

Frédéric Carrière

List of Publications by Year in descending order

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225
papers

15,125
citations

25034

57
h-index

20961

115
g-index

231
all docs

231
docs citations

231
times ranked

11663
citing authors

#	ARTICLE	IF	CITATIONS
1	A standardised static <i>in vitro</i> digestion method suitable for food – an international consensus. Food and Function, 2014, 5, 1113-1124.	4.6	3,730
2	INFOGEST static <i>in vitro</i> simulation of gastrointestinal food digestion. Nature Protocols, 2019, 14, 991-1014.	12.0	1,873
3	Secretion and contribution to lipolysis of gastric and pancreatic lipases during a test meal in humans. Gastroenterology, 1993, 105, 876-888.	1.3	415
4	A standardised semi-dynamic <i>in vitro</i> digestion method suitable for food – an international consensus. Food and Function, 2020, 11, 1702-1720.	4.6	233
5	Toward the Establishment of Standardized In Vitro Tests for Lipid-Based Formulations, Part 1: Method Parameterization and Comparison of In Vitro Digestion Profiles Across a Range of Representative Formulations. Journal of Pharmaceutical Sciences, 2012, 101, 3360-3380.	3.3	217
6	A structural domain (the lid) found in pancreatic lipases is absent in the guinea pig (phospho)lipase. Biochemistry, 1993, 32, 4702-4707.	2.5	183
7	The structure of infant formulas impacts their lipolysis, proteolysis and disintegration during <i>in vitro</i> gastric digestion. Food Chemistry, 2015, 182, 224-235.	8.2	170
8	The specific activities of human digestive lipases measured from the <i>in vivo</i> and <i>in vitro</i> lipolysis of test meals. Gastroenterology, 2000, 119, 949-960.	1.3	159
9	Exploring the specific features of interfacial enzymology based on lipase studies. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2006, 1761, 995-1013.	2.4	150
10	Effects of Surfactants on Lipase Structure, Activity, and Inhibition. Pharmaceutical Research, 2011, 28, 1831-1842.	3.5	147
11	Relevant pH and lipase for <i>in vitro</i> models of gastric digestion. Food and Function, 2016, 7, 30-45.	4.6	143
12	Evidence for a Pancreatic Lipase Subfamily with New Kinetic Properties. Biochemistry, 1994, 33, 2748-2756.	2.5	142
13	Inhibition of gastrointestinal lipolysis by Orlistat during digestion of test meals in healthy volunteers. American Journal of Physiology - Renal Physiology, 2001, 281, G16-G28.	3.4	133
14	The light stress-induced protein ELIP2 is a regulator of chlorophyll synthesis in Arabidopsis thaliana. Plant Journal, 2007, 50, 795-809.	5.7	128
15	Understanding the lipid-digestion processes in the GI tract before designing lipid-based drug-delivery systems. Therapeutic Delivery, 2012, 3, 105-124.	2.2	128
16	Structural basis for the substrate selectivity of pancreatic lipases and some related proteins. BBA - Biomembranes, 1998, 1376, 417-432.	8.0	126
17	[16] A critical reevaluation of the phenomenon of interfacial activation. Methods in Enzymology, 1997, 286, 327-347.	1.0	125
18	Effects of Gum Arabic on Lipase Interfacial Binding and Activity. Analytical Biochemistry, 2001, 294, 36-43.	2.4	122

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19	Lipase from the thermotolerant fungus <i>Rhizopus homothallicus</i> is more thermostable when produced using solid state fermentation than liquid fermentation procedures. <i>Enzyme and Microbial Technology</i> , 2006, 39, 1042-1050.	3.2	118
20	Purification and biochemical characterization of dog gastric lipase. <i>FEBS Journal</i> , 1991, 202, 75-83.	0.2	112
21	Toward the Establishment of Standardized <i>in Vitro</i> Tests for Lipid-Based Formulations. 2. The Effect of Bile Salt Concentration and Drug Loading on the Performance of Type I, II, IIIA, IIIB, and IV Formulations during <i>in Vitro</i> Digestion. <i>Molecular Pharmaceutics</i> , 2012, 9, 3286-3300.	4.6	110
22	A pancreatic lipase with a phospholipase A1 activity: crystal structure of a chimeric pancreatic lipase-related protein 2 from guinea pig. <i>Structure</i> , 1996, 4, 1363-1374.	3.3	105
23	Digestive lipases: From three-dimensional structure to physiology. <i>Biochimie</i> , 2000, 82, 973-986.	2.6	104
24	Quantitative study of digestive enzyme secretion and gastrointestinal lipolysis in chronic pancreatitis. <i>Clinical Gastroenterology and Hepatology</i> , 2005, 3, 28-38.	4.4	101
25	A Metagenomic Investigation of the Duodenal Microbiota Reveals Links with Obesity. <i>PLoS ONE</i> , 2015, 10, e0137784.	2.5	101
26	Comparative study on digestive lipase activities on the self emulsifying excipient Labrasol® [®] , medium chain glycerides and PEG esters. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2007, 1771, 633-640.	2.4	100
27	Assessing Induced Folding of an Intrinsically Disordered Protein by Site-Directed Spin-Labeling Electron Paramagnetic Resonance Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2006, 110, 20596-20608.	2.6	99
28	Pancreatic lipase-related protein 2 but not classical pancreatic lipase hydrolyzes galactolipids. <i>Lipids and Lipid Metabolism</i> , 1996, 1302, 236-240.	2.6	96
29	Human Pancreatic Lipase-Related Protein 2 Is a Galactolipase. <i>Biochemistry</i> , 2004, 43, 10138-10148.	2.5	95
30	Comparative genomics analysis of <i>Lactobacillus</i> species associated with weight gain or weight protection. <i>Nutrition and Diabetes</i> , 2014, 4, e109-e109.	3.2	95
31	Pancreatic Lipase Structure-Function Relationships by Domain Exchange. <i>Biochemistry</i> , 1997, 36, 239-248.	2.5	89
32	Purification and biochemical characterization of the LIP2 lipase from <i>Yarrowia lipolytica</i> . <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2007, 1771, 228-237.	2.4	89
33	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
34	Quantitative and Qualitative Study of Gastric Lipolysis in Premature Infants: Do MCT-Enriched Infant Formulas Improve Fat Digestion?. <i>Pediatric Research</i> , 2007, 61, 83-88.	2.3	83
35	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
36	In Vitro Gastrointestinal Lipolysis of Four Formulations of Piroxicam and Cinnarizine with the Self Emulsifying Excipients Labrasol® [®] and Gelucire® [®] 44/14. <i>Pharmaceutical Research</i> , 2009, 26, 1901-1910.	3.5	82

