

Isabelle S Lucet

List of Publications by Year in descending order

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58
papers

5,070
citations

172457

29
h-index

144013

57
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64
all docs

64
docs citations

64
times ranked

7382
citing authors

#	ARTICLE	IF	CITATIONS
1	The Pseudokinase MLKL Mediates Necroptosis via a Molecular Switch Mechanism. <i>Immunity</i> , 2013, 39, 443-453.	14.3	958
2	Activation of the pseudokinase MLKL unleashes the four-helix bundle domain to induce membrane localization and necroptotic cell death. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 15072-15077.	7.1	484
3	The molecular regulation of Janus kinase (JAK) activation. <i>Biochemical Journal</i> , 2014, 462, 1-13.	3.7	251
4	Open Source Drug Discovery with the Malaria Box Compound Collection for Neglected Diseases and Beyond. <i>PLoS Pathogens</i> , 2016, 12, e1005763.	4.7	244
5	The structural basis of Janus kinase 2 inhibition by a potent and specific pan-Janus kinase inhibitor. <i>Blood</i> , 2006, 107, 176-183.	1.4	243
6	A robust methodology to subclassify pseudokinases based on their nucleotide-binding properties. <i>Biochemical Journal</i> , 2014, 457, 323-334.	3.7	241
7	Suppression of Cytokine Signaling by SOCS3: Characterization of the Mode of Inhibition and the Basis of Its Specificity. <i>Immunity</i> , 2012, 36, 239-250.	14.3	240
8	SOCS3 binds specific receptor-JAK complexes to control cytokine signaling by direct kinase inhibition. <i>Nature Structural and Molecular Biology</i> , 2013, 20, 469-476.	8.2	229
9	Dissecting Specificity in the Janus Kinases: The Structures of JAK-Specific Inhibitors Complexed to the JAK1 and JAK2 Protein Tyrosine Kinase Domains. <i>Journal of Molecular Biology</i> , 2009, 387, 219-232.	4.2	225
10	Differential Recognition of CD1d- α -Galactosyl Ceramide by the V α 28.2 and V α 27 Semi-invariant NKT T Cell Receptors. <i>Immunity</i> , 2009, 31, 47-59.	14.3	198
11	Conformational switching of the pseudokinase domain promotes human MLKL tetramerization and cell death by necroptosis. <i>Nature Communications</i> , 2018, 9, 2422.	12.8	154
12	Cytological and biochemical characterization of the FtsA cell division protein of <i>Bacillus subtilis</i> . <i>Molecular Microbiology</i> , 2001, 40, 115-125.	2.5	128
13	Molecular Mechanism of CCAAT-Enhancer Binding Protein Recruitment by the TRIB1 Pseudokinase. <i>Structure</i> , 2015, 23, 2111-2121.	3.3	93
14	Insights into the evolution of divergent nucleotide-binding mechanisms among pseudokinases revealed by crystal structures of human and mouse MLKL. <i>Biochemical Journal</i> , 2014, 457, 369-377.	3.7	92
15	Eph receptor signalling: from catalytic to non-catalytic functions. <i>Oncogene</i> , 2019, 38, 6567-6584.	5.9	88
16	<i>Plasmodium</i> kinases as targets for new-generation antimalarials. <i>Future Medicinal Chemistry</i> , 2012, 4, 2295-2310.	2.3	85
17	Genome-wide binding and mechanistic analyses of Smchd1-mediated epigenetic regulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E3535-44.	7.1	83
18	Viral MLKL Homologs Subvert Necroptotic Cell Death by Sequestering Cellular RIPK3. <i>Cell Reports</i> , 2019, 28, 3309-3319.e5.	6.4	83

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19	The 2.7Å Crystal Structure of the Autoinhibited Human c-Fms Kinase Domain. <i>Journal of Molecular Biology</i> , 2007, 367, 839-847.	4.2	63
20	Regulation of Janus kinases by SOCS proteins. <i>Biochemical Society Transactions</i> , 2013, 41, 1042-1047.	3.4	62
21	Crystal Structures of the Lyn Protein Tyrosine Kinase Domain in Its Apo- and Inhibitor-bound State. <i>Journal of Biological Chemistry</i> , 2009, 284, 284-291.	3.4	60
22	Biochemical and Structural Insights into Doublecortin-like Kinase Domain 1. <i>Structure</i> , 2016, 24, 1550-1561.	3.3	56
23	Distinct pseudokinase domain conformations underlie divergent activation mechanisms among vertebrate MLKL orthologues. <i>Nature Communications</i> , 2020, 11, 3060.	12.8	47
24	An exported kinase (FIKK4.2) that mediates virulence-associated changes in <i>Plasmodium falciparum</i> -infected red blood cells. <i>International Journal for Parasitology</i> , 2014, 44, 319-328.	3.1	45
25	Ubiquitylation of MLKL at lysine 219 positively regulates necroptosis-induced tissue injury and pathogen clearance. <i>Nature Communications</i> , 2021, 12, 3364.	12.8	43
26	<i>Plasmodium falciparum</i> Adhesins Play an Essential Role in Signalling and Activation of Invasion into Human Erythrocytes. <i>PLoS Pathogens</i> , 2015, 11, e1005343.	4.7	41
27	Structure of Sgk223 pseudokinase reveals novel mechanisms of homotypic and heterotypic association. <i>Nature Communications</i> , 2017, 8, 1157.	12.8	40
28	The large resolvase TnpX is the only transposon-encoded protein required for transposition of the Tn4451/3 family of integrative mobilizable elements. <i>Molecular Microbiology</i> , 2004, 51, 1787-1800.	2.5	38
29	Mechanistic insights into activation and SOCS3-mediated inhibition of myeloproliferative neoplasm-associated JAK2 mutants from biochemical and structural analyses. <i>Biochemical Journal</i> , 2014, 458, 395-405.	3.7	33
30	FSDH2- and BAMS-associated mutations confer opposing effects on SMCHD1 function. <i>Journal of Biological Chemistry</i> , 2018, 293, 9841-9853.	3.4	33
31	Homo- and Heterotypic Association Regulates Signaling by the Sgk269/PEAK1 and Sgk223 Pseudokinases. <i>Journal of Biological Chemistry</i> , 2016, 291, 21571-21583.	3.4	30
32	DNA binding properties of TnpX indicate that different synapses are formed in the excision and integration of the Tn4451 family. <i>Molecular Microbiology</i> , 2004, 53, 1195-1207.	2.5	25
33	The epigenetic regulator Smchd1 contains a functional GHKL-type ATPase domain. <i>Biochemical Journal</i> , 2016, 473, 1733-1744.	3.7	25
34	The FxRxHrS Motif: A Conserved Region Essential for DNA Binding of the VirR Response Regulator from <i>Clostridium perfringens</i> . <i>Journal of Molecular Biology</i> , 2002, 322, 997-1011.	4.2	24
35	Purification, Kinetic Properties, and Intracellular Concentration of SpoIIIE, an Integral Membrane Protein That Regulates Sporulation in <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 1999, 181, 3242-3245.	2.2	24
36	Hijacking of a Substrate-binding Protein Scaffold for use in Mycobacterial Cell Wall Biosynthesis. <i>Journal of Molecular Biology</i> , 2006, 359, 983-997.	4.2	23

