

# Jean François Cavalier

## List of Publications by Year in descending order

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56  
papers

1,215  
citations

394421

19  
h-index

414414

32  
g-index

63  
all docs

63  
docs citations

63  
times ranked

1375  
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of cell wall synthesis inhibitors active against <i>Mycobacterium tuberculosis</i> by competitive activity-based protein profiling. <i>Cell Chemical Biology</i> , 2022, 29, 883-896.e5.	5.2	20
2	Design, synthesis and antibacterial activity against pathogenic mycobacteria of conjugated hydroxamic acids, hydrazides and O-alkyl/O-acyl protected hydroxamic derivatives. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2022, 64, 128692.	2.2	6
3	Deciphering the physiological role of serine enzymes involved in mycobacterial lipid metabolism using activity-based protein profiling. , 2022, , 235-251.		0
4	Lipolytic enzymes inhibitors: A new way for antibacterial drugs discovery. <i>European Journal of Medicinal Chemistry</i> , 2021, 209, 112908.	5.5	7
5	Experimental and computational investigation of Z/E isomerism, X-ray crystal structure and molecular docking study of (2-(hydroxyimino)cyclohexyl)diphenylphosphine sulfide, a potential antibacterial agent. <i>Journal of Molecular Structure</i> , 2021, 1229, 129634.	3.6	4
6	Intrabacterial lipid inclusions in mycobacteria: unexpected key players in survival and pathogenesis?. <i>FEMS Microbiology Reviews</i> , 2021, 45, .	8.6	13
7	Methyl arachidonyl fluorophosphonate inhibits <i>Mycobacterium tuberculosis</i> thioesterase TesA and globally affects vancomycin susceptibility. <i>FEBS Letters</i> , 2020, 594, 79-93.	2.8	7
8	Design, synthesis, antimicrobial evaluation, and molecular docking studies of novel symmetrical 2,5-difunctionalized 1,3,4-oxadiazoles. <i>Journal of Heterocyclic Chemistry</i> , 2020, 57, 1044-1054.	2.6	9
9	Dissecting the antibacterial activity of oxadiazolone-core derivatives against <i>Mycobacterium abscessus</i> . <i>PLoS ONE</i> , 2020, 15, e0238178.	2.5	10
10	Synthesis, Antimicrobial Activity and Molecular Docking Study of Novel $\pm$ -(Diphenylphosphoryl)- and $\pm$ -(Diphenylphosphorothioyl)cycloalkanone Oximes. <i>Chemistry and Biodiversity</i> , 2020, 17, e2000217.	2.1	12
11	Cyclipostins and Cyclophostin Analogues as Multitarget Inhibitors That Impair Growth of <i>Mycobacterium abscessus</i> . <i>ACS Infectious Diseases</i> , 2019, 5, 1597-1608.	3.8	30
12	Worms™ Antimicrobial Peptides. <i>Marine Drugs</i> , 2019, 17, 512.	4.6	24
13	Nitrogen deprivation induces triacylglycerol accumulation, drug tolerance and hypervirulence in mycobacteria. <i>Scientific Reports</i> , 2019, 9, 8667.	3.3	31
14	Dissecting the membrane lipid binding properties and lipase activity of <i>Mycobacterium tuberculosis</i> LipY domains. <i>FEBS Journal</i> , 2019, 286, 3164-3181.	4.7	14
15	Synthesis of Long-Chain $\pm$ -Lactones and Their Antibacterial Activities against Pathogenic Mycobacteria. <i>ChemMedChem</i> , 2019, 14, 349-358.	3.2	10
16	Cyclophostin and Cyclipostins analogues, new promising molecules to treat mycobacterial-related diseases. <i>International Journal of Antimicrobial Agents</i> , 2018, 51, 651-654.	2.5	25
17	Cyclipostins and cyclophostin analogs inhibit the antigen 85C from <i>Mycobacterium tuberculosis</i> both in vitro and in vivo. <i>Journal of Biological Chemistry</i> , 2018, 293, 2755-2769.	3.4	37
18	LipG a bifunctional phospholipase/thioesterase involved in mycobacterial envelope remodeling. <i>Bioscience Reports</i> , 2018, 38, .	2.4	24

