

# Igor Stagljär

## List of Publications by Citations

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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.

87  
papers

3,961  
citations

34  
h-index

62  
g-index

131  
ext. papers

4,897  
ext. citations

8.7  
avg, IF

4.97  
L-index

#	Paper	IF	Citations
87	A global genetic interaction network maps a wiring diagram of cellular function. <i>Science</i> , <b>2016</b> , 353,	33.3	626
86	Large-scale identification of yeast integral membrane protein interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 12123-8	11.5	224
85	Interaction landscape of membrane-protein complexes in <i>Saccharomyces cerevisiae</i> . <i>Nature</i> , <b>2012</b> , 489, 585-9	50.4	186
84	Fundamentals of protein interaction network mapping. <i>Molecular Systems Biology</i> , <b>2015</b> , 11, 848	12.2	160
83	Regulation of CD133 by HDAC6 promotes E-catenin signaling to suppress cancer cell differentiation. <i>Cell Reports</i> , <b>2012</b> , 2, 951-63	10.6	131
82	Regulation of epidermal growth factor receptor trafficking by lysine deacetylase HDAC6. <i>Science Signaling</i> , <b>2009</b> , 2, ra84	8.8	123
81	Two-hybrid technologies in proteomics research. <i>Current Opinion in Biotechnology</i> , <b>2008</b> , 19, 316-23	11.4	107
80	In silico prediction of physical protein interactions and characterization of interactome orphans. <i>Nature Methods</i> , <b>2015</b> , 12, 79-84	21.6	106
79	The mammalian-membrane two-hybrid assay (MaMTH) for probing membrane-protein interactions in human cells. <i>Nature Methods</i> , <b>2014</b> , 11, 585-92	21.6	105
78	Detecting interactions with membrane proteins using a membrane two-hybrid assay in yeast. <i>Nature Protocols</i> , <b>2010</b> , 5, 1281-93	18.8	105
77	The human Rothmund-Thomson syndrome gene product, RECQL4, localizes to distinct nuclear foci that coincide with proteins involved in the maintenance of genome stability. <i>Journal of Cell Science</i> , <b>2005</b> , 118, 4261-9	5.3	105
76	Mapping protein-protein interactions for the yeast ABC transporter Ycf1p by integrated split-ubiquitin membrane yeast two-hybrid analysis. <i>Molecular Cell</i> , <b>2007</b> , 26, 15-25	17.6	87
75	FHOD1 interaction with nesprin-2G mediates TAN line formation and nuclear movement. <i>Nature Cell Biology</i> , <b>2014</b> , 16, 708-15	23.4	84
74	Identification of novel ErbB3-interacting factors using the split-ubiquitin membrane yeast two-hybrid system. <i>Genome Research</i> , <b>2003</b> , 13, 1744-53	9.7	83
73	Analysis of membrane protein interactions using yeast-based technologies. <i>Trends in Biochemical Sciences</i> , <b>2002</b> , 27, 559-63	10.3	83
72	A Global Analysis of the Receptor Tyrosine Kinase-Protein Phosphatase Interactome. <i>Molecular Cell</i> , <b>2017</b> , 65, 347-360	17.6	73
71	Yeast-based functional genomics and proteomics technologies: the first 15 years and beyond. <i>BioTechniques</i> , <b>2006</b> , 40, 625-44	2.5	69

