

Martina Gentzsch

List of Publications by Year in descending order

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58
papers

3,865
citations

126708

33
h-index

155451

55
g-index

59
all docs

59
docs citations

59
times ranked

3882
citing authors

#	ARTICLE	IF	CITATIONS
1	Potentiator ivacaftor abrogates pharmacological correction of $\Delta F508$ CFTR in cystic fibrosis. <i>Science Translational Medicine</i> , 2014, 6, 246ra96.	5.8	279
2	Reduced histone deacetylase 7 activity restores function to misfolded CFTR in cystic fibrosis. <i>Nature Chemical Biology</i> , 2010, 6, 25-33.	3.9	237
3	Cigarette smoke exposure induces CFTR internalization and insolubility, leading to airway surface liquid dehydration. <i>FASEB Journal</i> , 2012, 26, 533-545.	0.2	221
4	CFTR modulator theratyping: Current status, gaps and future directions. <i>Journal of Cystic Fibrosis</i> , 2019, 18, 22-34.	0.3	208
5	Domain Interdependence in the Biosynthetic Assembly of CFTR. <i>Journal of Molecular Biology</i> , 2007, 365, 981-994.	2.0	204
6	Endocytic Trafficking Routes of Wild Type and $\Delta F508$ Cystic Fibrosis Transmembrane Conductance Regulator. <i>Molecular Biology of the Cell</i> , 2004, 15, 2684-2696.	0.9	195
7	Specific Labelling of Cell Wall Proteins by Biotinylation. Identification of Four Covalently Linked O-mannosylated Proteins of <i>Saccharomyces cerevisiae</i> . , 1997, 13, 1145-1154.		189
8	Protein-O-glycosylation in yeast: protein-specific mannosyltransferases. <i>Glycobiology</i> , 1997, 7, 481-486.	1.3	152
9	Pharmacological Rescue of Conditionally Reprogrammed Cystic Fibrosis Bronchial Epithelial Cells. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2017, 56, 568-574.	1.4	133
10	Ion Channel Modulators in Cystic Fibrosis. <i>Chest</i> , 2018, 154, 383-393.	0.4	128
11	The PDZ-binding Chloride Channel ClC-3B Localizes to the Golgi and Associates with Cystic Fibrosis Transmembrane Conductance Regulator-interacting PDZ Proteins. <i>Journal of Biological Chemistry</i> , 2003, 278, 6440-6449.	1.6	124
12	Secretory Cells Dominate Airway CFTR Expression and Function in Human Airway Superficial Epithelia. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021, 203, 1275-1289.	2.5	110
13	Regulatory Insertion Removal Restores Maturation, Stability and Function of $\Delta F508$ CFTR. <i>Journal of Molecular Biology</i> , 2010, 401, 194-210.	2.0	105
14	Allosteric Modulation Balances Thermodynamic Stability and Restores Function of $\Delta F508$ CFTR. <i>Journal of Molecular Biology</i> , 2012, 419, 41-60.	2.0	90
15	The Cystic Fibrosis Transmembrane Conductance Regulator Impedes Proteolytic Stimulation of the Epithelial Na ⁺ Channel. <i>Journal of Biological Chemistry</i> , 2010, 285, 32227-32232.	1.6	89
16	Protein O-Glycosylation in Yeast. <i>Journal of Biological Chemistry</i> , 1995, 270, 2770-2775.	1.6	88
17	Direct interaction with filamins modulates the stability and plasma membrane expression of CFTR. <i>Journal of Clinical Investigation</i> , 2007, 117, 364-374.	3.9	85
18	Role of N-linked oligosaccharides in the biosynthetic processing of the cystic fibrosis membrane conductance regulator. <i>Journal of Cell Science</i> , 2008, 121, 2814-2823.	1.2	73