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37	In vivo and in vitro studies on the stereoselective hydrolysis of tri- and diglycerides by gastric and pancreatic lipases. <i>Bioorganic and Medicinal Chemistry</i> , 1997, 5, 429-435.	3.0	79
38	Probing the Opening of the Pancreatic Lipase Lid Using Site-Directed Spin Labeling and EPR Spectroscopy. <i>Biochemistry</i> , 2007, 46, 2205-2214.	2.5	79
39	Colipase: structure and interaction with pancreatic lipase. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 1999, 1441, 173-184.	2.4	75
40	Lipolysis of the semi-solid self-emulsifying excipient Gelucire® 44/14 by digestive lipases. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2008, 1781, 367-375.	2.4	75
41	The role of free fatty acids, pancreatic lipase and Ca ²⁺ signalling in injury of isolated acinar cells and pancreatitis model in lipoprotein lipase-deficient mice. <i>Acta Physiologica</i> , 2009, 195, 13-28.	3.8	73
42	Human Pancreatic Lipase: Colipase Dependence and Interfacial Binding of Lid Domain Mutants. <i>Biochemistry</i> , 1999, 38, 5499-5510.	2.5	72
43	Impact of gastrointestinal lipolysis on oral lipid-based formulations and bioavailability of lipophilic drugs. <i>Biochimie</i> , 2016, 125, 297-305.	2.6	72
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	Holder pasteurization impacts the proteolysis, lipolysis and disintegration of human milk under in vitro dynamic term newborn digestion. <i>Food Research International</i> , 2016, 88, 263-275.	6.2	70
46	The role of plant cell wall encapsulation and porosity in regulating lipolysis during the digestion of almond seeds. <i>Food and Function</i> , 2016, 7, 69-78.	4.6	70
47	Lipolytic enzymes in <i>Mycobacterium tuberculosis</i> . <i>Applied Microbiology and Biotechnology</i> , 2008, 78, 741-749.	3.6	69
48	Impact of pasteurization of human milk on preterm newborn in vitro digestion: Gastrointestinal disintegration, lipolysis and proteolysis. <i>Food Chemistry</i> , 2016, 211, 171-179.	8.2	69
49	Structure of Human Pancreatic Lipase-Related Protein 2 with the Lid in an Open Conformation. <i>Biochemistry</i> , 2008, 47, 9553-9564.	2.5	68
50	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
51	One-step purification and characterization of human pancreatic lipase expressed in insect cells. <i>FEBS Letters</i> , 1993, 327, 79-84.	2.8	64
52	Coupling in vitro gastrointestinal lipolysis and Caco-2 cell cultures for testing the absorption of different food emulsions. <i>Food and Function</i> , 2012, 3, 537.	4.6	64
53	A comparative study on two fungal lipases from <i>Thermomyces lanuginosus</i> and <i>Yarrowia lipolytica</i> shows the combined effects of detergents and pH on lipase adsorption and activity. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2007, 1771, 1446-1456.	2.4	63
54	How Gastric Lipase, an Interfacial Enzyme with a Ser-His-Asp Catalytic Triad, Acts Optimally at Acidic pH. <i>Biochemistry</i> , 2006, 45, 993-1001.	2.5	61

