

# Krishna Rao Maddipati

## List of Publications by Year in descending order

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89  
papers

3,505  
citations

109137

35  
h-index

149479

56  
g-index

94  
all docs

94  
docs citations

94  
times ranked

5604  
citing authors

#	ARTICLE	IF	CITATIONS
1	Harmonizing lipidomics: NIST interlaboratory comparison exercise for lipidomics using SRM 1950â€“Metabolites in Frozen Human Plasma. <i>Journal of Lipid Research</i> , 2017, 58, 2275-2288.	2.0	312
2	Endoplasmic reticulum-tethered transcription factor cAMP responsive element-binding protein, hepatocyte specific, regulates hepatic lipogenesis, fatty acid oxidation, and lipolysis upon metabolic stress in mice. <i>Hepatology</i> , 2012, 55, 1070-1082.	3.6	163
3	Identification of the Orphan G Protein-coupled Receptor GPR31 as a Receptor for 12-(S)-Hydroxyeicosatetraenoic Acid. <i>Journal of Biological Chemistry</i> , 2011, 286, 33832-33840.	1.6	156
4	Human inflammatory and resolving lipid mediator responses to resistance exercise and ibuprofen treatment. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2013, 305, R1281-R1296.	0.9	136
5	Inhibition of 5-lipoxygenase by vitamin E. <i>FEBS Letters</i> , 1985, 193, 39-43.	1.3	123
6	Purification and Characterization of Prostaglandin H Synthase-2 from Sheep Placental Cotyledons. <i>Archives of Biochemistry and Biophysics</i> , 1995, 324, 26-34.	1.4	113
7	Phytochemical Antioxidants Modulate Mammalian Cellular Epigenome: Implications in Health and Disease. <i>Antioxidants and Redox Signaling</i> , 2012, 17, 327-339.	2.5	105
8	[29] Purification of arachidonate 5-lipoxygenase from potato tubers. <i>Methods in Enzymology</i> , 1990, 187, 268-277.	0.4	84
9	Maresin 1 attenuates neuroinflammation in a mouse model of perioperative neurocognitive disorders. <i>British Journal of Anaesthesia</i> , 2019, 122, 350-360.	1.5	83
10	Eicosanomic profiling reveals dominance of the epoxygenase pathway in human amniotic fluid at term in spontaneous labor. <i>FASEB Journal</i> , 2014, 28, 4835-4846.	0.2	80
11	Adipogenic role of alternatively activated macrophages in $\beta^2$ -adrenergic remodeling of white adipose tissue. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016, 310, R55-R65.	0.9	77
12	12/15-Lipoxygenase-Derived Lipid Metabolites Induce Retinal Endothelial Cell Barrier Dysfunction: Contribution of NADPH Oxidase. <i>PLoS ONE</i> , 2013, 8, e57254.	1.1	77
13	Increased Expression and Activity of 12-Lipoxygenase in Oxygen-Induced Ischemic Retinopathy and Proliferative Diabetic Retinopathy. <i>Diabetes</i> , 2011, 60, 614-624.	0.3	76
14	Characterization of the hydroperoxide-reducing activity of human plasma. <i>Archives of Biochemistry and Biophysics</i> , 1987, 254, 9-17.	1.4	74
15	Divergent shifts in lipid mediator profile following supplementation with $\omega$ -3 docosapentaenoic acid and eicosapentaenoic acid. <i>FASEB Journal</i> , 2016, 30, 3714-3725.	0.2	74
16	Identification of specialized pro-resolving mediator clusters from healthy adults after intravenous low-dose endotoxin and omega-3 supplementation: a methodological validation. <i>Scientific Reports</i> , 2018, 8, 18050.	1.6	69
17	Deletion of soluble epoxide hydrolase gene improves renal endothelial function and reduces renal inflammation and injury in streptozotocin-induced type 1 diabetes. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011, 301, R1307-R1317.	0.9	65
18	NDRG1 regulates neutral lipid metabolism in breast cancer cells. <i>Breast Cancer Research</i> , 2018, 20, 55.	2.2	64