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19	Modulation of endocytic trafficking and apical stability of CFTR in primary human airway epithelial cultures. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2010, 298, L304-L314.	1.3	72
20	O-Glycosylation of Axl2/Bud10p by Pmt4p Is Required for Its Stability, Localization, and Function in Daughter Cells. <i>Journal of Cell Biology</i> , 1999, 145, 1177-1188.	2.3	65
21	Misassembled mutant $\hat{\text{F}}^{\text{F508}}$ CFTR in the distal secretory pathway alters cellular lipid trafficking. <i>Journal of Cell Science</i> , 2007, 120, 447-455.	1.2	62
22	PMT3 and PMT4, two new members of the protein-O-mannosyltransferase gene family of <i>Saccharomyces cerevisiae</i> . <i>Yeast</i> , 1995, 11, 1345-1351.	0.8	60
23	The role of cystic fibrosis transmembrane conductance regulator phenylalanine 508 side chain in ion channel gating. <i>Journal of Physiology</i> , 2006, 572, 347-358.	1.3	59
24	SERCA Pump Inhibitors Do Not Correct Biosynthetic Arrest of $\hat{\text{F}}^{\text{F508}}$ CFTR in Cystic Fibrosis. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2006, 34, 355-363.	1.4	52
25	F508del CFTR with two altered RXR motifs escapes from ER quality control but its channel activity is thermally sensitive. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2006, 1758, 565-572.	1.4	51
26	Protein O-glycosylation in <i>Saccharomyces cerevisiae</i> : the protein O-mannosyltransferases Pmt1p and Pmt2p function as heterodimer. <i>FEBS Letters</i> , 1995, 377, 128-130.	1.3	49
27	Restoration of R117H CFTR folding and function in human airway cells through combination treatment with VX-809 and VX-770. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2016, 311, L550-L559.	1.3	42
28	AAV Exploits Subcellular Stress Associated with Inflammation, Endoplasmic Reticulum Expansion, and Misfolded Proteins in Models of Cystic Fibrosis. <i>PLoS Pathogens</i> , 2011, 7, e1002053.	2.1	40
29	Nasospheroids permit measurements of CFTR-dependent fluid transport. <i>JCI Insight</i> , 2017, 2, .	2.3	40
30	Expression and Degradation of the Cystic Fibrosis Transmembrane Conductance Regulator in <i>Saccharomyces cerevisiae</i> . <i>Archives of Biochemistry and Biophysics</i> , 2001, 390, 195-205.	1.4	39
31	Localization of Sequences within the C-terminal Domain of the Cystic Fibrosis Transmembrane Conductance Regulator Which Impact Maturation and Stability. <i>Journal of Biological Chemistry</i> , 2001, 276, 1291-1298.	1.6	39
32	Recent progress in translational cystic fibrosis research using precision medicine strategies. <i>Journal of Cystic Fibrosis</i> , 2018, 17, S52-S60.	0.3	37
33	Treatment of cystic fibrosis airway cells with CFTR modulators reverses aberrant mucus properties <i>via</i> hydration. <i>European Respiratory Journal</i> , 2022, 59, 2100185.	3.1	36
34	An Expanded Biological Repertoire for Ins(3,4,5,6)P4 through its Modulation of CIC-3 Function. <i>Current Biology</i> , 2008, 18, 1600-1605.	1.8	35
35	Generation of renewable mouse intestinal epithelial cell monolayers and organoids for functional analyses. <i>BMC Cell Biology</i> , 2018, 19, 15.	3.0	35
36	Efficacy of lumacaftor-ivacaftor for the treatment of cystic fibrosis patients homozygous for the F508del-CFTR mutation. <i>Expert Review of Precision Medicine and Drug Development</i> , 2016, 1, 235-243.	0.4	34

