Nathalie Saint

List of Publications by Year
in descending order

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Version: 2024-02-01

54	2,723	147801	182427
papers	citations	31 h-index	51 g-index

55	55	55	2759
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Identification of a Sesquiterpene Lactone from Arctium lappa Leaves with Antioxidant Activity in Primary Human Muscle Cells. Molecules, 2021, 26, 1328.	3.8	6
2	A Bioassay-Guided Fractionation of Rosemary Leaf Extract Identifies Carnosol as a Major Hypertrophy Inducer in Human Skeletal Muscle Cells. Nutrients, 2021, 13, 4190.	4.1	5
3	Importance of the Choice of a Recombinant System to Produce Large Amounts of Functional Membrane Protein hERG. International Journal of Molecular Sciences, 2019, 20, 3181.	4.1	10
4	The abietane diterpene taxodione contributes to the antioxidant activity of rosemary by-product in muscle tissue. Journal of Functional Foods, 2019, 62, 103565.	3.4	4
5	Respiratory muscle contractile inactivity induced by mechanical ventilation in piglets leads to leaky ryanodine receptors and diaphragm weakness. Journal of Muscle Research and Cell Motility, 2017, 38, 17-24.	2.0	10
6	Post-translational remodeling of ryanodine receptor induces calcium leak leading to Alzheimerâ€™s disease-like pathologies and cognitive deficits. Acta Neuropathologica, 2017, 134, 749-767.	7.7	130
7	Leaky ryanodine receptors contribute to diaphragmatic weakness during mechanical ventilation. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9069-9074.	7.1	74
8	Dynamic interplay of membraneâ€proximal <scp>POTRA</scp> domain and conserved loop <scp>L</scp>6 in <scp>O</scp>mp85 transporter <scp>FhaC</scp>. Molecular Microbiology, 2015, 98, 490-501.	2.5	11
9	Palmitoyl-carnitine increases RyR2 oxidation and sarcoplasmic reticulum Ca2+ leak in cardiomyocytes: Role of adenine nucleotide translocase. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2015, 1852, 749-758.	3.8	43
10	Conformational dynamics of protein transporter <scp>FhaC</scp>: largeâ€scale motions of plug helix. Molecular Microbiology, 2014, 92, 1164-1176.	2.5	22
11	Altered Ion Channel Properties of Ryanodine Receptor from Heart Mice Lacking Calstabin2. Biophysical Journal, 2014, 106, 125a.	0.5	0
12	Type 2 ryanodine receptor: A novel therapeutic target in myocardial ischemia/reperfusion. , 2013, 138, 323-332.		37
13	ANT-VDAC1 interaction is direct and depends on ANT isoform conformation in vitro. Biochemical and Biophysical Research Communications, 2012, 429, 12-17.	2.1	27
14	Substrate recognition by the POTRA domains of TpsB transporter FhaC. Molecular Microbiology, 2011, 81, 99-112.	2.5	52
15	Structure of the Mycobacterium tuberculosis OmpATb protein: A model of an oligomeric channel in the mycobacterial cell wall. Proteins: Structure, Function and Bioinformatics, 2011, 79, 645-661.	2.6	24
16	Functional importance of a conserved sequence motif in FhaC, a prototypic member of the TpsB/Omp85 superfamily. FEBS Journal, 2010, 277, 4755-4765.	4.7	37
17	NMR Structure and Ion Channel Activity of the p7 Protein from Hepatitis C Virus. Journal of Biological Chemistry, 2010, 285, 31446-31461.	3.4	119
18	First Structural Characterization of a Bon-Domain in a Protein from Mycobacterium Tuberculosis: OmpATb Tracks toward an Oligomerization Process to form a Cell Wall Pore. Biophysical Journal, 2010, 98, 648a.	0.5	0