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55	Enhanced susceptibility to pancreatitis in severe hypertriglyceridaemic lipoprotein lipase-deficient mice and agonist-like function of pancreatic lipase in pancreatic cells. <i>Gut</i> , 2009, 58, 422-430.	12.1	61
56	Physiological Study of pH Stability and Sensitivity to Pepsin of Human Gastric Lipase. <i>Digestion</i> , 2002, 65, 73-81.	2.3	60
57	Assaying lipase activity from oil palm fruit (<i>Elaeis guineensis</i> Jacq.) mesocarp. <i>Plant Physiology and Biochemistry</i> , 2006, 44, 611-617.	5.8	60
58	Further biochemical characterization of human pancreatic lipase-related protein 2 expressed in yeast cells. <i>Journal of Lipid Research</i> , 2007, 48, 1539-1549.	4.2	57
59	Quantitative study of lipase secretion, extracellular lipolysis, and lipid storage in the yeast <i>Yarrowia lipolytica</i> grown in the presence of olive oil: analogies with lipolysis in humans. <i>Applied Microbiology and Biotechnology</i> , 2011, 89, 1947-1962.	3.6	57
60	Toward the Establishment of Standardized In Vitro Tests for Lipid-Based Formulations. 5. Lipolysis of Representative Formulations by Gastric Lipase. <i>Pharmaceutical Research</i> , 2015, 32, 1279-1287.	3.5	55
61	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
62	Toward the Establishment of Standardized In Vitro Tests for Lipid-Based Formulations, Part 6: Effects of Varying Pancreatin and Calcium Levels. <i>AAPS Journal</i> , 2014, 16, 1344-1357.	4.4	53
63	Reactivation of the totally inactive pancreatic lipase RP1 by structure-predicted point mutations. <i>Proteins: Structure, Function and Bioinformatics</i> , 1998, 32, 523-531.	2.6	52
64	Characterization of pancreatic lipase-related protein 2 isolated from human pancreatic juice. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2004, 1701, 89-99.	2.3	52
65	Identification and biochemical characterization of a GDSL-motif carboxylester hydrolase from <i>Carica papaya</i> latex. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2009, 1791, 1048-1056.	2.4	52
66	Cloning of the classical guinea pig pancreatic lipase and comparison with the lipase related protein 2. <i>FEBS Letters</i> , 1994, 338, 63-68.	2.8	50
67	Variations in gastrointestinal lipases, pH and bile acid levels with food intake, age and diseases: Possible impact on oral lipid-based drug delivery systems. <i>Advanced Drug Delivery Reviews</i> , 2019, 142, 3-15.	13.7	50
68	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
69	Gastric lipase: an extremophilic interfacial enzyme with medical applications. <i>Cellular and Molecular Life Sciences</i> , 2008, 65, 851-854.	5.4	47
70	A Cutinase from <i>Trichoderma reesei</i> with a Lid-Covered Active Site and Kinetic Properties of True Lipases. <i>Journal of Molecular Biology</i> , 2014, 426, 3757-3772.	4.2	47
71	Lipids in the Stomach – Implications for the Evaluation of Food Effects on Oral Drug Absorption. <i>Pharmaceutical Research</i> , 2018, 35, 55.	3.5	47
72	Pancreatic lipase-related protein 1 (PLRP1) is present in the pancreatic juice of several species. <i>BBA - Proteins and Proteomics</i> , 1998, 1387, 331-341.	2.1	46

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73	Use of an Inhibitor To Identify Members of the Hormone-Sensitive Lipase Family. <i>Biochemistry</i> , 2006, 45, 14183-14191.	2.5	45
74	Synthesis and Kinetic Evaluation of Cyclophostin and Cyclophostins Phosphonate Analogs As Selective and Potent Inhibitors of Microbial Lipases. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 10204-10219.	6.4	45
75	Gastric and Pancreatic Lipase Levels during a Test Meal in Dogs. <i>Scandinavian Journal of Gastroenterology</i> , 1993, 28, 443-454.	1.5	44
76	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
77	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
78	Might the Kinetic Behavior of Hormone-Sensitive Lipase Reflect the Absence of the Lid Domain?. <i>Biochemistry</i> , 2004, 43, 9298-9306.	2.5	42
79	Cloning and seasonal secretion of the pancreatic lipase-related protein 2 present in goat seminal plasma. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2005, 1686, 169-180.	2.4	42
80	Continuous measurement of galactolipid hydrolysis by pancreatic lipolytic enzymes using the pH-stat technique and a medium chain monogalactosyl diglyceride as substrate. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2009, 1791, 983-990.	2.4	41
81	In Vitro Digestion of the Self-Emulsifying Lipid Excipient Labrasol® by Gastrointestinal Lipases and Influence of its Colloidal Structure on Lipolysis Rate. <i>Pharmaceutical Research</i> , 2013, 30, 3077-3087.	3.5	41
82	Inhibition of human pancreatic lipase by tetrahydrolipstatin: Further kinetic studies showing its reversibility. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2009, 58, 41-47.	1.8	40
83	Isoform purification of gastric lipases. <i>Journal of Molecular Biology</i> , 1992, 225, 147-153.	4.2	39
84	Occurrence of pancreatic lipase-related protein-2 in various species and its relationship with herbivore diet. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2008, 150, 1-9.	1.6	39
85	Carica papaya Lipase: A Naturally Immobilized Enzyme with Interesting Biochemical Properties. <i>Plant Foods for Human Nutrition</i> , 2011, 66, 34-40.	3.2	39
86	In vitro digestion of citric acid esters of mono- and diglycerides (CITREM) and CITREM-containing infant formula/emulsions. <i>Food and Function</i> , 2014, 5, 1409-1421.	4.6	39
87	Novel chromatographic resolution of chiral diacylglycerols and analysis of the stereoselective hydrolysis of triacylglycerols by lipases. <i>Analytical Biochemistry</i> , 2008, 375, 196-208.	2.4	38
88	Lipolysis of natural long chain and synthetic medium chain galactolipids by pancreatic lipase-related protein 2. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2010, 1801, 508-516.	2.4	38
89	Direct Analysis of Phycobilisomal Antenna Proteins and Metabolites in Small Cyanobacterial Populations by Laser Ablation Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2012, 84, 34-38.	6.5	38
90	Dog gastric lipase: Stimulation of its secretion in vivo and cytolocalization in mucous pit cells. <i>Gastroenterology</i> , 1992, 102, 1535-1545.	1.3	37

