

# Gilles Lajoie

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

3,191  
citations

257450

24  
h-index

233421

45  
g-index

51  
all docs

51  
docs citations

51  
times ranked

4695  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | NBPMF. Advances in Computational Intelligence and Robotics Book Series, 2020, , 228-258.   | 0.4  | 0         |
| 2  | Characterization of photosynthetic ferredoxin from the Antarctic alga <i>Chlamydomonas</i> sp. <scp>UWO</scp>241 reveals novel features of cold adaptation. New Phytologist, 2018, 219, 588-604.   | 7.3  | 25        |
| 3  | An Approach for Peptide Identification by De Novo Sequencing of Mixture Spectra. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2017, 14, 326-336.   | 3.0  | 4         |
| 4  | NBPMF. International Journal of Cognitive Informatics and Natural Intelligence, 2017, 11, 41-65.   | 0.4  | 1         |
| 5  | De Novo Sequencing Assisted Approach for Characterizing Mixture MS/MS Spectra. IEEE Transactions on Nanobioscience, 2016, 15, 166-176.   | 3.3  | 2         |
| 6  | The Antarctic Psychrophile <i>Chlamydomonas</i> sp. UWO 241 Preferentially Phosphorylates a Photosystem I-Cytochrome b6/f Supercomplex. Plant Physiology, 2015, 169, 717-736.  | 4.8  | 37        |
| 7  | An Approach for Matching Mixture MS/MS Spectra with a Pair of Peptide Sequences in a Protein Database. Lecture Notes in Computer Science, 2015, , 223-234.   | 1.3  | 0         |
| 8  | A Method for Systematic Mapping of Protein Lysine Methylation Identifies Functions for HP1 <sup>2</sup> in DNA Damage Response. Molecular Cell, 2013, 50, 723-735.   | 9.7  | 98        |
| 9  | Mechanism of inhibition of calcium oxalate crystal growth by an osteopontin phosphopeptide. Soft Matter, 2012, 8, 1226-1233.   | 2.7  | 31        |
| 10 | Matrix Gla Protein Inhibits Ectopic Calcification by a Direct Interaction with Hydroxyapatite Crystals. Journal of the American Chemical Society, 2011, 133, 18406-18412.  | 13.7 | 93        |
| 11 | Cooperation of phosphates and carboxylates controls calcium oxalate crystallization in ultrafiltered urine. Urological Research, 2011, 39, 327-338.  | 1.5  | 21        |
| 12 | Roles of Electrostatics and Conformation in Protein-Crystal Interactions. PLoS ONE, 2010, 5, e9330.  | 2.5  | 74        |
| 13 | Systematic Identification of Methyllysine-Driven Interactions for Histone and Nonhistone Targets. Journal of Proteome Research, 2010, 9, 5827-5836.  | 3.7  | 37        |
| 14 | The <i>Drosophila</i> DHR96 nuclear receptor binds cholesterol and regulates cholesterol homeostasis. Genes and Development, 2009, 23, 2711-2716.  | 5.9  | 94        |
| 15 | The Structural Basis of Gas-Responsive Transcription by the Human Nuclear Hormone Receptor REV-ERB <sup>2</sup> . PLoS Biology, 2009, 7, e1000043.   | 5.6  | 115       |
| 16 | Crystal and molecular structure of two geometrically restricted chemotactic tripeptides, analogues of formyl-methionine-leucine-phenylalanine*. International Journal of Peptide and Protein Research, 2009, 36, 489-498.                                | 0.1  | 15        |
| 17 | Chemical Modification of the Carboxyl Terminal of Nisin A with Biotin does not Abolish Antimicrobial Activity Against the Indicator Organism, <i>Kocuria rhizophila</i> . International Journal of Peptide Research and Therapeutics, 2009, 15, 219-226. | 1.9  | 9         |
| 18 | De Novo Interpretation of Tandem Mass Spectra. Current Protocols in Bioinformatics, 2009, 25, Unit 13.10.  | 25.8 | 7         |

