022-4033.	5.9	157
6	Modeling Colon Adenocarcinomas in Vitro. <i>American Journal of Pathology</i> , 2011, 179, 487-501.	3.8	155
7	Evidence for a size-sensing mechanism in animal cells. <i>Nature Cell Biology</i> , 2004, 6, 899-905.	10.3	145
8	STAT3 regulated ARF expression suppresses prostate cancer metastasis. <i>Nature Communications</i> , 2015, 6, 7736.	12.8	136
9	Apoptosis Protection by the Epo Target Bcl-XL Allows Factor-Independent Differentiation of Primary Erythroblasts. <i>Current Biology</i> , 2002, 12, 1076-1085.	3.9	130
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	PDGFR blockade is a rational and effective therapy for NPM-ALK driven lymphomas. <i>Nature Medicine</i> , 2012, 18, 1699-1704.	30.7	113
12	Autocrine WNT2 signaling in fibroblasts promotes colorectal cancer progression. <i>Oncogene</i> , 2017, 36, 5460-5472.	5.9	107
13	Leukemic transformation of normal murine erythroid progenitors: v- and c-ErbB act through signaling pathways activated by the EpoR and c-Kit in stress erythropoiesis. <i>Oncogene</i> , 2001, 20, 3651-3664.	5.9	103
14	Establishment of normal, terminally differentiating mouse erythroid progenitors: molecular characterization by cDNA arrays. <i>FASEB Journal</i> , 2001, 15, 1442-1444.	0.5	101
15	Directed differentiation and mass cultivation of pure erythroid progenitors from mouse embryonic stem cells. <i>Blood</i> , 2004, 104, 1873-1880.	1.4	101
16	Stat5 activation enables erythropoiesis in the absence of EpoR and Jak2. <i>Blood</i> , 2008, 111, 4511-4522.	1.4	101
17	IGFBP7, a novel tumor stroma marker, with growth-promoting effects in colon cancer through a paracrine tumor stroma interaction. <i>Oncogene</i> , 2015, 34, 815-825.	5.9	98
18	Isolation of polysome-bound mRNA from solid tissues amenable for RT-PCR and profiling experiments. <i>Rna</i> , 2007, 13, 414-421.	3.5	91

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19	FLI-1 inhibits differentiation and induces proliferation of primary erythroblasts. <i>Oncogene</i> , 1999, 18, 1597-1608.	5.9	85
20	Embryoid body formation of human amniotic fluid stem cells depends on mTOR. <i>Oncogene</i> , 2010, 29, 966-977.	5.9	74
21	Characterization of cancer stroma markers: in silico analysis of an mRNA expression database for fibroblast activation protein and endosialin. <i>Cancer Immunity</i> , 2005, 5, 10.	3.2	71
22	Efficient siRNA-mediated prolonged gene silencing in human amniotic fluid stem cells. <i>Nature Protocols</i> , 2010, 5, 1081-1095.	12.0	70
23	Contribution of human amniotic fluid stem cells to renal tissue formation depends on mTOR. <i>Human Molecular Genetics</i> , 2010, 19, 3320-3331.	2.9	70
24	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
25	Loss of miR-200 family in 5-fluorouracil resistant colon cancer drives lymphendothelial invasiveness in vitro. <i>Human Molecular Genetics</i> , 2015, 24, 3689-98.	2.9	70
26	Cigarette smoke facilitates allergen penetration across respiratory epithelium. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2009, 64, 398-405.	5.7	68
27	Stromal-derived IGF2 promotes colon cancer progression via paracrine and autocrine mechanisms. <i>Oncogene</i> , 2017, 36, 5341-5355.	5.9	63
28	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
29	Expression of stromal cell markers in distinct compartments of human skin cancers. <i>Journal of Cutaneous Pathology</i> , 2006, 33, 145-155.	1.3	59
30	NF- κ B mediates the 12(S)-HETE-induced endothelial to mesenchymal transition of lymphendothelial cells during the intravasation of breast carcinoma cells. <i>British Journal of Cancer</i> , 2011, 105, 263-271.	6.4	59
31	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