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37	Potent Inhibition of Necroptosis by Simultaneously Targeting Multiple Effectors of the Pathway. <i>ACS Chemical Biology</i> , 2020, 15, 2702-2713.	3.4	22
38	An Extensive Antigenic Footprint Underpins Immunodominant TCR Adaptability against a Hypervariable Viral Determinant. <i>Journal of Immunology</i> , 2014, 193, 5402-5413.	0.8	21
39	Identification of the Structural and Functional Domains of the Large Serine Recombinase TnpX from <i>Clostridium perfringens</i> . <i>Journal of Biological Chemistry</i> , 2005, 280, 2503-2511.	3.4	20
40	The PEAK family of pseudokinases, their role in cell signalling and cancer. <i>FEBS Journal</i> , 2020, 287, 4183-4197.	4.7	20
41	Fate of the SpoIIAB*-ADP Liberated after SpoIIAB Phosphorylates SpoIIAA of <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 2000, 182, 6250-6253.	2.2	18
42	Structural basis for small molecule targeting of Doublecortin Like Kinase 1 with DCLK1-IN-1. <i>Communications Biology</i> , 2021, 4, 1105.	4.4	17
43	Techniques to examine nucleotide binding by pseudokinases. <i>Biochemical Society Transactions</i> , 2013, 41, 975-980.	3.4	15
44	The <i>Bacillus subtilis</i> regulator protein SpoIIIE shares functional and structural similarities with eukaryotic protein phosphatases 2C. <i>FEMS Microbiology Letters</i> , 1999, 174, 117-123.	1.8	14
45	Characterization of Ligand Binding to Pseudokinases Using a Thermal Shift Assay. <i>Methods in Molecular Biology</i> , 2017, 1636, 91-104.	0.9	14
46	Two distinct regions of the large serine recombinase TnpX are required for DNA binding and biological function. <i>Molecular Microbiology</i> , 2006, 60, 591-601.	2.5	12
47	Mapping and functional analysis of heterochromatin protein 1 phosphorylation in the malaria parasite <i>Plasmodium falciparum</i> . <i>Scientific Reports</i> , 2019, 9, 16720.	3.3	12
48	A regulatory region on <scp>RIPK</scp> 2 is required for <scp>XIAP</scp> binding and <scp>NOD</scp> signaling activity. <i>EMBO Reports</i> , 2020, 21, e50400.	4.5	9
49	Distinct PEAK3 interactors and outputs expand the signaling potential of the PEAK pseudokinase family. <i>Science Signaling</i> , 2022, 15, eabj3554.	3.6	8
50	Granulovirus PK-1 kinase activity relies on a side-to-side dimerization mode centered on the regulatory I \pm C helix. <i>Nature Communications</i> , 2021, 12, 1002.	12.8	7
51	The intracellular domains of the EphB6 and EphA10 receptor tyrosine pseudokinases function as dynamic signalling hubs. <i>Biochemical Journal</i> , 2021, 478, 3351-3371.	3.7	6
52	Genotype, Phenotype, and Protein Structure in a Regulator of Sporulation: Effects of Mutations in the spoIIAA Gene of <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 1999, 181, 3860-3863.	2.2	4
53	Production and purification of the PEAK pseudokinases for structural and functional studies. <i>Methods in Enzymology</i> , 2022, 667, 1-35.	1.0	4
54	Production and Crystallization of Recombinant JAK Proteins. <i>Methods in Molecular Biology</i> , 2013, 967, 275-300.	0.9	3

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55	Flicking the molecular switch underlying MLKL-mediated necroptosis. <i>Molecular and Cellular Oncology</i> , 2015, 2, e985550.	0.7	3
56	CHAPTER 13. A Structural Perspective of the Pseudokinome: Defining the Targetable Space. <i>RSC Drug Discovery Series</i> , 2018, , 359-380.	0.3	3
57	Development and application of a high-throughput screening assay for identification of small molecule inhibitors of the <i>P. falciparum</i> reticulocyte binding-like homologue 5 protein. <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , 2020, 14, 188-200.	3.4	2
58	Kinases and pseudokinases online symposium. <i>Biochemist</i> , 2021, 43, 48-48.	0.5	0