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37	DNAJB12 and Hsp70 triage arrested intermediates of N1303K-CFTR for endoplasmic reticulum-associated autophagy. <i>Molecular Biology of the Cell</i> , 2021, 32, 538-553.	0.9	32
38	Energetic and Structural Basis for Activation of the Epithelial Sodium Channel by Matriptase. <i>Biochemistry</i> , 2012, 51, 3460-3469.	1.2	24
39	A Pathophysiological Model for COVID-19: Critical Importance of Transepithelial Sodium Transport upon Airway Infection. <i>Function</i> , 2020, 1, zqaa024.	1.1	24
40	Thymosin $\hat{1}\pm$ -1 does not correct F508del-CFTR in cystic fibrosis airway epithelia. <i>JCI Insight</i> , 2018, 3, .	2.3	23
41	A new Dol-P-Man:protein O-D-mannosyltransferase activity from <i>Saccharomyces cerevisiae</i> . <i>Glycobiology</i> , 1995, 5, 77-82.	1.3	22
42	Bcr (breakpoint cluster region) protein binds to PDZ-domains of scaffold protein PDZK1 and vesicle coat protein Mint3. <i>Journal of Cell Science</i> , 2004, 117, 5535-5541.	1.2	22
43	Airway Epithelial Inflammation In Vitro Augments the Rescue of Mutant CFTR by Current CFTR Modulator Therapies. <i>Frontiers in Pharmacology</i> , 2021, 12, 628722.	1.6	20
44	Phenotypes of CF rabbits generated by CRISPR/Cas9-mediated disruption of the CFTR gene. <i>JCI Insight</i> , 2021, 6, .	2.3	20
45	The cystic fibrosis airway milieu enhances rescue of F508del in a pre-clinical model. <i>European Respiratory Journal</i> , 2018, 52, 1801133.	3.1	15
46	Enhanced delivery of peptide-morpholino oligonucleotides with a small molecule to correct splicing defects in the lung. <i>Nucleic Acids Research</i> , 2021, 49, 6100-6113.	6.5	13
47	Imaging CFTR Protein Localization in Cultured Cells and Tissues. <i>Methods in Molecular Biology</i> , 2011, 742, 15-33.	0.4	12
48	The N-terminal Domain Allosterically Regulates Cleavage and Activation of the Epithelial Sodium Channel. <i>Journal of Biological Chemistry</i> , 2014, 289, 23029-23042.	1.6	12
49	Revisiting CFTR Interactions: Old Partners and New Players. <i>International Journal of Molecular Sciences</i> , 2021, 22, 13196.	1.8	11
50	Personalised medicine for non-classic cystic fibrosis resulting from rare CFTR mutations. <i>European Respiratory Journal</i> , 2020, 56, 2000062.	3.1	10
51	Impact of Airway Inflammation on the Efficacy of CFTR Modulators. <i>Cells</i> , 2021, 10, 3260.	1.8	10
52	The N terminus of $\hat{1}\pm$ -ENaC mediates ENaC cleavage and activation by furin. <i>Journal of General Physiology</i> , 2018, 150, 1179-1187.	0.9	9
53	Accumulation and persistence of ivacaftor in airway epithelia with prolonged treatment. <i>Journal of Cystic Fibrosis</i> , 2020, 19, 746-751.	0.3	9
54	Bioactive Thymosin Alpha-1 Does Not Influence F508del-CFTR Maturation and Activity. <i>Scientific Reports</i> , 2019, 9, 10310.	1.6	8

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55	A PI3K ^{Î³} mimetic peptide triggers CFTR gating, bronchodilation, and reduced inflammation in obstructive airway diseases. <i>Science Translational Medicine</i> , 2022, 14, eabl6328.	5.8	6
56	Established and novel human translational models to advance cystic fibrosis research, drug discovery, and optimize CFTR-targeting therapeutics. <i>Current Opinion in Pharmacology</i> , 2022, 64, 102210.	1.7	6
57	Early life of cystic fibrosis transmembrane conductance regulator (CFTR) in the cell. <i>Kidney International</i> , 2001, 60, 401.	2.6	0
58	Misassembled mutant CFTR in the distal secretory pathway alters cellular lipid trafficking. <i>FASEB Journal</i> , 2006, 20, A84.	0.2	0