

Jaroslav Meller

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129
papers

6,383
citations

38
h-index

78
g-index

148
ext. papers

7,277
ext. citations

5.8
avg, IF

5.45
L-index

#	Paper	IF	Citations
129	fw2.2: a quantitative trait locus key to the evolution of tomato fruit size. <i>Science</i> , 2000 , 289, 85-8	33.3	1084
128	Hypomorphic mutations in PRF1, MUNC13-4, and STXBP2 are associated with adult-onset familial HLH. <i>Blood</i> , 2011 , 118, 5794-8	2.2	283
127	VHL-regulated MiR-204 suppresses tumor growth through inhibition of LC3B-mediated autophagy in renal clear cell carcinoma. <i>Cancer Cell</i> , 2012 , 21, 532-46	24.3	253
126	Prediction-based fingerprints of protein-protein interactions. <i>Proteins: Structure, Function and Bioinformatics</i> , 2007 , 66, 630-45	4.2	247
125	Combining prediction of secondary structure and solvent accessibility in proteins. <i>Proteins: Structure, Function and Bioinformatics</i> , 2005 , 59, 467-75	4.2	222
124	Accurate prediction of solvent accessibility using neural networks-based regression. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004 , 56, 753-67	4.2	205
123	The Library of Integrated Network-Based Cellular Signatures NIH Program: System-Level Cataloging of Human Cells Response to Perturbations. <i>Cell Systems</i> , 2018 , 6, 13-24	10.6	199
122	von Hippel-Lindau protein binds hyperphosphorylated large subunit of RNA polymerase II through a proline hydroxylation motif and targets it for ubiquitination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 2706-11	11.5	179
121	Deuterium isotope effects on hydrophobic interactions: the importance of dispersion interactions in the hydrophobic phase. <i>Journal of the American Chemical Society</i> , 2003 , 125, 13836-49	16.4	165
120	Mutations within the P2 domain of norovirus capsid affect binding to human histo-blood group antigens: evidence for a binding pocket. <i>Journal of Virology</i> , 2003 , 77, 12562-71	6.6	148
119	Rotavirus VP8*: phylogeny, host range, and interaction with histo-blood group antigens. <i>Journal of Virology</i> , 2012 , 86, 9899-910	6.6	128
118	TRPM3 and miR-204 establish a regulatory circuit that controls oncogenic autophagy in clear cell renal cell carcinoma. <i>Cancer Cell</i> , 2014 , 26, 738-53	24.3	125
117	Linear programming optimization and a double statistical filter for protein threading protocols. <i>Proteins: Structure, Function and Bioinformatics</i> , 2001 , 45, 241-61	4.2	113
116	POLYVIEW: a flexible visualization tool for structural and functional annotations of proteins. <i>Bioinformatics</i> , 2004 , 20, 2460-2	7.2	112
115	Localization of Rac2 via the C terminus and aspartic acid 150 specifies superoxide generation, actin polarity and chemotaxis in neutrophils. <i>Nature Immunology</i> , 2004 , 5, 744-51	19.1	112
114	Artificial intelligence approaches for rational drug design and discovery. <i>Current Pharmaceutical Design</i> , 2007 , 13, 1497-508	3.3	102
113	The von Hippel-Lindau tumor suppressor protein and Egl-9-Type proline hydroxylases regulate the large subunit of RNA polymerase II in response to oxidative stress. <i>Molecular and Cellular Biology</i> , 2008 , 28, 2701-17	4.8	99

