

Roumen Pankov

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

56

papers

8,288

citations

20

h-index

62

g-index

62

ext. papers

8,914

ext. citations

5.5

avg. IF

5.74

L-index

#	Paper	IF	Citations
56	Taking cell-matrix adhesions to the third dimension. <i>Science</i> , 2001 , 294, 1708-12	33.3	2418
55	Transmembrane crosstalk between the extracellular matrix--cytoskeleton crosstalk. <i>Nature Reviews Molecular Cell Biology</i> , 2001 , 2, 793-805	48.7	1812
54	Fibronectin at a glance. <i>Journal of Cell Science</i> , 2002 , 115, 3861-3	5.3	1406
53	Cell interactions with three-dimensional matrices. <i>Current Opinion in Cell Biology</i> , 2002 , 14, 633-9	9	756
52	Integrin dynamics and matrix assembly: tensin-dependent translocation of alpha(5)beta(1) integrins promotes early fibronectin fibrillogenesis. <i>Journal of Cell Biology</i> , 2000 , 148, 1075-90	7.3	386
51	A Rac switch regulates random versus directionally persistent cell migration. <i>Journal of Cell Biology</i> , 2005 , 170, 793-802	7.3	368
50	Shc and FAK differentially regulate cell motility and directionality modulated by PTEN. <i>Journal of Cell Biology</i> , 1999 , 146, 389-403	7.3	361
49	A specific alpha5beta1-integrin conformation promotes directional integrin translocation and fibronectin matrix formation. <i>Journal of Cell Science</i> , 2005 , 118, 291-300	5.3	97
48	Specific beta1 integrin site selectively regulates Akt/protein kinase B signaling via local activation of protein phosphatase 2A. <i>Journal of Biological Chemistry</i> , 2003 , 278, 18671-81	5.4	77
47	Oncogene activation of human keratin 18 transcription via the Ras signal transduction pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1994 , 91, 873-7	11.5	74
46	Electroporation-mediated uptake of proteins into mammalian cells. <i>Biochemistry and Cell Biology</i> , 1990 , 68, 729-34	3.6	63
45	Integrin clustering induces kinectin accumulation. <i>Journal of Cell Science</i> , 2002 , 115, 2031-2040	5.3	48
44	Regulation of adherens junction protein expression in growth-activated 3T3 cells and in regenerating liver. <i>Experimental Cell Research</i> , 1992 , 202, 477-86	4.2	45
43	Integrin clustering induces kinectin accumulation. <i>Journal of Cell Science</i> , 2002 , 115, 2031-40	5.3	43
42	An antigen located in the kinetochore region in metaphase and on polar microtubule ends in the midbody region in anaphase, characterised using a monoclonal antibody. <i>Chromosoma</i> , 1990 , 99, 95-101	2.8	34
41	beta1 integrin cytoplasmic domain residues selectively modulate fibronectin matrix assembly and cell spreading through talin and Akt-1. <i>Journal of Biological Chemistry</i> , 2009 , 284, 8148-59	5.4	29
40	Three-dimensional matrix induces sustained activation of ERK1/2 via Src/Ras/Raf signaling pathway. <i>Cell Biology International</i> , 2008 , 32, 229-34	4.5	28

39	Cholesterol distribution in plasma membranes of beta1 integrin-expressing and beta1 integrin-deficient fibroblasts. <i>Archives of Biochemistry and Biophysics</i> , 2005 , 442, 160-8	4.1	27
38	Resveratrol alters the lipid composition, metabolism and peroxide level in senescent rat hepatocytes. <i>Chemico-Biological Interactions</i> , 2014 , 207, 74-80	5	24
37	The plasma membrane lipid composition affects fusion between cells and model membranes. <i>Chemico-Biological Interactions</i> , 2006 , 164, 167-73	5	22
36	Ha-ras-transformation alters the metabolism of phosphatidylethanolamine and phosphatidylcholine in NIH 3T3 fibroblasts. <i>Cell Biology International</i> , 1999 , 23, 603-10	4.5	19
35	Fluorescent labeling techniques for investigation of fibronectin fibrillogenesis (labeling fibronectin fibrillogenesis). <i>Methods in Molecular Biology</i> , 2009 , 522, 261-74	1.4	14
34	Effect of halothane on lung carcinoma cells A 549. <i>Chemico-Biological Interactions</i> , 2003 , 146, 191-200	5	12
33	Epirubicin loading in poly(butyl cyanoacrylate) nanoparticles manifests via altered intracellular localization and cellular response in cervical carcinoma (HeLa) cells. <i>Drug Delivery</i> , 2016 , 23, 2235-2244	7	11
32	Live-cell biosensor for assessment of adhesion qualities of biomaterials. <i>Materials Science and Engineering C</i> , 2017 , 78, 230-238	8.3	10
31	Testosterone replacement therapy improves erythrocyte membrane lipid composition in hypogonadal men. <i>Aging Male</i> , 2012 , 15, 173-9	2.1	9
30	Alterations in the content and physiological role of sphingomyelin in plasma membranes of cells cultured in three-dimensional matrix. <i>Molecular and Cellular Biochemistry</i> , 2010 , 340, 215-22	4.2	9
29	Phospholipid dependence of membrane-bound phospholipase A2 in ras-transformed NIH 3T3 fibroblasts. <i>Biochimie</i> , 1998 , 80, 1055-62	4.6	9
28	Characterization of stitch adhesions: Fibronectin-containing cell-cell contacts formed by fibroblasts. <i>Experimental Cell Research</i> , 2019 , 384, 111616	4.2	6
27	Do We Need More Human Embryonic Stem Cell Lines?. <i>Biotechnology and Biotechnological Equipment</i> , 2010 , 24, 1921-1927	1.6	6
26	Stimulated nonspecific transport of phospholipids results in elevated external appearance of phosphatidylserine in ras-transformed fibroblasts. <i>Archives of Biochemistry and Biophysics</i> , 2000 , 381, 295-301	4.1	6
25	Alterations in microsomal and plasma membranes during liver regeneration. <i>Biochimie</i> , 1992 , 74, 981-7	4.6	6
24	Best1 Shot Through the Eye Structure, Functions and Clinical Implications of Bestrophin-1 Protein. <i>Biotechnology and Biotechnological Equipment</i> , 2013 , 27, 3457-3464	1.6	5
23	Surface properties and behavior of lipid extracts from plasma membranes of cells cultured as monolayer and in tissue-like conditions. <i>Cell Biochemistry and Biophysics</i> , 2009 , 54, 47-55	3.2	5
22	Cell culturing in a three-dimensional matrix affects the localization and properties of plasma membrane cholesterol. <i>Cell Biology International</i> , 2009 , 33, 1079-86	4.5	5

