

# Laura Bindila

## List of Publications by Year in descending order

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65  
papers

2,175  
citations

186265

28  
h-index

254184

43  
g-index

66  
all docs

66  
docs citations

66  
times ranked

2785  
citing authors

#	ARTICLE	IF	CITATIONS
1	A runner's high depends on cannabinoid receptors in mice. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13105-13108.	7.1	153
2	Anxiety, Stress, and Fear Response in Mice With Reduced Endocannabinoid Levels. Biological Psychiatry, 2016, 79, 858-868.	1.3	142
3	Adipocyte cannabinoid receptor CB1 regulates energy homeostasis and alternatively activated macrophages. Journal of Clinical Investigation, 2017, 127, 4148-4162.	8.2	128
4	Therapeutic Potential of Inhibitors of Endocannabinoid Degradation for the Treatment of Stress-Related Hyperalgesia in an Animal Model of Chronic Pain. Neuropsychopharmacology, 2015, 40, 488-501.	5.4	116
5	Fully-automated chip-based nanoelectrospray tandem mass spectrometry of gangliosides from human cerebellum. Journal of the American Society for Mass Spectrometry, 2004, 15, 1649-1657.	2.8	74
6	Human gliosarcoma-associated ganglioside composition is complex and distinctive as evidenced by high-performance mass spectrometric determination and structural characterization. Glycobiology, 2007, 17, 504-515.	2.5	71
7	Age-related changes in the endocannabinoid system in the mouse hippocampus. Mechanisms of Ageing and Development, 2015, 150, 55-64.	4.6	68
8	Peripheral and central CB1 cannabinoid receptors control stress-induced impairment of memory consolidation. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9904-9909.	7.1	63
9	Adverse Social Experiences in Adolescent Rats Result in Enduring Effects on Social Competence, Pain Sensitivity and Endocannabinoid Signaling. Frontiers in Behavioral Neuroscience, 2016, 10, 203.	2.0	60
10	Screening and sequencing of complex sialylated and sulfated glycosphingolipid mixtures by negative ion electrospray Fourier transform ion cyclotron resonance mass spectrometry. Journal of the American Society for Mass Spectrometry, 2005, 16, 571-580.	2.8	56
11	Chip electrospray mass spectrometry for carbohydrate analysis. Electrophoresis, 2005, 26, 3650-3673.	2.4	56
12	Endocannabinoid anandamide mediates hypoxic pulmonary vasoconstriction. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 18710-18715.	7.1	50
13	Pharmacological blockade of the fatty acid amide hydrolase (FAAH) alters neural proliferation, apoptosis and gliosis in the rat hippocampus, hypothalamus and striatum in a negative energy context. Frontiers in Cellular Neuroscience, 2015, 9, 98.	3.7	43
14	Chip mass spectrometry for glycomic studies. Mass Spectrometry Reviews, 2009, 28, 223-253.	5.4	41
15	Cerebrospinal fluid endocannabinoid levels in Gilles de la Tourette syndrome. Neuropsychopharmacology, 2020, 45, 1323-1329.	5.4	41
16	Thin chip microsyringe system coupled to quadrupole time-of-flight mass spectrometer for glycoconjugate analysis. Lab on A Chip, 2005, 5, 298.	6.0	39
17	Targeting brain and peripheral plasticity of the lipidome in acute kainic acid-induced epileptic seizures in mice via quantitative mass spectrometry. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2017, 1862, 255-267.	2.4	39
18	Impaired anandamide/palmitoylethanolamide signaling in hippocampal glutamatergic neurons alters synaptic plasticity, learning, and emotional responses. Neuropsychopharmacology, 2019, 44, 1377-1388.	5.4	39

