Jean FranÃ§ois Cavalier

List of Publications by Year
in descending order

56 papers	1,215 citations	394286 19 h-index	414303 32 g-index
63 all docs	63 docs citations	63 times ranked	1375 citing authors

#	Article	IF	Citations
1	Effects of Surfactants on Lipase Structure, Activity, and Inhibition. Pharmaceutical Research, 2011, 28, 1831-1842.	1.7	147
2	In Vitro Gastrointestinal Lipolysis: Replacement of Human Digestive Lipases by a Combination of Rabbit Gastric and Porcine Pancreatic Extracts. Food Digestion, 2011, 2, 43-51.	0.9	71
3	Analysis of the discriminative inhibition of mammalian digestive lipases by 3-phenyl substituted 1,3,4-oxadiazol-2(3H)-ones. European Journal of Medicinal Chemistry, 2012, 58, 452-463.	2.6	53
4	MmPPOX Inhibits Mycobacterium tuberculosis Lipolytic Enzymes Belonging to the Hormone-Sensitive Lipase Family and Alters Mycobacterial Growth. PLoS ONE, 2012, 7, e46493.	1.1	50
5	Synthesis and Kinetic Evaluation of Cyclophostin and Cyclipostins Phosphonate Analogs As Selective and Potent Inhibitors of Microbial Lipases. Journal of Medicinal Chemistry, 2012, 55, 10204-10219.	2.9	45
6	Adsorption of gastric lipase onto multicomponent model lipid monolayers with phase separation. Colloids and Surfaces B: Biointerfaces, 2016, 143, 97-106.	2.5	43
7	Covalent Inhibition of Digestive Lipases by Chiral Phosphonates. Accounts of Chemical Research, 2000, 33, 579-589.	7.6	41
8	Cyclipostins and Cyclophostin analogs as promising compounds in the fight against tuberculosis. Scientific Reports, 2017, 7, 11751.	1.6	40
9	Cyclipostins and cyclophostin analogs inhibit the antigen 85C from Mycobacterium tuberculosis both in vitro and in vivo. Journal of Biological Chemistry, 2018, 293, 2755-2769.	1.6	37
10	The potent effect of mycolactone on lipid membranes. PLoS Pathogens, 2018, 14, e1006814.	2.1	36
11	Inhibition of human gastric and pancreatic lipases by chiral alkylphosphonates. A kinetic study with 1,2-didecanoyl-sn-glycerol monolayer. Chemistry and Physics of Lipids, 1999, 100, 3-31.	1.5	32
12	Nitrogen deprivation induces triacylglycerol accumulation, drug tolerance and hypervirulence in mycobacteria. Scientific Reports, 2019, 9, 8667.	1.6	31
13	Cyclipostins and Cyclophostin Analogues as Multitarget Inhibitors That Impair Growth of Mycobacterium abscessus. ACS Infectious Diseases, 2019, 5, 1597-1608.	1.8	30
14	New insights into the pH-dependent interfacial adsorption of dog gastric lipase using the monolayer technique. Colloids and Surfaces B: Biointerfaces, 2013, 111, 306-312.	2.5	25
15	Cyclophostin and Cyclipostins analogues, new promising molecules to treat mycobacterial-related diseases. International Journal of Antimicrobial Agents, 2018, 51, 651-654.	1.1	25
16	Using the reversible inhibition of gastric lipase by Orlistat for investigating simultaneously lipase adsorption and substrate hydrolysis at the lipidâ€“water interface. Biochimie, 2014, 101, 221-231.	1.3	24
17	LipG a bifunctional phospholipase/thioesterase involved in mycobacterial envelope remodeling. Bioscience Reports, 2018, 38, .	1.1	24
18	Wormsâ€™ Antimicrobial Peptides. Marine Drugs, 2019, 17, 512.	2.2	24

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19	Slowing down fat digestion and absorption by an oxadiazolone inhibitor targeting selectively gastric lipolysis. European Journal of Medicinal Chemistry, 2016, 123, 834-848.	2.6	22
20	Biochemical and Structural Characterization of TesA, a Major Thioesterase Required for Outer-Envelope Lipid Biosynthesis in Mycobacterium tuberculosis. Journal of Molecular Biology, 2018, 430, 5120-5136.	2.0	22
21	Interfacial and/or molecular recognition by lipases of mixed monomolecular films of 1,2-dicaprin and chiral organophosphorus glyceride analogues?. Colloids and Surfaces B: Biointerfaces, 1999, 13, 37-45.	2.5	20
22	Oxadiazolone derivatives, new promising multi-target inhibitors against M. tuberculosis. Bioorganic Chemistry, 2018, 81, 414-424.	2.0	20
23	Identification of cell wall synthesis inhibitors active against Mycobacterium tuberculosis by competitive activity-based protein profiling. Cell Chemical Biology, 2022, 29, 883-896.e5.	2.5	20
24	Catechol derivatives of aminopyrazine and cell protection against uvb-induced mortality. Bioorganic and Medicinal Chemistry, 2001, 9, 1037-1044.	1.4	19
25	2,6-Diamino-3,5-diaryl-1,4-pyrazine Derivatives as Novel Antioxidants. Synthesis, 2001, 2001, 0768-0772.	1.2	19
26	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. Journal of Chromatography A, 2009, 1216, 6543-6548.	1.8	19
27	Enantioselective Inhibition of Microbial Lipolytic Enzymes by Nonracemic Monocyclic Enolphosphonate Analogues of Cyclophostin. Journal of Medicinal Chemistry, 2013, 56, 4393-4401.	2.9	18
28	Effect of preduodenal lipase inhibition in suckling rats on dietary octanoic acid (C8:0) gastric absorption and plasma octanoylated ghrelin concentration. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2016, 1861, 1111-1120.	1.2	16
29	Application to the Synthesis of Enantiopure Phosphonates Analogous to Triglycerides: A New Class of Inhibitors of Lipases. European Journal of Organic Chemistry, 1999, 1999, 1671-1678.	1.2	15
30	New Highly Diastereoselective Synthesis of Phosphoramidates. A Route to Chiral Methylp-Nitrophenyl Alkylphosphonates. Synlett, 1998, 1998, 73-75.	1.0	14
31	An interfacial and comparative inÂvitro study of gastrointestinal lipases and Yarrowia lipolytica LIP2 lipase, a candidate for enzyme replacement therapy. Biochimie, 2014, 102, 145-153.	1.3	14
32	Dissecting the membrane lipid binding properties and lipase activity ofMycobacteriumÂtuberculosisLipY domains. FEBS Journal, 2019, 286, 3164-3181.	2.2	14
33	Intrabacterial lipid inclusions in mycobacteria: unexpected key players in survival and pathogenesis?. FEMS Microbiology Reviews, 2021, 45, .	3.9	13
34	Discrimination between closed and open forms of lipases using electrophoretic techniques. Analytical Biochemistry, 2005, 338, 171-178.	1.1	12
35	Biochemical and structural characterization of non-glycosylatedYarrowia lipolyticaLIP2 lipase. European Journal of Lipid Science and Technology, 2013, 115, 429-441.	1.0	12
36	Studying Gastric Lipase Adsorption Onto Phospholipid Monolayers by Surface Tensiometry, Ellipsometry, and Atomic Force Microscopy. Methods in Enzymology, 2017, 583, 255-278.	0.4	12