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19	First structural insights into the TpsB/Omp85 superfamily. Biological Chemistry, 2009, 390, 675-684.	2.5	63
20	EtpB Is a Pore-Forming Outer Membrane Protein Showing TpsB Protein Features Involved in the Two-Partner Secretion System. Journal of Membrane Biology, 2009, 230, 143-154.	2.1	4
21	Structural and Functional Analysis of the HCV p7 Protein. Methods in Molecular Biology, 2009, 510, 125-143.	0.9	6
22	Influence of the passenger domain of a model autotransporter on the properties of its translocator domain. Molecular Membrane Biology, 2008, 25, 192-202.	2.0	15
23	First evidence of the pore-forming properties of a keratin from skin mucus of rainbow trout (Oncorhynchus mykiss, formerly Salmo gairdneri). Biochemical Journal, 2008, 411, 33-40.	3.7	38
24	The N-Terminal Domain of OmpATb Is Required for Membrane Translocation and Pore-Forming Activity in Mycobacteria. Journal of Bacteriology, 2007, 189, 6351-6358.	2.2	26
25	The Enterobacter aerogenes outer membrane efflux proteins TolC and EefC have different channel properties. Biochimica Et Biophysica Acta - Biomembranes, 2007, 1768, 2559-2567.	2.6	15
26	Structure of the Membrane Protein FhaC: A Member of the Omp85-TpsB Transporter Superfamily. Science, 2007, 317, 957-961.	12.6	226
27	Structure and Mechanism of Action of the Antimicrobial Peptide Piscidin. Biochemistry, 2007, 46, 1771-1778.	2.5	135
28	pH-dependent pore-forming activity of OmpATb from Mycobacterium tuberculosis and characterization of the channel by peptidic dissection. Molecular Microbiology, 2006, 61, 826-837.	2.5	44
29	Channel Properties of TpsB Transporter FhaC Point to Two Functional Domains with a C-terminal Protein-conducting Pore*. Journal of Biological Chemistry, 2006, 281, 158-166.	3.4	56
30	A folding-dependent mechanism of antimicrobial peptide resistance to degradation unveiled by solution structure of distinctin. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 6309-6314.	7.1	68
31	Omp35, a New Enterobacter aerogenes Porin Involved in Selective Susceptibility to Cephalosporins. Antimicrobial Agents and Chemotherapy, 2004, 48, 2153-2158.	3.2	33
32	Crystallization and preliminary crystallographic studies of MOMP (major outer membrane protein) fromCampylobacter jejuni. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 2349-2351.	2.5	6
33	Antibacterial activity and pore-forming properties of ceratotoxins: a mechanism of action based on the barrel stave model. Biochimica Et Biophysica Acta - Biomembranes, 2004, 1667, 148-156.	2.6	31
34	Oncorhyncin III: a potent antimicrobial peptide derived from the non-histone chromosomal protein H6 of rainbow trout, Oncorhynchus mykiss. Biochemical Journal, 2003, 373, 621-628.	3.7	71
35	The antibacterial peptide ceratotoxin A displays alamethicin-like behavior in lipid bilayers. Peptides, 2003, 24, 1779-1784.	2.4	18
36	Sugar Transport through Maltoporin of Escherichia coli : Role of the Greasy Slide. Journal of Bacteriology, 2002, 184, 2994-2999.	2.2	45

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37	Alteration of pore properties of Escherichia coli OmpF induced by mutation of key residues in anti-loop 3 region. Biochemical Journal, 2002, 363, 521.	3.7	53
38	Alteration of pore properties of Escherichia coli OmpF induced by mutation of key residues in anti-loop 3 region. Biochemical Journal, 2002, 363, 521-528.	3.7	77
39	Antibacterial peptide pleurocidin forms ion channels in planar lipid bilayers. Biochimica Et Biophysica Acta - Biomembranes, 2002, 1564, 359-364.	2.6	55
40	A new mechanism of antibiotic resistance in Enterobacteriaceae induced by a structural modification of the major porin. Molecular Microbiology, 2001, 41, 189-198.	2.5	134
41	Ion channel formation by N-terminal domain: a common feature of OprFs ofPseudomonasand OmpA ofEscherichia coli. FEMS Microbiology Letters, 2000, 190, 261-265.	1.8	38
42	Channel Formation by FhaC, the Outer Membrane Protein Involved in the Secretion of the Bordetella pertussis Filamentous Hemagglutinin. Journal of Biological Chemistry, 1999, 274, 37731-37735.	3.4	88
43	Mechanosensitive Ion Channels of the Archaeon Haloferax volcanii. Journal of Biological Chemistry, 1998, 273, 12116-12119.	3.4	68
44	A Hexameric Transmembrane Pore Revealed by Two-dimensional Crystallization of the Large Mechanosensitive Ion Channel (MscL) ofEscherichia coli. Journal of Biological Chemistry, 1998, 273, 14667-14670.	3.4	49
45	Growth temperature dependence of channel size of the major outer-membrane protein (OprF) in psychrotrophic Pseudomonas fluorescens strains. Microbiology (United Kingdom), 1997, 143, 1029-1035.	1.8	31
46	Pore functioning of outer membrane protein PhoE of Escherichia coli: mutagenesis of the constriction loop L3. Protein Engineering, Design and Selection, 1997, 10, 699-706.	2.1	47
47	Voltage sensing in the PhoE and OmpF outer membrane porins of Escherichia coli: role of charged residues. Journal of Molecular Biology, 1997, 269, 468-472.	4.2	79
48	Role of the constriction loop in the gating of outer membrane porin PhoE ofEscherichia coli. FEBS Letters, 1997, 415, 317-320.	2.8	37
49	Replacement of the Sole Histidinyl Residue in OmpF Porin fromE. coliby Threonine (H21T) Does Not Affect Channel Structure and Function. Biochemical and Biophysical Research Communications, 1996, 223, 118-122.	2.1	30
50	Characterization and Ion Channel Activities of Novel Antibacterial Proteins from the Skin Mucosa of Carp (Cyprinus carpio). FEBS Journal, 1996, 240, 143-149.	0.2	97
51	Structural and Functional Characterization of OmpF Porin Mutants Selected for Larger Pore Size. Journal of Biological Chemistry, 1996, 271, 20676-20680.	3.4	151
52	Structural and Functional Characterization of OmpF Porin Mutants Selected for Larger Pore Size. Journal of Biological Chemistry, 1996, 271, 20669-20675.	3.4	92
53	Channel-forming properties and structural homology of major outer membrane proteins fromPseudomonas fluorescensMFO and OE 28.3. FEMS Microbiology Letters, 1995, 127, 267-272.	1.8	20
54	Ionophore properties of OmpA of Escherichia coli. Biochimica Et Biophysica Acta - Biomembranes, 1993, 1145, 119-123.	2.6	66