

# Tooraj Mirshahi

## List of Publications by Year in descending order

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Version: 2024-02-01

85  
papers

4,650  
citations

109321

35  
h-index

102487

66  
g-index

90  
all docs

90  
docs citations

90  
times ranked

6575  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Protein-Truncating <i>HSD17B13</i> Variant and Protection from Chronic Liver Disease. <i>New England Journal of Medicine</i> , 2018, 378, 1096-1106.	27.0	556
2	PIP2 Activates KCNQ Channels, and Its Hydrolysis Underlies Receptor-Mediated Inhibition of M Currents. <i>Neuron</i> , 2003, 37, 963-975.	8.1	474
3	Activation of inwardly rectifying K <sup>+</sup> channels by distinct PtdIns(4,5)P <sub>2</sub> interactions. <i>Nature Cell Biology</i> , 1999, 1, 183-188.	10.3	444
4	Receptor-mediated hydrolysis of plasma membrane messenger PIP2 leads to K <sup>+</sup> -current desensitization. <i>Nature Cell Biology</i> , 2000, 2, 507-514.	10.3	219
5	Whole-genome sequencing reveals host factors underlying critical COVID-19. <i>Nature</i> , 2022, 607, 97-103.	27.8	174
6	Characteristic Interactions with Phosphatidylinositol 4,5-Bisphosphate Determine Regulation of Kir Channels by Diverse Modulators. <i>Journal of Biological Chemistry</i> , 2004, 279, 37271-37281.	3.4	162
7	Sequencing of 640,000 exomes identifies <i>GPR75</i> variants associated with protection from obesity. <i>Science</i> , 2021, 373, .	12.6	130
8	The $\beta_3$ Subunits of G Proteins Gate a K <sup>+</sup> Channel by Pivoted Bending of a Transmembrane Segment. <i>Molecular Cell</i> , 2002, 10, 469-481.	9.7	123
9	Clinical factors associated with weight loss outcomes after Roux-en-Y gastric bypass surgery. <i>Obesity</i> , 2014, 22, 888-894.	3.0	118
10	Ethanol Inhibition of N-Methyl-D-aspartate Receptors Is Reduced by Site-directed Mutagenesis of a Transmembrane Domain Phenylalanine Residue. <i>Journal of Biological Chemistry</i> , 2001, 276, 44729-44735.	3.4	109
11	Identification of a Potassium Channel Site That Interacts with G Protein $\beta_3$ Subunits to Mediate Agonist-induced Signaling. <i>Journal of Biological Chemistry</i> , 1999, 274, 12517-12524.	3.4	106
12	Cilia have high cAMP levels that are inhibited by Sonic Hedgehog-regulated calcium dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 13069-13074.	7.1	101
13	Genetic inactivation of ANGPTL4 improves glucose homeostasis and is associated with reduced risk of diabetes. <i>Nature Communications</i> , 2018, 9, 2252.	12.8	99
14	Genome-wide analysis provides genetic evidence that ACE2 influences COVID-19 risk and yields risk scores associated with severe disease. <i>Nature Genetics</i> , 2022, 54, 382-392.	21.4	97
15	Gastric Bypass Surgery Produces a Durable Reduction in Cardiovascular Disease Risk Factors and Reduces the Long-term Risks of Congestive Heart Failure. <i>Journal of the American Heart Association</i> , 2017, 6, .	3.7	93
16	Identification of Critical Residues Controlling G Protein-gated Inwardly Rectifying K <sup>+</sup> Channel Activity through Interactions with the $\beta_3$ Subunits of G Proteins. <i>Journal of Biological Chemistry</i> , 2002, 277, 6088-6096.	3.4	92
17	ALG9 Mutation Carriers Develop Kidney and Liver Cysts. <i>Journal of the American Society of Nephrology: JASN</i> , 2019, 30, 2091-2102.	6.1	91
18	High Allelic Burden of Four Obesity SNPs Is Associated With Poorer Weight Loss Outcomes Following Gastric Bypass Surgery. <i>Obesity</i> , 2011, 19, 1676-1683.	3.0	81