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91	Lid Opening and Unfolding in Human Pancreatic Lipase at Low pH Revealed by Site-Directed Spin Labeling EPR and FTIR Spectroscopy. <i>Biochemistry</i> , 2009, 48, 630-638.	2.5	36
92	In vitro stereoselective hydrolysis of diacylglycerols by hormone-sensitive lipase. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2010, 1801, 77-83.	2.4	36
93	Probing structural transitions in both structured and disordered proteins using site-directed spin-labeling EPR spectroscopy. <i>Journal of Peptide Science</i> , 2011, 17, 315-328.	1.4	36
94	Surface behaviour of human pancreatic and gastric lipases. <i>Colloids and Surfaces B: Biointerfaces</i> , 1994, 2, 585-593.	5.0	35
95	Human Pancreatic Lipase: An Exposed Hydrophobic Loop from the C-terminal Domain May Contribute to Interfacial Binding. <i>Biochemistry</i> , 1998, 37, 11846-11855.	2.5	35
96	In vitro comparisons between Carica papaya and pancreatic lipases during test meal lipolysis: Potential use of CPL in enzyme replacement therapy. <i>Food Chemistry</i> , 2009, 115, 488-494.	8.2	35
97	<i>In vitro</i> comparative study of three pancreatic enzyme preparations: dissolution profiles, active enzyme release and acid stability. <i>Alimentary Pharmacology and Therapeutics</i> , 2008, 27, 283-292.	3.7	34
98	Blocking Gastric Lipase Adsorption and Displacement Processes with Viscoelastic Biopolymer Adsorption Layers. <i>Biomacromolecules</i> , 2016, 17, 3328-3337.	5.4	34
99	Evidence for the cytotoxic effects of Mycobacterium tuberculosis phospholipase C towards macrophages. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2010, 1801, 1305-1313.	2.4	33
100	Structure-function relationships in naturally occurring mutants of pancreatic lipase. <i>Protein Engineering, Design and Selection</i> , 1994, 7, 563-569.	2.1	32
101	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
102	Continuous monitoring of cholesterol oleate hydrolysis by hormone-sensitive lipase and other cholesterol esterases. <i>Journal of Lipid Research</i> , 2005, 46, 994-1000.	4.2	31
103	Amplitude of Pancreatic Lipase Lid Opening in Solution and Identification of Spin Label Conformational Subensembles by Combining Continuous Wave and Pulsed EPR Spectroscopy and Molecular Dynamics. <i>Biochemistry</i> , 2010, 49, 2140-2149.	2.5	30
104	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
105	The inhibition of TOR in the model diatom <i>Phaeodactylum tricornutum</i> promotes a get-fat growth regime. <i>Algal Research</i> , 2017, 26, 265-274.	4.6	30
106	Cloning and Expression in Insect Cells of two Pancreatic Lipases and a Procolipase from <i>Myocastor coypus</i> . <i>FEBS Journal</i> , 1995, 227, 186-193.	0.2	29
107	The C-Terminal Domain of Pancreatic Lipase: Functional and Structural Analogies with C2 Domains. <i>Current Protein and Peptide Science</i> , 2000, 1, 91-103.	1.4	29
108	Effects of Lansoprazole on Human Gastric Lipase Secretion and Intragastric Lipolysis in Healthy Human Volunteers. <i>Digestion</i> , 2001, 63, 207-213.	2.3	29

