

Pavel Bouchal

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Biomarker Discovery in Low-Grade Breast Cancer Using Isobaric Stable Isotope Tags and Two-Dimensional Liquid Chromatography-Tandem Mass Spectrometry (iTRAQ-2DLC-MS/MS) Based Quantitative Proteomic Analysis. <i>Journal of Proteome Research</i> , 2009, 8, 362-373.	3.7	98
2	Transgelins, cytoskeletal proteins implicated in different aspects of cancer development. <i>Expert Review of Proteomics</i> , 2014, 11, 149-165.	3.0	81
3	Breast Cancer Classification Based on Proteotypes Obtained by SWATH Mass Spectrometry. <i>Cell Reports</i> , 2019, 28, 832-843.e7.	6.4	72
4	Combined Proteomics and Transcriptomics Identifies Carboxypeptidase B1 and Nuclear Factor κ B (NF- κ B) Associated Proteins as Putative Biomarkers of Metastasis in Low Grade Breast Cancer. <i>Molecular and Cellular Proteomics</i> , 2015, 14, 1814-1830.	3.8	54
5	AGR2 oncoprotein inhibits p38 MAPK and p53 activation through a DUSP10-mediated regulatory pathway. <i>Molecular Oncology</i> , 2016, 10, 652-662.	4.6	43
6	Surface-enhanced laser desorption/ionization time-of-flight proteomic profiling of breast carcinomas identifies clinicopathologically relevant groups of patients similar to previously defined clusters from cDNA expression. <i>Breast Cancer Research</i> , 2008, 10, R48.	5.0	36
7	Proteomic and bioinformatic analysis of iron- and sulfur-oxidizing <i>Acidithiobacillus ferrooxidans</i> using immobilized pH gradients and mass spectrometry. <i>Proteomics</i> , 2006, 6, 4278-4285.	2.2	32
8	Kinetics of anaerobic elemental sulfur oxidation by ferric iron in <i>Acidithiobacillus ferrooxidans</i> and protein identification by comparative 2-DE-MS/MS. <i>Antonie Van Leeuwenhoek</i> , 2012, 101, 561-573.	1.7	30
9	Unraveling an FNR based regulatory circuit in <i>Paracoccus denitrificans</i> using a proteomics-based approach. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2010, 1804, 1350-1358.	2.3	29
10	A Model of Aerobic and Anaerobic Metabolism of Hydrogen in the Extremophile <i>Acidithiobacillus ferrooxidans</i> . <i>Frontiers in Microbiology</i> , 2020, 11, 610836.	3.5	25
11	Surface design of photon-upconversion nanoparticles for high-contrast immunocytochemistry. <i>Nanoscale</i> , 2020, 12, 8303-8313.	5.6	24
12	The new platinum-based anticancer agent LA-12 induces retinol binding protein 4 in vivo. <i>Proteome Science</i> , 2011, 9, 68.	1.7	23
13	Comparison of targeted proteomics approaches for detecting and quantifying proteins derived from human cancer tissues. <i>Proteomics</i> , 2017, 17, 1600323.	2.2	22
14	Intact protein profiling in breast cancer biomarker discovery: Protein identification issue and the solutions based on 3D protein separation, bottom-up and top-down mass spectrometry. <i>Proteomics</i> , 2013, 13, 1053-1058.	2.2	20
15	Transgelin is upregulated in stromal cells of lymph node positive breast cancer. <i>Journal of Proteomics</i> , 2016, 132, 103-111.	2.4	19
16	Targeted proteomics driven verification of biomarker candidates associated with breast cancer aggressiveness. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2017, 1865, 488-498.	2.3	19
17	Ferrous iron oxidation by sulfur-oxidizing <i>Acidithiobacillus ferrooxidans</i> and analysis of the process at the levels of transcription and protein synthesis. <i>Antonie Van Leeuwenhoek</i> , 2013, 103, 905-919.	1.7	18
18	Tamoxifen-Dependent Induction of <i>AGR2</i> Is Associated with Increased Aggressiveness of Endometrial Cancer Cells. <i>Cancer Investigation</i> , 2017, 35, 313-324.	1.3	18