32	Erythroid progenitor renewal versus differentiation: genetic evidence for cell autonomous, essential functions of EpoR, Stat5 and the GR. <i>Oncogene</i> , 2006, 25, 2890-2900.	5.9	56
33	Bay11-7082 inhibits the disintegration of the lymphendothelial barrier triggered by MCF-7 breast cancer spheroids; the role of ICAM-1 and adhesion. <i>British Journal of Cancer</i> , 2013, 108, 564-569.	6.4	44
34	Three-dimensional and co-culture models for preclinical evaluation of metal-based anticancer drugs. <i>Investigational New Drugs</i> , 2015, 33, 835-847.	2.6	44
35	Xanthohumol attenuates tumour cell-mediated breaching of the lymphendothelial barrier and prevents intravasation and metastasis. <i>Archives of Toxicology</i> , 2013, 87, 1301-1312.	4.2	41
36	Colon cancer cell-derived 12(S)-HETE induces the retraction of cancer-associated fibroblast via MLC2, RHO/ROCK and Ca ²⁺ signalling. <i>Cellular and Molecular Life Sciences</i> , 2017, 74, 1907-1921.	5.4	40

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37	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
38	Putting the brakes on mammary tumorigenesis: Loss of STAT1 predisposes to intraepithelial neoplasias. <i>Oncotarget</i> , 2011, 2, 1043-1054.	1.8	40
39	MISpherID: a knowledgebase and transparency tool for minimum information in spheroid identity. <i>Nature Methods</i> , 2021, 18, 1294-1303.	19.0	38
40	hVps37A Status Affects Prognosis and Cetuximab Sensitivity in Ovarian Cancer. <i>Clinical Cancer Research</i> , 2011, 17, 7816-7827.	7.0	37
41	High EMT Signature Score of Invasive Non-Small Cell Lung Cancer (NSCLC) Cells Correlates with NF κ B Driven Colony-Stimulating Factor 2 (CSF2/GM-CSF) Secretion by Neighboring Stromal Fibroblasts. <i>PLoS ONE</i> , 2015, 10, e0124283.	2.5	37
42	Genetics of the human placenta: implications for toxicokinetics. <i>Archives of Toxicology</i> , 2016, 90, 2563-2581.	4.2	36
43	The ratio of STAT1 to STAT3 expression is a determinant of colorectal cancer growth. <i>Oncotarget</i> , 2016, 7, 51096-51106.	1.8	34
44	Laser Capture Microdissection of Epithelial Cancers Guided by Antibodies Against Fibroblast Activation Protein and Endosialin. <i>Diagnostic Molecular Pathology</i> , 2006, 15, 35-42.	2.1	31
45	Reliable Quantification of Protein Expression and Cellular Localization in Histological Sections. <i>PLoS ONE</i> , 2014, 9, e100822.	2.5	31
46	Pharmacological insight into the anti-inflammatory activity of sesquiterpene lactones from <i>Neurolaena lobata</i> (L.) R.Br. ex Cass. <i>Phytomedicine</i> , 2014, 21, 1695-1701.	5.3	30
47	Cancer cell-derived 12(S)-HETE signals via 12-HETE receptor, RHO, ROCK and MLC2 to induce lymph endothelial barrier breaching. <i>British Journal of Cancer</i> , 2016, 115, 364-370.	6.4	29
48	Colorectal cancer cell-derived microRNA200 modulates the resistance of adjacent blood endothelial barriers in vitro. <i>Oncology Reports</i> , 2016, 36, 3065-3071.	2.6	29
49	Cell Size Control: New Evidence for a General Mechanism. <i>Cell Cycle</i> , 2005, 4, 418-421.	2.6	28
50	Steering of carcinoma progression by the YIN/YANG interaction of STAT1/STAT3. <i>BioScience Trends</i> , 2017, 11, 1-8.	3.4	27
51	Human amniotic fluid stem cells as a model for functional studies of genes involved in human genetic diseases or oncogenesis. <i>Oncotarget</i> , 2011, 2, 705-712.	1.8	27
52	Terminal differentiation of normal chicken erythroid progenitors: shortening of G1 correlates with loss of D-cyclin/cdk4 expression and altered cell size control. <i>Cell Growth & Differentiation: the Molecular Biology Journal of the American Association for Cancer Research</i> , 1995, 6, 1341-52.	0.8	27
