

Barbora Dvořáková

List of Publications by Year in descending order

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99
papers

2,628
citations

186209

28
h-index

223716

46
g-index

101
all docs

101
docs citations

101
times ranked

3443
citing authors

#	ARTICLE	IF	CITATIONS
1	The Miniature Pig as an Animal Model in Biomedical Research. <i>Annals of the New York Academy of Sciences</i> , 2005, 1049, 161-171.	1.8	331
2	Melanoma cells influence the differentiation pattern of human epidermal keratinocytes. <i>Molecular Cancer</i> , 2015, 14, 1.	7.9	178
3	Ageing as an Important Risk Factor for Cancer. <i>Anticancer Research</i> , 2016, 36, 5009-5018.	0.5	95
4	New aspects of galectin functionality in nuclei of cultured bone marrow stromal and epidermal cells: biotinylated galectins as tool to detect specific binding sites. <i>Biology of the Cell</i> , 2003, 95, 535-545.	0.7	74
5	Simultaneous blocking of IL-6 and IL-8 is sufficient to fully inhibit CAF-induced human melanoma cell invasiveness. <i>Histochemistry and Cell Biology</i> , 2016, 146, 205-217.	0.8	74
6	Upregulation of IL-6, IL-8 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.	0.7	71
7	<i>In vitro</i> fibroblast response to ultra fine grained titanium produced by a severe plastic deformation process. <i>Journal of Materials Science: Materials in Medicine</i> , 2008, 19, 553-557.	1.7	62
8	Biocompatibility and sp ³ /sp ² ratio of laser created DLC films. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010, 169, 89-93.	1.7	62
9	Human Galectins Induce Conversion of Dermal Fibroblasts into Myofibroblasts and Production of Extracellular Matrix: Potential Application in Tissue Engineering and Wound Repair. <i>Cells Tissues Organs</i> , 2011, 194, 469-480.	1.3	58
10	Effect of cancer-associated fibroblasts on the migration of glioma cells <i>in vitro</i> . <i>Tumor Biology</i> , 2015, 36, 5873-5879.	0.8	57
11	Cancer Microenvironment: What Can We Learn from the Stem Cell Niche. <i>International Journal of Molecular Sciences</i> , 2015, 16, 24094-24110.	1.8	54
12	Cell adhesion on polytetrafluoroethylene modified by UV-irradiation in an ammonia atmosphere. <i>Journal of Biomedical Materials Research - Part A</i> , 2003, 67A, 130-137.	2.1	52
13	Nuclear presence of adhesion-/growth-regulatory galectins in normal/malignant cells of squamous epithelial origin. <i>Histochemistry and Cell Biology</i> , 2006, 125, 171-182.	0.8	49
14	Bio-compatibility of ion beam-modified and RGD-grafted polyethylene. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004, 225, 275-282.	0.6	47
15	Stromal fibroblasts from basal cell carcinoma affect phenotype of normal keratinocytes. <i>British Journal of Dermatology</i> , 2007, 156, 819-829.	1.4	45
16	Interleukin-6: Molecule in the Intersection of Cancer, Ageing and COVID-19. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7937.	1.8	45
17	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.	0.8	43
18	Defining the glyco-phenotype of squamous epithelia using plant and mammalian lectins. Differentiation-dependent expression of alpha2,6- and alpha2,3-linked N-acetylneuraminic acid in squamous epithelia and carcinomas, and its differential effect on binding of the endogenous lectins galectins-1 and -3. <i>Apmis</i> , 2002, 110, 845-856.	0.9	38

