Gwendolyn BarcelÃ³-Coblijn

List of Publications by Year
in descending order

43 papers	3,347 citations	279487 23 h-index	253896 43 g-index
43 all docs	43 docs citations	43 times ranked	4758 citing authors

#	Article	IF	Citations
1	Alpha-linolenic acid and its conversion to longer chain nâ^'3 fatty acids: Benefits for human health and a role in maintaining tissue nâ^'3 fatty acid levels. Progress in Lipid Research, 2009, 48, 355-374.	5.3	447
2	Oleic acid content is responsible for the reduction in blood pressure induced by olive oil. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 13811-13816.	3.3	386
3	Membranes: a meeting point for lipids, proteins and therapies. Journal of Cellular and Molecular Medicine, 2008, 12, 829-875.	1.6	348
4	The role of n-3 polyunsaturated fatty acids in brain: Modulation of rat brain gene expression by dietary n-3 fatty acids. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 2619-2624.	3.3	285
5	Mitochondrial Lipid Abnormality and Electron Transport Chain Impairment in Mice Lacking Î±-Synuclein. Molecular and Cellular Biology, 2005, 25, 10190-10201.	1.1	233
6	Short-term administration of omega 3 fatty acids from fish oil results in increased transthyretin transcription in old rat hippocampus. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 1580-1585.	3.3	160
7	Flaxseed oil and fish-oil capsule consumption alters human red blood cell nâ€“3 fatty acid composition: a multiple-dosing trial comparing 2 sources of nâ€“3 fatty acid. American Journal of Clinical Nutrition, 2008, 88, 801-809.	2.2	159
8	Sphingomyelin and sphingomyelin synthase (SMS) in the malignant transformation of glioma cells and in 2-hydroxyoleic acid therapy. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 19569-19574.	3.3	142
9	Modification by docosahexaenoic acid of age-induced alterations in gene expression and molecular composition of rat brain phospholipids. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 11321-11326.	3.3	137
10	Brain neutral lipids mass is increased in Î±-synuclein gene-ablated mice. Journal of Neurochemistry, 2006, 101, 132-141.	2.1	99
11	2-Hydroxyoleate, a nontoxic membrane binding anticancer drug, induces glioma cell differentiation and autophagy. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 8489-8494.	3.3	95
12	Gene expression and molecular composition of phospholipids in rat brain in relation to dietary nâ^'6 to nâ^'3 fatty acid ratio. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2003, 1632, 72-79.	1.2	87
13	The role of Î±-synuclein in brain lipid metabolism: a downstream impact on brain inflammatory response. Molecular and Cellular Biochemistry, 2009, 326, 55-66.	1.4	69
14	Effect of processing flax in beef feedlot diets on performance, carcass characteristics, and trained sensory panel ratings1. Journal of Animal Science, 2006, 84, 1544-1551.	0.2	64
15	Dietary Î±-linolenic acid increases brain but not heart and liver docosahexaenoic acid levels. Lipids, 2005, 40, 787-798.	0.7	57
16	Membrane lipid modifications and therapeutic effects mediated by hydroxydocosahexaenoic acid on Alzheimer's disease. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 1680-1692.	1.4	50
17	Heart Fatty Acid Uptake Is Decreased in Heart Fatty Acid-binding Protein Gene-ablated Mice. Journal of Biological Chemistry, 2004, 279, 34481-34488.	1.6	49
18	Bovine muscle nâ^'3 fatty acid content is increased with flaxseed feeding. Lipids, 2006, 41, 1059-1068.	0.7	47

