

Vincent Rioux

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

57
papers

1,432
citations

23
h-index

35
g-index

63
ext. papers

1,675
ext. citations

3.8
avg, IF

4.7
L-index

#	Paper	IF	Citations
57	The same rat Delta6-desaturase not only acts on 18- but also on 24-carbon fatty acids in very-long-chain polyunsaturated fatty acid biosynthesis. <i>Biochemical Journal</i> , 2002 , 364, 49-55	3.8	94
56	Linoleic acid: between doubts and certainties. <i>Biochimie</i> , 2014 , 96, 14-21	4.6	87
55	The complex and important cellular and metabolic functions of saturated fatty acids. <i>Lipids</i> , 2010 , 45, 941-6	1.6	62
54	The n-3 docosapentaenoic acid (DPA): A new player in the n-3 long chain polyunsaturated fatty acid family. <i>Biochimie</i> , 2019 , 159, 36-48	4.6	56
53	Saturated fatty acids: simple molecular structures with complex cellular functions. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2007 , 10, 752-8	3.8	56
52	Dietary myristic acid at physiologically relevant levels increases the tissue content of C20:5 n-3 and C20:3 n-6 in the rat. <i>Reproduction, Nutrition, Development</i> , 2005 , 45, 599-612		54
51	May omega-3 fatty acid dietary supplementation help reduce severe complications in Covid-19 patients?. <i>Biochimie</i> , 2020 , 179, 275-280	4.6	52
50	Myristic acid, unlike palmitic acid, is rapidly metabolized in cultured rat hepatocytes. <i>Journal of Nutritional Biochemistry</i> , 2000 , 11, 198-207	6.3	49
49	Distinct roles of endoplasmic reticulum cytochrome b5 and fused cytochrome b5-like domain for rat Delta6-desaturase activity. <i>Journal of Lipid Research</i> , 2004 , 45, 32-40	6.3	46
48	Myristic acid increases delta6-desaturase activity in cultured rat hepatocytes. <i>Reproduction, Nutrition, Development</i> , 2004 , 44, 131-40		45
47	Membrane remodeling, an early event in benzo[a]pyrene-induced apoptosis. <i>Toxicology and Applied Pharmacology</i> , 2010 , 243, 68-76	4.6	41
46	Regulation of mammalian desaturases by myristic acid: N-terminal myristoylation and other modulations. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2011 , 1811, 1-8	5	40
45	The fatty acid desaturase 3 gene encodes for different FADS3 protein isoforms in mammalian tissues. <i>Journal of Lipid Research</i> , 2010 , 51, 472-9	6.3	38
44	Revisiting the metabolism and physiological functions of caprylic acid (C8:0) with special focus on ghrelin octanoylation. <i>Biochimie</i> , 2016 , 120, 40-8	4.6	37
43	Myristic acid increases the activity of dihydroceramide Delta4-desaturase 1 through its N-terminal myristoylation. <i>Biochimie</i> , 2007 , 89, 1553-61	4.6	37
42	Comparative effects of well-balanced diets enriched in linolenic or linoleic acids on LC-PUFA metabolism in rat tissues. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , 2013 , 88, 383-9	2.8	34
41	Trans-vaccenate is Δ^3 -desaturated by FADS3 in rodents. <i>Journal of Lipid Research</i> , 2013 , 54, 3438-52	6.3	34