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19	Biochemical and Structural Characterization of TesA, a Major Thioesterase Required for Outer-Envelope Lipid Biosynthesis in Mycobacterium tuberculosis. <i>Journal of Molecular Biology</i> , 2018, 430, 5120-5136.	4.2	22
20	Oxadiazolone derivatives, new promising multi-target inhibitors against M. tuberculosis. <i>Bioorganic Chemistry</i> , 2018, 81, 414-424.	4.1	20
21	The potent effect of mycolactone on lipid membranes. <i>PLoS Pathogens</i> , 2018, 14, e1006814.	4.7	36
22	Efficient synthesis of novel dialkyl-3-cyanopropylphosphate derivatives and evaluation of their anticholinesterase activity. <i>Bioorganic Chemistry</i> , 2017, 72, 301-307.	4.1	9
23	Cyclipostins and Cyclophostin analogs as promising compounds in the fight against tuberculosis. <i>Scientific Reports</i> , 2017, 7, 11751.	3.3	40
24	Interfacial Properties of NTAIL, an Intrinsically Disordered Protein. <i>Biophysical Journal</i> , 2017, 113, 2723-2735.	0.5	8
25	Studying Gastric Lipase Adsorption Onto Phospholipid Monolayers by Surface Tensiometry, Ellipsometry, and Atomic Force Microscopy. <i>Methods in Enzymology</i> , 2017, 583, 255-278.	1.0	12
26	Adsorption of gastric lipase onto multicomponent model lipid monolayers with phase separation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 143, 97-106.	5.0	43
27	Slowing down fat digestion and absorption by an oxadiazolone inhibitor targeting selectively gastric lipolysis. <i>European Journal of Medicinal Chemistry</i> , 2016, 123, 834-848.	5.5	22
28	Effect of preduodenal lipase inhibition in suckling rats on dietary octanoic acid (C8:0) gastric absorption and plasma octanoylated ghrelin concentration. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2016, 1861, 1111-1120.	2.4	16
29	New lipase assay using Pomegranate oil coating in microtiter plates. <i>Biochimie</i> , 2016, 120, 110-118.	2.6	11
30	3-oxo-1,5-bisphosphonates Alleviate Serum Oxidative Stress in the High-fat Diet Induced Obesity in Rats. <i>Chemical Biology and Drug Design</i> , 2015, 86, 291-301.	3.2	4
31	Biochemical characterization of <i>Yarrowia lipolytica</i> LIP8, a secreted lipase with a cleavable C-terminal region. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2015, 1851, 129-140.	2.4	6
32	Supported inhibitor for fishing lipases in complex biological media and mass spectrometry identification. <i>Biochimie</i> , 2014, 107, 124-134.	2.6	2
33	Using the reversible inhibition of gastric lipase by Orlistat for investigating simultaneously lipase adsorption and substrate hydrolysis at the lipid-water interface. <i>Biochimie</i> , 2014, 101, 221-231.	2.6	24
34	An interfacial and comparative <i>in vitro</i> study of gastrointestinal lipases and <i>Yarrowia lipolytica</i> LIP2 lipase, a candidate for enzyme replacement therapy. <i>Biochimie</i> , 2014, 102, 145-153.	2.6	14
35	Biochemical and structural characterization of non-glycosylated <i>Yarrowia lipolytica</i> LIP2 lipase. <i>European Journal of Lipid Science and Technology</i> , 2013, 115, 429-441.	1.5	12
36	Solution conformational features and interfacial properties of an intrinsically disordered peptide coupled to alkyl chains: a new class of peptide amphiphiles. <i>Molecular BioSystems</i> , 2013, 9, 1401.	2.9	8