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109	The β -Loop of the Pancreatic Lipase C2-like Domain Plays a Critical Role in the Lipase-Lipid Interactions. <i>Biochemistry</i> , 2002, 41, 13725-13735.	2.5	29
110	Biotransformation of geraniol by photoautotrophic, photomixotrophic and heterotrophic plant cell suspensions. <i>Phytochemistry</i> , 1989, 28, 1087-1090.	2.9	27
111	Isolation, identification and characterization of a new lipolytic <i>Pseudomonas</i> sp., strain AHD1, from Tunisian soil. <i>Environmental Technology (United Kingdom)</i> , 2010, 31, 87-95.	2.2	27
112	The molecular mechanism of human hormone-sensitive lipase inhibition by substituted 3-phenyl-5-alkoxy-1,3,4-oxadiazol-2-ones. <i>Biochimie</i> , 2012, 94, 137-145.	2.6	27
113	Free fatty acid release from vegetable and bovine milk fat-based infant formulas and human milk during two-phase <i>in vitro</i> digestion. <i>Food and Function</i> , 2019, 10, 2102-2113.	4.6	27
114	Effect of environmental conditions on various enzyme activities and triacylglycerol contents in cultures of the freshwater diatom, <i>Asterionella formosa</i> (Bacillariophyceae). <i>Biochimie</i> , 2014, 101, 21-30.	2.6	26
115	Syntheses of an α -D-Gal-(1 \rightarrow 6)- β -D-Gal diglyceride, as lipase substrate. <i>Carbohydrate Research</i> , 2006, 341, 695-704.	2.3	25
116	Galactolipase, phospholipase and triacylglycerol lipase activities in the midgut of six species of lepidopteran larvae feeding on different lipid diets. <i>Journal of Insect Physiology</i> , 2011, 57, 1232-1239.	2.0	25
117	Progesterone and a phospholipase inhibitor increase the endosomal bis(monoacylglycerol)phosphate content and block HIV viral particle intercellular transmission. <i>Biochimie</i> , 2013, 95, 1677-1688.	2.6	25
118	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
119	Water-in-oil microemulsions versus emulsions as carriers of hydroxytyrosol: an <i>in vitro</i> gastrointestinal lipolysis study using the pHstat technique. <i>Food and Function</i> , 2016, 7, 2258-2269.	4.6	25
120	The endosomal lipid bis(monoacylglycerol) phosphate as a potential key player in the mechanism of action of chloroquine against SARS-COV-2 and other enveloped viruses hijacking the endocytic pathway. <i>Biochimie</i> , 2020, 179, 237-246.	2.6	25
121	Interfacial binding and activity of lipases at the lipid-water interface: effects of Gum Arabic and surface pressure. <i>Colloids and Surfaces B: Biointerfaces</i> , 2002, 26, 135-145.	5.0	24
122	Physiology of Gastrointestinal Lipolysis and Therapeutical Use of Lipases and Digestive Lipase Inhibitors. , 2005, , 195-229.		24
123	Val-407 and Ile-408 in the β -Loop of Pancreatic Lipase Mediate Lipase-Colipase Interactions in the Presence of Bile Salt Micelles. <i>Journal of Biological Chemistry</i> , 2006, 281, 7793-7800.	3.4	24
124	Characterization of typo-, regio-, and stereo-selectivities of babaco latex lipase in aqueous and organic media. <i>Biotechnology Letters</i> , 2008, 30, 769-774.	2.2	24
125	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
126	Storage Compound Accumulation in Diatoms as Response to Elevated CO ₂ Concentration. <i>Biology</i> , 2020, 9, 5.	2.8	24

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127	Characterization of all the lipolytic activities in pancreatin and comparison with porcine and human pancreatic juices. <i>Biochimie</i> , 2020, 169, 106-120.	2.6	23
128	The digestion of galactolipids and its ubiquitous function in Nature for the uptake of the essential ω -3-linolenic acid. <i>Food and Function</i> , 2020, 11, 6710-6744.	4.6	23
129	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
130	Towards infant formula biomimetic of human milk structure and digestive behaviour. <i>OCL - Oilseeds and Fats, Crops and Lipids</i> , 2017, 24, D206.	1.4	22
131	INFOGEST inter-laboratory recommendations for assaying gastric and pancreatic lipases activities prior to in vitro digestion studies. <i>Journal of Functional Foods</i> , 2021, 82, 104497.	3.4	22
132	Molecular evolution of the pancreatic lipase and two related enzymes towards different substrate selectivities. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 1997, 3, 55-64.	1.8	21
133	Bis (monoacylglycerol) phosphate interfacial properties and lipolysis by pancreatic lipase-related protein 2, an enzyme present in THP-1 human monocytes. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2011, 1811, 419-430.	2.4	21
134	An ultraviolet spectrophotometric assay for the screening of sn-2-specific lipases using 1,3-O-dioleoyl-2-O- ω -3-eleostearoyl-sn-glycerol as substrate. <i>Journal of Lipid Research</i> , 2012, 53, 185-194.	4.2	21
135	A broad pH range indicator-based spectrophotometric assay for true lipases using tributyrin and tricaprilyn. <i>Journal of Lipid Research</i> , 2015, 56, 1057-1067.	4.2	21
136	Inhibition of CpLIP2 Lipase Hydrolytic Activity by Four Flavonols (Galangin, Kaempferol, Quercetin,) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Molecules</i> , 2019, 24, 2888.	3.8	21
137	Human pancreatic lipase-related protein 2: Tissue localization along the digestive tract and quantification in pancreatic juice using a specific ELISA. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2006, 1760, 1497-1504.	2.4	20
138	Identification of oil palm breeding lines producing oils with low acid values. <i>European Journal of Lipid Science and Technology</i> , 2008, 110, 505-509.	1.5	20
139	An analytical method for determining relative specificities for sequential reactions catalyzed by the same enzyme: General formulation. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2008, 1784, 705-715.	2.3	20
140	Identification of a putative triacylglycerol lipase from papaya latex by functional proteomics. <i>FEBS Journal</i> , 2011, 278, 97-110.	4.7	20
141	Identification of a new phospholipase D in <i>Carica papaya</i> latex. <i>Gene</i> , 2012, 499, 243-249.	2.2	20
142	<i>Yarrowia lipolytica</i> Lipase 2 Is Stable and Highly Active in Test Meals and Increases Fat Absorption in an Animal Model of Pancreatic Exocrine Insufficiency. <i>Gastroenterology</i> , 2015, 149, 1910-1919.e5.	1.3	20
143	Postprandial bile acid levels in intestine and plasma reveal altered biliary circulation in chronic pancreatitis patients. <i>Journal of Lipid Research</i> , 2018, 59, 2202-2213.	4.2	20
144	The 1,2- ω -dilauryl- ω -3-glycerol- ω -3-glutaric acid-(6- α -methylresorufin) ester (DGGR) lipase assay in cats and dogs is not specific for pancreatic lipase. <i>Veterinary Clinical Pathology</i> , 2020, 49, 607-613.	0.7	20