70	Mapping the functional yeast ABC transporter interactome. <i>Nature Chemical Biology</i> , <b>2013</b> , 9, 565-72	11.7	68
69	Monitoring protein-protein interactions between the mammalian integral membrane transporters and PDZ-interacting partners using a modified split-ubiquitin membrane yeast two-hybrid system. <i>Molecular and Cellular Proteomics</i> , <b>2008</b> , 7, 1362-77	7.6	65
68	Identification of small molecule inhibitors of <i>Pseudomonas aeruginosa</i> exoenzyme S using a yeast phenotypic screen. <i>PLoS Genetics</i> , <b>2008</b> , 4, e1000005	6	65
67	Identification of novel ATP13A2 interactors and their role in $\beta$ synuclein misfolding and toxicity. <i>Human Molecular Genetics</i> , <b>2012</b> , 21, 3785-94	5.6	59
66	Pooled-matrix protein interaction screens using Barcode Fusion Genetics. <i>Molecular Systems Biology</i> , <b>2016</b> , 12, 863	12.2	59
65	NLF-1 delivers a sodium leak channel to regulate neuronal excitability and modulate rhythmic locomotion. <i>Neuron</i> , <b>2013</b> , 77, 1069-82	13.9	57
64	Application guide for omics approaches to cell signaling. <i>Nature Chemical Biology</i> , <b>2015</b> , 11, 387-97	11.7	52
63	Interaction of the mu-opioid receptor with GPR177 (Wntless) inhibits Wnt secretion: potential implications for opioid dependence. <i>BMC Neuroscience</i> , <b>2010</b> , 11, 33	3.2	52
62	The BloomS syndrome helicase interacts directly with the human DNA mismatch repair protein hMSH6. <i>Biological Chemistry</i> , <b>2003</b> , 384, 1155-64	4.5	45
61	Systematic protein-protein interaction mapping for clinically relevant human GPCRs. <i>Molecular Systems Biology</i> , <b>2017</b> , 13, 918	12.2	44
60	Interactive proteomics research technologies: recent applications and advances. <i>Current Opinion in Biotechnology</i> , <b>2011</b> , 22, 50-8	11.4	43
59	Physical and functional interaction between the BloomS syndrome gene product and the largest subunit of chromatin assembly factor 1. <i>Molecular and Cellular Biology</i> , <b>2004</b> , 24, 4710-9	4.8	42
58	KDP-1 is a nuclear envelope KASH protein required for cell-cycle progression. <i>Journal of Cell Science</i> , <b>2009</b> , 122, 2895-905	5.3	41
57	Analysis of membrane protein complexes using the split-ubiquitin membrane yeast two-hybrid (MYTH) system. <i>Methods in Molecular Biology</i> , <b>2009</b> , 548, 247-71	1.4	40
56	Negative regulation of the yeast ABC transporter Ycf1p by phosphorylation within its N-terminal extension. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 27079-88	5.4	39
55	Features of the Chaperone Cellular Network Revealed through Systematic Interaction Mapping. <i>Cell Reports</i> , <b>2017</b> , 20, 2735-2748	10.6	36
54	Protein interactome mining defines melatonin MT1 receptors as integral component of presynaptic protein complexes of neurons. <i>Journal of Pineal Research</i> , <b>2016</b> , 60, 95-108	10.4	35
53	Yeast as a tool to study bacterial effectors. <i>Current Opinion in Microbiology</i> , <b>2009</b> , 12, 18-23	7.9	34

52	The role of parkinson's disease-associated receptor GPR37 in the hippocampus: functional interplay with the adenosinergic system. <i>Journal of Neurochemistry</i> , <b>2015</b> , 134, 135-46	6	30
51	Coordination of N-glycosylation and protein translocation across the endoplasmic reticulum membrane by Sss1 protein. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 37998-8003	5.4	29
50	NDFIP allows NEDD4/NEDD4L-induced AQP2 ubiquitination and degradation. <i>PLoS ONE</i> , <b>2017</b> , 12, e0183774	3.7	28
49	Effect of C-Terminal S-Palmitoylation on D2 Dopamine Receptor Trafficking and Stability. <i>PLoS ONE</i> , <b>2015</b> , 10, e0140661	3.7	27
48	The Rho1 GTPase acts together with a vacuolar glutathione S-conjugate transporter to protect yeast cells from oxidative stress. <i>Genetics</i> , <b>2011</b> , 188, 859-70	4	27
47	Rab5-family guanine nucleotide exchange factors bind retromer and promote its recruitment to endosomes. <i>Molecular Biology of the Cell</i> , <b>2015</b> , 26, 1119-28	3.5	23
46	Evolutionarily conserved intercalated disc protein Tmem65 regulates cardiac conduction and connexin 43 function. <i>Nature Communications</i> , <b>2015</b> , 6, 8391	17.4	23
45	The Bloom's syndrome helicase (BLM) interacts physically and functionally with p12, the smallest subunit of human DNA polymerase delta. <i>Nucleic Acids Research</i> , <b>2008</b> , 36, 5166-79	20.1	23
44	The Parkinson's disease-associated GPR37 receptor interacts with striatal adenosine A receptor controlling its cell surface expression and function in vivo. <i>Scientific Reports</i> , <b>2017</b> , 7, 9452	4.9	22
43	The Parkinson's disease-associated GPR37 receptor-mediated cytotoxicity is controlled by its intracellular cysteine-rich domain. <i>Journal of Neurochemistry</i> , <b>2013</b> , 125, 362-72	6	21
42	Strategies for membrane interaction proteomics: no mass spectrometry required. <i>Proteomics</i> , <b>2012</b> , 12, 1519-26	4.8	21
41	Interactive proteomics: what lies ahead?. <i>BioTechniques</i> , <b>2008</b> , 44, 681-91	2.5	21
40	Systematic Identification of Oncogenic EGFR Interaction Partners. <i>Journal of Molecular Biology</i> , <b>2017</b> , 429, 280-294	6.5	20
39	Recent Progress in CFTR Interactome Mapping and Its Importance for Cystic Fibrosis. <i>Frontiers in Pharmacology</i> , <b>2017</b> , 8, 997	5.6	19
38	ATP-binding cassette transporters and sterol O-acyltransferases interact at membrane microdomains to modulate sterol uptake and esterification. <i>FASEB Journal</i> , <b>2015</b> , 29, 4682-94	0.9	18
37	Extensive rewiring of the EGFR network in colorectal cancer cells expressing transforming levels of KRAS. <i>Nature Communications</i> , <b>2020</b> , 11, 499	17.4	17
36	Investigation of membrane protein interactions using the split-ubiquitin membrane yeast two-hybrid system. <i>Methods in Molecular Biology</i> , <b>2012</b> , 812, 225-44	1.4	17
35	REEP5 depletion causes sarco-endoplasmic reticulum vacuolization and cardiac functional defects. <i>Nature Communications</i> , <b>2020</b> , 11, 965	17.4	16

