

Christine E Bear

List of Publications by Year in Descending Order

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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.

108
papers

5,054
citations

31
h-index

69
g-index

116
ext. papers

5,663
ext. citations

8.3
avg, IF

5.44
L-index

#	Paper	IF	Citations
108	Stage-Specific Generation of Human Pluripotent Stem Cell Derived Lung Models to Measure CFTR Function.. <i>Current Protocols</i> , 2022 , 2, e341		0
107	CFTR interactome mapping using the mammalian membrane two-hybrid high-throughput screening system.. <i>Molecular Systems Biology</i> , 2022 , 18, e10629	12.2	2
106	A protocol for identifying the binding sites of small molecules on the cystic fibrosis transmembrane conductance regulator (CFTR) protein.. <i>STAR Protocols</i> , 2022 , 3, 101258	1.4	0
105	Rescue of multiple class II CFTR mutations by elexacaftor+tezacaftor+ivacaftor mediated in part by the dual activities of elexacaftor as both corrector and potentiator. <i>European Respiratory Journal</i> , 2021 , 57,	13.6	39
104	Generation of functional ciliated cholangiocytes from human pluripotent stem cells. <i>Nature Communications</i> , 2021 , 12, 6504	17.4	3
103	A new platform for high-throughput therapy testing on iPSC-derived lung progenitor cells from cystic fibrosis patients. <i>Stem Cell Reports</i> , 2021 , 16, 2825-2837	8	5
102	Perspectives on the translation of in-vitro studies to precision medicine in Cystic Fibrosis. <i>EBioMedicine</i> , 2021 , 73, 103660	8.8	2
101	Phenotyping Rare CFTR Mutations Reveal Functional Expression Defects Restored by TRIKAFTA. <i>Journal of Personalized Medicine</i> , 2021 , 11,	3.6	6
100	Identification of binding sites for ivacaftor on the cystic fibrosis transmembrane conductance regulator. <i>iScience</i> , 2021 , 24, 102542	6.1	4
99	Photochemically Activated Notch Signaling Hydrogel Preferentially Differentiates Human Derived Hepatoblasts to Cholangiocytes. <i>Advanced Functional Materials</i> , 2021 , 31, 2006116	15.6	5
98	Emerging preclinical modulators developed for F508del-CFTR have the potential to be effective for ORKAMBI resistant processing mutants. <i>Journal of Cystic Fibrosis</i> , 2021 , 20, 106-119	4.1	21
97	One-Step Formation of Protein-Based Tubular Structures for Functional Devices and Tissues. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2001746	10.1	2
96	Riociguat for the treatment of Phe508del homozygous adults with cystic fibrosis. <i>Journal of Cystic Fibrosis</i> , 2021 , 20, 1018-1025	4.1	0
95	Antisense oligonucleotide splicing modulation as a novel Cystic Fibrosis therapeutic approach for the W1282X nonsense mutation.. <i>Journal of Cystic Fibrosis</i> , 2021 ,	4.1	5
94	The CFTR Mutation c.3453G > C (D1152H) Confers an Anion Selectivity Defect in Primary Airway Tissue that Can Be Rescued by Ivacaftor. <i>Journal of Personalized Medicine</i> , 2020 , 10,	3.6	10
93	An organoid model to assay the role of CFTR in the human epididymis epithelium. <i>Cell and Tissue Research</i> , 2020 , 381, 327-336	4.2	4
92	Allele-Specific Prevention of Nonsense-Mediated Decay in Cystic Fibrosis Using Homology-Independent Genome Editing. <i>Molecular Therapy - Methods and Clinical Development</i> , 2020 , 17, 1118-1128	6.4	19