21	Non-radioactive quantification of fibronectin matrix assembly. <i>Current Protocols in Cell Biology</i> , 2004 , Chapter 10, Unit 10.13	2.3	5
20	The Evolution of Three-Dimensional Cell Cultures Towards Unimpeded Regenerative Medicine and Tissue Engineering 2013 ,		4
19	Halothane affects focal adhesion proteins in the A 549 cells. <i>Molecular and Cellular Biochemistry</i> , 2007 , 295, 59-64	4.2	4
18	Inhibition of rho GTPases by RNA interference. <i>Methods in Enzymology</i> , 2006 , 406, 345-61	1.7	4
17	Current state of the opportunities for derivation of germ-like cells from pluripotent stem cells: are you a man, or a mouse?. <i>Biotechnology and Biotechnological Equipment</i> , 2014 , 28, 184-191	1.6	3
16	Intake of Xylooligosaccharides Alters the Structural Organization of Liver Plasma Membrane Bilayer. <i>Food Biophysics</i> , 2014 , 9, 138-144	3.2	3
15	Structural organization of plasma membrane lipids isolated from cells cultured as a monolayer and in tissue-like conditions. <i>Journal of Colloid and Interface Science</i> , 2011 , 359, 202-9	9.3	3
14	Dimethylsphingosine and miltefosine induce apoptosis in lung adenocarcinoma A549 cells in a synergistic manner. <i>Chemico-Biological Interactions</i> , 2019 , 310, 108731	5	2
13	Fructooligosaccharide Intake Alters the Phospholipid and Fatty Acid Composition of Liver Plasma Membranes. <i>Biotechnology and Biotechnological Equipment</i> , 2012 , 26, 2904-2909	1.6	2
12	Determination of Akt/PKB signaling. <i>Current Protocols in Cell Biology</i> , 2004 , Chapter 14, Unit 14.6	2.3	2
11	Individual capacity for repair of DNA damage and potential uses of stem cell lines for clinical applications: a matter of (genomic) integrity. <i>Biotechnology and Biotechnological Equipment</i> , 2018 , 32, 1352-1358	1.6	2
10	Alterations of the composition and metabolism of pulmonary surfactant phospholipids induced by experimental peritonitis in rats. <i>Chemico-Biological Interactions</i> , 2007 , 169, 73-9	5	1
9	Transmembrane crosstalk between the extracellular matrix and the cytoskeleton		1
8	Photobiomodulation with 590 nm Wavelength Delays the Telomere Shortening and Replicative Senescence of Human Dermal Fibroblasts. <i>Photobiomodulation, Photomedicine, and Laser Surgery</i> , 2020 , 38, 656-660	2.8	1
7	Anti-cancer effect of <i>Petasites hybridus</i> L. (Butterbur) root extract on breast cancer cell lines. <i>Biotechnology and Biotechnological Equipment</i> , 2021 , 35, 853-861	1.6	1
6	Quercetin affects membrane lipids and apoptosis in three-dimensional fibroblast cultures. <i>Biotechnology and Biotechnological Equipment</i> , 2021 , 35, 943-952	1.6	0
5	Hyperglycemia attenuates fibroblast contractility via suppression of TβII receptor modulated smooth muscle actin expression. <i>Biotechnology and Biotechnological Equipment</i> , 2022 , 36, 34-43	1.6	0
4	Arachidonoyl-CoA:lysophosphatidylcholine acyltransferase activity in ras-transformed NIH 3T3 fibroblasts depends on the membrane composition. <i>IUBMB Life</i> , 1999 , 47, 555-61	4.7	

- 3 Alterations in rat alveolar surfactant system induced by treatment with carbicron (O-[(2-butenic acid)-N,N-dimethylamide-3-yl]-O,O-dimethylphosphate). *Comparative Biochemistry and Physiology Part C: Comparative Pharmacology*, **1992**, 103, 553-5
- 2 Influence of carbicron (O-[(2-butenic acid)-N,N-dimethylamide-3-yl] O,O-dimethylphosphate) on some biochemical and biophysical parameters of rat liver membranes. *International Journal of Biochemistry & Cell Biology*, **1993**, 25, 253-7
- 1 Cell Adhesions and Signaling: A Tool for Biocompatibility Assessment. *NATO Science for Peace and Security Series A: Chemistry and Biology*, **2010**, 1-17

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