34	Receptor tyrosine kinases and cancer: oncogenic mechanisms and therapeutic approaches. <i>Oncogene</i> , <b>2021</b> , 40, 4079-4093	9.2	16
33	Split Intein-Mediated Protein Ligation for detecting protein-protein interactions and their inhibition. <i>Nature Communications</i> , <b>2020</b> , 11, 2440	17.4	15
32	A drug discovery platform to identify compounds that inhibit EGFR triple mutants. <i>Nature Chemical Biology</i> , <b>2020</b> , 16, 577-586	11.7	15
31	A homogeneous split-luciferase assay for rapid and sensitive detection of anti-SARS CoV-2 antibodies. <i>Nature Communications</i> , <b>2021</b> , 12, 1806	17.4	14
30	A Comprehensive Membrane Interactome Mapping of Sho1p Reveals Fps1p as a Novel Key Player in the Regulation of the HOG Pathway in <i>S. cerevisiae</i> . <i>Journal of Molecular Biology</i> , <b>2015</b> , 427, 2088-103	6.5	13
29	Using yeast as a model to study membrane proteins. <i>Current Opinion in Nephrology and Hypertension</i> , <b>2011</b> , 20, 425-32	3.5	13
28	Adenosine A2A receptor-mediated control of pilocarpine-induced tremulous jaw movements is Parkinson's disease-associated GPR37 receptor-dependent. <i>Behavioural Brain Research</i> , <b>2015</b> , 288, 103-6 <sup>3-4</sup>		12
27	Systems analysis of the genetic interaction network of yeast molecular chaperones. <i>Molecular Omics</i> , <b>2018</b> , 14, 82-94	4.4	12
26	Novel regulation of equilibrative nucleoside transporter 1 (ENT1) by receptor-stimulated Ca <sup>2+</sup> -dependent calmodulin binding. <i>American Journal of Physiology - Cell Physiology</i> , <b>2016</b> , 310, C808-20 <sup>5-4</sup>		12
25	CHIP-MYTH: a novel interactive proteomics method for the assessment of agonist-dependent interactions of the human $\beta$ adrenergic receptor. <i>Biochemical and Biophysical Research Communications</i> , <b>2014</b> , 445, 746-56	3.4	12
24	Melatonin receptors limit dopamine reuptake by regulating dopamine transporter cell-surface exposure. <i>Cellular and Molecular Life Sciences</i> , <b>2018</b> , 75, 4357-4370	10.3	10
23	Finding partners: emerging protein interaction technologies applied to signaling networks. <i>Science Signaling</i> , <b>2003</b> , 2003, pe56	8.8	10
22	Membrane Yeast Two-Hybrid (MYTH) Mapping of Full-Length Membrane Protein Interactions. <i>Cold Spring Harbor Protocols</i> , <b>2016</b> , 2016, pdb.top077560	1.2	9
21	Detecting Membrane Protein-protein Interactions Using the Mammalian Membrane Two-hybrid (MaMTH) Assay. <i>Current Protocols in Chemical Biology</i> , <b>2017</b> , 9, 38-54	1.8	8
20	Parkinson's disease-associated GPR37 receptor regulates cocaine-mediated synaptic depression in corticostriatal synapses. <i>Neuroscience Letters</i> , <b>2017</b> , 638, 162-166	3.3	6
19	Highly Combinatorial Genetic Interaction Analysis Reveals a Multi-Drug Transporter Influence Network. <i>Cell Systems</i> , <b>2020</b> , 10, 25-38.e10	10.6	6
18	A Multireporter Bacterial 2-Hybrid Assay for the High-Throughput and Dynamic Assay of PDZ Domain-Peptide Interactions. <i>ACS Synthetic Biology</i> , <b>2019</b> , 8, 918-928	5.7	5
17	Identification and Functional Testing of Novel Interacting Protein Partners for the Stress Sensors Wsc1p and Mid2p of <i>G3: Genes, Genomes, Genetics</i> , <b>2019</b> , 9, 1085-1102	3.2	4

