

# Gwendolyn BarcelÃ³-Coblijn

## List of Publications by Year in descending order

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43  
papers

3,347  
citations

279798  
23  
h-index

254184  
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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 n-3 fatty acids: Benefits for human health and a role in maintaining tissue n-3 fatty acid levels. <i>Progress in Lipid Research</i> , 2009, 48, 355-374.	11.6	447
2	Oleic acid content is responsible for the reduction in blood pressure induced by olive oil. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 13811-13816.	7.1	386
3	Membranes: a meeting point for lipids, proteins and therapies. <i>Journal of Cellular and Molecular Medicine</i> , 2008, 12, 829-875.	3.6	348
4	The role of n-3 polyunsaturated fatty acids in brain: Modulation of rat brain gene expression by dietary n-3 fatty acids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 2619-2624.	7.1	285
5	Mitochondrial Lipid Abnormality and Electron Transport Chain Impairment in Mice Lacking Î±-Synuclein. <i>Molecular and Cellular Biology</i> , 2005, 25, 10190-10201.	2.3	233
6	Short-term administration of omega 3 fatty acids from fish oil results in increased transthyretin transcription in old rat hippocampus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 1580-1585.	7.1	160
7	Flaxseed oil and fish-oil capsule consumption alters human red blood cell n-3 fatty acid composition: a multiple-dosing trial comparing 2 sources of n-3 fatty acid. <i>American Journal of Clinical Nutrition</i> , 2008, 88, 801-809.	4.7	159
8	Sphingomyelin and sphingomyelin synthase (SMS) in the malignant transformation of glioma cells and in 2-hydroxyoleic acid therapy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 19569-19574.	7.1	142
9	Modification by docosahexaenoic acid of age-induced alterations in gene expression and molecular composition of rat brain phospholipids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 11321-11326.	7.1	137
10	Brain neutral lipids mass is increased in Î±-synuclein gene-ablated mice. <i>Journal of Neurochemistry</i> , 2006, 101, 132-141.	3.9	99
11	2-Hydroxyoleate, a nontoxic membrane binding anticancer drug, induces glioma cell differentiation and autophagy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 8489-8494.	7.1	95
12	Gene expression and molecular composition of phospholipids in rat brain in relation to dietary n-6 to n-3 fatty acid ratio. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2003, 1632, 72-79.	2.4	87
13	The role of Î±-synuclein in brain lipid metabolism: a downstream impact on brain inflammatory response. <i>Molecular and Cellular Biochemistry</i> , 2009, 326, 55-66.	3.1	69
14	Effect of processing flax in beef feedlot diets on performance, carcass characteristics, and trained sensory panel ratings <sup>1</sup> . <i>Journal of Animal Science</i> , 2006, 84, 1544-1551.	0.5	64
15	Dietary Î±-linolenic acid increases brain but not heart and liver docosahexaenoic acid levels. <i>Lipids</i> , 2005, 40, 787-798.	1.7	57
16	Membrane lipid modifications and therapeutic effects mediated by hydroxydocosahexaenoic acid on Alzheimer's disease. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014, 1838, 1680-1692.	2.6	50
17	Heart Fatty Acid Uptake Is Decreased in Heart Fatty Acid-binding Protein Gene-ablated Mice. <i>Journal of Biological Chemistry</i> , 2004, 279, 34481-34488.	3.4	49
18	Bovine muscle n-3 fatty acid content is increased with flaxseed feeding. <i>Lipids</i> , 2006, 41, 1059-1068.	1.7	47