112	Stochastic Path Approach to Compute Atomically Detailed Trajectories: Application to the Folding of C Peptide. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 899-911	3.4	96
111	Cinteny: flexible analysis and visualization of synteny and genome rearrangements in multiple organisms. <i>BMC Bioinformatics</i> , 2007 , 8, 82	3.6	93
110	Conservation of carbohydrate binding interfaces: evidence of human HBGA selection in norovirus evolution. <i>PLoS ONE</i> , 2009 , 4, e5058	3.7	89
109	Versatile annotation and publication quality visualization of protein complexes using POLYVIEW-3D. <i>BMC Bioinformatics</i> , 2007 , 8, 316	3.6	87
108	Linear regression models for solvent accessibility prediction in proteins. <i>Journal of Computational Biology</i> , 2005 , 12, 355-69	1.7	84
107	Data Portal for the Library of Integrated Network-based Cellular Signatures (LINCS) program: integrated access to diverse large-scale cellular perturbation response data. <i>Nucleic Acids Research</i> , 2018 , 46, D558-D566	20.1	84
106	Electronic excitation spectra of furan and pyrrole: Revisited by the symmetry adapted cluster configuration interaction method. <i>Journal of Chemical Physics</i> , 2000 , 113, 7853-7866	3.9	82
105	Enhanced recognition of protein transmembrane domains with prediction-based structural profiles. <i>Bioinformatics</i> , 2006 , 22, 303-9	7.2	78
104	Mutations within the P2 Domain of Norovirus Capsid Affect Binding to Human Histo-Blood Group Antigens: Evidence for a Binding Pocket. <i>Journal of Virology</i> , 2004 , 78, 3201-3201	6.6	78
103	Phosphorylation-dependent conformational transition of the cardiac specific N-extension of troponin I in cardiac troponin. <i>Journal of Molecular Biology</i> , 2007 , 373, 706-22	6.5	73
102	State-specific coupled cluster-type dressing of multireference singles and doubles configuration interaction matrix. <i>Journal of Chemical Physics</i> , 1996 , 104, 4068-4076	3.9	72
101	Comprehensive identification and modified-site mapping of S-nitrosylated targets in prostate epithelial cells. <i>PLoS ONE</i> , 2010 , 5, e9075	3.7	72
100	Opioid-induced respiratory depression: ABCB1 transporter pharmacogenetics. <i>Pharmacogenomics Journal</i> , 2015 , 15, 119-26	3.5	67
99	Elucidation of strain-specific interaction of a GII-4 norovirus with HBGA receptors by site-directed mutagenesis study. <i>Virology</i> , 2008 , 379, 324-34	3.6	67
98	von Hippel-Lindau tumor suppressor: not only HIF executioner. <i>Trends in Molecular Medicine</i> , 2004 , 10, 146-9	11.5	60
97	Genetic and phenotypic characterization of GII-4 noroviruses that circulated during 1987 to 2008. <i>Journal of Virology</i> , 2010 , 84, 9595-607	6.6	57
96	A central domain of cyclin D1 mediates nuclear receptor corepressor activity. <i>Oncogene</i> , 2005 , 24, 431-442	4.2	57
95	Computer simulations of carbon monoxide photodissociation in myoglobin: structural interpretation of the B states. <i>Biophysical Journal</i> , 1998 , 74, 789-802	2.9	53

94	C-terminal arginine cluster is essential for receptor binding of norovirus capsid protein. <i>Journal of Virology</i> , 2006 , 80, 7322-31	6.6	51
93	Transcriptome of <i>Pneumocystis carinii</i> during fulminate infection: carbohydrate metabolism and the concept of a compatible parasite. <i>PLoS ONE</i> , 2007 , 2, e423	3.7	50
92	Rational design of small molecule inhibitors targeting the Rac GTPase-p67(phox) signaling axis in inflammation. <i>Chemistry and Biology</i> , 2012 , 19, 228-42		46
91	Multireference self-consistent size-consistent configuration interaction method. A few applications to ground and excited states. <i>Chemical Physics Letters</i> , 1995 , 244, 440-447	2.5	38
90	Rational design of small molecule inhibitors targeting the Ras GEF, SOS1. <i>Chemistry and Biology</i> , 2014 , 21, 1618-28		37
89	Differential transmission of MEKK1 morphogenetic signals by JNK1 and JNK2. <i>Development (Cambridge)</i> , 2008 , 135, 23-32	6.6	37
88	Abnormalities of signal transduction networks in chronic schizophrenia. <i>NPJ Schizophrenia</i> , 2017 , 3, 30	5.5	36
87	Inhibition of histo-blood group antigen binding as a novel strategy to block norovirus infections. <i>PLoS ONE</i> , 2013 , 8, e69379	3.7	35
86	Survey of public domain software for docking simulations and virtual screening. <i>Human Genomics</i> , 2011 , 5, 497-505	6.8	30
85	Characterization of disulfide bonds in human nucleoside triphosphate diphosphohydrolase 3 (NTPDase3): implications for NTPDase structural modeling. <i>Biochemistry</i> , 2005 , 44, 8998-9012	3.2	30
84	Traumatic Brain Injury Induces Alterations in Cortical Glutamate Uptake without a Reduction in Glutamate Transporter-1 Protein Expression. <i>Journal of Neurotrauma</i> , 2017 , 34, 220-234	5.4	29
83	Expression profiles during dedifferentiation in newt lens regeneration revealed by expressed sequence tags. <i>Molecular Vision</i> , 2010 , 16, 72-8	2.3	29
82	Rational identification of a Cdc42 inhibitor presents a new regimen for long-term hematopoietic stem cell mobilization. <i>Leukemia</i> , 2019 , 33, 749-761	10.7	29
81	Cyclin D3 action in androgen receptor regulation and prostate cancer. <i>Oncogene</i> , 2008 , 27, 3111-21	9.2	28
80	Targeting substrate-site in Jak2 kinase prevents emergence of genetic resistance. <i>Scientific Reports</i> , 2015 , 5, 14538	4.9	24
79	POLYVIEW-MM: web-based platform for animation and analysis of molecular simulations. <i>Nucleic Acids Research</i> , 2010 , 38, W662-6	20.1	23
78	Building and assessing atomic models of proteins from structural templates: learning and benchmarks. <i>Proteins: Structure, Function and Bioinformatics</i> , 2009 , 76, 930-45	4.2	23
77	Novel associations between FAAH genetic variants and postoperative central opioid-related adverse effects. <i>Pharmacogenomics Journal</i> , 2015 , 15, 436-42	3.5	22