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|----|--|------|-----------|
| 19 | Protein kinase CK2 catalyzes tyrosine phosphorylation in mammalian cells. <i>Cellular Signalling</i> , 2008, 20, 1942-1951.  | 3.6  | 53        |
| 20 | COMPLEXITIES AND ALGORITHMS FOR GLYCAN SEQUENCING USING TANDEM MASS SPECTROMETRY. <i>Journal of Bioinformatics and Computational Biology</i> , 2008, 06, 77-91.  | 0.8  | 23        |
| 21 | The role of the diphthamide-containing loop within eukaryotic elongation factor 2 in ADP-ribosylation by <i>Pseudomonas aeruginosa</i> exotoxin A. <i>Biochemical Journal</i> , 2008, 413, 163-174.                            | 3.7  | 21        |
| 22 | MSDASH: MASS SPECTROMETRY DATABASE AND SEARCH. , 2008, , .   |      | 4         |
| 23 | Control of Calcium Oxalate Crystal Growth by Face-Specific Adsorption of an Osteopontin Phosphopeptide. <i>Journal of the American Chemical Society</i> , 2007, 129, 14946-14951.  | 13.7 | 124       |
| 24 | Hydrogen/Deuterium Scrambling during Quadrupole Time-of-Flight MS/MS Analysis of a Zinc-Binding Protein Domain. <i>Analytical Chemistry</i> , 2007, 79, 153-160.   | 6.5  | 79        |
| 25 | COMPLEXITIES AND ALGORITHMS FOR GLYCAN STRUCTURE SEQUENCING USING TANDEM MASS SPECTROMETRY. , 2007, , .  |      | 2         |
| 26 | Comprehensive Identification of Post-translational Modifications of Rat Bone Osteopontin by Mass Spectrometry. <i>Biochemistry</i> , 2005, 44, 6990-7003.  | 2.5  | 73        |
| 27 | The Drosophila Nuclear Receptor E75 Contains Heme and Is Gas Responsive. <i>Cell</i> , 2005, 122, 195-207.   | 28.9 | 235       |
| 28 | Two methods for large-scale purification of recombinant human choline acetyltransferase. <i>Protein Expression and Purification</i> , 2005, 40, 107-117.   | 1.3  | 8         |
| 29 | Protein Kinase C Isoforms Differentially Phosphorylate Human Choline Acetyltransferase Regulating Its Catalytic Activity. <i>Journal of Biological Chemistry</i> , 2004, 279, 52059-52068.                                     | 3.4  | 23        |
| 30 | Investigation of cationic peanut peroxidase glycans by electrospray ionization mass spectrometry. <i>Phytochemistry</i> , 2004, 65, 1575-1588.   | 2.9  | 25        |
| 31 | Inhibition of hydroxyapatite formation by osteopontin phosphopeptides. <i>Biochemical Journal</i> , 2004, 378, 1083-1087.  | 3.7  | 130       |
| 32 | Solution NMR Structure and X-ray Absorption Analysis of the C-Terminal Zinc-Binding Domain of the SecA ATPase. <i>Biochemistry</i> , 2004, 43, 9361-9371.  | 2.5  | 30        |
| 33 | Title is missing!. <i>Molecular and Cellular Biochemistry</i> , 2003, 251, 145-151.  | 3.1  | 5         |
| 34 | Phosphorylation of 69-kDa Choline Acetyltransferase at Threonine 456 in Response to Amyloid- $\beta$ Peptide 1-42. <i>Journal of Biological Chemistry</i> , 2003, 278, 5883-5893.  | 3.4  | 31        |
| 35 | PEAKS: powerful software for peptide <i>de novo</i> sequencing by tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2003, 17, 2337-2342.  | 1.5  | 1,156     |
| 36 | Evaluation of the metal binding properties of the histidine-rich antimicrobial peptides histatin 3 and 5 by electrospray ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2000, 14, 1736-1745. | 1.5  | 51        |

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|----|---|------|-----------|
| 37 | Chitinase Genes Responsive to Cold Encode Antifreeze Proteins in Winter Cereals. <i>Plant Physiology</i> , 2000, 124, 1251-1264.  | 4.8  | 166       |
| 38 | NMR studies of the antimicrobial salivary peptides histatin 3 and histatin 5 in aqueous and nonaqueous solutions. <i>Biochemistry and Cell Biology</i> , 1998, 76, 247-256.   | 2.0  | 47        |
| 39 | Characterisation of low molecular weight polymers using matrix assisted laser desorption time-of-flight mass spectrometry. <i>European Polymer Journal</i> , 1996, 32, 239-256.   | 5.4  | 43        |
| 40 | A mass spectrometric investigation of the water-soluble oligomers remaining after the emulsion polymerization of methyl methacrylate. <i>Journal of Polymer Science Part A</i> , 1995, 33, 2297-2304.   | 2.3  | 16        |
| 41 | Surfactant analysis by matrix-assisted laser desorption time-of-flight mass spectrometry. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 1995, 72, 11-15.  | 1.9  | 13        |
| 42 | A Procedure for the Large Scale Preparation of N <sup>ε</sup> -Alloc-lysine and N <sup>ε</sup> -Alloc-N <sup>ε</sup> -Fmoc-lysine. <i>Synthetic Communications</i> , 1993, 23, 49-53.   | 2.1  | 10        |
| 43 | Inhibition of human leukocyte elastase (HLE) by disulfide-cyclized analogs of $\alpha_1$ -antitrypsin ( $\alpha_1$ AT)., 1992, , 859-860.   |      | 0         |
| 44 | A Simple and Convenient Synthesis of $\alpha$ -tert-Butyl Esters of Fmoc-Aspartic and Fmoc-Glutamic Acids. <i>Synthesis</i> , 1990, 1990, 571-572.  | 2.3  | 11        |
| 45 | Some remarkable effects of thiopeptide and derived linkages on lysozyme release from neutrophils by esters of the chemotactic peptide N-formyl-methionyl-leucyl-phenylalanine (f-Met-Leu-Phe-OR). <i>International Journal of Immunopharmacology</i> , 1989, 11, 467-471.                       | 1.1  | 12        |
| 46 | Étude structurale de la liaison thioamide: Synthèse et conformation de dérivés de la thioalanine et de la thioglycine. <i>Canadian Journal of Chemistry</i> , 1989, 67, 1312-1318.  | 1.1  | 20        |
| 47 | Productive conformation in the bound state and hydrolytic behavior of thiopeptide analogs of angiotensin-converting enzyme substrates. <i>Journal of the American Chemical Society</i> , 1986, 108, 182-183.  | 13.7 | 35        |
| 48 | Backbone-modified oligopeptidic bioregulators. The synthesis and configuration of thioamide, amidoxime, cyanoamidine, and amidrazone analogs of the chemotactic peptide N-formyl-methionyl-leucyl-phenylalanine (f-Met-Leu-Phe-OR). <i>Canadian Journal of Chemistry</i> , 1985, 63, 3089-3101. | 1.1  | 38        |
| 49 | Synthesis and biological activity of monothionated analogs of leucine-enkephalin. <i>International Journal of Peptide and Protein Research</i> , 1984, 24, 316-327.   | 0.1  | 36        |
| 50 | Chemical Genetic Validation of CSNK2 Substrates Using an Inhibitor-Resistant Mutant in Combination with Triple SILAC Quantitative Phosphoproteomics. <i>Frontiers in Molecular Biosciences</i> , 0, 9, .  | 3.5  | 5         |