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19	Pan-ancestry exome-wide association analyses of COVID-19 outcomes in 586,157 individuals. <i>American Journal of Human Genetics</i> , 2021, 108, 1350-1355.	6.2	72
20	Weight-Independent Effects of Roux-en-Y Gastric Bypass on Glucose Homeostasis via Melanocortin-4 Receptors in Mice and Humans. <i>Gastroenterology</i> , 2013, 144, 580-590.e7.	1.3	68
21	Effects of Acute and Chronic Ethanol Exposure on Heteromeric N-Methyl-D-Aspartate Receptors Expressed in HEK 293 Cells. <i>Journal of Neurochemistry</i> , 1997, 69, 2345-2354.	3.9	67
22	Inhibition of Transient Receptor Potential Melastatin 3 ion channels by G-protein $\beta\gamma$ subunits. <i>ELife</i> , 2017, 6, .	6.0	65
23	The MC4R(I251L) Allele Is Associated with Better Metabolic Status and More Weight Loss after Gastric Bypass Surgery. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2011, 96, E2088-E2096.	3.6	60
24	Phosphatidylinositol-4,5-Bisphosphate Regulates NMDA Receptor Activity through $\beta$ -Actinin. <i>Journal of Neuroscience</i> , 2007, 27, 5523-5532.	3.6	50
25	CCL20 is up-regulated in non-alcoholic fatty liver disease fibrosis and is produced by hepatic stellate cells in response to fatty acid loading. <i>Journal of Translational Medicine</i> , 2018, 16, 108.	4.4	50
26	All-Cause and Specific-Cause Mortality Risk After Roux-en-Y Gastric Bypass in Patients With and Without Diabetes. <i>Diabetes Care</i> , 2017, 40, 1379-1385.	8.6	49
27	G $\beta$ Residues That Do Not Interact with G $\alpha$ Underlie Agonist-independent Activity of K <sup>+</sup> Channels. <i>Journal of Biological Chemistry</i> , 2002, 277, 7348-7355.	3.4	48
28	Increased agonist and antagonist sensitivity of N-methyl-d-aspartate stimulated calcium flux in cultured neurons following chronic ethanol exposure. <i>Neuroscience Letters</i> , 1995, 200, 214-218.	2.1	47
29	Evaluation of the Association Between Preoperative Clinical Factors and Long-term Weight Loss After Roux-en-Y Gastric Bypass. <i>JAMA Surgery</i> , 2016, 151, 1056.	4.3	44
30	Distinct Sites on G Protein $\beta\gamma$ Subunits Regulate Different Effector Functions. <i>Journal of Biological Chemistry</i> , 2002, 277, 36345-36350.	3.4	43
31	Assaying Phosphatidylinositol Bisphosphate Regulation of Potassium Channels. <i>Methods in Enzymology</i> , 2002, 345, 71-92.	1.0	43
32	Long-Term Weight-Loss in Gastric Bypass Patients Carrying Melanocortin 4 Receptor Variants. <i>PLoS ONE</i> , 2014, 9, e93629.	2.5	41
33	A multi-component classifier for nonalcoholic fatty liver disease (NAFLD) based on genomic, proteomic, and phenomic data domains. <i>Scientific Reports</i> , 2017, 7, 43238.	3.3	41
34	Synergistic Roles for G-protein $\beta\gamma$ and $\beta\delta$ Subtypes in Seizure Susceptibility as Revealed in Double Knock-out Mice. <i>Journal of Biological Chemistry</i> , 2012, 287, 7121-7133.	3.4	40
35	Intracellular Calcium Enhances the Ethanol Sensitivity of NMDA Receptors Through an Interaction with the CO Domain of the NR1 Subunit. <i>Journal of Neurochemistry</i> , 1998, 71, 1095-1107.	3.9	38
36	Coassembly of Different Sulfonylurea Receptor Subtypes Extends the Phenotypic Diversity of ATP-sensitive Potassium (K <sub>ATP</sub> ) Channels. <i>Molecular Pharmacology</i> , 2008, 74, 1333-1344.	2.3	37