76	Connectivity Analyses of Bioenergetic Changes in Schizophrenia: Identification of Novel Treatments. <i>Molecular Neurobiology</i> , 2019 , 56, 4492-4517	6.2	22
75	ABCC3 genetic variants are associated with postoperative morphine-induced respiratory depression and morphine pharmacokinetics in children. <i>Pharmacogenomics Journal</i> , 2017 , 17, 162-169	3.5	21
74	Significant variation between SNP-based HLA imputations in diverse populations: the last mile is the hardest. <i>Pharmacogenomics Journal</i> , 2018 , 18, 367-376	3.5	21
73	von Hippel-Lindau-dependent patterns of RNA polymerase II hydroxylation in human renal clear cell carcinomas. <i>Clinical Cancer Research</i> , 2010 , 16, 5142-52	12.9	21
72	Maximum feasibility guideline in the design and analysis of protein folding potentials. <i>Journal of Computational Chemistry</i> , 2002 , 23, 111-8	3.5	21
71	Connecting omics signatures of diseases, drugs, and mechanisms of actions with iLINCS		21
70	Kinase network dysregulation in a human induced pluripotent stem cell model of DISC1 schizophrenia. <i>Molecular Omics</i> , 2019 , 15, 173-188	4.4	20
69	Genetic risk signatures of opioid-induced respiratory depression following pediatric tonsillectomy. <i>Pharmacogenomics</i> , 2014 , 15, 1749-1762	2.6	20
68	Dual-channel single-molecule fluorescence resonance energy transfer to establish distance parameters for RNA nanoparticles. <i>ACS Nano</i> , 2010 , 4, 6843-53	16.7	20
67	Draft assembly and annotation of the <i>Pneumocystis carinii</i> genome. <i>Journal of Eukaryotic Microbiology</i> , 2006 , 53 Suppl 1, S89-91	3.6	20
66	Enrichment of Genomic Pathways Based on Differential DNA Methylation Associated With Chronic Postsurgical Pain and Anxiety in Children: A Prospective, Pilot Study. <i>Journal of Pain</i> , 2019 , 20, 771-785	5.2	20
65	Combined rational design and a high throughput screening platform for identifying chemical inhibitors of a Ras-activating enzyme. <i>Journal of Biological Chemistry</i> , 2015 , 290, 12879-98	5.4	19
64	Interaction between Na-K-ATPase and Bcl-2 proteins BclXL and Bak. <i>American Journal of Physiology - Cell Physiology</i> , 2015 , 308, C51-60	5.4	19
63	Folliculin contributes to VHL tumor suppressing activity in renal cancer through regulation of autophagy. <i>PLoS ONE</i> , 2013 , 8, e70030	3.7	19
62	Secretory phospholipase A2-IIa upregulates HER/HER2-elicited signaling in lung cancer cells. <i>International Journal of Oncology</i> , 2014 , 45, 978-84	4.4	17
61	Large-scale linear programming techniques for the design of protein folding potentials. <i>Mathematical Programming</i> , 2004 , 101, 301	2.1	17
60	Analysis of current antifungal agents and their targets within the <i>Pneumocystis carinii</i> genome. <i>Current Drug Targets</i> , 2012 , 13, 1575-85	3	16
59	Not all autophagy is equal. <i>Autophagy</i> , 2012 , 8, 1155-6	10.2	15