#	ARTICLE	IF	CITATIONS
145	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
146	The galactolipase activity of some microbial lipases and pancreatic enzymes. <i>European Journal of Lipid Science and Technology</i> , 2013, 115, 442-451.	1.5	19
147	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
148	Rapid exchange of pancreatic lipase between triacylglycerol droplets. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2004, 1682, 72-79.	2.4	17
149	An analytical method for determining relative specificities for sequential reactions catalyzed by the same enzyme: Application to the hydrolysis of triacylglycerols by lipases. <i>Journal of Biotechnology</i> , 2008, 133, 343-350.	3.8	17
150	Impact of homogenization of pasteurized human milk on gastric digestion in the preterm infant: A randomized controlled trial. <i>Clinical Nutrition ESPEN</i> , 2017, 20, 1-11.	1.2	17
151	Identification of a new natural gastric lipase inhibitor from star anise. <i>Food and Function</i> , 2019, 10, 469-478.	4.6	17
152	Determination of the quantitative stereoselectivity fingerprint of lipases during hydrolysis of a prochiral triacylglycerol. <i>Journal of Biotechnology</i> , 2008, 135, 168-173.	3.8	16
153	Sensitive assay for hormone-sensitive lipase using NBD-labeled monoacylglycerol to detect low activities in rat adipocytes. <i>Journal of Lipid Research</i> , 2005, 46, 603-614.	4.2	15
154	Constitutive expression of human pancreatic lipase-related protein 1 in <i>Pichia pastoris</i> . <i>Protein Expression and Purification</i> , 2006, 47, 415-421.	1.3	15
155	The galactolipase activity of <i>Fusarium solani</i> (phospho)lipase. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2015, 1851, 282-289.	2.4	15
156	Paraffinic hydrocarbons in heterotrophic, photomixotrophic and photoautotrophic cell suspensions of <i>Euphorbia characias</i> L.. <i>Plant Science</i> , 1990, 71, 93-98.	3.6	14
157	Lipid binding; and activating properties of porcine pancreatic colipase split at the Ile79-Thr80 bond. <i>BBA - Proteins and Proteomics</i> , 1995, 1247, 185-194.	2.1	14
158	Xanthophyll esters are hydrolysed in the presence of recombinant human pancreatic lipase. <i>Food Chemistry</i> , 2007, 103, 651-656.	8.2	14
159	Inhibition of phospholipase A1, lipase and galactolipase activities of pancreatic lipase-related protein 2 by methyl arachidonyl fluorophosphonate (MAFP). <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2012, 1821, 1379-1385.	2.4	14
160	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
161	<i>In vitro</i> digestion of galactolipids from chloroplast-rich fraction (CRF) of postharvest, pea vine field residue (haulm) and spinach leaves. <i>Food and Function</i> , 2019, 10, 7806-7817.	4.6	14
162	Physico-chemical behaviors of human and bovine milk membrane extracts and their influence on gastric lipase adsorption. <i>Biochimie</i> , 2020, 169, 95-105.	2.6	14