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37	New insights into the pH-dependent interfacial adsorption of dog gastric lipase using the monolayer technique. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 111, 306-312.	5.0	25
38	Enantioselective Inhibition of Microbial Lipolytic Enzymes by Nonracemic Monocyclic Enolphosphonate Analogues of Cyclophostin. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 4393-4401.	6.4	18
39	Effects of the propeptide of group X secreted phospholipase A2 on substrate specificity and interfacial activity on phospholipid monolayers. <i>Biochimie</i> , 2013, 95, 51-58.	2.6	10
40	Synthesis and Kinetic Evaluation of Cyclophostin and Cyclipostins Phosphonate Analogs As Selective and Potent Inhibitors of Microbial Lipases. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 10204-10219.	6.4	45
41	Analysis of the discriminative inhibition of mammalian digestive lipases by 3-phenyl substituted 1,3,4-oxadiazol-2(3H)-ones. <i>European Journal of Medicinal Chemistry</i> , 2012, 58, 452-463.	5.5	53
42	MmPPOX Inhibits Mycobacterium tuberculosis Lipolytic Enzymes Belonging to the Hormone-Sensitive Lipase Family and Alters Mycobacterial Growth. <i>PLoS ONE</i> , 2012, 7, e46493.	2.5	50
43	Effects of Surfactants on Lipase Structure, Activity, and Inhibition. <i>Pharmaceutical Research</i> , 2011, 28, 1831-1842.	3.5	147
44	In Vitro Gastrointestinal Lipolysis: Replacement of Human Digestive Lipases by a Combination of Rabbit Gastric and Porcine Pancreatic Extracts. <i>Food Digestion</i> , 2011, 2, 43-51.	0.9	71
45	Validation of lipolysis product extraction from aqueous/biological samples, separation and quantification by thin-layer chromatography with flame ionization detection analysis using O-cholesteryl ethylene glycol as a new internal standard. <i>Journal of Chromatography A</i> , 2009, 1216, 6543-6548.	3.7	19
46	Discrimination between closed and open forms of lipases using electrophoretic techniques. <i>Analytical Biochemistry</i> , 2005, 338, 171-178.	2.4	12
47	Synthesis, Structure-activity Relationship and In Vitro Evaluation of Coelenterazine and Coelenteramine Derivatives as Inhibitors of Lipid Peroxidation. <i>Free Radical Research</i> , 2003, 37, 145-158.	3.3	9
48	N-(Alkyl)-2-amino-1,4-pyrazine Derivatives: Synthesis and Antioxidative Properties of 3- and 3,5-p-Hydroxyphenyl-Substituted Compounds. <i>Synthesis</i> , 2003, 2003, 0513-0522.	2.3	1
49	Catechol derivatives of aminopyrazine and cell protection against uvb-induced mortality. <i>Bioorganic and Medicinal Chemistry</i> , 2001, 9, 1037-1044.	3.0	19
50	2,6-Diamino-3,5-diaryl-1,4-pyrazine Derivatives as Novel Antioxidants. <i>Synthesis</i> , 2001, 2001, 0768-0772.	2.3	19
51	Chlorosulfonyl Isocyanate. <i>Synlett</i> , 2000, 2000, 427.	1.8	1
52	Covalent Inhibition of Digestive Lipases by Chiral Phosphonates. <i>Accounts of Chemical Research</i> , 2000, 33, 579-589.	15.6	41
53	Interfacial and/or molecular recognition by lipases of mixed monomolecular films of 1,2-dicaprin and chiral organophosphorus glyceride analogues?. <i>Colloids and Surfaces B: Biointerfaces</i> , 1999, 13, 37-45.	5.0	20
54	Inhibition of human gastric and pancreatic lipases by chiral alkylphosphonates. A kinetic study with 1,2-didecanoyl-sn-glycerol monolayer. <i>Chemistry and Physics of Lipids</i> , 1999, 100, 3-31.	3.2	32

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55	Application to the Synthesis of Enantiopure Phosponates Analogous to Triglycerides: A New Class of Inhibitors of Lipases. <i>European Journal of Organic Chemistry</i> , 1999, 1999, 1671-1678.	2.4	15
56	New Highly Diastereoselective Synthesis of Phosphoramidates. A Route to Chiral Methylp-Nitrophenyl Alkylphosponates. <i>Synlett</i> , 1998, 1998, 73-75.	1.8	14