Jiri Petrak

List of Publications by Year
in descending order

55 papers	2,119 citations	257450 24 h-index	233421 45 g-index
55 all docs	55 docs citations	55 times ranked	3419 citing authors

#	Article	IF	Citations
1	Quantitative proteomic analysis of cerebrospinal fluid of women newly diagnosed with multiple sclerosis. International Journal of Neuroscience, 2022, 132, 724-734.	1.6	6
2	Flow Cytometry Analysis of Blood Large Extracellular Vesicles in Patients with Multiple Sclerosis Experiencing Relapse of the Disease. Journal of Clinical Medicine, 2022, 11, 2832.	2.4	2
3	Right versus left ventricular remodeling in heart failure due to chronic volume overload. Scientific Reports, 2021, 11, 17136.	3.3	21
4	Deep Membrane Proteome Profiling Reveals Overexpression of Prostate-Specific Membrane Antigen (PSMA) in High-Risk Human Paraganglioma and Pheochromocytoma, Suggesting New Theranostic Opportunity. Molecules, 2021, 26, 6567.	3.8	4
5	Exosomes released by imatinibâ€'resistant K562 cells contain specific membrane markers, IFITM3, CD146 and CD36 and increase the survival of imatinibâ€'sensitive cells in the presence of imatinib. International Journal of Oncology, 2020, 58, 238-250.	3.3	14
6	Myocardial iron homeostasis and hepcidin expression in a rat model of heart failure at different levels of dietary iron intake. Biochimica Et Biophysica Acta - General Subjects, 2019, 1863, 703-713.	2.4	20
7	A three-pronged â€œPitchforkâ€•strategy enables an extensive description of the human membrane proteome and the identification of missing proteins. Journal of Proteomics, 2019, 204, 103411.	2.4	3
8	Affinity depletion versus relative protein enrichment: a side-by-side comparison of two major strategies for increasing human cerebrospinal fluid proteome coverage. Clinical Proteomics, 2019, 16, 9.	2.1	27
9	Kidney Response to Heart Failure: Proteomic Analysis of Cardiorenal Syndrome. Kidney and Blood Pressure Research, 2018, 43, 1437-1450.	2.0	25
10	Skeletal Muscle Abnormalities and Iron Deficiency in Chronic Heart Failure. Circulation: Heart Failure, 2018, 11, e004800.	3.9	44
11	Detection and quantitation of iron in ferritin, transferrin and labile iron pool (LIP) in cardiomyocytes using 55Fe and storage phosphorimaging. Biochimica Et Biophysica Acta - General Subjects, 2018, 1862, 2895-2901.	2.4	12
12	An activating mutation of GNB1 is associated with resistance to tyrosine kinase inhibitors in ETV6-ABL1-positive leukemia. Oncogene, 2017, 36, 5985-5994.	5.9	21
13	Integral membrane proteins in proteomics. How to break open the black box?. Journal of Proteomics, 2017, 153, 8-20.	2.4	77
14	Therapeutic potential of hepcidin â^' the master regulator of iron metabolism. Pharmacological Research, 2017, 115, 242-254.	7.1	40
15	Myocardial iron content and mitochondrial function in human heart failure: a direct tissue analysis. European Journal of Heart Failure, 2017, 19, 522-530.	7.1	180
16	Changes in Myocardial Composition and Conduction Properties in Rat Heart Failure Model Induced by Chronic Volume Overload. Frontiers in Physiology, 2016, 7, 367.	2.8	23
17	Proteomic analysis of imatinib-resistant CML-T1 cells reveals calcium homeostasis as a potential therapeutic target. Oncology Reports, 2016, 36, 1258-1268.	2.6	7
18	Large-scale identification of membrane proteins based on analysis of trypsin-protected transmembrane segments. Journal of Proteomics, 2016, 149, 15-22.	2.4	12