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37	The orphan G protein-coupled receptor 161 is required for left-right patterning. <i>Developmental Biology</i> , 2008, 323, 31-40.	2.0	35
38	T-box3 is a ciliary protein and regulates stability of the Gli3 transcription factor to control digit number. <i>ELife</i> , 2016, 5, .	6.0	33
39	Electronic health record analysis identifies kidney disease as the leading risk factor for hospitalization in confirmed COVID-19 patients. <i>PLoS ONE</i> , 2020, 15, e0242182.	2.5	33
40	The impact of bariatric surgery on inflammation: quenching the fire of obesity?. <i>Current Opinion in Endocrinology, Diabetes and Obesity</i> , 2016, 23, 373-378.	2.3	32
41	Performance of the DiaRem Score for Predicting Diabetes Remission in Two Health Systems Following Bariatric Surgery Procedures in Hispanic and non-Hispanic White Patients. <i>Obesity Surgery</i> , 2018, 28, 61-68.	2.1	26
42	GWAS of serum ALT and AST reveals an association of SLC30A10 Thr95Ile with hypermanganesemia symptoms. <i>Nature Communications</i> , 2021, 12, 4571.	12.8	26
43	Gene-level analysis of rare variants in 379,066 whole exome sequences identifies an association of GIGYF1 loss of function with type 2 diabetes. <i>Scientific Reports</i> , 2021, 11, 21565.	3.3	25
44	Specificity of G $\alpha$ 13 Signaling to Kir3 Channels Depends on the Helical Domain of Pertussis Toxin-sensitive G $\alpha$ Subunits. <i>Journal of Biological Chemistry</i> , 2007, 282, 34019-34030.	3.4	24
45	G $\alpha$ -coupled receptor activation potentiates Piezo2 currents via G $\alpha$ 13. <i>EMBO Reports</i> , 2020, 21, e49124.	4.5	20
46	Association of DiaRem Score With Cure of Type 2 Diabetes Following Bariatric Surgery. <i>JAMA Surgery</i> , 2016, 151, 779.	4.3	19
47	Evaluation of the MC4R gene across eMERGE network identifies many unreported obesity-associated variants. <i>International Journal of Obesity</i> , 2021, 45, 155-169.	3.4	19
48	Arrhythmia Variant Associations and Reclassifications in the eMERGE-III Sequencing Study. <i>Circulation</i> , 2022, 145, 877-891.	1.6	18
49	Molecular Determinants Responsible for Differential Cellular Distribution of G Protein-gated Inwardly Rectifying K <sup>+</sup> Channels. <i>Journal of Biological Chemistry</i> , 2004, 279, 11890-11897.	3.4	16
50	Critical Determinants of the G Protein $\beta$ Subunits in the G $\alpha$ 13 Stimulation of G Protein-activated Inwardly Rectifying Potassium (GIRK) Channel Activity. <i>Journal of Biological Chemistry</i> , 2003, 278, 50203-50211.	3.4	15
51	DiaRem2: Incorporating duration of diabetes to improve prediction of diabetes remission after metabolic surgery. <i>Surgery for Obesity and Related Diseases</i> , 2019, 15, 717-724.	1.2	15
52	G Protein $\beta$ Gating Confers Volatile Anesthetic Inhibition to Kir3 Channels. <i>Journal of Biological Chemistry</i> , 2010, 285, 41290-41299.	3.4	14
53	Trajectory of exonic variant discovery in a large clinical population: implications for variant curation. <i>Genetics in Medicine</i> , 2019, 21, 1417-1424.	2.4	14
54	G $\alpha$ and KACH: Old Story, New Insights. <i>Science Signaling</i> , 2003, 2003, pe32-pe32.	3.6	12

