

Leoni A Kunz-Schughart

List of Publications by Year in descending order

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67
papers

10,000
citations

145106

33
h-index

111975

67
g-index

69
all docs

69
docs citations

69
times ranked

17096
citing authors

#	ARTICLE	IF	CITATIONS
1	Validation of CD98hc as a Therapeutic Target for a Combination of Radiation and Immunotherapies in Head and Neck Squamous Cell Carcinoma. <i>Cancers</i> , 2022, 14, 1677.	1.7	7
2	Intracellular Amplifiers of Reactive Oxygen Species Affecting Mitochondria as Radiosensitizers. <i>Cancers</i> , 2022, 14, 208.	1.7	5
3	Targeting of p21-Activated Kinase 4 Radiosensitizes Glioblastoma Cells via Impaired DNA Repair. <i>Cells</i> , 2022, 11, 2133.	1.8	2
4	Indospicine combined with arginine deprivation triggers cancer cell death via caspase-dependent apoptosis. <i>Cell Biology International</i> , 2021, 45, 518-527.	1.4	2
5	Dual role of ER stress in response to metabolic co-targeting and radiosensitivity in head and neck cancer cells. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 3021-3044.	2.4	8
6	Reciprocal interactions between tumour cell populations enhance growth and reduce radiation sensitivity in prostate cancer. <i>Communications Biology</i> , 2021, 4, 6.	2.0	23
7	GLS-driven glutamine catabolism contributes to prostate cancer radiosensitivity by regulating the redox state, stemness and ATG5-mediated autophagy. <i>Theranostics</i> , 2021, 11, 7844-7868.	4.6	70
8	Mathematical model for the thermal enhancement of radiation response: thermodynamic approach. <i>Scientific Reports</i> , 2021, 11, 5503.	1.6	11
9	Efficient Heat Shock Response Affects Hyperthermia-Induced Radiosensitization in a Tumor Spheroid Control Probability Assay. <i>Cancers</i> , 2021, 13, 3168.	1.7	3
10	Models for Translational Proton Radiobiology—From Bench to Bedside and Back. <i>Cancers</i> , 2021, 13, 4216.	1.7	11
11	MISpheroid: a knowledgebase and transparency tool for minimum information in spheroid identity. <i>Nature Methods</i> , 2021, 18, 1294-1303.	9.0	38
12	An ovarian spheroid based tumor model that represents vascularized tumors and enables the investigation of nanomedicine therapeutics. <i>Nanoscale</i> , 2020, 12, 1894-1903.	2.8	22
13	Microenvironmentally-driven Plasticity of CD44 isoform expression determines Engraftment and Stem-like Phenotype in CRC cell lines. <i>Theranostics</i> , 2020, 10, 7599-7621.	4.6	11
14	Spectral and spatial shaping of laser-driven proton beams using a pulsed high-field magnet beamline. <i>Scientific Reports</i> , 2020, 10, 9118.	1.6	31
15	SATB1 as oncogenic driver and potential therapeutic target in head & neck squamous cell carcinoma (HNSCC). <i>Scientific Reports</i> , 2020, 10, 8615.	1.6	8
16	The CD98 Heavy Chain Is a Marker and Regulator of Head and Neck Squamous Cell Carcinoma Radiosensitivity. <i>Clinical Cancer Research</i> , 2019, 25, 3152-3163.	3.2	53
17	Mutant IDH1 Differently Affects Redox State and Metabolism in Glial Cells of Normal and Tumor Origin. <i>Cancers</i> , 2019, 11, 2028.	1.7	23
18	Oxidative Phosphorylation as an Emerging Target in Cancer Therapy. <i>Clinical Cancer Research</i> , 2018, 24, 2482-2490.	3.2	687

