

Luc G Berthiaume

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

3,162
citations

159585

30
h-index

206112

48
g-index

49
all docs

49
docs citations

49
times ranked

5204
citing authors

#	ARTICLE	IF	CITATIONS
1	Seeing is believing. <i>Nature Chemical Biology</i> , 2014, 10, 5-7.	8.0	268
2	Functional Roles for Fatty Acylated Amino-terminal Domains in Subcellular Localization. <i>Molecular Biology of the Cell</i> , 1999, 10, 3771-3786.	2.1	188
3	Post-translational myristoylation: Fat matters in cellular life and death. <i>Biochimie</i> , 2011, 93, 18-31.	2.6	183
4	Palmitoylated TMX and calnexin target to the mitochondria-associated membrane. <i>EMBO Journal</i> , 2012, 31, 457-470.	7.8	179
5	Biochemical Characterization of a Palmitoyl Acyltransferase Activity That Palmitoylates Myristoylated Proteins. <i>Journal of Biological Chemistry</i> , 1995, 270, 22399-22405.	3.4	141
6	Identification of palmitoylated mitochondrial proteins using a bio-orthogonal azido-palmitate analogue. <i>FASEB Journal</i> , 2008, 22, 721-732.	0.5	136
7	Regulation of matrix metalloproteinase-2 (MMP-2) activity by phosphorylation. <i>FASEB Journal</i> , 2007, 21, 2486-2495.	0.5	132
8	Lipid phosphate phosphohydrolase-1 degrades exogenous glycerolipid and sphingolipid phosphate esters. <i>Biochemical Journal</i> , 1999, 340, 677-686.	3.7	127
9	Palmitoylation is the Switch that Assigns Calnexin to Quality Control or ER Calcium Signaling. <i>Journal of Cell Science</i> , 2013, 126, 3893-903.	2.0	125
10	N-Terminal Protein Acylation Confers Localization to Cholesterol, Sphingolipid-enriched Membranes But Not to Lipid Rafts/Caveolae. <i>Molecular Biology of the Cell</i> , 2001, 12, 3601-3617.	2.1	112
11	Rapid detection, discovery, and identification of post-translationally myristoylated proteins during apoptosis using a bio-orthogonal azidomyristate analog. <i>FASEB Journal</i> , 2008, 22, 797-806.	0.5	103
12	Identification of structurally important domains of lipid phosphate phosphatase-1: implications for its sites of action. <i>Biochemical Journal</i> , 2000, 345, 181-184.	3.7	101
13	Rapid and selective detection of fatty acylated proteins using α -alkynyl-fatty acids and click chemistry. <i>Journal of Lipid Research</i> , 2010, 51, 1566-1580.	4.2	101
14	The Myxoma Poxvirus Protein, M11L, Prevents Apoptosis by Direct Interaction with the Mitochondrial Permeability Transition Pore. <i>Journal of Experimental Medicine</i> , 2002, 196, 1127-1140.	8.5	97
15	Posttranslational myristoylation of caspase-activated p21-activated protein kinase 2 (PAK2) potentiates late apoptotic events. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 6542-6547.	7.1	92
16	N-Myristoyltransferase 1 Is Essential in Early Mouse Development. <i>Journal of Biological Chemistry</i> , 2005, 280, 18990-18995.	3.4	83
17	The human Dcn1-like protein DCNL3 promotes Cul3 neddylation at membranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 12365-12370.	7.1	71
18	Palmitoylation of ATP-Binding Cassette Transporter A1 Is Essential for Its Trafficking and Function. <i>Circulation Research</i> , 2009, 105, 138-147.	4.5	70