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55	Arachidonic Acid Activates Kir2.3 Channels by Enhancing Channel-Phosphatidylinositol 4,5-bisphosphate Interactions. <i>Molecular Pharmacology</i> , 2008, 73, 1185-1194.	2.3	12
56	A Conserved Mechanism for Gating in an Ionotropic Glutamate Receptor. <i>Journal of Biological Chemistry</i> , 2013, 288, 18842-18852.	3.4	9
57	Genome-wide association analysis of serum alanine and aspartate aminotransferase, and the modifying effects of BMI in 388k European individuals. <i>Genetic Epidemiology</i> , 2021, 45, 664-681.	1.3	9
58	GIRK Channel Trafficking: Different Paths for Different Family Members. <i>Molecular Interventions: Pharmacological Perspectives From Biology, Chemistry and Genomics</i> , 2002, 2, 289-291.	3.4	8
59	Genetic variants help define the role of the MC4R C-terminus in signaling and cell surface stability. <i>Scientific Reports</i> , 2018, 8, 10397.	3.3	7
60	Rare Coding Variants Associated With Electrocardiographic Intervals Identify Monogenic Arrhythmia Susceptibility Genes: A Multi-Ancestry Analysis. <i>Circulation Genomic and Precision Medicine</i> , 2021, 14, e003300.	3.6	7
61	Hydrogen-Bonding Dynamics between Adjacent Blades in G-Protein $\beta$ -Subunit Regulates GIRK Channel Activation. <i>Biophysical Journal</i> , 2006, 90, 2776-2785.	0.5	6
62	Functional Invalidation of Putative Sudden Infant Death Syndrome-Associated Variants in the KCNH2-Encoded Kv11.1 Channel. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2018, 11, e005859.	4.8	6
63	Localization and Quantification of GFP-Tagged Ion Channels Expressed in <i>Xenopus Oocytes</i> . , 2001, , 215-232.		4
64	The metabolic syndrome and DYRK1B. <i>New England Journal of Medicine</i> , 2014, 371, 784-5.	27.0	4
65	Visualizing Mutation-Specific Differences in the Trafficking-Deficient Phenotype of Kv11.1 Proteins Linked to Long QT Syndrome Type 2. <i>Frontiers in Physiology</i> , 2018, 9, 584.	2.8	3
66	Large scale clinical exome sequencing uncovers the scope and severity of skin disorders associated with MC1R genetic variants. <i>Genetics in Medicine</i> , 2021, 23, 2386-2393.	2.4	1
67	eP077: Atypical polycystic kidney disease in individuals heterozygous for rare ALC8 protein-truncating variants. <i>Genetics in Medicine</i> , 2022, 24, S50-S51.	2.4	1
68	Gating of GluA2 Receptors is Mediated by a Pivot in the M3 Helix. <i>Biophysical Journal</i> , 2013, 104, 274a.	0.5	0
69	Long-Term Mortality Risk Following Roux-en-Y Gastric Bypass (RYGB): A Case-Control Study. <i>Surgery for Obesity and Related Diseases</i> , 2016, 12, S7-S8.	1.2	0
70	Comment on: Comparative physiogenomic analyses of weight loss in response to two modes of bariatric surgery: demonstration with candidate neuropsychiatric and cardiometabolic genes. <i>Surgery for Obesity and Related Diseases</i> , 2016, 12, 377-378.	1.2	0
71	Inhibition of TRPM3 Ion Channels by G-Protein Beta-Gamma Subunits. <i>Biophysical Journal</i> , 2017, 112, 467a.	0.5	0
72	DiaRem2: Incorporating duration of diabetes to improve prediction of diabetes remission following metabolic surgery. <i>Surgery for Obesity and Related Diseases</i> , 2017, 13, S10-S11.	1.2	0

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73	Polycystin-1/Polycystin-2 Mediated Calcium Entry into Cilia during Sonic Hedgehog Signaling. Biophysical Journal, 2018, 114, 643a.	0.5	0
74	G-Protein Beta-Gamma Subunits Inhibit the Heat-Sensitive TRPM3 Ion Channels. Biophysical Journal, 2018, 114, 642a.	0.5	0
75	Combining Population Whole Exome Sequencing and Functional Analysis to Detect LQT1. Biophysical Journal, 2018, 114, 123a.	0.5	0
76	Whole-Exome Sequencing in Adults With Chronic Kidney Disease. Annals of Internal Medicine, 2018, 169, 131.	3.9	0
77	Functional Consequences of Incidentally Discovered KCNQ1 Variants Determined by Automated Electrophysiology. Biophysical Journal, 2020, 118, 110a.	0.5	0
78	Abstract 14663: High Rate of Arrhythmia Diagnoses Following Return of Pathogenic/likely Pathogenic Variants in an Unselected Population. Circulation, 2020, 142, .	1.6	0
79	Abstract 14629: Rare Variants for Electrocardiographic Traits Identify Arrhythmia Susceptibility Genes. Circulation, 2020, 142, .	1.6	0
80	Title is missing!. , 2020, 15, e0242182.		0
81	Title is missing!. , 2020, 15, e0242182.		0
82	Title is missing!. , 2020, 15, e0242182.		0
83	Title is missing!. , 2020, 15, e0242182.		0
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