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19	Arginine Deprivation Therapy: Putative Strategy to Eradicate Glioblastoma Cells by Radiosensitization. <i>Molecular Cancer Therapeutics</i> , 2018, 17, 393-406.	1.9	25
20	A Complex Scenario and Underestimated Challenge: The Tumor Microenvironment, ER Stress, and Cancer Treatment. <i>Current Medicinal Chemistry</i> , 2018, 25, 2465-2502.	1.2	20
21	The why and how of amino acid analytics in cancer diagnostics and therapy. <i>Journal of Biotechnology</i> , 2017, 242, 30-54.	1.9	48
22	Nanoparticles for radiooncology: Mission, vision, challenges. <i>Biomaterials</i> , 2017, 120, 155-184.	5.7	87
23	Efficacy of Beta1 Integrin and EGFR Targeting in Sphere-Forming Human Head and Neck Cancer Cells. <i>Journal of Cancer</i> , 2016, 7, 736-745.	1.2	15
24	Co-application of canavanine and irradiation uncouples anticancer potential of arginine deprivation from citrulline availability. <i>Oncotarget</i> , 2016, 7, 73292-73308.	0.8	9
25	The anti-malarial atovaquone increases radiosensitivity by alleviating tumour hypoxia. <i>Nature Communications</i> , 2016, 7, 12308.	5.8	173
26	Arginine starvation in colorectal carcinoma cells: Sensing, impact on translation control and cell cycle distribution. <i>Experimental Cell Research</i> , 2016, 341, 67-74.	1.2	13
27	Arginine deprivation induces endoplasmic reticulum stress in human solid cancer cells. <i>International Journal of Biochemistry and Cell Biology</i> , 2016, 70, 29-38.	1.2	32
28	Aldehyde Dehydrogenase Is Regulated by β -Catenin/TCF and Promotes Radioresistance in Prostate Cancer Progenitor Cells. <i>Cancer Research</i> , 2015, 75, 1482-1494.	0.4	195
29	Cancer stem cell related markers of radioresistance in head and neck squamous cell carcinoma. <i>Oncotarget</i> , 2015, 6, 34494-34509.	0.8	88
30	Macromolecule Extravasation in Xenograft Size Matters: A Systematic Study Using Probe-Based Confocal Laser Endomicroscopy (pCLE). <i>Molecular Imaging and Biology</i> , 2013, 15, 693-702.	1.3	5
31	Discovery of the cancer stem cell related determinants of radioresistance. <i>Radiotherapy and Oncology</i> , 2013, 108, 378-387.	0.3	159
32	Three-dimensional environment renders cancer cells profoundly less susceptible to a single amino acid starvation. <i>Amino Acids</i> , 2013, 45, 1221-1230.	1.2	16
33	CD133 as a biomarker for putative cancer stem cells in solid tumours: limitations, problems and challenges. <i>Journal of Pathology</i> , 2013, 229, 355-378.	2.1	252
34	Cancer Stem Cells as a Predictive Factor in Radiotherapy. <i>Seminars in Radiation Oncology</i> , 2012, 22, 151-174.	1.0	83
35	Single amino acid arginine starvation efficiently sensitizes cancer cells to canavanine treatment and irradiation. <i>International Journal of Cancer</i> , 2012, 130, 2164-2175.	2.3	41
36	Characterization and modulation of fibroblast/endothelial cell co-cultures for the <i>in vitro</i> preformation of three-dimensional tubular networks. <i>Cell Biology International</i> , 2011, 35, 1097-1110.	1.4	37

