

# M Joanne Lemieux

## List of Publications by Citations

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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.

80  
papers

2,850  
citations

23  
h-index

52  
g-index

93  
ext. papers

3,425  
ext. citations

6.2  
avg, IF

5.09  
L-index

#	Paper	IF	Citations
80	Structure and mechanism of the glycerol-3-phosphate transporter from Escherichia coli. <i>Science</i> , <b>2003</b> , 301, 616-20	33.3	862
79	Feline coronavirus drug inhibits the main protease of SARS-CoV-2 and blocks virus replication. <i>Nature Communications</i> , <b>2020</b> , 11, 4282	17.4	199
78	Crystallographic structure of human beta-hexosaminidase A: interpretation of Tay-Sachs mutations and loss of GM2 ganglioside hydrolysis. <i>Journal of Molecular Biology</i> , <b>2006</b> , 359, 913-29	6.5	146
77	The crystal structure of the rhomboid peptidase from Haemophilus influenzae provides insight into intramembrane proteolysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 750-4	11.5	135
76	Membrane Protein Structure, Function, and Dynamics: a Perspective from Experiments and Theory. <i>Journal of Membrane Biology</i> , <b>2015</b> , 248, 611-40	2.3	101
75	Three-dimensional crystallization of the Escherichia coli glycerol-3-phosphate transporter: a member of the major facilitator superfamily. <i>Protein Science</i> , <b>2003</b> , 12, 2748-56	6.3	93
74	Proline residues in transmembrane segment IV are critical for activity, expression and targeting of the Na <sup>+</sup> /H <sup>+</sup> exchanger isoform 1. <i>Biochemical Journal</i> , <b>2004</b> , 379, 31-8	3.8	74
73	The structural basis of substrate translocation by the Escherichia coli glycerol-3-phosphate transporter: a member of the major facilitator superfamily. <i>Current Opinion in Structural Biology</i> , <b>2004</b> , 14, 405-12	8.1	72
72	High-yield expression and functional analysis of Escherichia coli glycerol-3-phosphate transporter. <i>Biochemistry</i> , <b>2001</b> , 40, 6628-35	3.2	72
71	Practical aspects of overexpressing bacterial secondary membrane transporters for structural studies. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2003</b> , 1610, 23-36	3.8	66
70	Glycerol-3-phosphate transporter of Escherichia coli: structure, function and regulation. <i>Research in Microbiology</i> , <b>2004</b> , 155, 623-9	4	64
69	Importance of detergent and phospholipid in the crystallization of the human erythrocyte anion-exchanger membrane domain. <i>Journal of Structural Biology</i> , <b>2002</b> , 137, 322-32	3.4	61
68	Comprehensive in vitro characterization of PD-L1 small molecule inhibitors. <i>Scientific Reports</i> , <b>2019</b> , 9, 12392	4.9	57
67	Allosteric regulation of rhomboid intramembrane proteolysis. <i>EMBO Journal</i> , <b>2014</b> , 33, 1869-81	13	57
66	Properties and Biotechnological Applications of Acyl-CoA:diacylglycerol Acyltransferase and Phospholipid:diacylglycerol Acyltransferase from Terrestrial Plants and Microalgae. <i>Lipids</i> , <b>2018</b> , 53, 663-688	1.6	47
65	Eukaryotic major facilitator superfamily transporter modeling based on the prokaryotic GlpT crystal structure. <i>Molecular Membrane Biology</i> , <b>2007</b> , 24, 333-41	3.4	41
64	Insights into substrate gating in H. influenzae rhomboid. <i>Journal of Molecular Biology</i> , <b>2011</b> , 407, 687-97	6.5	32