#	ARTICLE	IF	CITATIONS
163	Evaluation of vitamin D bioaccessibility and mineral solubility from test meals containing meat and/or cereals and/or pulses using in vitro digestion. <i>Food Chemistry</i> , 2021, 347, 128621.	8.2	14
164	Advantage of Expressing the Variations in Some Digestive Parameters as a Function of Gastric Emptying instead of Time. <i>Digestion</i> , 2001, 64, 46-53.	2.3	13
165	High-level constitutive expression in <i>Pichia pastoris</i> and one-step purification of phospholipase D from cowpea (<i>Vigna unguiculata</i> L. Walp). <i>Protein Expression and Purification</i> , 2007, 51, 162-169.	1.3	13
166	Neutral Lipid Characterization of Non-water-Soluble Fractions of <i>Carica Papaya</i> Latex. <i>JAACS, Journal of the American Oil Chemists' Society</i> , 2010, 87, 987-995.	1.9	13
167	An inactive pancreatic-related protein is activated into a triglyceride-lipase by mutagenesis based on the 3-D structure. <i>Chemistry and Physics of Lipids</i> , 1998, 93, 103-114.	3.2	12
168	Functional expression in insect cells, one-step purification and characterization of a recombinant phospholipase D from cowpea (<i>Vigna unguiculata</i> L. Walp). <i>Protein Engineering, Design and Selection</i> , 2000, 13, 811-817.	2.1	12
169	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
170	Fatty Acid Photodecarboxylase Is an Interfacial Enzyme That Binds to Lipid-Water Interfaces to Access Its Insoluble Substrate. <i>Biochemistry</i> , 2021, 60, 3200-3212.	2.5	12
171	New lipase assay using Pomegranate oil coating in microtiter plates. <i>Biochimie</i> , 2016, 120, 110-118.	2.6	11
172	Constitutive expression of human gastric lipase in <i>Pichia pastoris</i> and site-directed mutagenesis of key lid-stabilizing residues. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2017, 1862, 1025-1034.	2.4	11
173	Functional characterization and FTIR-based 3D modeling of full length and truncated forms of <i>Scorpio maurus</i> venom phospholipase A 2. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 1247-1261.	2.4	11
174	IR spectroscopy analysis of pancreatic lipase-related protein 2 interaction with phospholipids: 1. Discriminative recognition of mixed micelles versus liposomes. <i>Chemistry and Physics of Lipids</i> , 2018, 211, 52-65.	3.2	11
175	Characterization of pepsin from rabbit gastric extract, its action on β -casein and the effects of lipids on proteolysis. <i>Food and Function</i> , 2018, 9, 5975-5988.	4.6	11
176	Oleochemistry potential from Brazil northeastern exotic plants. <i>Biochimie</i> , 2020, 178, 96-104.	2.6	11
177	Regulation of lumen fat digestion: enzymic aspects. <i>Proceedings of the Nutrition Society</i> , 1996, 55, 5-18.	1.0	10
178	Partial deletion of β 29 loop in pancreatic lipase-related protein 2 reduces enzyme activity with a larger effect on long acyl chain substrates. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2013, 1831, 1293-1301.	2.4	10
179	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
180	Targeting TOR signaling for enhanced lipid productivity in algae. <i>Biochimie</i> , 2020, 169, 12-17.	2.6	10

#	ARTICLE	IF	CITATIONS
181	The Kinetics, Specificities and Structural Features of Lipases. , 1996, , 265-304.		10
182	Cleaner degreasing of sheepskins by the <i>Yarrowia lipolytica</i> LIP2 lipase as a chemical-free alternative in the leather industry. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022, 211, 112292.	5.0	10
183	Critical evaluation of a specific ELISA and two enzymatic assays of pancreatic lipases in human sera. <i>Pancreatology</i> , 2004, 4, 495-504.	1.1	8
184	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
185	Lipase Pre-Hydrolysis Enhance Anaerobic Biodigestion of Soap Stock from an Oil Refining Industry. <i>Journal of Oleo Science</i> , 2014, 63, 109-114.	1.4	8
186	Interfacial Properties of NTAIL, an Intrinsically Disordered Protein. <i>Biophysical Journal</i> , 2017, 113, 2723-2735.	0.5	8
187	Screening of phospholipase A activity and its production by new actinomycete strains cultivated by solid-state fermentation. <i>PeerJ</i> , 2017, 5, e3524.	2.0	8
188	Fatty acid patterns of neutral lipids from seeds, leaves and cell suspension cultures of <i>Euphorbia characias</i> . <i>Phytochemistry</i> , 1992, 31, 2351-2353.	2.9	7
189	Specific assay of carboxyl ester hydrolase using PEG esters as substrate. <i>Analytical Methods</i> , 2010, 2, 1013.	2.7	7
190	The Kinetics, Specificities and Structural Features of Lipases. , 1996, , 143-182.		7
191	Reduction in Phosphoribulokinase Amount and Re-Routing Metabolism in <i>Chlamydomonas reinhardtii</i> CP12 Mutants. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2710.	4.1	7
192	Immunocytochemical localization of scorpion digestive lipase. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2006, 1760, 1386-1392.	2.4	6
193	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
194	IR spectroscopy analysis of pancreatic lipase-related protein 2 interaction with phospholipids: 3. Monitoring DPPC lipolysis in mixed micelles. <i>Chemistry and Physics of Lipids</i> , 2018, 211, 77-85.	3.2	6
195	Galactolipase activity of <i>Talaromyces thermophilus</i> lipase on galactolipid micelles, monomolecular films and UV-absorbing surface-coated substrate. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2018, 1863, 1006-1015.	2.4	6
196	In vitro lipolysis by human pancreatic lipase is specifically abolished by its inactive forms. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2003, 1645, 241-246.	2.3	5
197	Closed and open conformations of the lid domain induce different patterns of human pancreatic lipase antigenicity and immunogenicity. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2005, 1753, 247-256.	2.3	5
198	Gastrointestinal Lipolysis Levels and Potential Use of Gastric Lipase in Pancreatic Insufficiency. <i>Clinical Gastroenterology and Hepatology</i> , 2005, 3, 715.	4.4	5