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19	Palmitoylation of ketogenic enzyme HMGCS2 enhances its interaction with PPAR α and transcription at the Hmgcs2 PPRE. <i>FASEB Journal</i> , 2010, 24, 1914-1924.	0.5	61
20	Characterization of rat liver malonyl-CoA decarboxylase and the study of its role in regulating fatty acid metabolism. <i>Biochemical Journal</i> , 2000, 350, 599-608.	3.7	59
21	Tumor Necrosis Factor- α Induces Stress Fiber Formation through Ceramide Production: Role of Sphingosine Kinase. <i>Molecular Biology of the Cell</i> , 2001, 12, 3618-3630.	2.1	57
22	Identification of a post-translationally myristoylated autophagy-inducing domain released by caspase cleavage of Huntingtin. <i>Human Molecular Genetics</i> , 2014, 23, 3166-3179.	2.9	56
23	Regulation of Mitochondrial Carbamoyl-phosphate Synthetase 1 Activity by Active Site Fatty Acylation. <i>Journal of Biological Chemistry</i> , 2001, 276, 45704-45712.	3.4	54
24	[34] Synthesis and use of iodo-fatty acid analogs. <i>Methods in Enzymology</i> , 1995, 250, 454-466.	1.0	45
25	Lipid phosphate phosphohydrolase-1 degrades exogenous glycerolipid and sphingolipid phosphate esters. <i>Biochemical Journal</i> , 1999, 340, 677.	3.7	44
26	Lipid Phosphate Phosphatase-1 and Ca ²⁺ Control Lysophosphatidate Signaling through EDG-2 Receptors. <i>Journal of Biological Chemistry</i> , 2000, 275, 27520-27530.	3.4	44
27	Properties of the Na ⁺ /H ⁺ -exchanger protein. <i>FEBS Journal</i> , 2002, 269, 4887-4895.	0.2	44
28	Palmitoylation of Apolipoprotein B Is Required for Proper Intracellular Sorting and Transport of Cholesterol Esters and Triglycerides. <i>Molecular Biology of the Cell</i> , 2000, 11, 721-734.	2.1	36
29	Cationic polymer-mediated small interfering RNA delivery for α -glycoprotein down-regulation in tumor cells. <i>Cancer</i> , 2010, 116, 5544-5554.	4.1	35
30	Targeting N-myristoylation for therapy of B-cell lymphomas. <i>Nature Communications</i> , 2020, 11, 5348.	12.8	35
31	Identification of structurally important domains of lipid phosphate phosphatase-1: implications for its sites of action. <i>Biochemical Journal</i> , 2000, 345, 181.	3.7	34
32	Regulation of co ²⁺ and post ²⁺ translational myristoylation of proteins during apoptosis: interplay of α -myristoyltransferases and caspases. <i>FASEB Journal</i> , 2013, 27, 811-821.	0.5	30
33	Characterization of palmitoylation of ATP binding cassette transporter G1: Effect on protein trafficking and function. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2013, 1831, 1067-1078.	2.4	29
34	Tandem reporter assay for myristoylated proteins post ²⁺ translationally (TRAMPP) identifies novel substrates for post ²⁺ translational myristoylation: PKC δ , a case study. <i>FASEB Journal</i> , 2012, 26, 13-28.	0.5	24
35	Insider Information: How Palmitoylation of Ras Makes It a Signaling Double Agent. <i>Science Signaling</i> , 2002, 2002, pe41-pe41.	3.6	23
36	Direct expression of mature bovine adrenodoxin in Escherichia coli. <i>Archives of Biochemistry and Biophysics</i> , 1992, 295, 126-131.	3.0	18

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37	Characterization of the interaction of diacylglycerol acyltransferase-2 with the endoplasmic reticulum and lipid droplets. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2014, 1841, 1318-1328.	2.4	18
38	Characterization of rat liver malonyl-CoA decarboxylase and the study of its role in regulating fatty acid metabolism. <i>Biochemical Journal</i> , 2000, 350, 599.	3.7	16
39	Chapter 9 Non-radioactive Detection of Palmitoylated Mitochondrial Proteins Using an Azido-Palmitate Analogue. <i>Methods in Enzymology</i> , 2009, 457, 149-165.	1.0	14
40	Regulation of TRPP3 Channel Function by N-terminal Domain Palmitoylation and Phosphorylation. <i>Journal of Biological Chemistry</i> , 2016, 291, 25678-25691.	3.4	14
41	A role for palmitoylation in the quality control, assembly and secretion of apolipoprotein B. <i>Biochemical Journal</i> , 2004, 377, 121-130.	3.7	13
42	N-myristoyltransferase 1 interacts with calnexin at the endoplasmic reticulum. <i>Biochemical and Biophysical Research Communications</i> , 2015, 468, 889-893.	2.1	13
43	Lipid Phosphate Phosphatase ¹ in the Regulation of Lysophosphatidate Signaling. <i>Annals of the New York Academy of Sciences</i> , 2000, 905, 81-90.	3.8	12
44	N-myristoyltransferase proteins in breast cancer: prognostic relevance and validation as a new drug target. <i>Breast Cancer Research and Treatment</i> , 2021, 186, 79-87.	2.5	10
45	Novel, First-in-Human, Oral PCLX-001 Treatment in a Patient with Relapsed Diffuse Large B-Cell Lymphoma. <i>Current Oncology</i> , 2022, 29, 1939-1946.	2.2	7
46	Initial Characterization and Toxicology of an Nmt Inhibitor in Development for Hematologic Malignancies. <i>Blood</i> , 2019, 134, 3362-3362.	1.4	4
47	Membrane topology of human monoacylglycerol acyltransferase-2 and identification of regions important for its localization to the endoplasmic reticulum. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2016, 1861, 1192-1204.	2.4	3
48	An Open-Label, First-in-Human, Phase I Trial of Daily Pclx-001. <i>Blood</i> , 2021, 138, 1364-1364.	1.4	1
49	Nonclinical Efficacy and Toxicity and Selection of a Safe Clinical Starting Dose for an NMT Inhibitor in Development for Hematological Malignancies. <i>Blood</i> , 2020, 136, 40-41.	1.4	0