40	Comparative effect of fenofibrate on hepatic desaturases in wild-type and peroxisome proliferator-activated receptor alpha-deficient mice. <i>Lipids</i> , 2002 , 37, 981-9	1.6	34
39	N-Myristoylation targets dihydroceramide Delta4-desaturase 1 to mitochondria: partial involvement in the apoptotic effect of myristic acid. <i>Biochimie</i> , 2009 , 91, 1411-9	4.6	31
38	Conversion of hexadecanoic acid to hexadecenoic acid by rat Delta 6-desaturase. <i>Journal of Lipid Research</i> , 2003 , 44, 450-4	6.3	28
37	Short chain saturated fatty acids decrease circulating cholesterol and increase tissue PUFA content in the rat. <i>Lipids</i> , 2010 , 45, 975-86	1.6	26
36	In rat hepatocytes, myristic acid occurs through lipogenesis, palmitic acid shortening and lauric acid elongation. <i>Animal</i> , 2007 , 1, 820-6	3.1	24
35	Exogenous myristic acid acylates proteins in cultured rat hepatocytes. <i>Journal of Nutritional Biochemistry</i> , 2002 , 13, 66-74	6.3	24
34	High performance liquid chromatography of fatty acids as naphthacyl derivatives. <i>Analisis - European Journal of Analytical Chemistry</i> , 1999 , 27, 186-193		22
33	Comparative effects of dietary n-3 docosapentaenoic acid (DPA), DHA and EPA on plasma lipid parameters, oxidative status and fatty acid tissue composition. <i>Journal of Nutritional Biochemistry</i> , 2019 , 63, 186-196	6.3	22
32	Identification and characterization of recombinant and native rat myristoyl-CoA: protein N-myristoyltransferases. <i>Molecular and Cellular Biochemistry</i> , 2006 , 286, 161-70	4.2	21
31	Mechanisms involved in lipid accumulation and apoptosis induced by 1-nitropyrene in Hepa1c1c7 cells. <i>Toxicology Letters</i> , 2011 , 206, 289-99	4.4	20
30	Divergent and common groups of proteins in glands of venomous snakes. <i>Electrophoresis</i> , 1998 , 19, 788-96		20
29	Although it is rapidly metabolized in cultured rat hepatocytes, lauric acid is used for protein acylation. <i>Reproduction, Nutrition, Development</i> , 2003 , 43, 419-30		20
28	Synthesis of the suspected trans-11,cis-13 conjugated linoleic acid isomer in ruminant mammary tissue by FADS3-catalyzed Δ^3 -desaturation of vaccenic acid. <i>Journal of Dairy Science</i> , 2017 , 100, 783-796	4	19
27	Substitution of dietary oleic acid for myristic acid increases the tissue storage of Δ^7 linolenic acid and the concentration of docosahexaenoic acid in the brain, red blood cells and plasma in the rat. <i>Animal</i> , 2008 , 2, 636-44	3.1	19
26	Specific roles of saturated fatty acids: Beyond epidemiological data. <i>European Journal of Lipid Science and Technology</i> , 2015 , 117, 1489-1499	3	18
25	The surprising diversity of Delta6-desaturase substrates. <i>Biochemical Society Transactions</i> , 2004 , 32, 86-75.1	5.1	18
24	Protective action of n-3 fatty acids on benzo[a]pyrene-induced apoptosis through the plasma membrane remodeling-dependent NHE1 pathway. <i>Chemico-Biological Interactions</i> , 2014 , 207, 41-51	5	17
23	Dietary Caprylic Acid (C8:0) Does Not Increase Plasma Acylated Ghrelin but Decreases Plasma Unacylated Ghrelin in the Rat. <i>PLoS ONE</i> , 2015 , 10, e0133600	3.7	17