#	ARTICLE	IF	CITATIONS
199	Development of an indirect method for measuring porcine pancreatic lipase in human duodenal fluid. <i>Analytical Biochemistry</i> , 2008, 383, 289-295.	2.4	5
200	Renaturation and one step purification of the chicken GIIA secreted phospholipase A2 from inclusion bodies. <i>International Journal of Biological Macromolecules</i> , 2014, 67, 85-90.	7.5	5
201	Efficient heterologous expression of <i>Fusarium solani</i> lipase, FSL2, in <i>Pichia pastoris</i> , functional characterization of the recombinant enzyme and molecular modeling. <i>International Journal of Biological Macromolecules</i> , 2017, 94, 61-71.	7.5	5
202	IR spectroscopy analysis of pancreatic lipase-related protein 2 interaction with phospholipids: 2. Discriminative recognition of various micellar systems and characterization of PLRP2-DPPC-bile salt complexes. <i>Chemistry and Physics of Lipids</i> , 2018, 211, 66-76.	3.2	5
203	Biogenesis and fate of lipid droplets. <i>Biochimie</i> , 2020, 169, 1-2.	2.6	5
204	Quantitative monitoring of galactolipid hydrolysis by pancreatic lipase-related protein 2 using thin layer chromatography and thymol-sulfuric acid derivatization. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2021, 1173, 122674.	2.3	5
205	Immunological Characterization of Digestive Lipases. , 1999, 109, 239-256.		4
206	The role of pancreatic lipase C2-like domain in enzyme interaction with a lipid-water interface. <i>European Journal of Lipid Science and Technology</i> , 2003, 105, 590-600.	1.5	4
207	Soixante ans de recherche sur la lipolyse enzymatique des corps gras à Marseille. <i>Oleagineux Corps Gras Lipides</i> , 2008, 15, 196-207.	0.2	4
208	Vers des formules infantiles biomimétiques de la structure du lait maternel et de son comportement digestif?. <i>Cahiers De Nutrition Et De Dietetique</i> , 2018, 53, 218-231.	0.3	4
209	Homogeneous triacylglycerol tracers have an impact on the thermal and structural properties of dietary fat and its lipolysis rate under simulated physiological conditions. <i>Chemistry and Physics of Lipids</i> , 2019, 225, 104815.	3.2	4
210	Interfacial organization and phase behavior of mixed galactolipid-DPPC-phytosterol assemblies at the air-water interface and in hydrated mesophases. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022, 217, 112646.	5.0	4
211	Drastic changes in the tissue-specific expression of secreted phospholipases A2 in chicken pulmonary disease. <i>Biochimie</i> , 2012, 94, 451-460.	2.6	3
212	Screening of Gastrointestinal Lipase Inhibitors Produced by Microorganisms Isolated from Soil and Lake Sediments. <i>International Microbiology</i> , 2020, 23, 335-343.	2.4	3
213	Special issue "Bioactive Lipids, Nutrition and Health". <i>Biochimie</i> , 2011, 93, v-vi.	2.6	2
214	Conformational disorder in phosphopeptides: solution studies by CD and NMR techniques. <i>Peptidomics</i> , 2014, 1, .	0.3	2
215	Supported inhibitor for fishing lipases in complex biological media and mass spectrometry identification. <i>Biochimie</i> , 2014, 107, 124-134.	2.6	2
216	Digestibility and oxidative stability of plant lipid assemblies: An underexplored source of potentially bioactive surfactants?. <i>Critical Reviews in Food Science and Nutrition</i> , 2023, 63, 4655-4674.	10.3	2

#	ARTICLE	IF	CITATIONS
217	The digestion of diacylglycerol isomers by gastric and pancreatic lipases and its impact on the metabolic pathways for TAG re-synthesis in enterocytes. <i>Biochimie</i> , 2022, 203, 106-117.	2.6	2
218	Gastrointestinal lipolysis of lipid-based excipients intended for the oral drug delivery of poorly water-soluble drugs. <i>Oleagineux Corps Gras Lipides</i> , 2010, 17, 259-263.	0.2	1
219	Bioaccessibility of essential lipophilic nutrients in a chloroplast-rich fraction (CRF) from agricultural green waste during simulated human gastrointestinal tract digestion. <i>Food and Function</i> , 2022, 13, 5365-5380.	4.6	1
220	Relationships between Structures and Kinetic Properties of Pancreatic Lipases. <i>Annals of the New York Academy of Sciences</i> , 1995, 750, 190-194.	3.8	0
221	Influence of lansoprazole on the human gastric lipase and the intragastric lipolysis in healthy volunteers. <i>Gastroenterology</i> , 2000, 118, A1299.	1.3	0
222	Lipids for the future: From agro-resources to human health. <i>Biochimie</i> , 2009, 91, iv-v.	2.6	0
223	12th Euro Fed Lipid Congress - From Lipidomics to Industrial Innovation. <i>European Journal of Lipid Science and Technology</i> , 2014, 116, 1257-1258.	1.5	0
224	Special issue «Lipids: From (bio)synthesis to function». <i>Biochimie</i> , 2016, 120, 1-2.	2.6	0
225	Purification and biochemical characterization of <i>Yarrowia lipolytica</i> LIP2, a lipase of medical interest for the treatment of pancreatic exocrine insufficiency. <i>FASEB Journal</i> , 2007, 21, A609.	0.5	0