16	Generation and Validation of MYTH Baits: iMYTH and tMYTH Variants. <i>Cold Spring Harbor Protocols</i> , <b>2016</b> , 2016, pdb.prot087817	1.2	3
15	MYTH Screening: iMYTH and tMYTH Variants. <i>Cold Spring Harbor Protocols</i> , <b>2016</b> , 2016, pdb.prot087825	1.2	3
14	Novel Interactome of <i>Saccharomyces cerevisiae</i> Myosin TypeII Identified by a Modified Integrated Membrane Yeast Two-Hybrid (iMYTH) Screen. <i>G3: Genes, Genomes, Genetics</i> , <b>2016</b> , 6, 1469-74	3.2	3
13	Drugging the undruggable proteins in cancer: A systems biology approach. <i>Current Opinion in Chemical Biology</i> , <b>2021</b> ,	9.7	3
12	Mapping the Phospho-dependent ALK Interactome to Identify Novel Components in ALK Signaling. <i>Journal of Molecular Biology</i> , <b>2021</b> , 433, 167283	6.5	3
11	Chemical Genetics Screen Identifies COPB2 Tool Compounds That Alters ER Stress Response and Induces RTK Dysregulation in Lung Cancer Cells. <i>Journal of Molecular Biology</i> , <b>2021</b> , 433, 167294	6.5	2
10	CFTR interactome mapping using the mammalian membrane two-hybrid high-throughput screening system.. <i>Molecular Systems Biology</i> , <b>2022</b> , 18, e10629	12.2	2
9	Multiple functions of protein phosphatases in receptor tyrosine kinase signaling revealed by interactome analysis. <i>Molecular and Cellular Oncology</i> , <b>2017</b> , 4, e1297101	1.2	1
8	Protein Interactions of the Mechanosensory Proteins Wsc2 and Wsc3 for Stress Resistance in. <i>G3: Genes, Genomes, Genetics</i> , <b>2020</b> , 10, 3121-3135	3.2	1
7	D154Q Mutation does not Alter KRAS Dimerization.. <i>Journal of Molecular Biology</i> , <b>2021</b> , 434, 167392	6.5	1
6	Distinct roles of UVRAG and EGFR signaling in skeletal muscle homeostasis. <i>Molecular Metabolism</i> , <b>2021</b> , 47, 101185	8.8	1
5	Toward the discovery of biological functions associated with the mechanosensor Mtl1p of <i>Saccharomyces cerevisiae</i> via integrative multi-OMICs analysis. <i>Scientific Reports</i> , <b>2021</b> , 11, 7411	4.9	0
4	Met-HER3 crosstalk supports proliferation via MPZL3 in MET-amplified cancer cells.. <i>Cellular and Molecular Life Sciences</i> , <b>2022</b> , 79, 178	10.3	0
3	Testing cancer inhibitors at scale. <i>Nature Biomedical Engineering</i> , <b>2018</b> , 2, 203-204	19	
2	Detection of Membrane Protein Interactions Using Split Ubiquitin-Based Membrane Yeast Two-Hybrid Technology. <i>Scientific World Journal, The</i> , <b>2002</b> , 2, 104-105	2.2	
1	Highlights for the 60th anniversary of BBRC. <i>Biochemical and Biophysical Research Communications</i> , <b>2019</b> , 520, 699-700	3.4	