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19	EPA and DHA differentially modulate monocyte inflammatory response in subjects with chronic inflammation in part via plasma specialized pro-resolving lipid mediators: A randomized, double-blind, crossover study. <i>Atherosclerosis</i> , 2021, 316, 90-98.	0.4	62
20	Adipocyte Lipolysis-stimulated Interleukin-6 Production Requires Sphingosine Kinase 1 Activity. <i>Journal of Biological Chemistry</i> , 2014, 289, 32178-32185.	1.6	60
21	ERG/AKR1C3/AR Constitutes a Feed-Forward Loop for AR Signaling in Prostate Cancer Cells. <i>Clinical Cancer Research</i> , 2015, 21, 2569-2579.	3.2	60
22	Sphingosine-1-phosphate receptor-2 mediated NF $\kappa$ B activation contributes to tumor necrosis factor- $\alpha$ induced VCAM-1 and ICAM-1 expression in endothelial cells. <i>Prostaglandins and Other Lipid Mediators</i> , 2013, 106, 62-71.	1.0	54
23	Stability and analysis of eicosanoids and docosanoids in tissue culture media. <i>Prostaglandins and Other Lipid Mediators</i> , 2011, 94, 59-72.	1.0	53
24	Peroxidase-Catalyzed Oxidation of Pentachlorophenol. <i>Chemical Research in Toxicology</i> , 1995, 8, 349-355.	1.7	51
25	MFSD2A Promotes Endothelial Generation of Inflammation-Resolving Lipid Mediators and Reduces Colitis in Mice. <i>Gastroenterology</i> , 2017, 153, 1363-1377.e6.	0.6	48
26	Enzymatic transformation of PGH <sub>2</sub> to PGF <sub>2</sub> $\alpha$ catalyzed by glutathione S-transferases. <i>Biochemical and Biophysical Research Communications</i> , 1987, 142, 441-447.	1.0	44
27	Lipidomic analysis of patients with microbial invasion of the amniotic cavity reveals up-regulation of leukotriene B <sub>4</sub> . <i>FASEB Journal</i> , 2016, 30, 3296-3307.	0.2	43
28	Clinical chorioamnionitis at term: the amniotic fluid fatty acyl lipidome. <i>Journal of Lipid Research</i> , 2016, 57, 1906-1916.	2.0	42
29	12-Lipoxygenase and the regulation of hypoxia-inducible factor in prostate cancer cells. <i>Experimental Cell Research</i> , 2010, 316, 1706-1715.	1.2	41
30	Intramuscular inflammatory and resolving lipid profile responses to an acute bout of resistance exercise in men. <i>Physiological Reports</i> , 2019, 7, e14108.	0.7	41
31	Resolvin D1 supports skeletal myofiber regeneration via actions on myeloid and muscle stem cells. <i>JCI Insight</i> , 2020, 5, .	2.3	40
32	Decreased $\omega$ -6: $\omega$ -3 PUFA ratio attenuates ethanol-induced alterations in intestinal homeostasis, microbiota, and liver injury. <i>Journal of Lipid Research</i> , 2019, 60, 2034-2049.	2.0	39
33	Emerging roles of pro-resolving lipid mediators in immunological and adaptive responses to exercise-induced muscle injury. <i>Exercise Immunology Review</i> , 2016, 22, 110-34.	0.4	39
34	Platelet-type 12-lipoxygenase activates NF $\kappa$ B in prostate cancer cells. <i>Prostaglandins and Other Lipid Mediators</i> , 2003, 71, 189-204.	1.0	38
35	Omega-3 Fatty Acid Is a Potential Preventive Agent for Recurrent Colon Cancer. <i>Cancer Prevention Research</i> , 2014, 7, 1138-1148.	0.7	38
36	Paradoxical effects of resveratrol on the two prostaglandin H synthases. <i>Prostaglandins and Other Lipid Mediators</i> , 1998, 56, 131-143.	1.0	37

