

# Francesco Tombola

## List of Publications by Year in descending order

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50  
papers

3,579  
citations

201674

27  
h-index

189892

50  
g-index

51  
all docs

51  
docs citations

51  
times ranked

3434  
citing authors

#	ARTICLE	IF	CITATIONS
1	Stretch-activated ion channel Piezo1 directs lineage choice in human neural stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 16148-16153.	7.1	446
2	How Does Voltage Open an Ion Channel?. Annual Review of Cell and Developmental Biology, 2006, 22, 23-52.	9.4	286
3	Closing In on the Resting State of the Shaker K+ Channel. Neuron, 2007, 56, 124-140.	8.1	270
4	Voltage-Sensing Arginines in a Potassium Channel Permeate and Occlude Cation-Selective Pores. Neuron, 2005, 45, 379-388.	8.1	248
5	The Voltage-Gated Proton Channel Hv1 Has Two Pores, Each Controlled by One Voltage Sensor. Neuron, 2008, 58, 546-556.	8.1	226
6	Helicobacter pylori Vacuolating Toxin Forms Anion-Selective Channels in Planar Lipid Bilayers: Possible Implications for the Mechanism of Cellular Vacuolation. Biophysical Journal, 1999, 76, 1401-1409.	0.5	145
7	Myosin-II mediated traction forces evoke localized Piezo1-dependent Ca <sup>2+</sup> flickers. Communications Biology, 2019, 2, 298.	4.4	141
8	The twisted ion-permeation pathway of a resting voltage-sensing domain. Nature, 2007, 445, 546-549.	27.8	130
9	The opening of the two pores of the Hv1 voltage-gated proton channel is tuned by cooperativity. Nature Structural and Molecular Biology, 2010, 17, 44-50.	8.2	125
10	The Cooperative Voltage Sensor Motion that Gates a Potassium Channel. Journal of General Physiology, 2005, 125, 57-69.	1.9	118
11	Porin Is Present in the Plasma Membrane Where It Is Concentrated in Caveolae and Caveolae-related Domains. Journal of Biological Chemistry, 1999, 274, 29607-29612.	3.4	112
12	Molecular determinants of Hv1 proton channel inhibition by guanidine derivatives. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 9971-9976.	7.1	86
13	Plant polyphenols inhibit VacA, a toxin secreted by the gastric pathogen Helicobacter pylori. FEBS Letters, 2003, 543, 184-189.	2.8	84
14	Voltage-Sensing Domain of Voltage-Gated Proton Channel Hv1 Shares Mechanism of Block with Pore Domains. Neuron, 2013, 77, 274-287.	8.1	81
15	Static stretch affects neural stem cell differentiation in an extracellular matrix-dependent manner. Scientific Reports, 2015, 5, 8499.	3.3	78
16	The Helicobacter pylori VacA toxin is a urea permease that promotes urea diffusion across epithelia. Journal of Clinical Investigation, 2001, 108, 929-937.	8.2	78
17	Inhibition of the vacuolating and anion channel activities of the VacA toxin of Helicobacter pylori. FEBS Letters, 1999, 460, 221-225.	2.8	67
18	Water wires in atomistic models of the Hv1 proton channel. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 286-293.	2.6	67