53	In vitro characterisation of the anti-intravasative properties of the marine product heteronemin. <i>Archives of Toxicology</i> , 2013, 87, 1851-1861.	4.2	26
54	An open data ecosystem for cell migration research. <i>Trends in Cell Biology</i> , 2015, 25, 55-58.	7.9	26

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55	Expansion and Differentiation of Immature Mouse and Human Hematopoietic Progenitors. , 2005, 105, 323-344.		24
56	Inhibition of tumour spheroid-induced prometastatic intravasation gates in the lymph endothelial cell barrier by carbamazepine: drug testing in a 3D model. Archives of Toxicology, 2013, 88, 691-9.	4.2	24
57	Short-course radiotherapy promotes pro-inflammatory macrophages via extracellular vesicles in human rectal cancer. , 2020, 8, e000667.		24
58	Tumour cell apoptosis modulates the colorectal cancer immune microenvironment via interleukin-8-dependent neutrophil recruitment. Cell Death and Disease, 2022, 13, 113.	6.3	24
59	Short 42Â°C heat shock induces phosphorylation and degradation of Cdc25A which depends on p38MAPK, Chk2 and 14.3.3. Human Molecular Genetics, 2009, 18, 1990-2000.	2.9	23
60	In vitro inhibition of breast cancer spheroid-induced lymphendothelial defects resembling intravasation into the lymphatic vasculature by acetohexamide, isoxsuprine, nifedipin and proadifen. British Journal of Cancer, 2013, 108, 570-578.	6.4	23
61	Mapping the Metabolic Networks of Tumor Cells and Cancer-Associated Fibroblasts. Cells, 2021, 10, 304.	4.1	23
62	Mouse endosialin, a C-type lectin-like cell surface receptor: expression during embryonic development and induction in experimental cancer neoangiogenesis. Cancer Immunity, 2006, 6, 10.	3.2	23
63	Avian erythropoiesis and erythroleukemia: towards understanding the role of the biomolecules involved. Biochimica Et Biophysica Acta: Reviews on Cancer, 1996, 1288, M35-M47.	7.4	21
64	Tuberin and PRAS40 are anti-apoptotic gatekeepers during early human amniotic fluid stem-cell differentiation. Human Molecular Genetics, 2012, 21, 1049-1061.	2.9	21
65	KMT2C methyltransferase domain regulated INK4A expression suppresses prostate cancer metastasis. Molecular Cancer, 2022, 21, 89.	19.2	21
66	Inactivation of mTORC2 in macrophages is a signature of colorectal cancer that promotes tumorigenesis. JCI Insight, 2019, 4, .	5.0	19
67	12(S)-HETE increases intracellular Ca ²⁺ in lymph-endothelial cells disrupting their barrier function in vitro; stabilization by clinical drugs impairing calcium supply. Cancer Letters, 2016, 380, 174-183.	7.2	18
68	Intravasation of SW620 colon cancer cell spheroids through the blood endothelial barrier is inhibited by clinical drugs and flavonoids in vitro. Food and Chemical Toxicology, 2018, 111, 114-124.	3.6	18
69	Dynamics of Cell Cycle Regulators: Artefact-Free Analysis by Recultivation of Cells Synchronized by Centrifugal Elutriation. DNA and Cell Biology, 1997, 16, 849-859.	1.9	16
70	Organotypic spheroid cultures to study tumorâ€™stroma interaction during cancer development. Drug Discovery Today: Disease Models, 2011, 8, 113-119.	1.2	16
71	Different cytoplasmic/nuclear distribution of S6 protein phosphorylated at S240/244 and S235/236. Amino Acids, 2011, 40, 595-600.	2.7	15
72	An Optimized 3D Coculture Assay for Preclinical Testing of Pro- and Antiangiogenic Drugs. SLAS Discovery, 2017, 22, 602-613.	2.7	12

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73	Reverse Strand Priming: A Versatile cDNA Radiolabeling Method for Differential Hybridization on Nucleic Acid Arrays. <i>BioTechniques</i> , 1999, 26, 846-850.	1.8	11