91	A helper-dependent adenoviral vector rescues CFTR to wild-type functional levels in cystic fibrosis epithelial cells harbouring class I mutations. <i>European Respiratory Journal</i> , 2020 , 56,	13.6	12
90	Anti-Infectives Restore ORKAMBI Rescue of F508del-CFTR Function in Human Bronchial Epithelial Cells Infected with Clinical Strains of. <i>Biomolecules</i> , 2020 , 10,	5.9	21
89	A Therapy for Most with Cystic Fibrosis. <i>Cell</i> , 2020 , 180, 211	56.2	28
88	Functional rescue of c.3846G>A (W1282X) in patient-derived nasal cultures achieved by inhibition of nonsense mediated decay and protein modulators with complementary mechanisms of action. <i>Journal of Cystic Fibrosis</i> , 2020 , 19, 717-727	4.1	37
87	Preclinical Studies of a Rare CF-Causing Mutation in the Second Nucleotide Binding Domain (c.3700A>G) Show Robust Functional Rescue in Primary Nasal Cultures by Novel CFTR Modulators. <i>Journal of Personalized Medicine</i> , 2020 , 10,	3.6	12
86	Conversion of human and mouse fibroblasts into lung-like epithelial cells. <i>Scientific Reports</i> , 2019 , 9, 9027.	4.9	5
85	Augmentation of Cystic Fibrosis Transmembrane Conductance Regulator Function in Human Bronchial Epithelial Cells via SLC6A14-Dependent Amino Acid Uptake. Implications for Treatment of Cystic Fibrosis. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2019 , 61, 755-764	5.7	11
84	Cholesterol Interaction Directly Enhances Intrinsic Activity of the Cystic Fibrosis Transmembrane Conductance Regulator (CFTR). <i>Cells</i> , 2019 , 8,	7.9	17
83	ORKAMBI-Mediated Rescue of Mucociliary Clearance in Cystic Fibrosis Primary Respiratory Cultures Is Enhanced by Arginine Uptake, Arginase Inhibition, and Promotion of Nitric Oxide Signaling to the Cystic Fibrosis Transmembrane Conductance Regulator Channel. <i>Molecular Pharmacology</i> , 2019 , 96, 515-525	4.3	31
82	Activity of lumacaftor is not conserved in zebrafish Cftr bearing the major cystic fibrosis-causing mutation. <i>FASEB BioAdvances</i> , 2019 , 1, 661-670	2.8	11
81	The CF Canada-Sick Kids Program in individual CF therapy: A resource for the advancement of personalized medicine in CF. <i>Journal of Cystic Fibrosis</i> , 2019 , 18, 35-43	4.1	28
80	Correctors of the Major Cystic Fibrosis Mutant Interact through Membrane-Spanning Domains. <i>Molecular Pharmacology</i> , 2018 , 93, 612-618	4.3	33
79	Comprehensive mapping of cystic fibrosis mutations to CFTR protein identifies mutation clusters and molecular docking predicts corrector binding site. <i>Proteins: Structure, Function and Bioinformatics</i> , 2018 , 86, 833-843	4.2	31
78	Transducing Airway Basal Cells with a Helper-Dependent Adenoviral Vector for Lung Gene Therapy. <i>Human Gene Therapy</i> , 2018 , 29, 643-652	4.8	39
77	Structural effects of extracellular loop mutations in CFTR helical hairpins. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018 , 1860, 1092-1098	3.8	3
76	SLC6A14, an amino acid transporter, modifies the primary CF defect in fluid secretion. <i>ELife</i> , 2018 , 7,	8.9	17
75	Lipophilicity of the Cystic Fibrosis Drug, Ivacaftor (VX-770), and Its Destabilizing Effect on the Major CF-causing Mutation: F508del. <i>Molecular Pharmacology</i> , 2018 , 94, 917-925	4.3	21
74	Molecular Mechanism of Action of Trimethylangelicin Derivatives as CFTR Modulators. <i>Frontiers in Pharmacology</i> , 2018 , 9, 719	5.6	22