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19	GNB1 K89M Drives TKI Resistance in ETV6-ABL1-Positive Leukemia. Blood, 2016, 128, 751-751.	1.4	0
20	Detailed Functional and Proteomic Characterization of Fludarabine Resistance in Mantle Cell Lymphoma Cells. PLoS ONE, 2015, 10, e0135314.	2.5	9
21	Downregulation of deoxycytidine kinase in cytarabine-resistant mantle cell lymphoma cells confers cross-resistance to nucleoside analogs gemcitabine, fludarabine and cladribine, but not to other classes of anti-lymphoma agents. Molecular Cancer, 2014, 13, 159.	19.2	30
22	Multilevel Molecular Profiling to Dissect Resistance to Tyrosine Kinase Inhibitors in TEL/ABL Positive Acute Lymphoblastic Leukemia. Blood, 2014, 124, 3637-3637.	1.4	0
23	Resistance to TRAIL in mantle cell lymphoma cells is associated with the decreased expression of purine metabolism enzymes. International Journal of Molecular Medicine, 2013, 31, 1273-1279.	4.0	6
24	Nutritional hepatic iron overload is not prevented by parenteral hepcidin substitution therapy in mice. British Journal of Nutrition, 2012, 108, 1723-1725.	2.3	3
25	Decreased concentrations of retinol-binding protein 4 in sera of epithelial ovarian cancer patients: A potential biomarker identified by proteomics. Oncology Reports, 2011, 27, 318-24.	2.6	35
26	Effect of metformin therapy on cardiac function and survival in a volume-overload model of heart failure in rats. Clinical Science, 2011, 121, 29-41.	4.3	50
27	Metabolic characterization of volume overload heart failure due to aorto-caval fistula in rats. Molecular and Cellular Biochemistry, 2011, 354, 83-96.	3.1	50
28	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. Proteome Science, 2011, 9, 69.	1.7	39
29	Myocardial Morphological Characteristics and Proarrhythmic Substrate in the Rat Model of Heart Failure Due to Chronic Volume Overload. Anatomical Record, 2011, 294, 102-111.	1.4	29
30	Tyrosine 87 is vital for the activity of human protein arginine methyltransferase 3 (PRMT3). Biochimica Et Biophysica Acta - Proteins and Proteomics, 2011, 1814, 277-282.	2.3	3
31	Human MRCKÎ± is regulated by cellular iron levels and interferes with transferrin iron uptake. Biochemical and Biophysical Research Communications, 2010, 395, 163-167.	2.1	26
32	Prion Protein Modulates Cellular Iron Uptake: A Novel Function with Implications for Prion Disease Pathogenesis. PLoS ONE, 2009, 4, e4468.	2.5	52
33	Identification of mutations in the ribosomal protein L5 (RPL5) and ribosomal protein L11 (RPL11) genes in Czech patients with Diamond-Blackfan anemia. Human Mutation, 2009, 30, 321-327.	2.5	91
34	Identification of molecular targets for selective elimination of TRAILâ€resistant leukemia cells. From spots to in vitro assays using TOP15 charts. Proteomics, 2009, 9, 5006-5015.	2.2	6
35	Identification of differentially expressed proteins using automated meta-analysis of proteomic articles. Biochemistry (Moscow) Supplement Series B: Biomedical Chemistry, 2009, 3, 10-16.	0.4	4
36	Hepcidin, the hormone of iron metabolism, is bound specifically to Î±-2-macroglobulin in blood. Blood, 2009, 113, 6225-6236.	1.4	111

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37	DÃ©jÃ vu in proteomics. A hit parade of repeatedly identified differentially expressed proteins. Proteomics, 2008, 8, 1744-1749.	2.2	337
38	Proteomic analysis of hepatic iron overload in mice suggests dysregulation of urea cycle, impairment of fatty acid oxidation, and changes in the methylation cycle. American Journal of Physiology - Renal Physiology, 2007, 292, G1490-G1498.	3.4	32
39	Iron-independent specific protein expression pattern in the liver of HFE-deficient mice. International Journal of Biochemistry and Cell Biology, 2007, 39, 1006-1015.	2.8	12
40	Ribosomal protein S17 gene (RPS17) is mutated in Diamond-Blackfan anemia. Human Mutation, 2007, 28, 1178-1182.	2.5	203
41	Native proteomic analysis of protein complexes in murine intestinal brush border membranes. Proteomics, 2007, 7, 121-129.	2.2	33
42	Proteomic analysis of erythroid differentiation induced by hexamethylene bisacetamide in murine erythroleukemia cells. Experimental Hematology, 2007, 35, 193-202.	0.4	7
43	Proteomic and mRNA Expression Chip Analysis of Acquired TRAIL-Resistance in Human HL60 Myeloid Leukemia Cells.. Blood, 2007, 110, 4155-4155.	1.4	0
44	A novel iron responsive element in the 3â€²UTR of human MRCKÎ±. Biochemical and Biophysical Research Communications, 2006, 341, 158-166.	2.1	62
45	Proteomic analysis of iron overload in human hepatoma cells. American Journal of Physiology - Renal Physiology, 2006, 290, G1059-G1066.	3.4	25
46	Translational efficiency in patients with Diamond-Blackfan anemia. Haematologica, 2006, 91, 1456-64.	3.5	58
47	Identification of heme binding protein complexes in murine erythroleukemic cells: Study by a novel two-dimensional native separation - liquid chromatography and electrophoresis. Proteomics, 2005, 5, 340-350.	2.2	30
48	Hephaestinâ€”a ferroxidase of cellular iron export. International Journal of Biochemistry and Cell Biology, 2005, 37, 1173-1178.	2.8	74
49	Hepcidin: A direct link between iron metabolism and immunity. International Journal of Biochemistry and Cell Biology, 2005, 37, 1768-1773.	2.8	83
50	Incorporation of iron into Tritrichomonas foetus cell compartments reveals ferredoxin as a major iron-binding protein in hydrogenosomes. Microbiology (United Kingdom), 2003, 149, 1911-1921.	1.8	19
51	Native electrophoretic separation and femtomolar detection of 65Zn-containing proteins by storage phosphorimaging. Journal of Proteomics, 2003, 57, 177-182.	2.4	2
52	Detection of iron-containing proteins contributing to the cellular labile iron pool by a native electrophoresis metal blotting technique. Journal of Inorganic Biochemistry, 2001, 86, 669-675.	3.5	17
53	Detection and Quantitation of59Fe-Labeled Proteins Using Storage Phosphorimaging. Analytical Biochemistry, 1998, 260, 103-106.	2.4	3
54	Separation of cellular iron containing compounds by electrophoresis. Biological Trace Element Research, 1998, 61, 263-275.	3.5	15

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55	Iron transport in K562 cells: a kinetic study using native gel electrophoresis and 59Fe autoradiography. Biochimica Et Biophysica Acta - Molecular Cell Research, 1998, 1403, 179-188.	4.1	25