

# 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  | 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        |
| 2  | 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        |
| 3  | Retinitis pigmentosa-linked mutation in DHX38 modulates its splicing activity. <i>PLoS ONE</i> , 2022, 17, e0265742.   | 2.5  | 5         |
| 4  | Desmoplastic Crosstalk in Pancreatic Ductal Adenocarcinoma Is Reflected by Different Responses of Panc-1, MIAPaCa-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         |
| 5  | 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        |
| 6  | Comparison of Transcriptomic Profiles of MiaPaCa-2 Pancreatic Cancer Cells Treated with Different Statins. <i>Molecules</i> , 2021, 26, 3528.  | 3.8  | 4         |
| 7  | Right versus left ventricular remodeling in heart failure due to chronic volume overload. <i>Scientific Reports</i> , 2021, 11, 17136.   | 3.3  | 21        |
| 8  | Single-Cell RNA Sequencing Unravels Heterogeneity of the Stromal Niche in Cutaneous Melanoma Heterogeneous Spheroids. <i>Cancers</i> , 2020, 12, 3324.   | 3.7  | 19        |
| 9  | 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        |
| 10 | Zebrafish Kit ligands cooperate with erythropoietin to promote erythroid cell expansion. <i>Blood Advances</i> , 2020, 4, 5915-5924.   | 5.2  | 4         |
| 11 | 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        |
| 12 | SYBA: Bayesian estimation of synthetic accessibility of organic compounds. <i>Journal of Cheminformatics</i> , 2020, 12, 35.   | 6.1  | 52        |
| 13 | 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        |
| 14 | 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         |
| 15 | Proteomic Characterization of Human Neural Stem Cells and Their Secretome During <i>in vitro</i> Differentiation. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 612560.  | 3.7  | 24        |
| 16 | Human galectin-3: Molecular switch of gene expression in dermal fibroblasts <i>in vitro</i> and of skin collagen organization in open wounds and tensile strength in incisions <i>in vivo</i> . <i>Molecular Medicine Reports</i> , 2020, 23, .            | 2.4  | 6         |
| 17 | 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        |
| 18 | The Head and Neck Squamous Cell Carcinoma Microenvironment as a Potential Target for Cancer Therapy. <i>Cancers</i> , 2019, 11, 440.   | 3.7  | 43        |

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|----|---|------|-----------|
| 19 | 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        |
| 20 | <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        |
| 21 | Toll-like receptor 2 expression on <i>c-kit</i> <sup>+</sup> cells tracks the emergence of embryonic definitive hematopoietic progenitors. <i>Nature Communications</i> , 2019, 10, 5176.   | 12.8 | 8         |
| 22 | 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        |
| 23 | 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        |
| 24 | Microenvironment-driven resistance to <i>B-RAF</i> 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        |
| 25 | 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         |
| 26 | Modulated <i>DISP3/PTCHD2</i> expression influences neural stem cell fate decisions. <i>Scientific Reports</i> , 2017, 7, 41597.  | 3.3  | 19        |
| 27 | Variability in statin-induced changes in gene expression profiles of pancreatic cancer. <i>Scientific Reports</i> , 2017, 7, 44219.   | 3.3  | 33        |
| 28 | Glycol porphyrin derivatives and temoporfin elicit resistance to photodynamic therapy by different mechanisms. <i>Scientific Reports</i> , 2017, 7, 44497.  | 3.3  | 20        |
| 29 | 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        |
| 30 | Intercellular crosstalk in human malignant melanoma. <i>Protoplasma</i> , 2017, 254, 1143-1150.   | 2.1  | 23        |
| 31 | Linking toxicity profiles to pollutants in sludge and sediments. <i>Journal of Hazardous Materials</i> , 2017, 321, 672-680.  | 12.4 | 34        |
| 32 | 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        |
| 33 | 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        |
| 34 | <i>TCF/LEF</i> Transcription Factors: An Update from the Internet Resources. <i>Cancers</i> , 2016, 8, 70.  | 3.7  | 111       |
| 35 | <i>HIC1</i> Expression Distinguishes Intestinal Carcinomas Sensitive to Chemotherapy. <i>Translational Oncology</i> , 2016, 9, 99-107.  | 3.7  | 7         |
| 36 | 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         |

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|----|---|------|-----------|
| 37 | Functional differences between neonatal and adult fibroblasts and keratinocytes: Donor age affects epithelial-mesenchymal crosstalk in vitro. <i>International Journal of Molecular Medicine</i> , 2016, 38, 1063-1074.                 | 4.0  | 35        |
| 38 | Understanding the Pathogenicity of <i>Burkholderia contaminans</i> , an Emerging Pathogen in Cystic Fibrosis. <i>PLoS ONE</i> , 2016, 11, e0160975.   | 2.5  | 31        |
| 39 | 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        |
| 40 | NKD1 marks intestinal and liver tumors linked to aberrant Wnt signaling. <i>Cellular Signalling</i> , 2015, 27, 245-256.  | 3.6  | 19        |
| 41 | Melanoma cells influence the differentiation pattern of human epidermal keratinocytes. <i>Molecular Cancer</i> , 2015, 14, 1.   | 19.2 | 178       |
| 42 | 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       |
| 43 | 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         |
| 44 | DISP3 promotes proliferation and delays differentiation of neural progenitor cells. <i>FEBS Letters</i> , 2014, 588, 4071-4077.   | 2.8  | 12        |
| 45 | 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        |
| 46 | 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        |
| 47 | 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        |
| 48 | 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        |
| 49 | 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         |
| 50 | 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        |
| 51 | 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        |
| 52 | GraphAlignment: Bayesian pairwise alignment of biological networks. <i>BMC Systems Biology</i> , 2012, 6, 144.  | 3.0  | 6         |
| 53 | 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        |
| 54 | 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        |

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|----|--|-----|-----------|
| 55 | Complete Genome Sequence of the Haloaromatic Acid-Degrading Bacterium <i>Achromobacter xylosoxidans</i> A8. <i>Journal of Bacteriology</i> , 2011, 193, 791-792.   | 2.2 | 38        |
| 56 | 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        |
| 57 | 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        |
| 58 | 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        |
| 59 | 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        |
| 60 | 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        |
| 61 | 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        |
| 62 | From protein interactions to functional annotation: graph alignment in Herpes. <i>BMC Systems Biology</i> , 2008, 2, 90.   | 3.0 | 21        |
| 63 | Influence of tumor stroma on normal keratinocyte marker profile. <i>FASEB Journal</i> , 2008, 22, 978.2.   | 0.5 | 0         |
| 64 | FROM STATISTICAL PHYSICS METHODS TO ALGORITHMS. <i>International Journal of Modern Physics B</i> , 2006, 20, 2814-2823.  | 2.0 | 1         |
| 65 | Minimizing energy below the glass thresholds. <i>Physical Review E</i> , 2004, 70, 036107.   | 2.1 | 19        |
| 66 | 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         |