

Stephane Canaan

List of Publications by Year in descending order

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78
papers

3,230
citations

136950

32
h-index

168389

53
g-index

80
all docs

80
docs citations

80
times ranked

3777
citing authors

#	ARTICLE	IF	CITATIONS
1	A phospholipase A ₁ antibacterial Type VI secretion effector interacts directly with the C-terminal domain of the VgrG spike protein for delivery. <i>Molecular Microbiology</i> , 2016, 99, 1099-1118.	2.5	179
2	Crystal Structure of Human Gastric Lipase and Model of Lysosomal Acid Lipase, Two Lipolytic Enzymes of Medical Interest. <i>Journal of Biological Chemistry</i> , 1999, 274, 16995-17002.	3.4	150
3	Effects of Surfactants on Lipase Structure, Activity, and Inhibition. <i>Pharmaceutical Research</i> , 2011, 28, 1831-1842.	3.5	147
4	High-throughput automated refolding screening of inclusion bodies. <i>Protein Science</i> , 2009, 13, 2782-2792.	7.6	134
5	LppX is a lipoprotein required for the translocation of phthiocerol dimycocerosates to the surface of <i>Mycobacterium tuberculosis</i> . <i>EMBO Journal</i> , 2006, 25, 1436-1444.	7.8	126
6	Medium-Scale Structural Genomics: Strategies for Protein Expression and Crystallization. <i>Accounts of Chemical Research</i> , 2003, 36, 165-172.	15.6	116
7	Reversible Lipid Accumulation and Associated Division Arrest of <i>Mycobacterium avium</i> in Lipoprotein-Induced Foamy Macrophages May Resemble Key Events during Latency and Reactivation of Tuberculosis. <i>Infection and Immunity</i> , 2014, 82, 476-490.	2.2	109
8	Digestive lipases: From three-dimensional structure to physiology. <i>Biochimie</i> , 2000, 82, 973-986.	2.6	104
9	Interfacial Enzymology of Parvovirus Phospholipases A2. <i>Journal of Biological Chemistry</i> , 2004, 279, 14502-14508.	3.4	98
10	Functional Interaction of Calcium-/Calmodulin-dependent Protein Kinase II and Cytosolic Phospholipase A2. <i>Journal of Biological Chemistry</i> , 2001, 276, 39653-39660.	3.4	87
11	First evidence for the salt-dependent folding and activity of an esterase from the halophilic archaea <i>Haloarcula marismortui</i> . <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2009, 1791, 719-729.	2.4	87
12	Characterization of an exported monoglyceride lipase from <i>Mycobacterium tuberculosis</i> possibly involved in the metabolism of host cell membrane lipids. <i>Biochemical Journal</i> , 2007, 408, 417-427.	3.7	82
13	Experimental Models of Foamy Macrophages and Approaches for Dissecting the Mechanisms of Lipid Accumulation and Consumption during Dormancy and Reactivation of Tuberculosis. <i>Frontiers in Cellular and Infection Microbiology</i> , 2016, 6, 122.	3.9	68
14	Automated expression and solubility screening of His-tagged proteins in 96-well format. <i>Analytical Biochemistry</i> , 2005, 346, 77-84.	2.4	65
15	Two cutinase-like proteins secreted by <i>Mycobacterium tuberculosis</i> show very different lipolytic activities reflecting their physiological function. <i>FASEB Journal</i> , 2010, 24, 1893-1903.	0.5	65
16	Neurotoxicity and Other Pharmacological Activities of the Snake Venom Phospholipase A2 OS2: The N-Terminal Region Is More Important Than Enzymatic Activity. <i>Biochemistry</i> , 2006, 45, 5800-5816.	2.5	63
17	Expression and characterization of the protein Rv1399c from <i>Mycobacterium tuberculosis</i> . <i>FEBS Journal</i> , 2004, 271, 3953-3961.	0.2	61
18	<i>Mycobacterial lipolytic enzymes: A gold mine for tuberculosis research. Biochimie</i> , 2013, 95, 66-73.	2.6	59

