

Hynek Strnad

List of Publications by Year in descending order

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Version: 2024-02-01

82
papers

2,934
citations

159585

30
h-index

189892

50
g-index

83
all docs

83
docs citations

83
times ranked

5057
citing authors

#	ARTICLE	IF	CITATIONS
1	Reactivation of Dihydroorotate Dehydrogenase-Driven Pyrimidine Biosynthesis Restores Tumor Growth of Respiration-Deficient Cancer Cells. <i>Cell Metabolism</i> , 2019, 29, 399-416.e10.	16.2	190
2	Melanoma cells influence the differentiation pattern of human epidermal keratinocytes. <i>Molecular Cancer</i> , 2015, 14, 1.	19.2	178
3	Assembly of the cnidarian camera-type eye from vertebrate-like components. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 8989-8993.	7.1	118
4	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
5	TCF/LEF Transcription Factors: An Update from the Internet Resources. <i>Cancers</i> , 2016, 8, 70.	3.7	111
6	Cold-active β -Galactosidase from <i>Arthrobacter</i> sp. C2-2 Forms Compact 660kDa Hexamers: Crystal Structure at 1.9Å... Resolution. <i>Journal of Molecular Biology</i> , 2005, 353, 282-294.	4.2	108
7	Genome-Wide Transcriptional Analysis of <i>Drosophila</i> Larvae Infected by Entomopathogenic Nematodes Shows Involvement of Complement, Recognition and Extracellular Matrix Proteins. <i>Journal of Innate Immunity</i> , 2014, 6, 192-204.	3.8	102
8	Slowed aging during reproductive dormancy is reflected in genome-wide transcriptome changes in <i>Drosophila melanogaster</i> . <i>BMC Genomics</i> , 2016, 17, 50.	2.8	95
9	Complete Genome Sequence of the Photosynthetic Purple Nonsulfur Bacterium <i>Rhodobacter capsulatus</i> SB 1003. <i>Journal of Bacteriology</i> , 2010, 192, 3545-3546.	2.2	90
10	Maternally Recruited DCP1A and DCP2 Contribute to Messenger RNA Degradation During Oocyte Maturation and Genome Activation in Mouse1. <i>Biology of Reproduction</i> , 2013, 88, 11.	2.7	77
11	Upregulation of IL6, IL8 and CXCL1 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
12	Smooth muscle actin-expressing stromal fibroblasts in head and neck squamous cell carcinoma: Increased expression of galectin1 and induction of poor prognosis factors. <i>International Journal of Cancer</i> , 2012, 131, 2499-2508.	5.1	67
13	The cloning, purification and characterisation of a cold-active β -galactosidase from the psychrotolerant Antarctic bacterium <i>Arthrobacter</i> sp. C2-2. <i>Enzyme and Microbial Technology</i> , 2003, 33, 836-844.	3.2	66
14	The <i>Drosophila</i> Chitinase-Like Protein IDGF3 Is Involved in Protection against Nematodes and in Wound Healing. <i>Journal of Innate Immunity</i> , 2016, 8, 199-210.	3.8	62
15	Loss of the Response Regulator CtrA Causes Pleiotropic Effects on Gene Expression but Does Not Affect Growth Phase Regulation in <i>Rhodobacter capsulatus</i> . <i>Journal of Bacteriology</i> , 2010, 192, 2701-2710.	2.2	57
16	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
17	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
18	Suppression of carbonic anhydrase IX leads to aberrant focal adhesion and decreased invasion of tumor cells. <i>Oncology Reports</i> , 2013, 29, 1147-1153.	2.6	49