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19	Cultivation and grafting of human keratinocytes on a poly(hydroxyethyl methacrylate) support to the wound bed: a clinical study. <i>Biomaterials</i> , 1998, 19, 141-146.	5.7	37
20	Biocompatibility of HEMA Copolymers Designed for Treatment of CNS Diseases with Polymer-Encapsulated Cells. <i>Biotechnology Progress</i> , 2000, 16, 897-904.	1.3	36
21	Cell proliferation on UV-excimer lamp modified and grafted polytetrafluoroethylene. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004, 217, 307-313.	0.6	35
22	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.	1.8	35
23	Skin aging: the dermal perspective. <i>Clinics in Dermatology</i> , 2019, 37, 326-335.	0.8	33
24	Molecular Changes Underlying Hypertrophic Scarring Following Burns Involve Specific Deregulations at All Wound Healing Stages (Inflammation, Proliferation and Maturation). <i>International Journal of Molecular Sciences</i> , 2021, 22, 897.	1.8	32
25	Silicone rubber-hydrogel composites as polymeric biomaterials IX. Composites containing powdery polyacrylamide hydrogel. <i>Biomaterials</i> , 1997, 18, 1069-1073.	5.7	31
26	Effect of <i>Atropa belladonna</i> L. on skin wound healing: Biomechanical and histological study in rats and in vitro study in keratinocytes, 3T3 fibroblasts, and human umbilical vein endothelial cells. <i>Wound Repair and Regeneration</i> , 2009, 17, 378-386.	1.5	31
27	Porcine epidermal stem cells as a biomedical model for wound healing and normal/malignant epithelial cell propagation. <i>Theriogenology</i> , 2007, 67, 105-111.	0.9	30
28	Marker profiling of normal keratinocytes identifies the stroma from squamous cell carcinoma of the oral cavity as a modulatory microenvironment in co-culture. <i>International Journal of Radiation Biology</i> , 2007, 83, 837-848.	1.0	29
29	Differentiation-Dependent Glycosylation of Cells in Squamous Cell Epithelia Detected by a Mammalian Lectin. <i>Cells Tissues Organs</i> , 2002, 171, 135-144.	1.3	28
30	Coexpression of binding sites for A(B) histo-blood group trisaccharides with galectin-3 and Lag antigen in human Langerhans cells. <i>Journal of Leukocyte Biology</i> , 1999, 66, 644-649.	1.5	27
31	ER α agonist induces conversion of fibroblasts into myofibroblasts, while ER β agonist increases ECM production and wound tensile strength of healing skin wounds in ovariectomised rats. <i>Experimental Dermatology</i> , 2011, 20, 703-708.	1.4	27
32	Fibroblasts potentiate melanoma cells in vitro invasiveness induced by UV-irradiated keratinocytes. <i>Histochemistry and Cell Biology</i> , 2018, 149, 503-516.	0.8	27
33	Diamond/graphite content and biocompatibility of DLC films fabricated by PLD. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 101, 579-583.	1.1	26
34	Study of optical properties and biocompatibility of DLC films characterized by sp ³ bonds. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 112, 143-148.	1.1	26
35	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.	0.7	23
36	Intercellular crosstalk in human malignant melanoma. <i>Protoplasma</i> , 2017, 254, 1143-1150.	1.0	23

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37	Evolution of Cancer Progression in the Context of Darwinism. <i>Anticancer Research</i> , 2019, 39, 1-16.	0.5	23
38	Reconstruction of epidermis by grafting of keratinocytes cultured on polymer support - clinical study. <i>International Journal of Dermatology</i> , 2003, 42, 219-223.	0.5	22
39	Fibroblasts prepared from different types of malignant tumors stimulate expression of luminal marker keratin 8 in the EM-G3 breast cancer cell line. <i>Histochemistry and Cell Biology</i> , 2012, 137, 679-685.	0.8	22
40	Cell adhesion on modified polyethylene. <i>Journal of Materials Science</i> , 2002, 37, 1183-1188.	1.7	21
41	Microenvironment-driven resistance to BcrRaf 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.	1.8	21
42	Comparative phenotypic characterization of keratinocytes originating from hair follicles. <i>Journal of Molecular Histology</i> , 2005, 36, 89-96.	1.0	20
43	Phosphorylated Human Lectin Galectin-3: Analysis of Ligand Binding by Histochemical Monitoring of Normal/Malignant Squamous Epithelia and by Isothermal Titration Calorimetry. <i>Journal of Veterinary Medicine Series C: Anatomia Histologia Embryologia</i> , 2009, 38, 68-75.	0.3	20
44	A frame-supported ultrathin electrospun polymer membrane for transplantation of retinal pigment epithelial cells. <i>Biomedical Materials (Bristol)</i> , 2015, 10, 045022.	1.7	20
45	Single-Cell RNA Sequencing Unravels Heterogeneity of the Stromal Niche in Cutaneous Melanoma Heterogeneous Spheroids. <i>Cancers</i> , 2020, 12, 3324.	1.7	19
46	Expression of galectin-3-reactive ligands in squamous cancer and normal epithelial cells as a marker of differentiation. <i>International Journal of Oncology</i> , 2001, 19, 59.	1.4	17
47	Mannosides as crucial part of bioactive supports for cultivation of human epidermal keratinocytes without feeder cells. <i>Biomaterials</i> , 2003, 24, 863-872.	5.7	17
48	Fibroblasts adhesion on ion beam modified polyethylene. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004, 215, 366-372.	0.6	17
49	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.	1.8	17
50	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.	0.8	17
51	Transient expression of keratin 19 is induced in originally negative interfollicular epidermal cells by adhesion of suspended cells. <i>International Journal of Molecular Medicine</i> , 2005, 16, 525-31.	1.8	17
52	Adhesion and proliferation of keratinocytes on ion beam modified polyethylene. <i>Journal of Materials Science: Materials in Medicine</i> , 2000, 11, 655-660.	1.7	16
53	Epithelial-stromal interaction in squamous cell epithelium-derived tumors: an important new player in the control of tumor biological properties. <i>Anticancer Research</i> , 2010, 30, 455-62.	0.5	16
54	Amphiphilic conetworks. II. Novel two-step synthesis of poly[2-(dimethylamino)ethyl methacrylate]-polyisobutylene, poly(N-isopropylacrylamide)-polyisobutylene, and poly(N,N-dimethylacrylamide)-polyisobutylene hydrogels. <i>Journal of Polymer Science Part A</i> , 2006, 44, 6378-6384.	2.5	15