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19	Imaging mass spectrometry increased resolution using 2-mercaptobenzothiazole and 2,5-diaminonaphthalene matrices: application to lipid distribution in human colon. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 4697-4708.	3.7	40
20	The role of membrane fatty acid remodeling in the antitumor mechanism of action of 2-hydroxyoleic acid. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013, 1828, 1405-1413.	2.6	39
21	Flaxseed Treatments to Reduce Biohydrogenation of $\omega$ -6 Linolenic Acid by Rumen Microbes in Cattle. <i>Lipids</i> , 2007, 42, 1105-1111.	1.7	38
22	Differential effect of 2-hydroxyoleic acid enantiomers on protein (sphingomyelin synthase) and lipid (membrane) targets. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014, 1838, 1628-1637.	2.6	29
23	Tissue-selective alteration of ethanolamine plasmalogen metabolism in dedifferentiated colon mucosa. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2018, 1863, 928-938.	2.4	27
24	Identification of Biomarkers of Necrosis in Xenografts Using Imaging Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 244-254.	2.8	26
25	Lipid fingerprint image accurately conveys human colon cell pathophysiologic state: A solid candidate as biomarker. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2016, 1861, 1942-1950.	2.4	25
26	Immune Landscape in Tumor Microenvironment: Implications for Biomarker Development and Immunotherapy. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5521.	4.1	25
27	Mass spectrometry coupled to imaging techniques: the better the view the greater the challenge. <i>Frontiers in Physiology</i> , 2015, 6, 3.	2.8	24
28	Analysis of the Lipidome of Xenografts Using MALDI-IMS and UHPLC-ESI-QTOF. <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 1237-1246.	2.8	20
29	Fatty Acid Unsaturation Degree of Plasma Exosomes in Colorectal Cancer Patients: A Promising Biomarker. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5060.	4.1	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. <i>Cancers</i> , 2020, 12, 1293.	3.7	19
31	Normalization of sphingomyelin levels by 2-hydroxyoleic acid induces autophagic cell death of SF767 cancer cells. <i>Autophagy</i> , 2012, 8, 1542-1544.	9.1	14
32	Sustained activation of sphingomyelin synthase by 2-hydroxyoleic acid induces sphingolipidosis in tumor cells. <i>Journal of Lipid Research</i> , 2013, 54, 1457-1465.	4.2	14
33	Prenatal Ethanol Exposure Increases Brain Cholesterol Content in Adult Rats. <i>Lipids</i> , 2013, 48, 1059-1068.	1.7	11
34	Optimized Protocol To Analyze Changes in the Lipidome of Xenografts after Treatment with 2-Hydroxyoleic Acid. <i>Analytical Chemistry</i> , 2016, 88, 1022-1029.	6.5	9
35	Ins and Outs of Interpreting Lipidomic Results. <i>Journal of Molecular Biology</i> , 2019, 431, 5039-5062.	4.2	9
36	Confirmation of sub-cellular resolution using oversampling imaging mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 7935-7941.	3.7	9

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37	An Improved Method for Separating Cardiolipin by HPLC. <i>Lipids</i> , 2008, 43, 971-976.	1.7	7
38	Rump and shoulder muscles from grass and linseed fed cattle as important sources of n-3 fatty acids for beef consumers. <i>European Journal of Lipid Science and Technology</i> , 2017, 119, 1600390.	1.5	6
39	Editorial of Special Issue "The Interplay of Microbiome and Immune Response in Health and Diseases". <i>International Journal of Molecular Sciences</i> , 2019, 20, 3708.	4.1	5
40	Improving Spatial Resolution of a LTQ Orbitrap MALDI Source. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 1755-1758.	2.8	5
41	Polyunsaturated Fatty Acid-Enriched Lipid Fingerprint of Glioblastoma Proliferative Regions Is Differentially Regulated According to Glioblastoma Molecular Subtype. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2949.	4.1	5
42	P465L-PPAR $\beta$ mutation confers partial resistance to the hypolipidaemic action of fibrates. <i>Diabetes, Obesity and Metabolism</i> , 2018, 20, 2339-2350.	4.4	4
43	A Drastic Shift in Lipid Adducts in Colon Cancer Detected by MALDI-IMS Exposes Alterations in Specific K <sup>+</sup> Channels. <i>Cancers</i> , 2021, 13, 1350.	3.7	4