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37	Synthesis, Antimicrobial Activity and Molecular Docking Study of Novel Î±â€(Diphenylphosphoryl)â€• and Î±â€(Diphenylphosphorothioyl)cycloalkanone Oximes. Chemistry and Biodiversity, 2020, 17, e2000217.	1.0	12
38	New lipase assay using Pomegranate oil coating in microtiter plates. Biochimie, 2016, 120, 110-118.	1.3	11
39	Effects of the propeptide of group X secreted phospholipase A2 on substrate specificity and interfacial activity on phospholipid monolayers. Biochimie, 2013, 95, 51-58.	1.3	10
40	Synthesis of Longâ€Chain Î²â€Lactones and Their Antibacterial Activities against Pathogenic Mycobacteria. ChemMedChem, 2019, 14, 349-358.	1.6	10
41	Dissecting the antibacterial activity of oxadiazolone-core derivatives against Mycobacterium abscessus. PLoS ONE, 2020, 15, e0238178.	1.1	10
42	Synthesis, Structure-activity Relationship and In Vitro Evaluation of Coelenterazine and Coelenteramine Derivatives as Inhibitors of Lipid Peroxidation. Free Radical Research, 2003, 37, 145-158.	1.5	9
43	Efficient synthesis of novel dialkyl-3-cyanopropylphosphate derivatives and evaluation of their anticholinesterase activity. Bioorganic Chemistry, 2017, 72, 301-307.	2.0	9
44	Design, synthesis, antimicrobial evaluation, and molecular docking studies of novel symmetrical 2,5â€difunctionalized 1,3,4â€oxadiazoles. Journal of Heterocyclic Chemistry, 2020, 57, 1044-1054.	1.4	9
45	Solution conformational features and interfacial properties of an intrinsically disordered peptide coupled to alkyl chains: a new class of peptide amphiphiles. Molecular BioSystems, 2013, 9, 1401.	2.9	8
46	Interfacial Properties of NTAIL, an Intrinsically Disordered Protein. Biophysical Journal, 2017, 113, 2723-2735.	0.2	8
47	Methyl arachidonyl fluorophosphonate inhibits MycobacteriumÂtuberculosis thioesterase TesA and globally affects vancomycin susceptibility. FEBS Letters, 2020, 594, 79-93.	1.3	7
48	Lipolytic enzymes inhibitors: A new way for antibacterial drugs discovery. European Journal of Medicinal Chemistry, 2021, 209, 112908.	2.6	7
49	Biochemical characterization of Yarrowia lipolytica LIP8, a secreted lipase with a cleavable C-terminal region. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2015, 1851, 129-140.	1.2	6
50	Design, synthesis and antibacterial activity against pathogenic mycobacteria of conjugated hydroxamic acids, hydrazides and O-alkyl/O-acyl protected hydroxamic derivatives. Bioorganic and Medicinal Chemistry Letters, 2022, 64, 128692.	1.0	6
51	3â€Ketoâ€1,5â€bisphosphonates Alleviate Serumâ€Oxidative Stress in the Highâ€fat Diet Induced Obesity in Rats. Chemical Biology and Drug Design, 2015, 86, 291-301.	1.5	4
52	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. Journal of Molecular Structure, 2021, 1229, 129634.	1.8	4
53	Supported inhibitor for fishing lipases in complex biological media and mass spectrometry identification. Biochimie, 2014, 107, 124-134.	1.3	2
54	Chlorosulfonyl Isocyanate. Synlett, 2000, 2000, 427.	1.0	1

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55	N-(Alkyl)-2-amino-1,4-pyrazine Derivatives: Synthesis and Antioxidative Properties of 3- and 3,5-p-Hydroxyphenyl-Substituted Compounds. Synthesis, 2003, 2003, 0513-0522.	1.2	1
56	Deciphering the physiological role of serine enzymes involved in mycobacterial lipid metabolism using activity-based protein profiling. , 2022, , 235-251.		0