Leoni A Kunz-Schughart

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/9054262/publications.pdf

Version: 2024-02-01

126708 98622 10,000 67 33 67 citations h-index g-index papers 69 69 69 15578 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Multicellular tumor spheroids: An underestimated tool is catching up again. Journal of Biotechnology, 2010, 148, 3-15.	1.9	1,376
2	Inhibitory effect of tumor cell–derived lactic acid on human T cells. Blood, 2007, 109, 3812-3819.	0.6	1,361
3	Spheroid-based drug screen: considerations and practical approach. Nature Protocols, 2009, 4, 309-324.	5 . 5	1,353
4	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
5	Oxidative Phosphorylation as an Emerging Target in Cancer Therapy. Clinical Cancer Research, 2018, 24, 2482-2490.	3. 2	687
6	Tumor-derived lactic acid modulates dendritic cell activation and antigen expression. Blood, 2006, 107, 2013-2021.	0.6	541
7	Experimental anti-tumor therapy in 3-D: Spheroids – old hat or new challenge?. International Journal of Radiation Biology, 2007, 83, 849-871.	1.0	384
8	Multicellular spheroids: a threeâ€dimensionalin vitroculture system to study tumour biology. International Journal of Experimental Pathology, 1998, 79, 1-23.	0.6	300
9	Temozolomide Preferentially Depletes Cancer Stem Cells in Glioblastoma. Cancer Research, 2008, 68, 5706-5715.	0.4	269
10	CD133 as a biomarker for putative cancer stem cells in solid tumours: limitations, problems and challenges. Journal of Pathology, 2013, 229, 355-378.	2.1	252
11	Aldehyde Dehydrogenase Is Regulated by β-Catenin/TCF and Promotes Radioresistance in Prostate Cancer Progenitor Cells. Cancer Research, 2015, 75, 1482-1494.	0.4	195
12	A Reliable Tool to Determine Cell Viability in Complex 3-D Culture: The Acid Phosphatase Assay. Journal of Biomolecular Screening, 2007, 12, 925-937.	2.6	178
13	The anti-malarial atovaquone increases radiosensitivity by alleviating tumour hypoxia. Nature Communications, 2016, 7, 12308.	5.8	173
14	The fibroblast: Sentinel cell and local immune modulator in tumor tissue. International Journal of Cancer, 2004, 108, 173-180.	2.3	163
15	Discovery of the cancer stem cell related determinants of radioresistance. Radiotherapy and Oncology, 2013, 108, 378-387.	0.3	159
16	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
17	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
18	Tumor-associated fibroblasts recruit blood monocytes into tumor tissue. European Journal of Immunology, 2003, 33, 1311-1320.	1.6	123

#	Article	IF	CITATIONS
19	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
20	<i>In vivo</i> Imaging of the Systemic Recruitment of Fibroblasts to the Angiogenic Rim of Ovarian Carcinoma Tumors. Cancer Research, 2007, 67, 9180-9189.	0.4	90
21	Cancer stem cell related markers of radioresistance in head and neck squamous cell carcinoma. Oncotarget, 2015, 6, 34494-34509.	0.8	88
22	Nanoparticles for radiooncology: Mission, vision, challenges. Biomaterials, 2017, 120, 155-184.	5.7	87
23	Cancer Stem Cells as a Predictive Factor in Radiotherapy. Seminars in Radiation Oncology, 2012, 22, 151-174.	1.0	83
24	Microarrays for the scalable production of metabolically relevant tumour spheroids: a tool for modulating chemosensitivity traits. Lab on A Chip, 2011, 11, 419-428.	3.1	78
25	Brave Little World: Spheroids as an in vitro Model to Study Tumor-Immune-Cell Interactions. Cell Cycle, 2006, 5, 691-695.	1.3	77
26	GLS-driven glutamine catabolism contributes to prostate cancer radiosensitivity by regulating the redox state, stemness and ATG5-mediated autophagy. Theranostics, 2021, 11, 7844-7868.	4.6	70
27	Importance of CCL2-CCR2A/2B signaling for monocyte migration into spheroids of breast cancer-derived fibroblasts. Immunobiology, 2010, 215, 737-747.	0.8	58
28	The CD98 Heavy Chain Is a Marker and Regulator of Head and Neck Squamous Cell Carcinoma Radiosensitivity. Clinical Cancer Research, 2019, 25, 3152-3163.	3.2	53
29	The why and how of amino acid analytics in cancer diagnostics and therapy. Journal of Biotechnology, 2017, 242, 30-54.	1.9	48
30	Three-dimensional cell culture induces novel proliferative and metabolic alterations associated with oncogenic transformation., 1996, 66, 578-586.		47
31	Three-dimensional fibroblast-tumor cell interaction causes downregulation of RACK1 mRNA expression in breast cancer cellsin vitro. International Journal of Cancer, 2002, 102, 129-136.	2.3	45
32	Single amino acid arginine starvation efficiently sensitizes cancer cells to canavanine treatment and irradiation. International Journal of Cancer, 2012, 130, 2164-2175.	2.3	41
33	MISpheroID: a knowledgebase and transparency tool for minimum information in spheroid identity. Nature Methods, 2021, 18, 1294-1303.	9.0	38
34	Characterization and modulation of fibroblast/endothelial cell co-cultures for the <i>in vitro</i> preformation of three-dimensional tubular networks. Cell Biology International, 2011, 35, 1097-1110.	1.4	37
35	Three-dimensional tissue structure affects sensitivity of fibroblasts to TGF-Î ² 1. American Journal of Physiology - Cell Physiology, 2003, 284, C209-C219.	2.1	33
36	CD133 expression is not selective for tumor-initiating or radioresistant cell populations in the CRC cell line HCT-116. Radiotherapy and Oncology, 2010, 94, 375-383.	0.3	32