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55	Ecology of melanoma cell. <i>Histology and Histopathology</i> , 2018, 33, 247-254.	0.5	15
56	Emerging role of tissue lectins as microenvironmental effectors in tumors and wounds. <i>Histology and Histopathology</i> , 2015, 30, 293-309.	0.5	15
57	Decrease of Nuclear Reactivity to Growth-regulatory Galectin-1 in Senescent Human Keratinocytes and Detection of Non-uniform Staining Profile Alterations upon Prolonged Culture for Galectin-1 and -3. <i>Journal of Veterinary Medicine Series C: Anatomia Histologia Embryologia</i> , 2004, 33, 348-354.	0.3	14
58	Immunocyto- and histochemical profiling of nucleostemin expression: Marker of epidermal stem cells?. <i>Journal of Dermatological Science</i> , 2006, 44, 73-80.	1.0	14
59	Estrogen Receptor Modulators in Viral Infections Such as SARS-CoV-2: Therapeutic Consequences. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6551.	1.8	14
60	Cutaneous melanoma dissemination is dependent on the malignant cell properties and factors of intercellular crosstalk in the cancer microenvironment (Review). <i>International Journal of Oncology</i> , 2020, 57, 619-630.	1.4	14
61	Cancer-associated fibroblasts are not formed from cancer cells by epithelial-to-mesenchymal transition in nu/nu mice. <i>Histochemistry and Cell Biology</i> , 2015, 143, 463-469.	0.8	13
62	Serum proteomic analysis of melanoma patients with immunohistochemical profiling of primary melanomas and cultured cells: Pilot study. <i>Oncology Reports</i> , 2019, 42, 1793-1804.	1.2	13
63	IL-6 in the Ecosystem of Head and Neck Cancer: Possible Therapeutic Perspectives. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11027.	1.8	13
64	Rapid SERS-based recognition of cell secretome on the folic acid-functionalized gold gratings. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 3309-3319.	1.9	12
65	Atropa Belladonna L. Water Extract: Modulator of Extracellular Matrix Formation in Vitro and in Vivo. <i>Physiological Research</i> , 2012, 61, 241-250.	0.4	12
66	Analysis of binding of mannosides in relation to Langerin (CD207) in Langerhans cells of normal and transformed epithelia. <i>The Histochemical Journal</i> , 2002, 34, 247-253.	0.6	11
67	Cultivation of human keratinocytes without feeder cells on polymer carriers containing ethoxyethyl methacrylate: in vitro study. <i>Journal of Materials Science: Materials in Medicine</i> , 2008, 19, 883-888.	1.7	11
68	Cultivation-dependent plasticity of melanoma phenotype. <i>Tumor Biology</i> , 2013, 34, 3345-3355.	0.8	11
69	Human galectin-2: nuclear presence in vitro and its modulation by quiescence/stress factors. <i>Histology and Histopathology</i> , 2008, 23, 167-78.	0.5	11
70	One-pot synthesis of isocyanate and methacrylate multifunctionalized polyisobutylene and polyisobutylene-based amphiphilic networks. <i>Journal of Polymer Science Part A</i> , 2006, 44, 2891-2900.	2.5	10
71	Structural, chemical and biological properties of carbon layers sputtered on polyethyleneterephthalate. <i>Journal of Materials Science: Materials in Medicine</i> , 2006, 17, 229-234.	1.7	10
72	Synthetic Polyamine BPA-C8 Inhibits TGF α -Mediated Conversion of Human Dermal Fibroblast to Myofibroblasts and Establishment of Galectin-Rich Extracellular Matrix in Vitro. <i>ChemBioChem</i> , 2014, 15, 1465-1470.	1.3	10

