

Michal Kolář

List of Publications by Year in descending order

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Version: 2024-02-01

66
papers

1,929
citations

257450

24
h-index

289244

40
g-index

72
all docs

72
docs citations

72
times ranked

3649
citing authors

#	ARTICLE	IF	CITATIONS
1	Melanoma cells influence the differentiation pattern of human epidermal keratinocytes. <i>Molecular Cancer</i> , 2015, 14, 1.	19.2	178
2	Anti-cancer effects of blue-green alga <i>Spirulina platensis</i> , a natural source of bilirubin-like tetrapyrrolic compounds. <i>Annals of Hepatology</i> , 2014, 13, 273-283.	1.5	118
3	TCF/LEF Transcription Factors: An Update from the Internet Resources. <i>Cancers</i> , 2016, 8, 70.	3.7	111
4	Troy, a Tumor Necrosis Factor Receptor Family Member, Interacts With Lgr5 to Inhibit Wnt Signaling in Intestinal Stem Cells. <i>Gastroenterology</i> , 2013, 144, 381-391.	1.3	94
5	Upregulation of IL-6, IL-8 and CXCL-1 production in dermal fibroblasts by normal/malignant epithelial cells <i>in vitro</i> : Immunohistochemical and transcriptomic analyses. <i>Biology of the Cell</i> , 2012, 104, 738-751.	2.0	71
6	Smooth muscle actin-expressing stromal fibroblasts in head and neck squamous cell carcinoma: Increased expression of galectin-1 and induction of poor prognosis factors. <i>International Journal of Cancer</i> , 2012, 131, 2499-2508.	5.1	67
7	Aire-expressing ILC3-like cells in the lymph node display potent APC features. <i>Journal of Experimental Medicine</i> , 2019, 216, 1027-1037.	8.5	55
8	SYBA: Bayesian estimation of synthetic accessibility of organic compounds. <i>Journal of Cheminformatics</i> , 2020, 12, 35.	6.1	52
9	Effect of metformin therapy on cardiac function and survival in a volume-overload model of heart failure in rats. <i>Clinical Science</i> , 2011, 121, 29-41.	4.3	50
10	Metabolic characterization of volume overload heart failure due to aorto-caval fistula in rats. <i>Molecular and Cellular Biochemistry</i> , 2011, 354, 83-96.	3.1	50
11	Interleukin-6: Molecule in the Intersection of Cancer, Ageing and COVID-19. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7937.	4.1	45
12	Head and neck squamous cancer stromal fibroblasts produce growth factors influencing phenotype of normal human keratinocytes. <i>Histochemistry and Cell Biology</i> , 2010, 133, 201-211.	1.7	43
13	Plants Rather than Mineral Fertilization Shape Microbial Community Structure and Functional Potential in Legacy Contaminated Soil. <i>Frontiers in Microbiology</i> , 2016, 7, 995.	3.5	43
14	The Head and Neck Squamous Cell Carcinoma Microenvironment as a Potential Target for Cancer Therapy. <i>Cancers</i> , 2019, 11, 440.	3.7	43
15	Proteomic and transcriptomic analysis of heart failure due to volume overload in a rat aorto-caval fistula model provides support for new potential therapeutic targets - monoamine oxidase A and transglutaminase 2. <i>Proteome Science</i> , 2011, 9, 69.	1.7	39
16	Toll-like receptor signaling in thymic epithelium controls monocyte-derived dendritic cell recruitment and Treg generation. <i>Nature Communications</i> , 2020, 11, 2361.	12.8	39
17	Complete Genome Sequence of the Haloaromatic Acid-Degrading Bacterium <i>Achromobacter xylooxidans</i> A8. <i>Journal of Bacteriology</i> , 2011, 193, 791-792.	2.2	38
18	Functional differences between neonatal and adult fibroblasts and keratinocytes: Donor age affects epithelial-mesenchymal crosstalk <i>in vitro</i> . <i>International Journal of Molecular Medicine</i> , 2016, 38, 1063-1074.	4.0	35