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37	Characterization of Eicosanoids Produced by Adipocyte Lipolysis. <i>Journal of Biological Chemistry</i> , 2016, 291, 16001-16010.	1.6	37
38	Dose- and time-dependent increase in circulating anti-inflammatory and pro-resolving lipid mediators following eicosapentaenoic acid supplementation in patients with major depressive disorder and chronic inflammation. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , 2021, 164, 102219.	1.0	37
39	Role of 12-lipoxygenase in regulation of ovarian cancer cell proliferation and survival. <i>Cancer Chemotherapy and Pharmacology</i> , 2011, 68, 1273-1283.	1.1	35
40	<i>Ocimum gratissimum</i> retards breast cancer growth and progression and is a natural inhibitor of matrix metalloproteases. <i>Cancer Biology and Therapy</i> , 2013, 14, 417-427.	1.5	34
41	Prostate Tumor Cell-Derived IL1 $\beta$ Induces an Inflammatory Phenotype in Bone Marrow Adipocytes and Reduces Sensitivity to Docetaxel via Lipolysis-Dependent Mechanisms. <i>Molecular Cancer Research</i> , 2019, 17, 2508-2521.	1.5	32
42	Platelets trigger perivascular mast cell degranulation to cause inflammatory responses and tissue injury. <i>Science Advances</i> , 2020, 6, eaay6314.	4.7	32
43	Beneficial effects of inhibition of soluble epoxide hydrolase on glucose homeostasis and islet damage in a streptozotocin-induced diabetic mouse model. <i>Prostaglandins and Other Lipid Mediators</i> , 2013, 104-105, 42-48.	1.0	31
44	Distinct Profiles of Specialized Pro-resolving Lipid Mediators and Corresponding Receptor Gene Expression in Periodontal Inflammation. <i>Frontiers in Immunology</i> , 2020, 11, 1307.	2.2	31
45	Loss of Cardiolipin Leads to Perturbation of Acetyl-CoA Synthesis. <i>Journal of Biological Chemistry</i> , 2017, 292, 1092-1102.	1.6	29
46	Metabolipidomic profiling reveals an age-related deficiency of skeletal muscle pro-resolving mediators that contributes to maladaptive tissue remodeling. <i>Aging Cell</i> , 2021, 20, e13393.	3.0	29
47	Anti-inflammatory role of 15-lipoxygenase contributes to the maintenance of skin integrity in mice. <i>Scientific Reports</i> , 2018, 8, 8856.	1.6	27
48	Combined therapy with COX-2 inhibitor and 20-HETE inhibitor reduces colon tumor growth and the adverse effects of ischemic stroke associated with COX-2 inhibition. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2014, 307, R693-R703.	0.9	25
49	Convergence of eicosanoid and integrin biology: 12-lipoxygenase seeks a partner. <i>Molecular Cancer</i> , 2015, 14, 111.	7.9	25
50	Role of haem oxygenase in the renoprotective effects of soluble epoxide hydrolase inhibition in diabetic spontaneously hypertensive rats. <i>Clinical Science</i> , 2013, 125, 349-359.	1.8	24
51	Accurate identification of breast cancer margins in microenvironments of ex-vivo basal and luminal breast cancer tissues using Raman spectroscopy. <i>Prostaglandins and Other Lipid Mediators</i> , 2020, 151, 106475.	1.0	21
52	Eicosanoid Signaling and Vascular Dysfunction: Methylmercury-Induced Phospholipase D Activation in Vascular Endothelial Cells. <i>Cell Biochemistry and Biophysics</i> , 2013, 67, 317-329.	0.9	18
53	Human lung fibroblasts produce proresolving peroxisome proliferator-activated receptor- $\beta$ ligands in a cyclooxygenase-2-dependent manner. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2016, 311, L855-L867.	1.3	18
54	Non-inflammatory Physiology of Inflammatory Mediators: Unalamation, a New Paradigm. <i>Frontiers in Immunology</i> , 2020, 11, 580117.	2.2	18