63	Domain swapping in the cytoplasmic domain of the Escherichia coli rhomboid protease. <i>Journal of Molecular Biology</i> , <b>2013</b> , 425, 1127-42	6.5	30
62	Biochemical characterization and structure-function relationship of two plant NCS2 proteins, the nucleobase transporters NAT3 and NAT12 from Arabidopsis thaliana. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2014</b> , 1838, 3025-35	3.8	28
61	Diacylglycerol Acyltransferase 1 Is Regulated by Its N-Terminal Domain in Response to Allosteric Effectors. <i>Plant Physiology</i> , <b>2017</b> , 175, 667-680	6.6	27
60	Understanding Conformational Dynamics of Complex Lipid Mixtures Relevant to Biology. <i>Journal of Membrane Biology</i> , <b>2018</b> , 251, 609-631	2.3	26
59	Untangling structure-function relationships in the rhomboid family of intramembrane proteases. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2013</b> , 1828, 2862-72	3.8	25
58	Reactions at Biomembrane Interfaces. <i>Chemical Reviews</i> , <b>2019</b> , 119, 6162-6183	68.1	23
57	Oligomeric state study of prokaryotic rhomboid proteases. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2012</b> , 1818, 3090-7	3.8	23
56	The structure of lactoferrin-binding protein B from Neisseria meningitidis suggests roles in iron acquisition and neutralization of host defences. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , <b>2014</b> , 70, 1312-7	1.1	22
55	Crystal structure and mechanism of GlpT, the glycerol-3-phosphate transporter from E. coli. <i>Microscopy (Oxford, England)</i> , <b>2005</b> , 54 Suppl 1, i43-6	1.3	22
54	Rapid expression screening of eukaryotic membrane proteins in Pichia pastoris. <i>Protein Science</i> , <b>2013</b> , 22, 425-33	6.3	21
53	The Phospholamban Pentamer Alters Function of the Sarcoplasmic Reticulum Calcium Pump SERCA. <i>Biophysical Journal</i> , <b>2019</b> , 116, 633-647	2.9	20
52	Structure-function relationship of a plant NCS1 member--homology modeling and mutagenesis identified residues critical for substrate specificity of PLUTO, a nucleobase transporter from Arabidopsis. <i>PLoS ONE</i> , <b>2014</b> , 9, e91343	3.7	19
51	Peptidomimetic EAcyloxymethylketone Warheads with Six-Membered Lactam P1 Glutamine Mimic: SARS-CoV-2 3CL Protease Inhibition, Coronavirus Antiviral Activity, and Biological Stability. <i>Journal of Medicinal Chemistry</i> , <b>2021</b> ,	8.3	18
50	Diacylglycerol acyltransferase 1 is activated by phosphatidate and inhibited by SnRK1-catalyzed phosphorylation. <i>Plant Journal</i> , <b>2018</b> , 96, 287-299	6.9	17
49	Multiple mechanisms contribute to increased neutral lipid accumulation in yeast producing recombinant variants of plant diacylglycerol acyltransferase 1. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 17819-17831	5.4	17
48	Improved SARS-CoV-2 M inhibitors based on feline antiviral drug GC376: Structural enhancements, increased solubility, and micellar studies. <i>European Journal of Medicinal Chemistry</i> , <b>2021</b> , 222, 113584	6.8	17
47	Quantitative Multiplex Substrate Profiling of Peptidases by Mass Spectrometry. <i>Molecular and Cellular Proteomics</i> , <b>2019</b> , 18, 968-981	7.6	16
46	Purification and properties of recombinant Brassica napus diacylglycerol acyltransferase 1. <i>FEBS Letters</i> , <b>2015</b> , 589, 773-8	3.8	16

