

Petr Muller

List of Publications by Year in descending order

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59
papers

1,490
citations

361413

20
h-index

330143

37
g-index

66
all docs

66
docs citations

66
times ranked

2641
citing authors

#	ARTICLE	IF	CITATIONS
1	Microthermal-induced subcellular-targeted protein damage in cells on plasmonic nanosilver-modified surfaces evokes a two-phase HSP-p97/VCP response. <i>Nature Communications</i> , 2021, 12, 713.	12.8	6
2	Hydrogen deuterium exchange mass spectrometry identifies the dominant paratope in CD20 antigen binding to the NCD1.2 monoclonal antibody. <i>Biochemical Journal</i> , 2021, 478, 99-120.	3.7	3
3	An Ultrasensitive Biosensor for Detection of Femtogram Levels of the Cancer Antigen AGR2 Using Monoclonal Antibody Modified Screen-Printed Gold Electrodes. <i>Biosensors</i> , 2021, 11, 184.	4.7	7
4	Rituximab induces rapid blood repopulation by CLL cells mediated through their release from immune niches and complement exhaustion. <i>Leukemia Research</i> , 2021, 111, 106684.	0.8	1
5	HSPA1A conformational mutants reveal a conserved structural unit in Hsp70 proteins. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020, 1864, 129458.	2.4	6
6	The effects of p53 gene inactivation on mutant proteome expression in a human melanoma cell model. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020, 1864, 129722.	2.4	4
7	The MDM2 ligand Nutlin-3 differentially alters expression of the immune blockade receptors PD-L1 and CD276. <i>Cellular and Molecular Biology Letters</i> , 2020, 25, 41.	7.0	14
8	The interaction of the mitochondrial protein importer TOMM34 with HSP70 is regulated by TOMM34 phosphorylation and binding to 14-3-3 adaptors. <i>Journal of Biological Chemistry</i> , 2020, 295, 8928-8944.	3.4	12
9	MDM2's dual mRNA binding domains co-ordinate its oncogenic and tumour suppressor activities. <i>Nucleic Acids Research</i> , 2020, 48, 6775-6787.	14.5	11
10	Impairment of carbonic anhydrase IX ectodomain cleavage reinforces tumorigenic and metastatic phenotype of cancer cells. <i>British Journal of Cancer</i> , 2020, 122, 1590-1603.	6.4	11
11	Anticancer pentamethinium salt is a potent photosensitizer inducing mitochondrial disintegration and apoptosis upon red light illumination. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020, 209, 111939.	3.8	4
12	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
13	A Cyclic Pentamethinium Salt Induces Cancer Cell Cytotoxicity through Mitochondrial Disintegration and Metabolic Collapse. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4208.	4.1	7
14	A Single Conserved Amino Acid Residue as a Critical Context-Specific Determinant of the Differential Ability of Mdm2 and MdmX RING Domains to Dimerize. <i>Frontiers in Physiology</i> , 2019, 10, 390.	2.8	7
15	An inter-subunit protein-peptide interface that stabilizes the specific activity and oligomerization of the AAA+ chaperone Reptin. <i>Journal of Proteomics</i> , 2019, 199, 89-101.	2.4	3
16	Tomm34 is commonly expressed in epithelial ovarian cancer and associates with tumour type and high FIGO stage. <i>Journal of Ovarian Research</i> , 2019, 12, 30.	3.0	12
17	Human Stress-inducible Hsp70 Has a High Propensity to Form ATP-dependent Antiparallel Dimers That Are Differentially Regulated by Cochaperone Binding*. <i>Molecular and Cellular Proteomics</i> , 2019, 18, 320-337.	3.8	35
18	CRISPR-Cas9 as a Tool in Cancer Therapy. <i>Klinicka Onkologie</i> , 2019, 32, 13-18.	0.3	21