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19	Structural characterization of PEGylated rHuG-CSF and location of PEG attachment sites. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2007, 44, 388-395.	2.8	37
20	On-Line Nano-HPLC/ESI QTOF MS and Tandem MS for Separation, Detection, and Structural Elucidation of Human Erythrocytes Neutral Glycosphingolipid Mixture. <i>Analytical Chemistry</i> , 2008, 80, 4711-4722.	6.5	35
21	Impaired 2-AG Signaling in Hippocampal Glutamatergic Neurons: Aggravation of Anxiety-Like Behavior and Unaltered Seizure Susceptibility. <i>International Journal of Neuropsychopharmacology</i> , 2016, 19, pyv091.	2.1	33
22	A thin chip microsyringe system coupled to Fourier transform ion cyclotron resonance mass spectrometry for glycopeptide screening. <i>Rapid Communications in Mass Spectrometry</i> , 2004, 18, 2913-2920.	1.5	32
23	Off-line capillary electrophoresis/fully automated nanoelectrospray chip quadrupole time-of-flight mass spectrometry and tandem mass spectrometry for glycoconjugate analysis. <i>Journal of Mass Spectrometry</i> , 2004, 39, 1190-1201.	1.6	32
24	Sheathless reverse-polarity capillary electrophoresis-electrospray-mass spectrometry for analysis of underivatized glycoconjugates. <i>Electrophoresis</i> , 2005, 26, 1488-1499.	2.4	32
25	A sialylation study of mouse brain gangliosides by MALDI $\alpha$ -TOF and $\alpha$ -TOF mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2008, 43, 716-725.	1.6	32
26	On-line nano-HPLC/ESI QTOF MS monitoring of $\alpha$ 3 and $\alpha$ 6 sialylation in granulocyte glycosphingolipidome. <i>Biological Chemistry</i> , 2009, 390, 657-72.	2.5	32
27	Extraction and Simultaneous Quantification of Endocannabinoids and Endocannabinoid-Like Lipids in Biological Tissues. <i>Methods in Molecular Biology</i> , 2016, 1412, 9-18.	0.9	32
28	Sialylation analysis of O-glycosylated sialylated peptides from urine of patients suffering from Schindler's disease by Fourier transform ion cyclotron resonance mass spectrometry and sustained off-resonance irradiation collision-induced dissociation. <i>Rapid Communications in Mass Spectrometry</i> , 2003, 17, 2822-2832.	1.5	31
29	Electroconvulsive therapy enhances endocannabinoids in the cerebrospinal fluid of patients with major depression: a preliminary prospective study. <i>European Archives of Psychiatry and Clinical Neuroscience</i> , 2017, 267, 781-786.	3.2	31
30	Antiepileptogenic Effect of Subchronic Palmitoylethanolamide Treatment in a Mouse Model of Acute Epilepsy. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 67.	2.9	28
31	Accelerated on-column lysine derivatization and cysteine methylation by imidazole reaction in a deuterated environment for enhanced product ion analysis. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 694-702.	1.5	25
32	Exposure to a Highly Caloric Palatable Diet During Pregestational and Gestational Periods Affects Hypothalamic and Hippocampal Endocannabinoid Levels at Birth and Induces Adiposity and Anxiety-Like Behaviors in Male Rat Offspring. <i>Frontiers in Behavioral Neuroscience</i> , 2016, 9, 339.	2.0	25
33	Impaired border zone formation and adverse remodeling after reperfused myocardial infarction in cannabinoid CB2 receptor deficient mice. <i>Life Sciences</i> , 2015, 138, 8-17.	4.3	24
34	Nano-LC and HPLC-chip-ESI-MS: an emerging technique for glycobioanalysis. <i>Bioanalysis</i> , 2009, 1, 1307-1327.	1.5	23
35	Automated normal phase nano high performance liquid chromatography/matrix assisted laser desorption/ionization mass spectrometry for analysis of neutral and acidic glycosphingolipids. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 391, 289-297.	3.7	22
36	Maternal Caloric Restriction Implemented during the Preconceptional and Pregnancy Period Alters Hypothalamic and Hippocampal Endocannabinoid Levels at Birth and Induces Overweight and Increased Adiposity at Adulthood in Male Rat Offspring. <i>Frontiers in Behavioral Neuroscience</i> , 2016, 10, 208.	2.0	22