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19	Linking toxicity profiles to pollutants in sludge and sediments. <i>Journal of Hazardous Materials</i> , 2017, 321, 672-680.	12.4	34
20	Variability in statin-induced changes in gene expression profiles of pancreatic cancer. <i>Scientific Reports</i> , 2017, 7, 44219.	3.3	33
21	An evolutionary conserved pattern of 18S rRNA sequence complementarity to mRNA 5' UTRs and its implications for eukaryotic gene translation regulation. <i>Nucleic Acids Research</i> , 2013, 41, 7625-7634.	14.5	32
22	Anti-cancer effects of blue-green alga <i>Spirulina platensis</i> , a natural source of bilirubin-like tetrapyrrolic compounds. <i>Annals of Hepatology</i> , 2014, 13, 273-83.	1.5	32
23	Understanding the Pathogenicity of <i>Burkholderia contaminans</i> , an Emerging Pathogen in Cystic Fibrosis. <i>PLoS ONE</i> , 2016, 11, e0160975.	2.5	31
24	Isoprenoids responsible for protein prenylation modulate the biological effects of statins on pancreatic cancer cells. <i>Lipids in Health and Disease</i> , 2017, 16, 250.	3.0	27
25	Fibroblasts potentiate melanoma cells in vitro invasiveness induced by UV-irradiated keratinocytes. <i>Histochemistry and Cell Biology</i> , 2018, 149, 503-516.	1.7	27
26	The effect of simvastatin on lipid droplets accumulation in human embryonic kidney cells and pancreatic cancer cells. <i>Lipids in Health and Disease</i> , 2013, 12, 126.	3.0	26
27	Proteomic Characterization of Human Neural Stem Cells and Their Secretome During in vitro Differentiation. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 612560.	3.7	24
28	Mouse 3T3 fibroblasts under the influence of fibroblasts isolated from stroma of human basal cell carcinoma acquire properties of multipotent stem cells. <i>Biology of the Cell</i> , 2011, 103, 233-248.	2.0	23
29	Eosinophils from patients with type 1 diabetes mellitus express high level of myeloid alpha-defensins and myeloperoxidase. <i>Cellular Immunology</i> , 2012, 273, 158-163.	3.0	23
30	Intercellular crosstalk in human malignant melanoma. <i>Protoplasma</i> , 2017, 254, 1143-1150.	2.1	23
31	From protein interactions to functional annotation: graph alignment in Herpes. <i>BMC Systems Biology</i> , 2008, 2, 90.	3.0	21
32	Microenvironment-driven resistance to Raf inhibition in a melanoma patient is accompanied by broad changes of gene methylation and expression in distal fibroblasts. <i>International Journal of Molecular Medicine</i> , 2018, 41, 2687-2703.	4.0	21
33	Right versus left ventricular remodeling in heart failure due to chronic volume overload. <i>Scientific Reports</i> , 2021, 11, 17136.	3.3	21
34	Glycol porphyrin derivatives and temoporfin elicit resistance to photodynamic therapy by different mechanisms. <i>Scientific Reports</i> , 2017, 7, 44497.	3.3	20
35	Minimizing energy below the glass thresholds. <i>Physical Review E</i> , 2004, 70, 036107.	2.1	19
36	Glutelin protein fraction as a tool for clear identification of Amaranth accessions. <i>Journal of Cereal Science</i> , 2011, 53, 198-205.	3.7	19