#	Article	IF	Citations
37	Arginine deprivation induces endoplasmic reticulum stress in human solid cancer cells. International Journal of Biochemistry and Cell Biology, 2016, 70, 29-38.	1.2	32
38	Spectral and spatial shaping of laser-driven proton beams using a pulsed high-field magnet beamline. Scientific Reports, 2020, 10, 9118.	1.6	31
39	Lactate adversely affects the in vitro formation of endothelial cell tubular structures through the action of TGF-Î ² 1. Experimental Cell Research, 2007, 313, 2531-2549.	1.2	25
40	Arginine Deprivation Therapy: Putative Strategy to Eradicate Glioblastoma Cells by Radiosensitization. Molecular Cancer Therapeutics, 2018, 17, 393-406.	1.9	25
41	Mutant IDH1 Differently Affects Redox State and Metabolism in Glial Cells of Normal and Tumor Origin. Cancers, 2019, 11, 2028.	1.7	23
42	Reciprocal interactions between tumour cell populations enhance growth and reduce radiation sensitivity in prostate cancer. Communications Biology, 2021, 4, 6.	2.0	23
43	An ovarian spheroid based tumor model that represents vascularized tumors and enables the investigation of nanomedicine therapeutics. Nanoscale, 2020, 12, 1894-1903.	2.8	22
44	Identification of genes expressed in tumor-associated macrophages. Immunobiology, 2003, 207, 351-359.	0.8	21
45	Genome and Transcriptome Profiles of CD133-Positive Colorectal Cancer Cells. American Journal of Pathology, 2011, 178, 1478-1488.	1.9	20
46	A Complex Scenario and Underestimated Challenge: The Tumor Microenvironment, ER Stress, and Cancer Treatment. Current Medicinal Chemistry, 2018, 25, 2465-2502.	1.2	20
47	Three-dimensional environment renders cancer cells profoundly less susceptible to a single amino acid starvation. Amino Acids, 2013, 45, 1221-1230.	1.2	16
48	Relevance of disease- and organ-specific endothelial cells forin vitroresearch. Cell Biology International, 2010, 34, 1231-1238.	1.4	15
49	Efficacy of Beta1 Integrin and EGFR Targeting in Sphere-Forming Human Head and Neck Cancer Cells. Journal of Cancer, 2016, 7, 736-745.	1.2	15
50	Impact of exogenous lactate on survival and radioresponse of carcinoma cells in vitro. International Journal of Radiation Biology, 2009, 85, 989-1001.	1.0	14
51	Arginine starvation in colorectal carcinoma cells: Sensing, impact on translation control and cell cycle distribution. Experimental Cell Research, 2016, 341, 67-74.	1.2	13
52	Fibroblastic reaction and vascular maturation in human colon cancers. International Journal of Radiation Biology, 2009, 85, 1013-1025.	1.0	11
53	Microenvironmentally-driven Plasticity of CD44 isoform expression determines Engraftment and Stem-like Phenotype in CRC cell lines. Theranostics, 2020, 10, 7599-7621.	4.6	11
54	Mathematical model for the thermal enhancement of radiation response: thermodynamic approach. Scientific Reports, 2021, 11, 5503.	1.6	11

#	Article	IF	Citations
55	Models for Translational Proton Radiobiology—From Bench to Bedside and Back. Cancers, 2021, 13, 4216.	1.7	11
56	Co-application of canavanine and irradiation uncouples anticancer potential of arginine deprivation from citrulline availability. Oncotarget, 2016, 7, 73292-73308.	0.8	9
57	SATB1 as oncogenic driver and potential therapeutic target in head & mp; neck squamous cell carcinoma (HNSCC). Scientific Reports, 2020, 10, 8615.	1.6	8
58	Dual role of ER stress in response to metabolic co-targeting and radiosensitivity in head and neck cancer cells. Cellular and Molecular Life Sciences, 2021, 78, 3021-3044.	2.4	8
59	Validation of CD98hc as a Therapeutic Target for a Combination of Radiation and Immunotherapies in Head and Neck Squamous Cell Carcinoma. Cancers, 2022, 14, 1677.	1.7	7
60	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
61	Macromolecule Extravasationâ€"Xenograft Size Matters: A Systematic Study Using Probe-Based Confocal Laser Endomicroscopy (pCLE). Molecular Imaging and Biology, 2013, 15, 693-702.	1.3	5
62	Intracellular Amplifiers of Reactive Oxygen Species Affecting Mitochondria as Radiosensitizers. Cancers, 2022, 14, 208.	1.7	5
63	Validity of a patient-derived system of tissue-specific human endothelial cells: interleukin-6 as a surrogate marker in the coronary system. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H1721-H1728.	1.5	4
64	Efficient Heat Shock Response Affects Hyperthermia-Induced Radiosensitization in a Tumor Spheroid Control Probability Assay. Cancers, 2021, 13, 3168.	1.7	3
65	Indospicine combined with arginine deprivation triggers cancer cell death via caspaseâ€dependent apoptosis. Cell Biology International, 2021, 45, 518-527.	1.4	2
66	Targeting of p21-Activated Kinase 4 Radiosensitizes Glioblastoma Cells via Impaired DNA Repair. Cells, 2022, 11, 2133.	1.8	2
67	Tumor-Derived Lactic Acid Modulates Dendritic Cell Activation and Differentiation Blood, 2004, 104, 4246-4246.	0.6	1