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37	Pharmacological activation of CB2 receptors counteracts the deleterious effect of ethanol on cell proliferation in the main neurogenic zones of the adult rat brain. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 379.	3.7	21
38	Quantitative profiling of endocannabinoids in lipoproteins by LC-MS/MS. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 5125-5131.	3.7	21
39	Sequencing of O-Glycopeptides Derived from an S-Layer Glycoprotein of <i>Geobacillus stearothermophilus</i> NRS 2004/3a Containing up to 51 Monosaccharide Residues at a Single Glycosylation Site by Fourier Transform Ion Cyclotron Resonance Infrared Multiphoton Dissociation Mass Spectrometry. <i>Analytical Chemistry</i> , 2007, 79, 3271-3279.	6.5	20
40	Age-related regulation of bone formation by the sympathetic cannabinoid CB1 receptor. <i>Bone</i> , 2018, 108, 34-42.	2.9	20
41	Biomarkers for Antidepressant Efficacy of Electroconvulsive Therapy: An Exploratory Cerebrospinal Fluid Study. <i>Neuropsychobiology</i> , 2019, 77, 13-22.	1.9	20
42	Masturbation to Orgasm Stimulates the Release of the Endocannabinoid 2-Arachidonoylglycerol in Humans. <i>Journal of Sexual Medicine</i> , 2017, 14, 1372-1379.	0.6	19
43	Separation and identification of GM1b pathway Neu5Ac- and Neu5Gc gangliosides by on-line nanoHPLC-QToF MS and tandem MS: toward glycolipidomics screening of animal cell lines. <i>Glycobiology</i> , 2010, 20, 118-126.	2.5	18
44	Lipid metabolism adaptations are reduced in human compared to murine Schwann cells following injury. <i>Nature Communications</i> , 2020, 11, 2123.	12.8	18
45	Lack of hippocampal CB1 receptor desensitization by $\delta^9$ -tetrahydrocannabinol in aged mice and by low doses of JZL 184. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2016, 389, 603-612.	3.0	17
46	Myeloid-Specific Deletion of Diacylglycerol Lipase $\alpha$ Inhibits Atherogenesis in ApoE-Deficient Mice. <i>PLoS ONE</i> , 2016, 11, e0146267.	2.5	16
47	Broad Lipidomic and Transcriptional Changes of Prophylactic PEA Administration in Adult Mice. <i>Frontiers in Neuroscience</i> , 2019, 13, 527.	2.8	16
48	Myocardial maladaptation to pressure overload in CB2 receptor-deficient mice. <i>Journal of Molecular and Cellular Cardiology</i> , 2019, 133, 86-98.	1.9	16
49	Prophylactic Palmitoylethanolamide Prolongs Survival and Decreases Detrimental Inflammation in Aged Mice With Bacterial Meningitis. <i>Frontiers in Immunology</i> , 2018, 9, 2671.	4.8	15
50	A moderate diet restriction during pregnancy alters the levels of endocannabinoids and endocannabinoid-related lipids in the hypothalamus, hippocampus and olfactory bulb of rat offspring in a sex-specific manner. <i>PLoS ONE</i> , 2017, 12, e0174307.	2.5	15
51	Mass Spectrometry-Based Glycoproteomic Approach Involving Lysine Derivatization for Structural Characterization of Recombinant Human Erythropoietin. <i>Journal of Proteome Research</i> , 2006, 5, 3066-3076.	3.7	14
52	Determination of dithiothreitol in complex protein mixtures by HPLC-MS. <i>Journal of Separation Science</i> , 2008, 31, 3489-3496.	2.5	13
53	The structural basis of blood group A-related glycolipids in an A3 red cell phenotype and a potential explanation to a serological phenomenon. <i>Glycobiology</i> , 2011, 21, 162-174.	2.5	13
54	Restricted vs. unrestricted wheel running in mice: Effects on brain, behavior and endocannabinoids. <i>Hormones and Behavior</i> , 2016, 86, 45-54.	2.1	13

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55	The novel seizure quality index for the antidepressant outcome prediction in electroconvulsive therapy: association with biomarkers in the cerebrospinal fluid. <i>European Archives of Psychiatry and Clinical Neuroscience</i> , 2020, 270, 911-919.	3.2	12
56	Software utilities for the interpretation of mass spectrometric data of glycoconjugates: application to glycosphingolipids of human serum. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 1039-1048.	1.5	8
57	Activation of Endocannabinoid System Is Associated with Persistent Inflammation in Human Aortic Aneurysm. <i>BioMed Research International</i> , 2015, 2015, 1-13.	1.9	8
58	Altered brain levels of arachidonic acid-derived inflammatory eicosanoids in a rodent model of anorexia nervosa. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2020, 1865, 158578.	2.4	8
59	Characterization of peptides by capillary zone electrophoresis and electrospray ionization quadrupole time-of-flight tandem mass spectrometry. <i>Journal of Separation Science</i> , 2002, 25, 1101-1111.	2.5	7
60	Endocannabinoid 2-arachidonoylglycerol is elevated in the coronary circulation during acute coronary syndrome. <i>PLoS ONE</i> , 2019, 14, e0227142.	2.5	7
61	O-2050 facilitates noradrenaline release and increases the CB1 receptor inverse agonistic effect of rimonabant in the guinea pig hippocampus. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2014, 387, 621-628.	3.0	5
62	Developmental programming of somatic growth, behavior and endocannabinoid metabolism by variation of early postnatal nutrition in a cross-fostering mouse model. <i>PLoS ONE</i> , 2017, 12, e0182754.	2.5	5
63	Endocannabinoid Levels in Newborns in Relation to the Mode of Delivery. <i>American Journal of Perinatology</i> , 2015, 32, 1145-1150.	1.4	2
64	Salivary endocannabinoids as mediators in the relationship between omega-6 and omega-3 fatty acid ratio intake from highly-processed foods and anthropometric markers of health in women. <i>International Journal of Food Sciences and Nutrition</i> , 2020, 71, 235-241.	2.8	1
65	Behavioral Studies of p62 KO Animals with Implications of a Modulated Function of the Endocannabinoid System. <i>Cells</i> , 2022, 11, 1517.	4.1	0