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55	Unique Lipid Chemistry of Synaptic Vesicle and Synaptosome Membrane Revealed Using Mass Spectrometry. <i>ACS Chemical Neuroscience</i> , 2017, 8, 1163-1169.	1.7	17
56	MCK1 is a novel regulator of myo-inositol phosphate synthase (MIPS) that is required for inhibition of inositol synthesis by the mood stabilizer valproate. <i>PLoS ONE</i> , 2017, 12, e0182534.	1.1	17
57	Jet nebulization of prostaglandin E1 during neonatal mechanical ventilation: Stability, emitted dose and aerosol particle size. <i>Pharmacological Research</i> , 2007, 56, 531-541.	3.1	16
58	A dual role of 12/15-lipoxygenase in LPS-induced acute renal inflammation and injury. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2019, 1864, 1669-1680.	1.2	16
59	A sensitive electrochemical method for quantitative hydroperoxide determination. <i>Chemical Research in Toxicology</i> , 1989, 2, 295-300.	1.7	15
60	Neuronal porosome lipidome. <i>Journal of Cellular and Molecular Medicine</i> , 2014, 18, 1927-1937.	1.6	15
61	Linoleic Acid-Derived Oxylipins Differentiate Early Stage Alcoholic Hepatitis From Mild Alcohol-Associated Liver Injury. <i>Hepatology Communications</i> , 2021, 5, 947-960.	2.0	15
62	Subgingival Microbiome and Specialized Pro-Resolving Lipid Mediator Pathway Profiles Are Correlated in Periodontal Inflammation. <i>Frontiers in Immunology</i> , 2021, 12, 691216.	2.2	15
63	Enriched Marine Oil Supplement Increases Specific Plasma Specialized Pro-Resolving Mediators in Adults with Obesity. <i>Journal of Nutrition</i> , 2022, 152, 1783-1791.	1.3	15
64	Purification of Class I Medullipins from the Venous Effluent of Isolated Normal Kidneys Perfused under High Pressure with Saline. <i>Blood Pressure</i> , 1994, 3, 407-417.	0.7	14
65	Free Radical Oxidation of (E)-Retinoic Acid by Prostaglandin H Synthase. <i>Chemical Research in Toxicology</i> , 1995, 8, 807-815.	1.7	12
66	Specialized Pro-resolving Mediators Reduce Pro-nociceptive Inflammatory Mediator Production in Models of Localized Provoked Vulvodynia. <i>Journal of Pain</i> , 2021, 22, 1195-1209.	0.7	9
67	Toxicity of prolonged high dose inhaled PGE1 in ventilated neonatal pigs. <i>Pulmonary Pharmacology and Therapeutics</i> , 2008, 21, 565-572.	1.1	7
68	Convergence of eicosanoid and integrin biology: Role of Src in 12-LOX activation. <i>Experimental Cell Research</i> , 2017, 351, 1-10.	1.2	7
69	Local shifts in inflammatory and resolving lipid mediators in response to tendon overuse. <i>FASEB Journal</i> , 2021, 35, e21655.	0.2	7
70	Demyelination in hereditary sensory neuropathy type-1C. <i>Annals of Clinical and Translational Neurology</i> , 2020, 7, 1502-1512.	1.7	6
71	Ceramide changes in abdominal subcutaneous and visceral adipose tissue among diabetic and nondiabetic patients. <i>Journal of Diabetes</i> , 2022, 14, 271-281.	0.8	6
72	Immunomodulatory lipid mediator profiling of cerebrospinal fluid following surgery in older adults. <i>Scientific Reports</i> , 2021, 11, 3047.	1.6	5