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19	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
20	Cubozoan genome illuminates functional diversification of opsins and photoreceptor evolution. <i>Scientific Reports</i> , 2015, 5, 11885.	3.3	43
21	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
22	Downregulation of <i>Plzf</i> Gene Ameliorates Metabolic and Cardiac Traits in the Spontaneously Hypertensive Rat. <i>Hypertension</i> , 2017, 69, 1084-1091.	2.7	41
23	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
24	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
25	Complete genome sequence of <i>Pseudomonas alcaliphila</i> JAB1 (=DSM 26533), a versatile degrader of organic pollutants. <i>Standards in Genomic Sciences</i> , 2018, 13, 3.	1.5	36
26	The plastid genome of some eustigmatophyte algae harbours a bacteria-derived six-gene cluster for biosynthesis of a novel secondary metabolite. <i>Open Biology</i> , 2016, 6, 160249.	3.6	35
27	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
28	Nucleotide sequence, organization and characterization of the (halo)aromatic acid catabolic plasmid pA81 from <i>Achromobacter xylooxidans</i> A8. <i>Research in Microbiology</i> , 2008, 159, 118-127.	2.1	34
29	Dipeptidyl peptidase-IV inhibits glioma cell growth independent of its enzymatic activity. <i>International Journal of Biochemistry and Cell Biology</i> , 2012, 44, 738-747.	2.8	34
30	<i>Drosophila</i> imaginal disc growth factor 2 is a trophic factor involved in energy balance, detoxification, and innate immunity. <i>Scientific Reports</i> , 2017, 7, 43273.	3.3	34
31	A Comparative Analysis of Mitochondrial Genomes in Eustigmatophyte Algae. <i>Genome Biology and Evolution</i> , 2016, 8, 705-722.	2.5	33
32	Variability in statin-induced changes in gene expression profiles of pancreatic cancer. <i>Scientific Reports</i> , 2017, 7, 44219.	3.3	33
33	Characterization of three distinct metallothionein genes of the Ag-hyperaccumulating ectomycorrhizal fungus <i>Amanita strobiliformis</i> . <i>Fungal Biology</i> , 2016, 120, 358-369.	2.5	32
34	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
35	<i>Onecut1</i> and <i>Onecut2</i> transcription factors operate downstream of <i>Pax6</i> to regulate horizontal cell development. <i>Developmental Biology</i> , 2015, 402, 48-60.	2.0	31
36	CAIX-Mediated Control of LIN28/let-7 Axis Contributes to Metabolic Adaptation of Breast Cancer Cells to Hypoxia. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4299.	4.1	31

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37	Plastid Genomes and Proteins Illuminate the Evolution of Eustigmatophyte Algae and Their Bacterial Endosymbionts. <i>Genome Biology and Evolution</i> , 2019, 11, 362-379.	2.5	29
38	Basic nuclear processes affected by histone acetyltransferases and histone deacetylase inhibitors. <i>Epigenomics</i> , 2013, 5, 379-396.	2.1	28
39	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
40	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
41	Polycomb repression complex 2 is required for the maintenance of retinal progenitor cells and balanced retinal differentiation. <i>Developmental Biology</i> , 2018, 433, 47-60.	2.0	25
42	Chlorocatechol catabolic enzymes from <i>Achromobacter xylosoxidans</i> A8. <i>International Biodeterioration and Biodegradation</i> , 2004, 54, 175-181.	3.9	24
43	Circulating nucleic acids as a new diagnostic tool. <i>Cellular and Molecular Biology Letters</i> , 2010, 15, 242-59.	7.0	24
44	HIC1 Tumor Suppressor Loss Potentiates TLR2/NF- κ B Signaling and Promotes Tissue Damage Associated Tumorigenesis. <i>Molecular Cancer Research</i> , 2015, 13, 1139-1148.	3.4	24
45	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
46	Intercellular crosstalk in human malignant melanoma. <i>Protoplasma</i> , 2017, 254, 1143-1150.	2.1	23
47	Ectopic Activation of Wnt/ β -Catenin Signaling in Lens Fiber Cells Results in Cataract Formation and Aberrant Fiber Cell Differentiation. <i>PLoS ONE</i> , 2013, 8, e78279.	2.5	22
48	Fumaric Acid Esters Can Block Pro-Inflammatory Actions of Human CRP and Ameliorate Metabolic Disturbances in Transgenic Spontaneously Hypertensive Rats. <i>PLoS ONE</i> , 2014, 9, e101906.	2.5	22
49	Effects of Metformin on Tissue Oxidative and Dicarbonyl Stress in Transgenic Spontaneously Hypertensive Rats Expressing Human C-Reactive Protein. <i>PLoS ONE</i> , 2016, 11, e0150924.	2.5	21
50	Microenvironment driven resistance to β -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
51	Diversity, Phylogeny and Expression Patterns of Pou and Six Homeodomain Transcription Factors in Hydrozoan Jellyfish <i>Craspedacusta sowerbyi</i> . <i>PLoS ONE</i> , 2012, 7, e36420.	2.5	20
52	Sericin Composition in the Silk of <i>Antheraea yamamai</i> . <i>Biomacromolecules</i> , 2016, 17, 1776-1787.	5.4	20
53	Intraspecific sequence comparisons reveal similar rates of non-collinear gene insertion in the B and D genomes of bread wheat. <i>BMC Plant Biology</i> , 2012, 12, 155.	3.6	18
54	Characterization of pbt genes conferring increased Pb ²⁺ and Cd ²⁺ tolerance upon <i>Achromobacter xylosoxidans</i> A8. <i>Research in Microbiology</i> , 2013, 164, 1009-1018.	2.1	18