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19	p53 promotes its own polyubiquitination by enhancing the HDM2 and HDMX interaction. <i>Protein Science</i> , 2018, 27, 976-986.	7.6	17
20	Evidence for allosteric effects on p53 oligomerization induced by phosphorylation. <i>Protein Science</i> , 2018, 27, 523-530.	7.6	7
21	Intrinsic proteotoxic stress levels vary and act as a predictive marker for sensitivity of cancer cells to Hsp90 inhibition. <i>PLoS ONE</i> , 2018, 13, e0202758.	2.5	7
22	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
23	The Role of HSF1 Protein in Malignant Transformation. <i>Klinicka Onkologie</i> , 2018, 31, 55-62.	0.3	1
24	The Role of HSP70 in Cancer and its Exploitation as a Therapeutic Target. <i>Klinicka Onkologie</i> , 2018, 31, 46-54.	0.3	4
25	Hammock: a hidden Markov model-based peptide clustering algorithm to identify protein-interaction consensus motifs in large datasets. <i>Bioinformatics</i> , 2016, 32, 9-16.	4.1	35
26	IFI16 Preferentially Binds to DNA with Quadruplex Structure and Enhances DNA Quadruplex Formation. <i>PLoS ONE</i> , 2016, 11, e0157156.	2.5	30
27	Novel Entropically Driven Conformation-specific Interactions with Tomm34 Protein Modulate Hsp70 Protein Folding and ATPase Activities. <i>Molecular and Cellular Proteomics</i> , 2016, 15, 1710-1727.	3.8	19
28	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
29	β -Np63 regulates cell proliferation, differentiation, adhesion, and migration in the BL2 subtype of basal-like breast cancer. <i>Tumor Biology</i> , 2016, 37, 10133-10140.	1.8	21
30	The Development of a Recombinant scFv Monoclonal Antibody Targeting Canine CD20 for Use in Comparative Medicine. <i>PLoS ONE</i> , 2016, 11, e0148366.	2.5	33
31	Mechanisms of Protein Homeostasis Regulation in Cancer Development. <i>Klinicka Onkologie</i> , 2016, 29, 4S18-4S24.	0.3	0
32	Impact of HSP90 Inhibition on Viability and Cell Cycle in Relation to p53 Status. <i>Klinicka Onkologie</i> , 2016, 29, 4S40-4S45.	0.3	0
33	Molecular Mechanisms of Carcinogenesis of Epithelial Ovarian Cancers. <i>Klinicka Onkologie</i> , 2016, 29, 4S46-4S53.	0.3	0
34	P0346 : Multicenter analysis of soluble Axl reveals diagnostic value for very early stage hepatocellular carcinoma. <i>Journal of Hepatology</i> , 2015, 62, S440.	3.7	3
35	N-Truncated A β 2-X Starting with Position Two in Sporadic Alzheimer's Disease Cases and Two Alzheimer Mouse Models. <i>Journal of Alzheimer's Disease</i> , 2015, 49, 101-110.	2.6	9
36	Discovery of a novel ligand that modulates the protein-protein interactions of the AAA+ superfamily oncoprotein reptin. <i>Chemical Science</i> , 2015, 6, 3109-3116.	7.4	11