22	Lauric acid is desaturated to 12:1n-3 by hepatocytes and rat liver homogenates. <i>Lipids</i> , 2002 , 37, 569-72	1.6	15
21	Myristic acid increases dihydroceramide β -desaturase 1 (DES1) activity in cultured rat hepatocytes. <i>Lipids</i> , 2012 , 47, 117-28	1.6	12
20	Retroconversion of dietary trans-vaccenic (trans-C18:1 n-7) acid to trans-palmitoleic acid (trans-C16:1 n-7): proof of concept and quantification in both cultured rat hepatocytes and pregnant rats. <i>Journal of Nutritional Biochemistry</i> , 2019 , 63, 19-26	6.3	11
19	Dietary caprylic acid and ghrelin O-acyltransferase activity to modulate octanoylated ghrelin functions: What is new in this nutritional field?. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , 2018 , 135, 121-127	2.8	10
18	Convergence of amino acid compositions of certain groups of protein aids in their identification on two-dimensional electrophoresis gels. <i>Electrophoresis</i> , 1997 , 18, 443-51	3.6	10
17	Conversion of dietary trans-vaccenic acid to trans11,cis13-conjugated linoleic acid in the rat lactating mammary gland by Fatty Acid Desaturase 3-catalyzed methyl-end β 3-desaturation. <i>Biochemical and Biophysical Research Communications</i> , 2018 , 505, 385-391	3.4	10
16	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	5	9
15	Current intakes of -palmitoleic (-C16:1 n-7) and -vaccenic (-C18:1 n-7) acids in France are exclusively ensured by ruminant milk and ruminant meat: A market basket investigation. <i>Food Chemistry: X</i> , 2020 , 5, 100081	4.7	9
14	Beneficial impact of a mix of dairy fat with rapeseed oil on n-6 and n-3 PUFA metabolism in the rat: A small enrichment in dietary alpha-linolenic acid greatly increases its conversion to DHA in the liver. <i>European Journal of Lipid Science and Technology</i> , 2015 , 117, 281-290	3	8
13	Fatty acid acylation of proteins: specific roles for palmitic, myristic and caprylic acids. <i>OCL - Oilseeds and Fats, Crops and Lipids</i> , 2016 , 23, D304	1.5	8
12	Incorporation of Dairy Lipids in the Diet Increased Long-Chain Omega-3 Fatty Acids Status in Post-weaning Rats. <i>Frontiers in Nutrition</i> , 2018 , 5, 42	6.2	8
11	Influence of the cis-9, cis-12 and cis-15 double bond position in octadecenoic acid (18:1) isomers on the rat FADS2-catalyzed β -desaturation. <i>Chemistry and Physics of Lipids</i> , 2015 , 187, 10-9	3.7	8
10	Impact of n-3 Docosapentaenoic Acid Supplementation on Fatty Acid Composition in Rat Differs Depending upon Tissues and Is Influenced by the Presence of Dairy Lipids in the Diet. <i>Journal of Agricultural and Food Chemistry</i> , 2018 , 66, 9976-9988	5.7	7
9	Métabolisme et fonctions de l'acide myristique. <i>Oleagineux Corps Gras Lipides</i> , 2001 , 8, 161-166		6
8	l'acylation des protéines: une fonction cellulaire importante des acides gras saturés. <i>Nutrition Clinique Et Métabolisme</i> , 2013 , 27, 10-19	0.8	5
7	Trans-palmitoleic acid (trans-9-C16:1, or trans-C16:1 n-7): Nutritional impacts, metabolism, origin, compositional data, analytical methods and chemical synthesis. A review. <i>Biochimie</i> , 2020 , 169, 144-160	4.6	5
6	Benefits of natural dietarytransfatty acids towards inflammation, obesity and type 2 diabetes: defining the n-7transfatty acid family. <i>OCL - Oilseeds and Fats, Crops and Lipids</i> , 2019 , 26, 46	1.5	5
5	Moderate chronic ethanol consumption exerts beneficial effects on nonalcoholic fatty liver in mice fed a high-fat diet: possible role of higher formation of triglycerides enriched in monounsaturated fatty acids. <i>European Journal of Nutrition</i> , 2020 , 59, 1619-1632	5.2	5

- 4 Fatty Acid Desaturase 3 (FADS3) Is a Specific Δ^3 -Desaturase of Ruminant trans-Vaccenic Acid. *Lifestyle Genomics*, **2019**, 12, 18-24 2 2
- 3 Chemical Synthesis and Isolation of Trans-Palmitoleic Acid (Trans-C16:1 n-7) Suitable for Nutritional Studies. *European Journal of Lipid Science and Technology*, **2020**, 122, 1900409 3
- 2 Nutritional Significance of Milk Lipids: From Bioactive Fatty Acids to Supramolecular Structures Impacting Metabolism **2020**, 307-344
- 1 Acides gras saturés et acylation des protéines : des aspects fonctionnels [Approche nutritionnelle]. *Cahiers De Nutrition Et De Diététique*, **2016**, 51, 296-303 0.2