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55	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
56	The expansion of genes encoding soluble silk components in the greater wax moth, <i>Galleria mellonella</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2019, 106, 28-38.	2.7	17
57	Genome Sequence of <i>Rhodococcus erythropolis</i> Strain CCM2595, a Phenol Derivative-Degrading Bacterium. <i>Genome Announcements</i> , 2014, 2, .	0.8	14
58	A novel locus on mouse chromosome 7 that influences survival after infection with tick-borne encephalitis virus. <i>BMC Neuroscience</i> , 2018, 19, 39.	1.9	14
59	<i>Pseudogemmobacter bohemicus</i> gen. nov., sp. nov., a novel taxon from the Rhodobacteraceae family isolated from heavy-metal-contaminated sludge. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2019, 69, 2401-2407.	1.7	14
60	Systems genetic analysis of brown adipose tissue function. <i>Physiological Genomics</i> , 2018, 50, 52-66.	2.3	11
61	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
62	<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
63	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
64	Interferon-regulated suprabasin is essential for stress-induced stem-like cell conversion and therapy resistance of human malignancies. <i>Molecular Oncology</i> , 2019, 13, 1467-1489.	4.6	9
65	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
66	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
67	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
68	HIC1 Expression Distinguishes Intestinal Carcinomas Sensitive to Chemotherapy. <i>Translational Oncology</i> , 2016, 9, 99-107.	3.7	7
69	c-Myb Inhibits Myoblast Fusion. <i>PLoS ONE</i> , 2013, 8, e76742.	2.5	6
70	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
71	Salsalate ameliorates metabolic disturbances by reducing inflammation in spontaneously hypertensive rats expressing human C-reactive protein and by activating brown adipose tissue in nontransgenic controls. <i>PLoS ONE</i> , 2017, 12, e0179063.	2.5	6
72	Improved hematopoietic stem cell transplantation upon inhibition of natural killer cell-derived interferon-gamma. <i>Stem Cell Reports</i> , 2021, 16, 1999-2013.	4.8	6

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73	Novel diagnostic PCR assay for <i>Burkholderia cenocepacia</i> epidemic strain ST32 and its utility in monitoring infection in cystic fibrosis patients. <i>Journal of Cystic Fibrosis</i> , 2013, 12, 475-481.	0.7	5
74	Heterotrophic euglenid <i>Rhodomonas costata</i> resembles its phototrophic relatives in many aspects of molecular and cell biology. <i>Scientific Reports</i> , 2021, 11, 13070.	3.3	5
75	Autocrine effects of transgenic resistin reduce palmitate and glucose oxidation in brown adipose tissue. <i>Physiological Genomics</i> , 2016, 48, 420-427.	2.3	4
76	Comparison of Transcriptomic Profiles of MiaPaCa-2 Pancreatic Cancer Cells Treated with Different Statins. <i>Molecules</i> , 2021, 26, 3528.	3.8	4
77	The Expression of c-Myb Correlates with the Levels of Rhabdomyosarcoma-specific Marker Myogenin. <i>Scientific Reports</i> , 2015, 5, 15090.	3.3	3
78	Crystallization and Preliminary X-ray Diffraction Analysis of Cold-Active β -Galactosidase from <i>Arthrobacter</i> sp. C2-2. <i>Collection of Czechoslovak Chemical Communications</i> , 2005, 70, 124-132.	1.0	3
79	Genetic Influence on Frequencies of Myeloid-Derived Cell Subpopulations in Mouse. <i>Frontiers in Immunology</i> , 2021, 12, 760881.	4.8	3
80	Fumaric acid esters can block pro-inflammatory actions of human CRP and ameliorate metabolic disturbances in transgenic spontaneously hypertensive rats. <i>Atherosclerosis</i> , 2014, 235, e268.	0.8	1
81	Abstract B59: Epithelial-mesenchymal interaction in cancer as potential target for anticancer therapy. , 2013, , .		0
82	Abstract B26: Melanoma cells induce stem cells like fenotype of normal human keratinocytes. , 2013, , .		0