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37	Microarrays for the scalable production of metabolically relevant tumour spheroids: a tool for modulating chemosensitivity traits. <i>Lab on A Chip</i> , 2011, 11, 419-428.	3.1	78
38	Genome and Transcriptome Profiles of CD133-Positive Colorectal Cancer Cells. <i>American Journal of Pathology</i> , 2011, 178, 1478-1488.	1.9	20
39	Relevance of disease- and organ-specific endothelial cells for in vitro research. <i>Cell Biology International</i> , 2010, 34, 1231-1238.	1.4	15
40	Multicellular tumor spheroids: An underestimated tool is catching up again. <i>Journal of Biotechnology</i> , 2010, 148, 3-15.	1.9	1,376
41	Importance of CCL2-CCR2A/2B signaling for monocyte migration into spheroids of breast cancer-derived fibroblasts. <i>Immunobiology</i> , 2010, 215, 737-747.	0.8	58
42	CD133 expression is not selective for tumor-initiating or radioresistant cell populations in the CRC cell line HCT-116. <i>Radiotherapy and Oncology</i> , 2010, 94, 375-383.	0.3	32
43	Spheroid-based drug screen: considerations and practical approach. <i>Nature Protocols</i> , 2009, 4, 309-324.	5.5	1,353
44	Impact of exogenous lactate on survival and radioresponse of carcinoma cells in vitro. <i>International Journal of Radiation Biology</i> , 2009, 85, 989-1001.	1.0	14
45	Fibroblastic reaction and vascular maturation in human colon cancers. <i>International Journal of Radiation Biology</i> , 2009, 85, 1013-1025.	1.0	11
46	Temozolomide Preferentially Depletes Cancer Stem Cells in Glioblastoma. <i>Cancer Research</i> , 2008, 68, 5706-5715.	0.4	269
47	Validity of a patient-derived system of tissue-specific human endothelial cells: interleukin-6 as a surrogate marker in the coronary system. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007, 293, H1721-H1728.	1.5	4
48	In vivo Imaging of the Systemic Recruitment of Fibroblasts to the Angiogenic Rim of Ovarian Carcinoma Tumors. <i>Cancer Research</i> , 2007, 67, 9180-9189.	0.4	90
49	Inhibitory effect of tumor cell-derived lactic acid on human T cells. <i>Blood</i> , 2007, 109, 3812-3819.	0.6	1,361
50	A Reliable Tool to Determine Cell Viability in Complex 3-D Culture: The Acid Phosphatase Assay. <i>Journal of Biomolecular Screening</i> , 2007, 12, 925-937.	2.6	178
51	Lactate adversely affects the in vitro formation of endothelial cell tubular structures through the action of TGF- β 1. <i>Experimental Cell Research</i> , 2007, 313, 2531-2549.	1.2	25
52	Experimental anti-tumor therapy in 3-D: Spheroids – old hat or new challenge?. <i>International Journal of Radiation Biology</i> , 2007, 83, 849-871.	1.0	384
53	Brave Little World: Spheroids as an in vitro Model to Study Tumor-Immune-Cell Interactions. <i>Cell Cycle</i> , 2006, 5, 691-695.	1.3	77
54	Tumor-derived lactic acid modulates dendritic cell activation and antigen expression. <i>Blood</i> , 2006, 107, 2013-2021.	0.6	541

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55	Potential of fibroblasts to regulate the formation of three-dimensional vessel-like structures from endothelial cells in vitro. American Journal of Physiology - Cell Physiology, 2006, 290, C1385-C1398.	2.1	155
56	The fibroblast: Sentinel cell and local immune modulator in tumor tissue. International Journal of Cancer, 2004, 108, 173-180.	2.3	163
57	The Use of 3-D Cultures for High-Throughput Screening: The Multicellular Spheroid Model. Journal of Biomolecular Screening, 2004, 9, 273-285.	2.6	689
58	Tumor-Derived Lactic Acid Modulates Dendritic Cell Activation and Differentiation.. Blood, 2004, 104, 4246-4246.	0.6	1
59	Metabolic classification of human rectal adenocarcinomas: a novel guideline for clinical oncologists?. Journal of Cancer Research and Clinical Oncology, 2003, 129, 321-326.	1.2	93
60	Tumor-associated fibroblasts recruit blood monocytes into tumor tissue. European Journal of Immunology, 2003, 33, 1311-1320.	1.6	123
61	Identification of genes expressed in tumor-associated macrophages. Immunobiology, 2003, 207, 351-359.	0.8	21
62	Three-dimensional tissue structure affects sensitivity of fibroblasts to TGF- β 1. American Journal of Physiology - Cell Physiology, 2003, 284, C209-C219.	2.1	33
63	Phosphorous metabolites and steady-state energetics of transformed fibroblasts during three-dimensional growth. American Journal of Physiology - Cell Physiology, 2002, 283, C1287-C1297.	2.1	6
64	Three-dimensional fibroblast-tumor cell interaction causes downregulation of RACK1 mRNA expression in breast cancer cells in vitro. International Journal of Cancer, 2002, 102, 129-136.	2.3	45
65	A Heterologous 3-D Coculture Model of Breast Tumor Cells and Fibroblasts to Study Tumor-Associated Fibroblast Differentiation. Experimental Cell Research, 2001, 266, 74-86.	1.2	124
66	Multicellular spheroids: a three-dimensional in vitro culture system to study tumour biology. International Journal of Experimental Pathology, 1998, 79, 1-23.	0.6	300
67	Three-dimensional cell culture induces novel proliferative and metabolic alterations associated with oncogenic transformation. , 1996, 66, 578-586.		47