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19	Mycobacterium abscessus Phospholipase C Expression Is Induced during Coculture within Amoebae and Enhances M. abscessus Virulence in Mice. <i>Infection and Immunity</i> , 2015, 83, 780-791.	2.2	54
20	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
21	Mycobacterium tuberculosis Lipolytic Enzymes as Potential Biomarkers for the Diagnosis of Active Tuberculosis. <i>PLoS ONE</i> , 2011, 6, e25078.	2.5	51
22	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
23	Unusual Mode of Binding of Human Group IIA Secreted Phospholipase A2 to Anionic Interfaces as Studied by Continuous Wave and Time Domain Electron Paramagnetic Resonance Spectroscopy. <i>Journal of Biological Chemistry</i> , 2002, 277, 30984-30990.	3.4	49
24	LipC (Rv0220) Is an Immunogenic Cell Surface Esterase of Mycobacterium tuberculosis. <i>Infection and Immunity</i> , 2012, 80, 243-253.	2.2	47
25	Substrate specificity and kinetic properties of enzymes belonging to the hormone-sensitive lipase family: Comparison with non-lipolytic and lipolytic carboxylesterases. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2005, 1738, 29-36.	2.4	46
26	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
27	A Monoacylglycerol Lipase from <i>Mycobacterium smegmatis</i> Involved in Bacterial Cell Interaction. <i>Journal of Bacteriology</i> , 2010, 192, 4776-4785.	2.2	44
28	Cyclipostins and Cyclophostin analogs as promising compounds in the fight against tuberculosis. <i>Scientific Reports</i> , 2017, 7, 11751.	3.3	40
29	Bacterial phospholipases C as vaccine candidate antigens against cystic fibrosis respiratory pathogens: The Mycobacterium abscessus model. <i>Vaccine</i> , 2015, 33, 2118-2124.	3.8	38
30	A lipoxygenase with dual positional specificity is expressed in olives (<i>Olea europaea</i> L.) during ripening. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2009, 1791, 339-346.	2.4	37
31	Cyclipostins and cyclophostin analogs inhibit the antigen 85C from Mycobacterium tuberculosis both in vitro and in vivo. <i>Journal of Biological Chemistry</i> , 2018, 293, 2755-2769.	3.4	37
32	The potent effect of mycolactone on lipid membranes. <i>PLoS Pathogens</i> , 2018, 14, e1006814.	4.7	36
33	Site-directed removal of N-glycosylation sites in human gastric lipase. <i>FEBS Journal</i> , 1999, 262, 644-651.	0.2	33
34	Comparing continuous wave progressive saturation EPR and time domain saturation recovery EPR over the entire motional range of nitroxide spin labels. <i>Journal of Magnetic Resonance</i> , 2004, 169, 129-163.	2.1	33
35	Gene Overexpression and Biochemical Characterization of the Biotechnologically Relevant Chlorogenic Acid Hydrolase from <i>Aspergillus niger</i> . <i>Applied and Environmental Microbiology</i> , 2007, 73, 5624-5632.	3.1	32
36	Lysosomal Lipases PLRP2 and LPLA2 Process Mycobacterial Multi-acylated Lipids and Generate T Cell Stimulatory Antigens. <i>Cell Chemical Biology</i> , 2016, 23, 1147-1156.	5.2	32

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37	Purification and Interfacial Behavior of Recombinant Human Gastric Lipase Produced from Insect Cells in a Bioreactor. <i>Protein Expression and Purification</i> , 1998, 14, 23-30.	1.3	31
38	Nitrogen deprivation induces triacylglycerol accumulation, drug tolerance and hypervirulence in mycobacteria. <i>Scientific Reports</i> , 2019, 9, 8667.	3.3	31
39	Structural basis for loading and inhibition of a bacterial T6 <i>sscP</i> phospholipase effector by the VgrG spike. <i>EMBO Journal</i> , 2020, 39, e104129.	7.8	31
40	Watching intracellular lipolysis in mycobacteria using time lapse fluorescence microscopy. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2011, 1811, 234-241.	2.4	30
41	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
42	A genomic search approach to identify esterases in <i>Propionibacterium freudenreichii</i> involved in the formation of flavour in Emmental cheese. <i>Microbial Cell Factories</i> , 2008, 7, 16.	4.0	28
43	Scrutiny of <i>Mycobacterium tuberculosis</i> 19 kDa antigen proteoforms provides new insights in the lipoglycoprotein biogenesis paradigm. <i>Scientific Reports</i> , 2017, 7, 43682.	3.3	27
44	Crystal structure of the conserved hypothetical protein Rv1155 from <i>Mycobacterium tuberculosis</i> . <i>FEBS Letters</i> , 2005, 579, 215-221.	2.8	25
45	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
46	Smooth Tubercle Bacilli: Neglected Opportunistic Tropical Pathogens. <i>Frontiers in Public Health</i> , 2015, 3, 283.	2.7	24
47	LipG a bifunctional phospholipase/thioesterase involved in mycobacterial envelope remodeling. <i>Bioscience Reports</i> , 2018, 38, .	2.4	24
48	Delineating the Physiological Roles of the PE and Catalytic Domains of LipY in Lipid Consumption in <i>Mycobacterium</i> -Infected Foamy Macrophages. <i>Infection and Immunity</i> , 2018, 86, .	2.2	24
49	Worms™ Antimicrobial Peptides. <i>Marine Drugs</i> , 2019, 17, 512.	4.6	24
50	Biochemical and Structural Characterization of TesA, a Major Thioesterase Required for Outer-Envelope Lipid Biosynthesis in <i>Mycobacterium tuberculosis</i> . <i>Journal of Molecular Biology</i> , 2018, 430, 5120-5136.	4.2	22
51	Gastric lipase: crystal structure and activity. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 1999, 1441, 197-204.	2.4	21
52	Oxadiazolone derivatives, new promising multi-target inhibitors against <i>M. tuberculosis</i> . <i>Bioorganic Chemistry</i> , 2018, 81, 414-424.	4.1	20
53	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
54	Inhibition of Dog and Human Gastric Lipases by Enantiomeric Phosphonate Inhibitors: A Structure-Activity Study. <i>Biochemistry</i> , 2003, 42, 11587-11593.	2.5	18