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19	Determination of rhodanese enzyme activity by capillary zone electrophoresis. <i>Journal of Chromatography A</i> , 1999, 838, 139-148.	3.7	17
20	Surface-Enhanced Laser Desorption Ionization/Time-of-Flight Mass Spectrometry Reveals Significant Artifacts in Serum Obtained from Clot Activator-Containing Collection Devices. <i>Clinical Chemistry</i> , 2006, 52, 2115-2116.	3.2	17
21	AGR2 associates with HER2 expression predicting poor outcome in subset of estrogen receptor negative breast cancer patients. <i>Experimental and Molecular Pathology</i> , 2017, 102, 280-283.	2.1	17
22	Biotinylation of quantum dots for application in fluoroimmunoassays with biotin-avidin amplification. <i>Mikrochimica Acta</i> , 2012, 176, 287-293.	5.0	15
23	SWATH-MS Analysis of FFPE Tissues Identifies Stathmin as a Potential Marker of Endometrial Cancer in Patients Exposed to Tamoxifen. <i>Journal of Proteome Research</i> , 2020, 19, 2617-2630.	3.7	15
24	The role of miR-409-3p in regulation of HPV16/18-E6 mRNA in human cervical high-grade squamous intraepithelial lesions. <i>Antiviral Research</i> , 2019, 163, 185-192.	4.1	14
25	Proteomics in investigation of cancer metastasis: Functional and clinical consequences and methodological challenges. <i>Proteomics</i> , 2014, 14, 426-440.	2.2	12
26	Proteomic responses to a methyl viologen-induced oxidative stress in the wild type and FerB mutant strains of <i>Paracoccus denitrificans</i> . <i>Journal of Proteomics</i> , 2015, 125, 68-75.	2.4	11
27	Characterization of the AGR2 Interactome Uncovers New Players of Protein Disulfide Isomerase Network in Cancer Cells. <i>Molecular and Cellular Proteomics</i> , 2022, 21, 100188.	3.8	11
28	Protein composition of <i>Paracoccus denitrificans</i> cells grown on various electron acceptors and in the presence of azide. <i>Proteomics</i> , 2004, 4, 2662-2671.	2.2	9
29	Targeted proteomics of solid cancers: from quantification of known biomarkers towards reading the digital proteome maps. <i>Expert Review of Proteomics</i> , 2015, 12, 651-667.	3.0	9
30	Pull-down Assay on Streptavidin Beads and Surface Plasmon Resonance Chips for SWATH-MS-based Interactomics. <i>Cancer Genomics and Proteomics</i> , 2018, 15, 395-404.	2.0	9
31	Proteomics Identification and Validation of Desmocollin-1 and Catechol Methyltransferase as Proteins Associated with Breast Cancer Cell Migration and Metastasis. <i>Proteomics</i> , 2019, 19, 1900073.	2.2	7
32	Examination of membrane protein expression in <i>Paracoccus denitrificans</i> by two-dimensional gel electrophoresis. <i>Journal of Basic Microbiology</i> , 2004, 44, 17-22.	3.3	6
33	How Different Are the Molecular Mechanisms of Nodal and Distant Metastasis in Luminal A Breast Cancer?. <i>Cancers</i> , 2020, 12, 2638.	3.7	4
34	Transgelin Silencing Induces Different Processes in Different Breast Cancer Cell Lines. <i>Proteomics</i> , 2020, 20, 1900383.	2.2	3
35	Transgelin Contributes to a Poor Response of Metastatic Renal Cell Carcinoma to Sunitinib Treatment. <i>Biomedicines</i> , 2021, 9, 1145.	3.2	3
36	Proteome-wide dataset generated by iTRAQ-3DLCMS/MS technique for studying the role of FerB protein in oxidative stress in <i>Paracoccus denitrificans</i> . <i>Data in Brief</i> , 2015, 4, 390-394.	1.0	0

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37	Targeted Proteomics Driven Verification of Biomarker Candidates Associated with Breast Cancer Aggressiveness. <i>Methods in Molecular Biology</i> , 2017, 1788, 177-184.	0.9	0
38	2D-PAGE Database for Studies on Energetic Metabolism of the Denitrifying Bacterium <i>Paracoccus denitrificans</i> . , 0, , .		0
39	A large-scale assay library for targeted protein quantification in renal cell carcinoma tissues. <i>Proteomics</i> , 2022, 22, 2100228.	2.2	0