

# Tzyh-Chang Hwang

## List of Publications by Citations

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33  
papers

980  
citations

19  
h-index

31  
g-index

35  
ext. papers

1,136  
ext. citations

4.1  
avg, IF

4.41  
L-index

#	Paper	IF	Citations
33	Gating of the CFTR Cl <sup>-</sup> channel by ATP-driven nucleotide-binding domain dimerisation. <i>Journal of Physiology</i> , <b>2009</b> , 587, 2151-61	3.9	134
32	Deletion of phenylalanine 508 causes attenuated phosphorylation-dependent activation of CFTR chloride channels. <i>Journal of Physiology</i> , <b>2000</b> , 524 Pt 3, 637-48	3.9	83
31	Stable ATP binding mediated by a partial NBD dimer of the CFTR chloride channel. <i>Journal of General Physiology</i> , <b>2010</b> , 135, 399-414	3.4	72
30	The two ATP binding sites of cystic fibrosis transmembrane conductance regulator (CFTR) play distinct roles in gating kinetics and energetics. <i>Journal of General Physiology</i> , <b>2006</b> , 128, 413-22	3.4	62
29	CFTR gating I: Characterization of the ATP-dependent gating of a phosphorylation-independent CFTR channel (DeltaR-CFTR). <i>Journal of General Physiology</i> , <b>2005</b> , 125, 361-75	3.4	54
28	Structural mechanisms of CFTR function and dysfunction. <i>Journal of General Physiology</i> , <b>2018</b> , 150, 539-570	3.4	53
27	Potential of disease-associated cystic fibrosis transmembrane conductance regulator mutants by hydrolyzable ATP analogs. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 19967-75	5.4	48
26	State-dependent modulation of CFTR gating by pyrophosphate. <i>Journal of General Physiology</i> , <b>2009</b> , 133, 405-19	3.4	46
25	Voltage-dependent flickery block of an open cystic fibrosis transmembrane conductance regulator (CFTR) channel pore. <i>Journal of Physiology</i> , <b>2001</b> , 532, 435-48	3.9	46
24	The most common cystic fibrosis-associated mutation destabilizes the dimeric state of the nucleotide-binding domains of CFTR. <i>Journal of Physiology</i> , <b>2011</b> , 589, 2719-31	3.9	37
23	Modulation of CFTR gating by permeant ions. <i>Journal of General Physiology</i> , <b>2015</b> , 145, 47-60	3.4	35
22	A common mechanism for CFTR potentiators. <i>Journal of General Physiology</i> , <b>2017</b> , 149, 1105-1118	3.4	33
21	Nonequilibrium gating of CFTR on an equilibrium theme. <i>Physiology</i> , <b>2012</b> , 27, 351-61	9.8	31
20	Identifying the molecular target sites for CFTR potentiators GLPG1837 and VX-770. <i>Journal of General Physiology</i> , <b>2019</b> , 151, 912-928	3.4	27
19	On the mechanism of gating defects caused by the R117H mutation in cystic fibrosis transmembrane conductance regulator. <i>Journal of Physiology</i> , <b>2016</b> , 594, 3227-44	3.9	27
18	Synergistic Potentiation of Cystic Fibrosis Transmembrane Conductance Regulator Gating by Two Chemically Distinct Potentiators, Ivacaftor (VX-770) and 5-Nitro-2-(3-Phenylpropylamino) Benzoate. <i>Molecular Pharmacology</i> , <b>2016</b> , 90, 275-85	4.3	24
17	CFTR potentiators: from bench to bedside. <i>Current Opinion in Pharmacology</i> , <b>2017</b> , 34, 98-104	5.1	22

16	Identification and Characterization of Novel CFTR Potentiators. <i>Frontiers in Pharmacology</i> , <b>2018</b> , 9, 1221-5.6	22
15	A single amino acid substitution in CFTR converts ATP to an inhibitory ligand. <i>Journal of General Physiology</i> , <b>2014</b> , 144, 311-20	3.4 19
14	Identification of a novel post-hydrolytic state in CFTR gating. <i>Journal of General Physiology</i> , <b>2012</b> , 139, 359-70	3.4 18
13	Optimization of the degenerated interfacial ATP binding site improves the function of disease-related mutant cystic fibrosis transmembrane conductance regulator (CFTR) channels. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 37663-71	5.4 16
12	Physiological and pharmacological characterization of the N1303K mutant CFTR. <i>Journal of Cystic Fibrosis</i> , <b>2018</b> , 17, 573-581	4.1 14
11	Identification of GLPG/ABBV-2737, a Novel Class of Corrector, Which Exerts Functional Synergy With Other CFTR Modulators. <i>Frontiers in Pharmacology</i> , <b>2019</b> , 10, 514	5.6 13
10	Biological Characterization of F508delCFTR Protein Processing by the CFTR Corrector ABBV-2222/GLPG2222. <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2020</b> , 372, 107-118	4.7 12
9	Spatial positioning of CFTR's pore-lining residues affirms an asymmetrical contribution of transmembrane segments to the anion permeation pathway. <i>Journal of General Physiology</i> , <b>2016</b> , 147, 407-22	3.4 11
8	CFTR: New insights into structure and function and implications for modulation by small molecules. <i>Journal of Cystic Fibrosis</i> , <b>2020</b> , 19 Suppl 1, S19-S24	4.1 7
7	Organoids as a personalized medicine tool for ultra-rare mutations in cystic fibrosis: The case of S955P and 1717-2A>G. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2020</b> , 1866, 165905	6.9 6
6	Characterization of (G970-T1122)-CFTR, the most frequent CFTR mutant identified in Japanese cystic fibrosis patients. <i>Journal of Physiological Sciences</i> , <b>2019</b> , 69, 103-112	2.3 3
5	Cystic fibrosis research topics featured at the 14th ECFS Basic Science Conference: Chairman's summary. <i>Journal of Cystic Fibrosis</i> , <b>2018</b> , 17, S1-S4	4.1 3
4	Functional stability of CFTR depends on tight binding of ATP at its degenerate ATP-binding site. <i>Journal of Physiology</i> , <b>2021</b> , 599, 4625-4642	3.9 2
3	The physiology of anion transport: tales of the bizarre and unexpected. <i>Experimental Physiology</i> , <b>2006</b> , 91, 121-122	2.4 0
2	CFTR: a missing link between exocrine and endocrine pancreas?. <i>Science China Life Sciences</i> , <b>2014</b> , 57, 1044-5	8.5
1	Generation of human induced pluripotent stem cells from cystic fibrosis patient carrying nonsense mutation (p.S308X) in CFTR gene.. <i>Stem Cell Research</i> , <b>2022</b> , 60, 102683	1.6