74	The dichloromethane extract of the ethnomedicinal plant <i>Neurolaena lobata</i> inhibits NPM/ALK expression which is causal for anaplastic large cell lymphomagenesis. <i>International Journal of Oncology</i> , 2013, 42, 338-348.	3.3	10
75	Metastatic colorectal carcinoma-associated fibroblasts have immunosuppressive properties related to increased IGFBP2 expression. <i>Cancer Letters</i> , 2022, 540, 215737.	7.2	10
76	The germacranolide sesquiterpene lactone neurolenin B of the medicinal plant <i>Neurolaena lobata</i> (L.) R.Br. ex Cass inhibits NPM/ALK-driven cell expansion and NF- κ B-driven tumour intravasation. <i>Phytomedicine</i> , 2015, 22, 862-874.	5.3	9
77	Lobatin B inhibits NPM/ALK and NF- κ B attenuating anaplastic-large-cell-lymphomagenesis and lymphendothelial tumour intravasation. <i>Cancer Letters</i> , 2015, 356, 994-1006.	7.2	8
78	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
79	CDKs as therapeutic targets for the human genetic disease tuberous sclerosis?. <i>European Journal of Clinical Investigation</i> , 2009, 39, 1033-1035.	3.4	7
80	Cell Cycle Regulation and Erythroid Differentiation. <i>Current Topics in Microbiology and Immunology</i> , 1996, 212, 175-194.	1.1	6
81	Mouse thymidine kinase stability in vivo and after in vitro translation. <i>BBA - Proteins and Proteomics</i> , 1997, 1338, 267-274.	2.1	5
82	Amniotic fluid stem cell-based models to study the effects of gene mutations and toxicants on male germ cell formation. <i>Asian Journal of Andrology</i> , 2012, 14, 247-250.	1.6	5
83	Irradiated cancer exosomes promote M1-like polarization of macrophages and enhance their anti-tumoral responses. <i>European Journal of Cancer</i> , 2019, 110, S32-S33.	2.8	2
84	Impaired ferritin mRNA translation in primary erythroid progenitors: shift to iron-dependent regulation by the v-ErbA oncoprotein. <i>Blood</i> , 1999, 94, 4321-32.	1.4	2
85	New and Highly Efficient Therapy for Treatment NPM-ALK Associated Lymphomas. <i>Blood</i> , 2011, 118, 1659-1659.	1.4	1
86	Abstract 630: Co-injection of human fibroblasts significantly enhances tumorigenicity of orthotopically implanted human non-small cell lung cancer cells in immunocompromised mice. , 2016, , .		1
87	OC-04 Expression of protease activated receptor-1 and tissue factor in human cancers determined by gene expression profiling and laser capture microdissection. <i>Thrombosis Research</i> , 2010, 125, S162.	1.7	0
88	Cancer Associated Fibroblasts as Therapeutic Targets. , 2011, , 383-401.		0
89	273 Modelling tumor-stroma crosstalk in vivo by co-implantation of human fibroblasts and human lung cancer cells orthotopically into immunocompromised mice. <i>European Journal of Cancer</i> , 2015, 51, S50-S51.	2.8	0
90	ID: 263. <i>Cytokine</i> , 2015, 76, 112.	3.2	0

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91	Preclinical Cancer Models with the Potential to Predict Clinical Response. , 2016, , 97-122.		0
92	M1 polarization of tumor-associated macrophages after irradiation of human rectal cancer in patients and 3D co-culture model. European Journal of Cancer, 2018, 92, S25.	2.8	0
93	Abstract 5458: Individual and combined activities of STAT1 and STAT3 have prognostic relevance for the progression of colorectal carcinoma.. , 2013, , .		0
94	Drug resistance mediated changes in lymphendothelial tumor cell intravasation. International Journal of Clinical Pharmacology and Therapeutics, 2014, 52, 82-84.	0.6	0
95	Impaired Ferritin mRNA Translation in Primary Erythroid Progenitors: Shift to Iron-Dependent Regulation by the v-ErbA Oncoprotein. Blood, 1999, 94, 4321-4332.	1.4	0
96	Abstract 1655: Organotypic 3D models to characterize the molecular requirements for NK and T-cell infiltration. , 2017, , .		0