58	Identification of a conserved anti-apoptotic protein that modulates the mitochondrial apoptosis pathway. <i>PLoS ONE</i> , 2011 , 6, e25284	3.7	15
57	Identification of candidate repurposable drugs to combat COVID-19 using a signature-based approach. <i>Scientific Reports</i> , 2021 , 11, 4495	4.9	14
56	Size-consistent multireference configuration interaction method through the dressing of the norm of determinants. <i>Molecular Physics</i> , 2003 , 101, 2029-2041	1.7	13
55	Signature-based approaches for informed drug repurposing: targeting CNS disorders. <i>Neuropsychopharmacology</i> , 2021 , 46, 116-130	8.7	13
54	COMPUTATIONAL APPROACH TO UNDERSTANDING AUTISM SPECTRUM DISORDERS. <i>Computer Science</i> , 2012 , 13, 47	1.2	12
53	Structural Adaptations of Norovirus GII.17/13/21 Lineage through Two Distinct Evolutionary Paths. <i>Journal of Virology</i> , 2019 , 93,	6.6	12
52	Rhesus rotavirus VP4 sequence-specific activation of mononuclear cells is associated with cholangiopathy in murine biliary atresia. <i>American Journal of Physiology - Renal Physiology</i> , 2015 , 309, G466-74	5.1	11
51	Variability of indoor fungal microbiome of green and non-green low-income homes in Cincinnati, Ohio. <i>Science of the Total Environment</i> , 2018 , 610-611, 212-218	10.2	11
50	Comprehensive analysis of sequences of a protein switch. <i>Protein Science</i> , 2016 , 25, 135-46	6.3	11
49	Transcriptional Regulation of Cancer Immune Checkpoints: Emerging Strategies for Immunotherapy. <i>Vaccines</i> , 2020 , 8,	5.3	10
48	Size-consistent self-consistent combination of selected CI and perturbation theory. <i>Chemical Physics Letters</i> , 1994 , 218, 276-282	2.5	10
47	piNET: a versatile web platform for downstream analysis and visualization of proteomics data. <i>Nucleic Acids Research</i> , 2020 , 48, W85-W93	20.1	9
46	Canonical Bcl-2 motifs of the Na ⁺ /K ⁺ pump revealed by the BH3 mimetic chelerythrine: early signal transducers of apoptosis?. <i>Cellular Physiology and Biochemistry</i> , 2013 , 31, 257-76	3.9	9
45	The SRL peptide of rhesus rotavirus VP4 protein governs cholangiocyte infection and the murine model of biliary atresia. <i>Hepatology</i> , 2017 , 65, 1278-1292	11.2	9
44	Fast geometric consensus approach for protein model quality assessment. <i>Journal of Computational Biology</i> , 2011 , 18, 1807-18	1.7	9
43	Genomics Portals: integrative web-platform for mining genomics data. <i>BMC Genomics</i> , 2010 , 11, 27	4.5	9
42	Leveraging Food and Drug Administration Adverse Event Reports for the Automated Monitoring of Electronic Health Records in a Pediatric Hospital. <i>Biomedical Informatics Insights</i> , 2017 , 9, 1178222617713018	14.9	8
41	Solvent and lipid accessibility prediction as a basis for model quality assessment in soluble and membrane proteins. <i>Current Protein and Peptide Science</i> , 2011 , 12, 563-73	2.8	8

40	Kaleidoscope: A New Bioinformatics Pipeline Web Application for In Silico Hypothesis Exploration of Omics Signatures		8
39	Enhanced prediction of conformational flexibility and phosphorylation in proteins. <i>Advances in Experimental Medicine and Biology</i> , 2010 , 680, 307-19	3.6	8
38	iTRAQ proteomic identification of pVHL-dependent and -independent targets of EglN1 prolyl hydroxylase knockdown in renal carcinoma cells. <i>Advances in Enzyme Regulation</i> , 2009 , 49, 121-32		7
37	A general bridge between configuration interaction and coupled-cluster methods: a multistate solution. <i>Chemical Physics Letters</i> , 1996 , 259, 619-626	2.5	7
36	A Point Mutation in the Rhesus Rotavirus VP4 Protein Generated through a Rotavirus Reverse Genetics System Attenuates Biliary Atresia in the Murine Model. <i>Journal of Virology</i> , 2017 , 91,	6.6	6
35	On the transferability of folding and threading potentials and sequence-independent filters for protein folding simulations. <i>Molecular Physics</i> , 2004 , 102, 1291-1305	1.7	6
34	On multireference superdirect configuration interaction in third order. <i>International Journal of Quantum Chemistry</i> , 1994 , 50, 243-271	2.1	6
33	Increased susceptibility of estrogen-induced bladder outlet obstruction in a novel mouse model. <i>Laboratory Investigation</i> , 2015 , 95, 546-60	5.9	5
32	Molecular Dynamics 2010 ,		5
31	Large-scale characterization of introns in the <i>Pneumocystis carinii</i> genome. <i>Journal of Eukaryotic Microbiology</i> , 2006 , 53 Suppl 1, S151-3	3.6	5
30	Computational Methods for Prediction of Protein-Protein Interaction Sites		5
29	KRSA: Network-based Prediction of Differential Kinase Activity from Kinome Array Data		5
28	Tobacco smoking induces metabolic reprogramming of renal cell carcinoma. <i>Journal of Clinical Investigation</i> , 2021 , 131,	15.9	5
27	Protein Recognition by Sequence-to-Structure Fitness: Bridging Efficiency and Capacity of Threading Models. <i>Advances in Chemical Physics</i> , 2002 , 77-130		4
26	Identification of new drug treatments to combat COVID19: A signature-based approach using iLINCS 2020 ,		4
25	Identifying a small set of marker genes using minimum expected cost of misclassification. <i>Artificial Intelligence in Medicine</i> , 2012 , 55, 51-9	7.4	3
24	Temperatures in linguistics as a model of thermodynamics. <i>Open Systems and Information Dynamics</i> , 1994 , 2, 211-230	0.4	3
23	Molecular and Metabolic Subtypes in Sporadic and Inherited Clear Cell Renal Cell Carcinoma. <i>Genes</i> , 2021 , 12,	4.2	3