73	Cover Image, Volume 86, Issue 8. <i>Proteins: Structure, Function and Bioinformatics</i> , 2018 , 86, C1-C1	4.2	
72	Synthesis and characterization of a photoaffinity labelling probe based on the structure of the cystic fibrosis drug ivacaftor. <i>Tetrahedron</i> , 2018 , 74, 5528-5538	2.4	6
71	Activity of a novel antimicrobial peptide against <i>Pseudomonas aeruginosa</i> biofilms. <i>Scientific Reports</i> , 2018 , 8, 14728	4.9	29
70	Synergy of cAMP and calcium signaling pathways in CFTR regulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E2086-E2095	11.5	31
69	Attenuation of Phosphorylation-dependent Activation of Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) by Disease-causing Mutations at the Transmission Interface. <i>Journal of Biological Chemistry</i> , 2017 , 292, 1988-1999	5.4	6
68	Is a Genetic Modifier of Cystic Fibrosis That Regulates Attachment to Human Bronchial Epithelial Cells. <i>MBio</i> , 2017 , 8,	7.8	31
67	Generation of Induced Progenitor-like Cells from Mature Epithelial Cells Using Interrupted Reprogramming. <i>Stem Cell Reports</i> , 2017 , 9, 1780-1795	8	21
66	Phenotypic profiling of CFTR modulators in patient-derived respiratory epithelia. <i>Npj Genomic Medicine</i> , 2017 , 2, 12	6.2	46
65	Orkambi [®] and amplifier co-therapy improves function from a rare mutation in gene-edited cells and patient tissue. <i>EMBO Molecular Medicine</i> , 2017 , 9, 1224-1243	12	76
64	Current insights into the role of PKA phosphorylation in CFTR channel activity and the pharmacological rescue of cystic fibrosis disease-causing mutants. <i>Cellular and Molecular Life Sciences</i> , 2017 , 74, 57-66	10.3	13
63	Channel Gating Regulation by the Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) First Cytosolic Loop. <i>Journal of Biological Chemistry</i> , 2016 , 291, 1854-1865	5.4	11
62	Cystic fibrosis gene modifier SLC26A9 modulates airway response to CFTR-directed therapeutics. <i>Human Molecular Genetics</i> , 2016 , 25, 4590-4600	5.6	62
61	The investigational Cystic Fibrosis drug Trimethylangelicin directly modulates CFTR by stabilizing the first membrane-spanning domain. <i>Biochemical Pharmacology</i> , 2016 , 119, 85-92	6	27
60	Directed differentiation of cholangiocytes from human pluripotent stem cells. <i>Nature Biotechnology</i> , 2015 , 33, 853-61	44.5	193
59	Facilitating Structure-Function Studies of CFTR Modulator Sites with Efficiencies in Mutagenesis and Functional Screening. <i>Journal of Biomolecular Screening</i> , 2015 , 20, 1204-17		30
58	Acellular lung scaffolds direct differentiation of endoderm to functional airway epithelial cells: requirement of matrix-bound HS proteoglycans. <i>Stem Cell Reports</i> , 2015 , 4, 419-30	8	73
57	The major cystic fibrosis causing mutation exhibits defective propensity for phosphorylation. <i>Proteomics</i> , 2015 , 15, 447-61	4.8	21
56	Finding new drugs to enhance anion secretion in cystic fibrosis: Toward suitable systems for better drug screening. Report on the pre-conference meeting to the 12th ECFS Basic Science Conference, Albufeira, 25-28 March 2015. <i>Journal of Cystic Fibrosis</i> , 2015 , 14, 700-5	4.1	2

55	Testing gene therapy vectors in human primary nasal epithelial cultures. <i>Molecular Therapy - Methods and Clinical Development</i> , 2015 , 2, 15034	6.4	18
54	Functional reconstitution and channel activity measurements of purified wildtype and mutant CFTR protein. <i>Journal of Visualized Experiments</i> , 2015 ,	1.6	3
53	Efficient generation of functional CFTR-expressing airway epithelial cells from human pluripotent stem cells. <i>Nature Protocols</i> , 2015 , 10, 363-81	18.8	55
52	Sphingosine-1-Phosphate Is a Novel Regulator of Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) Activity. <i>PLoS ONE</i> , 2015 , 10, e0130313	3.7	21
51	Genetic, cell biological, and clinical interrogation of the CFTR mutation c.3700 A>G (p.Ile1234Val) informs strategies for future medical intervention. <i>Genetics in Medicine</i> , 2014 , 16, 625-32	8.1	29
50	VX-809 and related corrector compounds exhibit secondary activity stabilizing active F508del-CFTR after its partial rescue to the cell surface. <i>Chemistry and Biology</i> , 2014 , 21, 666-78		69
49	Lung arginase expression and activity is increased in cystic fibrosis mouse models. <i>Journal of Applied Physiology</i> , 2014 , 117, 284-8	3.7	11
48	50 years ago in the Journal of Pediatrics: the effect of N-acetylcysteine on the viscosity of tracheobronchial secretions in cystic fibrosis of the pancreas. <i>Journal of Pediatrics</i> , 2013 , 162, 85	3.6	2
47	Proton-dependent gating and proton uptake by Wzx support O-antigen-subunit antiport across the bacterial inner membrane. <i>MBio</i> , 2013 , 4, e00678-13	7.8	34
46	Conformational defects underlie proteasomal degradation of Dent's disease-causing mutants of CLC-5. <i>Biochemical Journal</i> , 2013 , 452, 391-400	3.8	19
45	Directed differentiation of human pluripotent stem cells into mature airway epithelia expressing functional CFTR protein. <i>Nature Biotechnology</i> , 2012 , 30, 876-82	44.5	292
44	Cystic fibrosis transmembrane conductance regulator (CFTR) potentiator VX-770 (ivacaftor) opens the defective channel gate of mutant CFTR in a phosphorylation-dependent but ATP-independent manner. <i>Journal of Biological Chemistry</i> , 2012 , 287, 36639-49	5.4	192
43	Functional Rescue of F508del-CFTR Using Small Molecule Correctors. <i>Frontiers in Pharmacology</i> , 2012 , 3, 160	5.6	35
42	Identification and validation of hits from high throughput screens for CFTR modulators. <i>Current Pharmaceutical Design</i> , 2012 , 18, 628-41	3.3	9
41	Synthesis and properties of molecular probes for the rescue site on mutant cystic fibrosis transmembrane conductance regulator. <i>Journal of Medicinal Chemistry</i> , 2011 , 54, 8693-701	8.3	9
40	Insights into the mechanisms underlying CFTR channel activity, the molecular basis for cystic fibrosis and strategies for therapy. <i>Essays in Biochemistry</i> , 2011 , 50, 233-48	7.6	31
39	Probing conformational rescue induced by a chemical corrector of F508del-cystic fibrosis transmembrane conductance regulator (CFTR) mutant. <i>Journal of Biological Chemistry</i> , 2011 , 286, 24714-25	5.4	29
38	Structural basis for alginate secretion across the bacterial outer membrane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 13083-8	11.5	65