45	Targeting B7-1 in immunotherapy. <i>Medicinal Research Reviews</i> , <b>2020</b> , 40, 654-682	14.4	16
44	Conformational memory in the association of the transmembrane protein phospholamban with the sarcoplasmic reticulum calcium pump SERCA. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 21330-21339	5.4	15
43	Crystal structure of the N-lobe of lactoferrin binding protein B from <i>Moraxella bovis</i> . <i>Biochemistry and Cell Biology</i> , <b>2012</b> , 90, 351-61	3.6	13
42	Fluorescent Hexose Conjugates Establish Stringent Stereochemical Requirement by GLUT5 for Recognition and Transport of Monosaccharides. <i>ACS Chemical Biology</i> , <b>2017</b> , 12, 1087-1094	4.9	12
41	Feline coronavirus drug inhibits the main protease of SARS-CoV-2 and blocks virus replication		12
40	N-Terminal Finger Stabilizes the S1 Pocket for the Reversible Feline Drug GC376 in the SARS-CoV-2 M Dimer. <i>Journal of Molecular Biology</i> , <b>2021</b> , 433, 167003	6.5	12
39	Critical Roles of Two Hydrophobic Residues within Human Glucose Transporter 9 (hSLC2A9) in Substrate Selectivity and Urate Transport. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 15292-303	5.4	11
38	Regulation of 2T3Tcyclic nucleotide phosphodiesterase gene expression in experimental peripheral neuropathies. <i>Molecular Brain Research</i> , <b>1992</b> , 15, 40-6		11
37	PARL Protease: A Glimpse at Intramembrane Proteolysis in the Inner Mitochondrial Membrane. <i>Journal of Molecular Biology</i> , <b>2020</b> , 432, 5052-5062	6.5	10
36	Genetic variation in human carboxylesterase CES1 confers resistance to hepatic steatosis. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2018</b> , 1863, 688-699	5	10
35	Vitamin D is an endogenous partial agonist of the transient receptor potential vanilloid 1 channel. <i>Journal of Physiology</i> , <b>2020</b> , 598, 4321-4338	3.9	10
34	Dwarf open reading frame (DWORF) is a direct activator of the sarcoplasmic reticulum calcium pump SERCA. <i>ELife</i> , <b>2021</b> , 10,	8.9	10
33	High yield expression and purification of equilibrative nucleoside transporter 7 (ENT7) from <i>Arabidopsis thaliana</i> . <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2015</b> , 1850, 1921-9	4	8
32	An internally quenched peptide as a new model substrate for rhomboid intramembrane proteases. <i>Biological Chemistry</i> , <b>2018</b> , 399, 1389-1397	4.5	8
31	The crystal structure of Rv0793, a hypothetical monooxygenase from <i>M. tuberculosis</i> . <i>Journal of Structural and Functional Genomics</i> , <b>2005</b> , 6, 245-57		8
30	Post-translational modifications of apolipoprotein A-I and Po proteins in the avian peripheral nerve. <i>Neurochemical Research</i> , <b>1995</b> , 20, 269-78	4.6	8
29	Interaction of a Sarcolipin Pentamer and Monomer with the Sarcoplasmic Reticulum Calcium Pump, SERCA. <i>Biophysical Journal</i> , <b>2020</b> , 118, 518-531	2.9	8
28	Deciphering the activation and recognition mechanisms of <i>Staphylococcus aureus</i> response regulator ArlR. <i>Nucleic Acids Research</i> , <b>2019</b> , 47, 11418-11429	20.1	7