22	IODVA1, a guanidinobenzimidazole derivative, targets Rac activity and Ras-driven cancer models. <i>PLoS ONE</i> , 2020 , 15, e0229801	3.7	2
21	Substrate specificity of Tulane virus protease. <i>Virology</i> , 2013 , 436, 24-32	3.6	2
20	Association of Streptomyces community composition determined by PCR-denaturing gradient gel electrophoresis with indoor mold status. <i>Environmental Monitoring and Assessment</i> , 2014 , 186, 8773-83	3.1	2
19	On setting up and assessing docking simulations for virtual screening. <i>Methods in Molecular Biology</i> , 2012 , 928, 1-16	1.4	2
18	Enumeration of the order-14 invariants formed from the Riemann tensor. <i>Journal of Physics A</i> , 1992 , 25, 5999-6003		2
17	The active kinome: The modern view of how active protein kinase networks fit in biological research.. <i>Current Opinion in Pharmacology</i> , 2021 , 62, 117-129	5.1	2
16	piNET: a versatile web platform for downstream analysis and visualization of proteomics data		2
15	Transcriptional Profile of Pyramidal Neurons in Chronic Schizophrenia Reveals Lamina-Specific Dysfunction of Neuronal Immunity. <i>Biological Psychiatry</i> , 2020 , 87, S347-S348	7.9	2
14	Integrative Omics for Informed Drug Repurposing: Targeting CNS Disorders		1
13	Region-Specific PSD-95 Interactomes Contribute to Functional Diversity of Excitatory Synapses in Human Brain		1
12	Exposure to Traffic-Related Air Pollution is Associated with Greater Bacterial Diversity in the Lower Respiratory Tract of Children		1
11	Selective MAP1LC3C (LC3C) autophagy requires noncanonical regulators and the C-terminal peptide. <i>Journal of Cell Biology</i> , 2021 , 220,	7.3	1
10	The mycobiomes and bacteriomes of sputum, saliva, and home dust. <i>Indoor Air</i> , 2021 , 31, 357-368	5.4	1
9	F201. KINASE NETWORK DYSREGULATION IN SCHIZOPHRENIA: IMPLICATIONS FOR NEW TREATMENT STRATEGIES. <i>Schizophrenia Bulletin</i> , 2018 , 44, S299-S299	1.3	1
8	UQlust: combining profile hashing with linear-time ranking for efficient clustering and analysis of big macromolecular data. <i>BMC Bioinformatics</i> , 2016 , 17, 546	3.6	0
7	KRSA: An R package and R Shiny web application for an end-to-end upstream kinase analysis of kinase array data.. <i>PLoS ONE</i> , 2021 , 16, e0260440	3.7	0
6	SGA derivation of matrix elements between spin-adapted perturbative wave functions. <i>International Journal of Quantum Chemistry</i> , 1999 , 74, 123-133	2.1	
5	Mapping critical structural elements in divalent metal-ion transporter-1 (DMT1). <i>FASEB Journal</i> , 2010 , 24, 609.7	0.9	

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2 Toward Pediatric Precision Medicine: Examples of Genomics-Based Stratification Strategies. *Translational Bioinformatics*, **2016**, 339-361

1 Complimentary transcriptomic-metallomic analysis identifies risk of relapse for clear-cell renal cell carcinoma (ccRCC) patients.. *Journal of Clinical Oncology*, **2022**, 40, 378-378 2.2