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55	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
56	<i>Mycobacterium canettii</i> Infection of Adipose Tissues. <i>Frontiers in Cellular and Infection Microbiology</i> , 2017, 7, 189.	3.9	17
57	Identification of putative residues involved in the accessibility of the substrate-binding site of lipoxygenase by site-directed mutagenesis studies. <i>Archives of Biochemistry and Biophysics</i> , 2011, 509, 82-89.	3.0	14
58	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
59	Identification of Residues Involved in Substrate Specificity and Cytotoxicity of Two Closely Related Cutinases from <i>Mycobacterium tuberculosis</i> . <i>PLoS ONE</i> , 2013, 8, e66913.	2.5	14
60	Intrabacterial lipid inclusions in mycobacteria: unexpected key players in survival and pathogenesis?. <i>FEMS Microbiology Reviews</i> , 2021, 45, .	8.6	13
61	New lipase assay using Pomegranate oil coating in microtiter plates. <i>Biochimie</i> , 2016, 120, 110-118.	2.6	11
62	Synthesis of Long-Chain ϵ -Lactones and Their Antibacterial Activities against Pathogenic Mycobacteria. <i>ChemMedChem</i> , 2019, 14, 349-358.	3.2	10
63	A TLR2-Activating Fraction From <i>Mycobacterium abscessus</i> Rough Variant Demonstrates Vaccine and Diagnostic Potential. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020, 10, 432.	3.9	10
64	Dissecting the antibacterial activity of oxadiazolone-core derivatives against <i>Mycobacterium abscessus</i> . <i>PLoS ONE</i> , 2020, 15, e0238178.	2.5	10
65	<i>Haloarcula sebkhae</i> sp. nov., an extremely halophilic archaeon from Algerian hypersaline environment. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2019, 69, 732-738.	1.7	10
66	Green fluorescent protein and factorial approach: An effective partnership for screening the soluble expression of recombinant proteins in <i>Escherichia coli</i> . <i>Protein Expression and Purification</i> , 2008, 61, 184-190.	1.3	9
67	Early life oxytocin treatment improves thermo-sensory reactivity and maternal behavior in neonates lacking the autism-associated gene <i>Magel2</i> . <i>Neuropsychopharmacology</i> , 2022, 47, 1901-1912.	5.4	9
68	[15] Influence of various signal peptides on secretion of mammalian acidic lipases in baculovirus-insect cell system. <i>Methods in Enzymology</i> , 1997, 284, 261-272.	1.0	8
69	Methyl arachidonyl fluorophosphonate inhibits <i>Mycobacterium tuberculosis</i> thioesterase <i>TesA</i> and globally affects vancomycin susceptibility. <i>FEBS Letters</i> , 2020, 594, 79-93.	2.8	7
70	Lipolytic enzymes inhibitors: A new way for antibacterial drugs discovery. <i>European Journal of Medicinal Chemistry</i> , 2021, 209, 112908.	5.5	7
71	Transcriptional adaptation of <i>Mycobacterium ulcerans</i> in an original mouse model: New insights into the regulation of mycolactone. <i>Virulence</i> , 2021, 12, 1438-1451.	4.4	7
72	Serological biomarkers for the diagnosis of <i>Mycobacterium abscessus</i> infections in cystic fibrosis patients. <i>Journal of Cystic Fibrosis</i> , 2022, 21, 353-360.	0.7	6

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73	Experimental Evolution of Mycobacterium tuberculosis in Human Macrophages Results in Low-Frequency Mutations Not Associated with Selective Advantage. PLoS ONE, 2016, 11, e0167989.	2.5	6
74	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.	2.2	6
75	B cells response directed against Cut4 and CFP21 lipolytic enzymes in active and latent tuberculosis infections. PLoS ONE, 2018, 13, e0196470.	2.5	4
76	Lipid Droplets Breakdown: Adipose Triglyceride Lipase Leads the Way. Current Protein and Peptide Science, 2018, 19, 1131-1133.	1.4	3
77	Supported inhibitor for fishing lipases in complex biological media and mass spectrometry identification. Biochimie, 2014, 107, 124-134.	2.6	2
78	Deciphering the physiological role of serine enzymes involved in mycobacterial lipid metabolism using activity-based protein profiling. , 2022, , 235-251.		0