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37	NKD1 marks intestinal and liver tumors linked to aberrant Wnt signaling. <i>Cellular Signalling</i> , 2015, 27, 245-256.	3.6	19
38	Modulated DISP3/PTCHD2 expression influences neural stem cell fate decisions. <i>Scientific Reports</i> , 2017, 7, 41597.	3.3	19
39	Single-Cell RNA Sequencing Unravels Heterogeneity of the Stromal Niche in Cutaneous Melanoma Heterogeneous Spheroids. <i>Cancers</i> , 2020, 12, 3324.	3.7	19
40	Phenotypic and Clonal Stability of Antigen-Inexperienced Memory-like T Cells across the Genetic Background, Hygienic Status, and Aging. <i>Journal of Immunology</i> , 2021, 206, 2109-2121.	0.8	18
41	Gene Expression Profiling of <i>Burkholderia cenocepacia</i> at the Time of Cepacia Syndrome: Loss of Motility as a Marker of Poor Prognosis?. <i>Journal of Clinical Microbiology</i> , 2015, 53, 1515-1522.	3.9	17
42	Analysis of dermal fibroblasts isolated from neonatal and child cleft lip and adult skin: Developmental implications on reconstructive surgery. <i>International Journal of Molecular Medicine</i> , 2017, 40, 1323-1334.	4.0	17
43	Exosomes produced by melanoma cells significantly influence the biological properties of normal and cancer-associated fibroblasts. <i>Histochemistry and Cell Biology</i> , 2022, 157, 153-172.	1.7	17
44	Cancer-Associated Fibroblasts Influence the Biological Properties of Malignant Tumours via Paracrine Secretion and Exosome Production. <i>International Journal of Molecular Sciences</i> , 2022, 23, 964.	4.1	17
45	Asymmetric distribution of biomolecules of maternal origin in the <i>Xenopus laevis</i> egg and their impact on the developmental plan. <i>Scientific Reports</i> , 2018, 8, 8315.	3.3	15
46	DISP3 promotes proliferation and delays differentiation of neural progenitor cells. <i>FEBS Letters</i> , 2014, 588, 4071-4077.	2.8	12
47	Toll-like receptors expressed on embryonic macrophages couple inflammatory signals to iron metabolism during early ontogenesis. <i>European Journal of Immunology</i> , 2014, 44, 1491-1502.	2.9	11
48	Unique Gene Expression Signatures in the Intestinal Mucosa and Organoids Derived from Germ-Free and Monoassociated Mice. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1581.	4.1	11
49	<i>Msx1</i> loss suppresses formation of the ectopic crypts developed in the <i>Apc</i> -deficient small intestinal epithelium. <i>Scientific Reports</i> , 2019, 9, 1629.	3.3	10
50	Anti-angiogenic effects of the blue-green alga <i>Arthrospira platensis</i> on pancreatic cancer. <i>Journal of Cellular and Molecular Medicine</i> , 2020, 24, 2402-2415.	3.6	10
51	Analysis of HPV-Positive and HPV-Negative Head and Neck Squamous Cell Carcinomas and Paired Normal Mucosae Reveals Cyclin D1 Deregulation and Compensatory Effect of Cyclin D2. <i>Cancers</i> , 2020, 12, 792.	3.7	9
52	Toll-like receptor 2 expression on c-kit ⁺ cells tracks the emergence of embryonic definitive hematopoietic progenitors. <i>Nature Communications</i> , 2019, 10, 5176.	12.8	8
53	Desmoplastic Crosstalk in Pancreatic Ductal Adenocarcinoma Is Reflected by Different Responses of Panc-1, MIA PaCa-2, PaTu-8902, and CAPAN-2 Cell Lines to Cancer-associated/Normal Fibroblasts. <i>Cancer Genomics and Proteomics</i> , 2021, 18, 221-243.	2.0	8
54	Detection of Distinct Changes in Gene-expression Profiles in Specimens of Tumors and Transition Zones of Tenascinpositive/- negative Head and Neck Squamous Cell Carcinoma. <i>Anticancer Research</i> , 2018, 38, 1279-1290.	1.1	8

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55	HIC1 Expression Distinguishes Intestinal Carcinomas Sensitive to Chemotherapy. <i>Translational Oncology</i> , 2016, 9, 99-107.	3.7	7
56	A systematic computational analysis of the rRNA 3' UTR sequence complementarity suggests a regulatory mechanism influencing post-termination events in metazoan translation. <i>Rna</i> , 2016, 22, 957-967.	3.5	7
57	GraphAlignment: Bayesian pairwise alignment of biological networks. <i>BMC Systems Biology</i> , 2012, 6, 144.	3.0	6
58	Microarray Analysis of Serum mRNA in Patients with Head and Neck Squamous Cell Carcinoma at Whole-Genome Scale. <i>BioMed Research International</i> , 2014, 2014, 1-10.	1.9	6
59	Human galectin-3: Molecular switch of gene expression in dermal fibroblasts in vitro and of skin collagen organization in open wounds and tensile strength in incisions in vivo. <i>Molecular Medicine Reports</i> , 2020, 23, .	2.4	6
60	The Effect of Diabetes-Associated Autoantigens on Cell Processes in Human PBMCs and Their Relevance to Autoimmune Diabetes Development. <i>Journal of Diabetes Research</i> , 2013, 2013, 1-10.	2.3	5
61	Retinitis pigmentosa-linked mutation in DHX38 modulates its splicing activity. <i>PLoS ONE</i> , 2022, 17, e0265742.	2.5	5
62	Zebrafish Kit ligands cooperate with erythropoietin to promote erythroid cell expansion. <i>Blood Advances</i> , 2020, 4, 5915-5924.	5.2	4
63	Comparison of Transcriptomic Profiles of MiaPaCa-2 Pancreatic Cancer Cells Treated with Different Statins. <i>Molecules</i> , 2021, 26, 3528.	3.8	4
64	How the quasispecies evolution depends on the topology of the genome space. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002, 313, 549-568.	2.6	3
65	FROM STATISTICAL PHYSICS METHODS TO ALGORITHMS. <i>International Journal of Modern Physics B</i> , 2006, 20, 2814-2823.	2.0	1
66	Influence of tumor stroma on normal keratinocyte marker profile. <i>FASEB Journal</i> , 2008, 22, 978.2.	0.5	0