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19	Imaging mass spectrometry increased resolution using 2-mercaptobenzothiazole and 2,5-diaminonaphtalene matrices: application to lipid distribution in human colon. Analytical and Bioanalytical Chemistry, 2015, 407, 4697-4708.	1.9	40
20	The role of membrane fatty acid remodeling in the antitumor mechanism of action of 2-hydroxyoleic acid. Biochimica Et Biophysica Acta - Biomembranes, 2013, 1828, 1405-1413.	1.4	39
21	Flaxseed Treatments to Reduce Biohydrogenation of Î±â€Linolenic Acid by Rumen Microbes in Cattle. Lipids, 2007, 42, 1105-1111.	0.7	38
22	Differential effect of 2-hydroxyoleic acid enantiomers on protein (sphingomyelin synthase) and lipid (membrane) targets. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 1628-1637.	1.4	29
23	Tissue-selective alteration of ethanolamine plasmalogen metabolism in dedifferentiated colon mucosa. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2018, 1863, 928-938.	1.2	27
24	Identification of Biomarkers of Necrosis in Xenografts Using Imaging Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2016, 27, 244-254.	1.2	26
25	Lipid fingerprint image accurately conveys human colon cell pathophysiologic state: A solid candidate as biomarker. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2016, 1861, 1942-1950.	1.2	25
26	Immune Landscape in Tumor Microenvironment: Implications for Biomarker Development and Immunotherapy. International Journal of Molecular Sciences, 2020, 21, 5521.	1.8	25
27	Mass spectrometry coupled to imaging techniques: the better the view the greater the challenge. Frontiers in Physiology, 2015, 6, 3.	1.3	24
28	Analysis of the Lipidome of Xenografts Using MALDI-IMS and UHPLC-ESI-QTOF. Journal of the American Society for Mass Spectrometry, 2014, 25, 1237-1246.	1.2	20
29	Fatty Acid Unsaturation Degree of Plasma Exosomes in Colorectal Cancer Patients: A Promising Biomarker. International Journal of Molecular Sciences, 2021, 22, 5060.	1.8	19
30	Common and Differential Traits of the Membrane Lipidome of Colon Cancer Cell Lines and Their Secreted Vesicles: Impact on Studies Using Cell Lines. Cancers, 2020, 12, 1293.	1.7	19
31	Normalization of sphingomyelin levels by 2-hydroxyoleic acid induces autophagic cell death of SF767 cancer cells. Autophagy, 2012, 8, 1542-1544.	4.3	14
32	Sustained activation of sphingomyelin synthase by 2-hydroxyoleic acid induces sphingolipidosis in tumor cells. Journal of Lipid Research, 2013, 54, 1457-1465.	2.0	14
33	Prenatal Ethanol Exposure Increases Brain Cholesterol Content in Adult Rats. Lipids, 2013, 48, 1059-1068.	0.7	11
34	Optimized Protocol To Analyze Changes in the Lipidome of Xenografts after Treatment with 2-Hydroxyoleic Acid. Analytical Chemistry, 2016, 88, 1022-1029.	3.2	9
35	Ins and Outs of Interpreting Lipidomic Results. Journal of Molecular Biology, 2019, 431, 5039-5062.	2.0	9
36	Confirmation of sub-cellular resolution using oversampling imaging mass spectrometry. Analytical and Bioanalytical Chemistry, 2019, 411, 7935-7941.	1.9	9

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37	An Improved Method for Separating Cardiolipin by HPLC. Lipids, 2008, 43, 971-976.	0.7	7
38	Rump and shoulder muscles from grass and linseed fed cattle as important sources of nâ€3 fatty acids for beef consumers. European Journal of Lipid Science and Technology, 2017, 119, 1600390.	1.0	6
39	Editorial of Special Issue â€œThe Interplay of Microbiome and Immune Response in Health and Diseasesâ€. International Journal of Molecular Sciences, 2019, 20, 3708.	1.8	5
40	Improving Spatial Resolution of a LTQ Orbitrap MALDI Source. Journal of the American Society for Mass Spectrometry, 2020, 31, 1755-1758.	1.2	5
41	Polyunsaturated Fatty Acid-Enriched Lipid Fingerprint of Glioblastoma Proliferative Regions Is Differentially Regulated According to Glioblastoma Molecular Subtype. International Journal of Molecular Sciences, 2022, 23, 2949.	1.8	5
42	P465Lâ€PPARÎ³ mutation confers partial resistance to the hypolipidaemic action of fibrates. Diabetes, Obesity and Metabolism, 2018, 20, 2339-2350.	2.2	4
43	A Drastic Shift in Lipid Adducts in Colon Cancer Detected by MALDI-IMS Exposes Alterations in Specific K+ Channels. Cancers, 2021, 13, 1350.	1.7	4