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37	Multicenter analysis of soluble <sc>A</sc> reveals diagnostic value for very early stage hepatocellular carcinoma. <i>International Journal of Cancer</i> , 2015, 137, 385-394.	5.1	41
38	Phosphomimetic Mutation of the N-Terminal Lid of MDM2 Enhances the Polyubiquitination of p53 through Stimulation of E2-Ubiquitin Thioester Hydrolysis. <i>Journal of Molecular Biology</i> , 2015, 427, 1728-1747.	4.2	8
39	Protein-Protein Interactions Modulate the Docking-Dependent E3-Ubiquitin Ligase Activity of Carboxy-Terminus of Hsc70-Interacting Protein (CHIP)*. <i>Molecular and Cellular Proteomics</i> , 2015, 14, 2973-2987.	3.8	15
40	Mutant p53 accumulation in human breast cancer is not an intrinsic property or dependent on structural or functional disruption but is regulated by exogenous stress and receptor status. <i>Journal of Pathology</i> , 2014, 233, 238-246.	4.5	20
41	The Assembly and Intermolecular Properties of the Hsp70-Tomm34-Hsp90 Molecular Chaperone Complex. <i>Journal of Biological Chemistry</i> , 2014, 289, 9887-9901.	3.4	42
42	Magnetic poly(glycidyl methacrylate) microspheres for protein capture. <i>New Biotechnology</i> , 2014, 31, 482-491.	4.4	27
43	Inhibition of Post-Transcriptional RNA Processing by CDK Inhibitors and Its Implication in Anti-Viral Therapy. <i>PLoS ONE</i> , 2014, 9, e89228.	2.5	11
44	Characterization of specific p63 and p63-N-terminal isoform antibodies and their application for immunohistochemistry. <i>Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin</i> , 2013, 463, 415-425.	2.8	29
45	C-terminal phosphorylation of Hsp70 and Hsp90 regulates alternate binding to co-chaperones CHIP and HOP to determine cellular protein folding/degradation balances. <i>Oncogene</i> , 2013, 32, 3101-3110.	5.9	171
46	Development of a fluorescent monoclonal antibody-based assay to measure the allosteric effects of synthetic peptides on self-oligomerization of AGR2 protein. <i>Protein Science</i> , 2013, 22, 1266-1278.	7.6	18
47	Alterations of the Hsp70/Hsp90 chaperone and the HOP/CHIP co-chaperone system in cancer. <i>Cellular and Molecular Biology Letters</i> , 2012, 17, 446-58.	7.0	41
48	Docking-dependent Ubiquitination of the Interferon Regulatory Factor-1 Tumor Suppressor Protein by the Ubiquitin Ligase CHIP. <i>Journal of Biological Chemistry</i> , 2011, 286, 607-619.	3.4	52
49	The effect of cellular environment and p53 status on the mode of action of the platinum derivative LA-12. <i>Investigational New Drugs</i> , 2010, 28, 445-453.	2.6	15
50	The pro-metastatic protein anterior gradient-2 predicts poor prognosis in tamoxifen-treated breast cancers. <i>Oncogene</i> , 2010, 29, 4838-4847.	5.9	87
51	The new platinum(IV) derivative LA-12 shows stronger inhibitory effect on Hsp90 function compared to cisplatin. <i>Molecular Cancer</i> , 2010, 9, 147.	19.2	26
52	Abstract P1-03-07: Differential Effect of Specific p53 Mutations on Breast Cancer Growth and Response to Hsp90 Inhibition In Vivo. , 2010, , .		0
53	The cell type-specific effect of TAp73 isoforms on the cell cycle and apoptosis. <i>Cellular and Molecular Biology Letters</i> , 2008, 13, 404-20.	7.0	12
54	Chaperone-dependent stabilization and degradation of p53 mutants. <i>Oncogene</i> , 2008, 27, 3371-3383.	5.9	164

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55	<i>MDM2</i><i>SNP309 Does Not Associate with Elevated MDM2 Protein Expression or Breast Cancer Risk. <i>Oncology</i> , 2008, 74, 84-87.	1.9	27
56	Restoring wild-type conformation and DNA-binding activity of mutant p53 is insufficient for restoration of transcriptional activity. <i>Biochemical and Biophysical Research Communications</i> , 2006, 351, 499-506.	2.1	26
57	Antiproliferative activity of olomoucine II, a novel 2,6,9-trisubstituted purine cyclin-dependent kinase inhibitor. <i>Cellular and Molecular Life Sciences</i> , 2005, 62, 1763-1771.	5.4	50
58	Discriminating functional and non-functional p53 in human tumours by p53 and MDM2 immunohistochemistry. <i>Journal of Pathology</i> , 2005, 207, 251-259.	4.5	128
59	Hsp90 Is Essential for Restoring Cellular Functions of Temperature-sensitive p53 Mutant Protein but Not for Stabilization and Activation of Wild-type p53. <i>Journal of Biological Chemistry</i> , 2005, 280, 6682-6691.	3.4	54