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73	Revelation of fibroblast protein commonalities and differences and their possible roles in wound healing and tumorigenesis using coculture models of cells. <i>Biology of the Cell</i> , 2014, 106, 203-218.	0.7	10
74	Hydrogels for encapsulation of mammalian cells. <i>Macromolecular Symposia</i> , 2001, 172, 157-165.	0.4	9
75	Dolichos biflorus agglutinin-binding site expression in basal keratinocytes is associated with cell differentiation. <i>Biology of the Cell</i> , 2002, 94, 365-373.	0.7	9
76	Biological properties of copolymer of 2-hydroxyethyl methacrylate with sulfopropyl methacrylate. <i>Journal of Materials Science: Materials in Medicine</i> , 2001, 12, 639-646.	1.7	8
77	Biological properties of titanium implants covered with hydroxyapatite and zirconia layers by pulsed laser: In vitro study. <i>Journal of Applied Physics</i> , 2006, 99, 014905.	1.1	7
78	Phenotypic characterization of human keratinocytes in coculture reveals differential effects of fibroblasts from benign fibrous histiocytoma (dermatofibroma) as compared to cells from its malignant form and to normal fibroblasts. <i>Journal of Dermatological Science</i> , 2009, 55, 18-26.	1.0	5
79	Human hair follicle and interfollicular keratinocyte reactivity to mouse HPV16-transformed cells: an in vitro study. <i>Oncology Reports</i> , 2008, 20, 75-80.	1.2	5
80	Phenotypic characterization of keratinocytes migrated from polymer support - in vitro study. <i>Journal of Materials Science: Materials in Medicine</i> , 1997, 8, 587-590.	1.7	4
81	Postmitotic basal cells in squamous cell epithelia are identified with Dolichos biflorus agglutinin - functional consequences. <i>Apmsis</i> , 2001, 109, 714-720.	0.9	4
82	Amphiphilic conetworks. III. Poly(2,3-dihydroxypropyl methacrylate)-polyisobutylene and poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock. <i>Journal of Polymer Science Part A</i> , 2007, 45, 4074-4081.	2.5	4
83	Human hair follicle and interfollicular keratinocyte reactivity to mouse HPV16-transformed cells: An in vitro study. <i>Oncology Reports</i> , 0, , .	1.2	4
84	Fibroblasts isolated from the malignant melanoma influence phenotype of normal human keratinocytes. <i>Journal of Applied Biomedicine</i> , 2015, 13, 195-198.	0.6	4
85	Extracellular matrix of galectin-1-exposed dermal and tumor-associated fibroblasts favors growth of human umbilical vein endothelial cells in vitro: a short report. <i>Anticancer Research</i> , 2014, 34, 3991-6.	0.5	4
86	Biological and physical properties of pulsed-Laser-deposited zirconia/hydroxyapatite on titanium: In vitro study. <i>Laser Physics</i> , 2007, 17, 45-49.	0.6	3
87	Melanoma xenotransplant on the chicken chorioallantoic membrane: a complex biological model for the study of cancer cell behaviour. <i>Histochemistry and Cell Biology</i> , 2020, 154, 177-188.	0.8	3
88	<i>Agrimonia eupatoria</i> L. Aqueous Extract Improves Skin Wound Healing: An In Vitro Study in Fibroblasts and Keratinocytes and In Vivo Study in Rats. <i>In Vivo</i> , 2022, 36, 1236-1244.	0.6	3
89	Detection of cell type and marker specificity of nuclear binding sites for anionic carbohydrate ligands. <i>Biotechnic and Histochemistry</i> , 2004, 79, 139-150.	0.7	2
90	Plasma modification of HEMA and EOEMA surface properties. <i>Radiation Effects and Defects in Solids</i> , 2006, 161, 15-19.	0.4	2

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91	Surface Modification of Hydrogels and Cell Adhesion. Materials Science Forum, 2008, 567-568, 265-268.	0.3	2
92	Fibroblasts as Drivers of Healing and Cancer Progression:From In vitro Experiments to Clinics. , 2016, , 121-138.		1
93	Surface Structure and Cells Adhesion on Doped Polyethylene. Materials Science Forum, 2008, 567-568, 253-256.	0.3	0
94	Influence of tumor stroma on normal keratinocyte marker profile. FASEB Journal, 2008, 22, 978.2.	0.2	0
95	Influence of crystallinity on bio- physical properties of hydroxyapatite films. IFMBE Proceedings, 2009, , 2179-2181.	0.2	0
96	Abstract B59: Epithelial-mesenchymal interaction in cancer as potential target for anticancer therapy. , 2013, , .		0
97	Abstract B26: Melanoma cells induce stem cells like fenotype of normal human keratinocytes. , 2013, , .		0
98	The conformational changes of haemoglobin on its binding to haptoglobin. Collection of Czechoslovak Chemical Communications, 1981, 46, 1288-1295.	1.0	0
99	Epithelialâ€mesenchymal cross talk in cancer behavior (1047.1). FASEB Journal, 2014, 28, 1047.1.	0.2	0