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19	Bax Does Not Directly Participate in the Ca <sup>2+</sup> -induced Permeability Transition of Isolated Mitochondria. <i>Journal of Biological Chemistry</i> , 2004, 279, 37415-37422.	3.4	65
20	Double-stranded DNA can be translocated across a planar membrane containing purified mitochondrial porin. <i>FASEB Journal</i> , 1998, 12, 495-502.	0.5	62
21	How Far Will You Go to Sense Voltage?. <i>Neuron</i> , 2005, 48, 719-725.	8.1	60
22	Red wine and green tea reduce H pylori-or VacA-induced gastritis in a mouse model. <i>World Journal of Gastroenterology</i> , 2007, 13, 349.	3.3	59
23	DNA Translocation Across Planar Bilayers Containing Bacillus subtilis Ion Channels. <i>Journal of Biological Chemistry</i> , 1997, 272, 25275-25282.	3.4	58
24	Extramitochondrial porin: facts and hypotheses. <i>Journal of Bioenergetics and Biomembranes</i> , 2000, 32, 79-89.	2.3	55
25	Novel Aspects of the Electrophysiology of Mitochondrial Porin. <i>Biochemical and Biophysical Research Communications</i> , 1998, 243, 258-263.	2.1	42
26	The Vibrio cholerae haemolysin anion channel is required for cell vacuolation and death. <i>Cellular Microbiology</i> , 2002, 4, 397-409.	2.1	39
27	Vacuolation induced by VacA toxin of Helicobacter pylori requires the intracellular accumulation of membrane permeant bases, Cl <sup>-</sup> and water. <i>FEBS Letters</i> , 2001, 508, 479-483.	2.8	30
28	Voltage-dependent structural models of the human Hv1 proton channel from long-timescale molecular dynamics simulations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 13490-13498.	7.1	29
29	The properties of the mitochondrial megachannel in mitoplasts from human colon carcinoma cells are not influenced by Bax. <i>FEBS Letters</i> , 2005, 579, 3695-3700.	2.8	27
30	Blockers of VacA Provide Insights into the Structure of the Pore. <i>Biophysical Journal</i> , 2000, 79, 863-873.	0.5	26
31	Ca <sup>2+</sup> -reversible inhibition of the mitochondrial megachannel by ubiquinone analogues. <i>FEBS Letters</i> , 2000, 480, 89-94.	2.8	26
32	Interrogation of the intersubunit interface of the open Hv1 proton channel with a probe of allosteric coupling. <i>Scientific Reports</i> , 2015, 5, 14077.	3.3	25
33	The Hv1 proton channel responds to mechanical stimuli. <i>Journal of General Physiology</i> , 2016, 148, 405-418.	1.9	25
34	Reflectin as a Material for Neural Stem Cell Growth. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 278-284.	8.0	24
35	Architecture and gating of Hv1 proton channels. <i>Journal of Physiology</i> , 2009, 587, 5325-5329.	2.9	21
36	Voltage-gated proton channels from fungi highlight role of peripheral regions in channel activation. <i>Communications Biology</i> , 2021, 4, 261.	4.4	17

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37	How the Loop and Middle Regions Influence the Properties of <i>Helicobacter pylori</i> VacA Channels. <i>Biophysical Journal</i> , 2001, 81, 3204-3215.	0.5	15
38	HIFs: New arginine mimic inhibitors of the Hv1 channel with improved VSDâ€“ligand interactions. <i>Journal of General Physiology</i> , 2021, 153, .	1.9	14
39	Evidence for Functional Diversity between the Voltage-Gated Proton Channel Hv1 and Its Closest Related Protein HVRP1. <i>PLoS ONE</i> , 2014, 9, e105926.	2.5	14
40	Atomistic Modeling of Ion Conduction through the Voltage-Sensing Domain of the <i>Shaker</i> K <sup>+</sup> Ion Channel. <i>Journal of Physical Chemistry B</i> , 2017, 121, 3804-3812.	2.6	9
41	DNA Interacts With <i>Bacillus Subtilis</i> Mechano-sensitive Channels in Native Membrane Patches. <i>Cellular Physiology and Biochemistry</i> , 2002, 12, 127-134.	1.6	8
42	Insights on small molecule binding to the Hv1 proton channel from free energy calculations with molecular dynamics simulations. <i>Scientific Reports</i> , 2020, 10, 13587.	3.3	8
43	A novel Hv1 inhibitor reveals a new mechanism of inhibition of a voltage-sensing domain. <i>Journal of General Physiology</i> , 2021, 153, .	1.9	8
44	Thermodynamics and Mechanism of the Membrane Permeation of Hv1 Channel Blockers. <i>Journal of Membrane Biology</i> , 2021, 254, 5-16.	2.1	6
45	The vacuolating toxin of <i>Helicobacter pylori</i> mimicks the CFTRâ€“mediated chloride conductance <sup>1</sup> . <i>FEBS Letters</i> , 2002, 532, 237-240.	2.8	5
46	Growth and Spatial Control of Murine Neural Stem Cells on Reflectin Films. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 1311-1320.	5.2	4
47	Molecular Handles for the Mechanical Manipulation of Single-Membrane Proteins in Living Cells. <i>IEEE Transactions on Nanobioscience</i> , 2005, 4, 269-276.	3.3	3
48	A lipid two-step. <i>Nature Chemical Biology</i> , 2016, 12, 202-203.	8.0	2
49	Voltage-Sensing Domain of Voltage-Gated Proton Channel Hv1 Shares Mechanism of Block with Pore Domains. <i>Neuron</i> , 2013, 79, 202.	8.1	1
50	Exploiting Î–Stacking Interactions to Improve Inhibition of the Hv1 Channel by Aromatic Guanidine Derivatives. <i>Biophysical Journal</i> , 2018, 114, 374a.	0.5	1