37	A chemical corrector modifies the channel function of F508del-CFTR. <i>Molecular Pharmacology</i> , 2010 , 78, 411-8	4.3	51
36	ClC transporters: discoveries and challenges in defining the mechanisms underlying function and regulation of ClC-5. <i>Pflugers Archiv European Journal of Physiology</i> , 2010 , 460, 543-57	4.6	14
35	Sphingosine-1-Phosphate acutely modulates the CFTR (Cystic Fibrosis Transmembrane Regulator) transporter in an AMPK-dependent manner. <i>FASEB Journal</i> , 2010 , 24, 609.1	0.9	
34	A small-molecule modulator interacts directly with deltaPhe508-CFTR to modify its ATPase activity and conformational stability. <i>Molecular Pharmacology</i> , 2009 , 75, 1430-8	4.3	61
33	An essential role for ClC-4 in transferrin receptor function revealed in studies of fibroblasts derived from Clcn4-null mice. <i>Journal of Cell Science</i> , 2009 , 122, 1229-37	5.3	21
32	A novel method for monitoring the cytosolic delivery of peptide cargo. <i>Journal of Controlled Release</i> , 2009 , 137, 2-7	11.7	27
31	Functional rescue of DeltaF508-CFTR by peptides designed to mimic sorting motifs. <i>Chemistry and Biology</i> , 2009 , 16, 520-30		18
30	Direct interaction of a small-molecule modulator with G551D-CFTR, a cystic fibrosis-causing mutation associated with severe disease. <i>Biochemical Journal</i> , 2009 , 418, 185-90	3.8	29
29	Molecular basis for the ATPase activity of CFTR. <i>Archives of Biochemistry and Biophysics</i> , 2008 , 476, 95-100	4.1	32
28	The intact CFTR protein mediates ATPase rather than adenylate kinase activity. <i>Biochemical Journal</i> , 2008 , 412, 315-21	3.8	28
27	The Walker B motif of the second nucleotide-binding domain (NBD2) of CFTR plays a key role in ATPase activity by the NBD1-NBD2 heterodimer. <i>Biochemical Journal</i> , 2007 , 401, 581-6	3.8	36
26	Characterization of a CFTR construct with a C-terminal tetracysteine sequence and its use in the visualization of trafficking pathways. <i>FASEB Journal</i> , 2007 , 21, A243	0.9	
25	Molecular basis for the chloride channel activity of cystic fibrosis transmembrane conductance regulator and the consequences of disease-causing mutations. <i>Current Topics in Developmental Biology</i> , 2004 , 60, 215-49	5.3	21
24	Phosphorylation-induced conformational changes of cystic fibrosis transmembrane conductance regulator monitored by attenuated total reflection-Fourier transform IR spectroscopy and fluorescence spectroscopy. <i>Journal of Biological Chemistry</i> , 2004 , 279, 5528-36	5.4	24
23	A heteromeric complex of the two nucleotide binding domains of cystic fibrosis transmembrane conductance regulator (CFTR) mediates ATPase activity. <i>Journal of Biological Chemistry</i> , 2004 , 279, 41664-9	5.4	38
22	Determination of CFTR chloride channel activity and pharmacology using radiotracer flux methods. <i>Journal of Cystic Fibrosis</i> , 2004 , 3 Suppl 2, 119-21	4.1	59
21	Studies of the molecular basis for cystic fibrosis using purified reconstituted CFTR protein. <i>Methods in Molecular Medicine</i> , 2002 , 70, 143-57		10
20	Non-CFTR chloride channels likely contribute to secretion in the murine small intestine. <i>Pflugers Archiv European Journal of Physiology</i> , 2001 , 443 Suppl 1, S103-6	4.6	26