27	Identification of Key Residues for Urate Specific Transport in Human Glucose Transporter 9 (hSLC2A9). <i>Scientific Reports</i> , <b>2017</b> , 7, 41167	4.9	7
26	Reversible Unfolding of Rhomboid Intramembrane Proteases. <i>Biophysical Journal</i> , <b>2016</b> , 110, 1379-90	2.9	7
25	Purification and characterization of transporter proteins from human erythrocyte membrane. <i>Methods in Molecular Biology</i> , <b>2003</b> , 228, 239-55	1.4	6
24	A genetically encoded fluorescent biosensor for extracellular L-lactate. <i>Nature Communications</i> , <b>2021</b> , 12, 7058	17.4	6
23	Insights into the catalytic properties of the mitochondrial rhomboid protease PARL. <i>Journal of Biological Chemistry</i> , <b>2021</b> , 296, 100383	5.4	6
22	Nothing Regular about the Regulins: Distinct Functional Properties of SERCA Transmembrane Peptide Regulatory Subunits. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	6
21	Peptidomimetic nitrile warheads as SARS-CoV-2 3CL protease inhibitors. <i>RSC Medicinal Chemistry</i> , <b>2021</b> , 12, 1722-1730	3.5	5
20	Structural comparison of substrate entry gate for rhomboid intramembrane peptidases. <i>Biochemistry and Cell Biology</i> , <b>2011</b> , 89, 216-23	3.6	4
19	A perspective on the structural studies of inner membrane electrochemical potential-driven transporters. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2008</b> , 1778, 1805-13	3.8	4
18	Probing catalytic rate enhancement during intramembrane proteolysis. <i>Biological Chemistry</i> , <b>2016</b> , 397, 907-19	4.5	4
17	Trimeric structure of the mouse Kupffer cell C-type lectin receptor Clec4f. <i>FEBS Letters</i> , <b>2020</b> , 594, 189-198	3.8	4
16	Intrinsic disorder in the regulatory N-terminal domain of diacylglycerol acyltransferase 1 from <i>Brassica napus</i> . <i>Scientific Reports</i> , <b>2018</b> , 8, 16665	4.9	4
15	SARS-COV-2 recombinant Receptor-Binding-Domain (RBD) induces neutralizing antibodies against variant strains of SARS-CoV-2 and SARS-CoV-1. <i>Vaccine</i> , <b>2021</b> , 39, 5769-5779	4.1	4
14	The calcium sensitizer drug MCI-154 binds the structural C-terminal domain of cardiac troponin C. <i>Biochemistry and Biophysics Reports</i> , <b>2018</b> , 16, 145-151	2.2	3
13	Crystallization of Feline Coronavirus M With GC376 Reveals Mechanism of Inhibition.. <i>Frontiers in Chemistry</i> , <b>2022</b> , 10, 852210	5	3
12	Expression and Purification of Haemophilus influenzae Rhomboid Intramembrane Protease GlpG for Structural Studies. <i>Current Protocols in Protein Science</i> , <b>2014</b> , 76, 29.9.1-29.9.25	3.1	2
11	Biosynthesis and compartmentalization of Po, apolipoprotein A-I, and lipids in the myelinating chick sciatic nerve. <i>Neurochemical Research</i> , <b>1995</b> , 20, 1239-48	4.6	2
10	Photocleavable proteins that undergo fast and efficient dissociation. <i>Chemical Science</i> , <b>2021</b> , 12, 9658-9672	6.7	2

9	Activity Assays for Rhomboid Proteases. <i>Methods in Enzymology</i> , <b>2017</b> , 584, 395-437	1.7	1
8	Accelerated discovery of novel glycoside hydrolases using targeted functional profiling and selective pressure on the rumen microbiome. <i>Microbiome</i> , <b>2021</b> , 9, 229	16.6	1
7	A sensitive and specific genetically encodable biosensor for potassium ions		1
6	Dwarf open reading frame (DWORF) peptide is a direct activator of the sarcoplasmic reticulum calcium pump SERCA		1
5	N-Terminal finger stabilizes the reversible feline drug GC376 in SARS-CoV-2 Mpro		1
4	Expression and Purification of Human Mitochondrial Intramembrane Protease PARL. <i>Methods in Molecular Biology</i> , <b>2021</b> , 2302, 1-20	1.4	0
3	Functional Implications of Domain Organization Within Prokaryotic Rhomboid Proteases. <i>Advances in Experimental Medicine and Biology</i> , <b>2015</b> , 883, 107-17	3.6	
2	Production of Recombinant Rhomboid Proteases. <i>Methods in Enzymology</i> , <b>2017</b> , 584, 255-278	1.7	
1	Taking a position on intramembrane proteolysis. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 4664-4665	5.4	