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73	Parenteral Fish-Oil Containing Lipid Emulsions Limit Initial Lipopolysaccharide-Induced Host Immune Responses in Preterm Pigs. <i>Nutrients</i> , 2021, 13, 205.	1.7	5
74	Lipidomic Profiling of Bronchoalveolar Lavage Fluid Extracellular Vesicles Indicates Their Involvement in Lipopolysaccharide-Induced Acute Lung Injury. <i>Journal of Innate Immunity</i> , 2022, 14, 555-568.	1.8	5
75	Novel transformations of i-cholesterol and 6 <sup>12</sup> -methoxy-i-cholesterol by <i>Moraxella</i> Sp.. <i>The Journal of Steroid Biochemistry</i> , 1983, 19, 1391-1395.	1.3	4
76	Self-Assembly and Biogenesis of the Cellular Membrane are Dictated by Membrane Stretch and Composition. <i>Journal of Physical Chemistry B</i> , 2019, 123, 6997-7005.	1.2	3
77	Manganese-stimulated redox cycling of dopamine derivatives: Implications for manganism. <i>NeuroToxicology</i> , 2022, 90, 10-18.	1.4	3
78	Tissue Distribution, Metabolism and Excretion of PGE1 Following Prolonged High-Dose Inhalation in Neonatal Pigs. <i>International Journal of Pharmacology</i> , 2010, 6, 224-230.	0.1	2
79	Increased expression and activity of 12-lipoxygenase in oxygen-induced ischemic retinopathy and proliferative diabetic retinopathy: implications in retinal neovascularization. <i>Diabetes</i> 2011;60:614-624. <i>Diabetes</i> , 2013, 62, 998-998.	0.3	1
80	Mitochondrial Lipid Peroxidation in Lung Damage and Disease. <i>Respiratory Medicine</i> , 2014, , 117-139.	0.1	1
81	Abstract 456: ERG regulation of intracrine androgen production and castration-resistant prostate cancer progression. , 2014, , .		1
82	LSEA Evaluation of Lipid Mediators of Inflammation in Lung and Cortex of Mice Exposed to Diesel Air Pollution. <i>Biomedicines</i> , 2022, 10, 712.	1.4	1
83	Sa1836 Stimulation of the $\omega$ -3 Docosahexaenoic Acid (DHA) Metabolism via MFSD2A as a Novel Therapy for Inflammatory Bowel Disease. <i>Gastroenterology</i> , 2016, 150, S377.	0.6	0
84	Stimulation of CYP450-Mediated $\omega$ -3 Docosahexaenoic Acid (DHA) Metabolism via MFSD2A as a Novel Therapy for Inflammatory Bowel Disease. <i>Gastroenterology</i> , 2017, 152, S188.	0.6	0
85	Inflammatory Lipidomics of Sickle Cell Disease, Potential Biomarkers, and Therapeutic Targets. <i>Chest</i> , 2017, 152, A754.	0.4	0
86	719 LINOLEIC ACID-DERIVED OXYLIPINS DIFFERENTIATE EARLY STAGE OF ALCOHOLIC HEPATITIS FROM MILD ALCOHOL-ASSOCIATED LIVER INJURY. <i>Gastroenterology</i> , 2021, 160, S-795.	0.6	0
87	Linoleic Acid-Derived Oxylipins Differentiate Early Stage of Alcoholic Hepatitis from Mild Alcohol-Associated Liver Injury. <i>FASEB Journal</i> , 2021, 35, .	0.2	0
88	Abstract 2902: Phosphorylation of 12 lipoxygenase at Tyrosines 19 and 614 regulates its activity during beta4 integrin signaling. , 2011, , .		0
89	Human Skeletal Muscle Lipid Mediator Responses to Resistance Exercise and Anti-inflammatory Drugs. <i>Medicine and Science in Sports and Exercise</i> , 2018, 50, 112-113.	0.2	0