19	Perturbation of the pore of the cystic fibrosis transmembrane conductance regulator (CFTR) inhibits its atpase activity. <i>Journal of Biological Chemistry</i> , 2001 , 276, 11575-81	5.4	28
18	Quaternary structure of the chloride channel ClC-2. <i>Biochemistry</i> , 2000 , 39, 13838-47	3.2	14
17	Chloride channel activity of ClC-2 is modified by the actin cytoskeleton. <i>Biochemical Journal</i> , 2000 , 352, 789-794	3.8	27
16	Purification and reconstitution of epithelial chloride channel cystic fibrosis transmembrane conductance regulator. <i>Methods in Enzymology</i> , 1999 , 294, 227-46	1.7	11
15	A novel procedure for the efficient purification of the cystic fibrosis transmembrane conductance regulator (CFTR). <i>Biochemical Journal</i> , 1997 , 327 (Pt 1), 17-21	3.8	52
14	Coupling of ATP hydrolysis with channel gating by purified, reconstituted CFTR. <i>Journal of Bioenergetics and Biomembranes</i> , 1997 , 29, 465-73	3.7	22
13	Modulation of disease severity in cystic fibrosis transmembrane conductance regulator deficient mice by a secondary genetic factor. <i>Nature Genetics</i> , 1996 , 12, 280-7	36.3	343
12	Purified cystic fibrosis transmembrane conductance regulator (CFTR) does not function as an ATP channel. <i>Journal of Biological Chemistry</i> , 1996 , 271, 11623-6	5.4	97
11	ATPase activity of the cystic fibrosis transmembrane conductance regulator. <i>Journal of Biological Chemistry</i> , 1996 , 271, 28463-8	5.4	214
10	Purification and characterization of recombinant cystic fibrosis transmembrane conductance regulator from Chinese hamster ovary and insect cells. <i>Journal of Biological Chemistry</i> , 1995 , 270, 17033-43	5.4	31
9	Effects of mutations in cAMP-dependent protein kinase on chloride efflux in Caco-2 human colonic carcinoma cells. <i>Journal of Cellular Physiology</i> , 1995 , 162, 64-73	7	5
8	The cystic fibrosis mutation (delta F508) does not influence the chloride channel activity of CFTR. <i>Nature Genetics</i> , 1993 , 3, 311-6	36.3	170
7	Purification and functional reconstitution of the cystic fibrosis transmembrane conductance regulator (CFTR). <i>Cell</i> , 1992 , 68, 809-18	56.2	865
6	Expression of the cystic fibrosis gene in non-epithelial invertebrate cells produces a regulated anion conductance. <i>Cell</i> , 1991 , 64, 681-91	56.2	485
5	Cell volume changes and the activity of the chloride conductance path. <i>Annals of the New York Academy of Sciences</i> , 1989 , 574, 294-308	6.5	19
4	Phosphorylation-activated chloride channels in human skin fibroblasts. <i>FEBS Letters</i> , 1988 , 237, 145-9	3.8	44
3	Evidence for a channel for the electrogenic transport of chloride ion in the rat hepatocyte. <i>Hepatology</i> , 1985 , 5, 383-91	11.2	14
2	Techniques for studying biliary secretion: electrolytes in bile. <i>Hepatology</i> , 1984 , 4, 25S-30S	11.2	7

1 High-throughput functional analysis of CFTR and other apically localized channels in iPSC derived intestinal organoids

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