Pablo Escriba

List of Publications by Year
in descending order

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108 papers	5,272 citations	87723 38 h-index	91712 69 g-index
115 all docs	115 docs citations	115 times ranked	6071 citing authors

#	Article	IF	Citations
1	Membrane Lipid Composition: Effect on Membrane and Organelle Structure, Function and Compartmentalization and Therapeutic Avenues. International Journal of Molecular Sciences, 2019, 20, 2167.	1.8	472
2	Membranes: a meeting point for lipids, proteins and therapies. Journal of Cellular and Molecular Medicine, 2008, 12, 829-875.	1.6	348
3	The effect of natural and synthetic fatty acids on membrane structure, microdomain organization, cellular functions and human health. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 1518-1528.	1.4	246
4	The significance of lipid composition for membrane activity: New concepts and ways of assessing function. Progress in Lipid Research, 2005, 44, 303-344.	5.3	201
5	Membrane-lipid therapy: a new approach in molecular medicine. Trends in Molecular Medicine, 2006, 12, 34-43.	3.5	188
6	Membrane lipid therapy: Modulation of the cell membrane composition and structure as a molecular base for drug discovery and new disease treatment. Progress in Lipid Research, 2015, 59, 38-53.	5.3	181
7	Lipidâ€“protein interactions in GPCR-associated signaling. Biochimica Et Biophysica Acta - Biomembranes, 2007, 1768, 836-852.	1.4	157
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	Up-Regulation of Immunolabeled Î±2A-Adrenoceptors, GiCoupling Proteins, and Regulatory Receptor Kinases in the Prefrontal Cortex of Depressed Suicides. Journal of Neurochemistry, 1999, 72, 282-291.	2.1	139
10	Effects of oleic acid and its congeners, elaidic and stearic acids, on the structural properties of phosphatidylethanolamine membranes. Journal of Lipid Research, 2003, 44, 567-575.	2.0	128
11	Increased mRNA Expression of Î±2A-Adrenoceptors, Serotonin Receptors and Î¼-Opioid Receptors in the Brains of Suicide Victims. Neuropsychopharmacology, 2004, 29, 1512-1521.	2.8	116
12	Role of membrane lipids in the interaction of daunomycin with plasma membranes from tumor cells: implications in drug-resistance phenomena. Biochemistry, 1990, 29, 7275-7282.	1.2	105
13	Membrane interactions of G proteins and other related proteins. Biochimica Et Biophysica Acta - Biomembranes, 2008, 1778, 1640-1652.	1.4	101
14	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
15	Increased Density of Guanine Nucleotide-Binding Proteins in the Postmortem Brains of Heroin Addicts. Archives of General Psychiatry, 1994, 51, 494.	13.8	88
16	Influence of the Membrane Lipid Structure on Signal Processing via G Protein-Coupled Receptors. Molecular Pharmacology, 2005, 68, 210-217.	1.0	80
17	G protein-coupled receptor systems and their lipid environment in health disorders during aging. Biochimica Et Biophysica Acta - Biomembranes, 2007, 1768, 964-975.	1.4	78
18	Alteration of Lipids, G Proteins, and PKC in Cell Membranes of Elderly Hypertensives. Hypertension, 2003, 41, 176-182.	1.3	74

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19	Membrane Structure Modulation, Protein Kinase CÎ± Activation, and Anticancer Activity of Minerval. Molecular Pharmacology, 2005, 67, 531-540.	1.0	74
20	The GÎ²Î³ Dimer Drives the Interaction of Heterotrimeric Gi Proteins with Nonlamellar Membrane Structures. Journal of Biological Chemistry, 2004, 279, 36540-36545.	1.6	73
21	Regulation of the cancer cell membrane lipid composition by NaCHOleate. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 1619-1627.	1.4	73
22	Chronic treatment with the monoamine oxidase inhibitors clorgyline and pargyline downâ€•regulates nonâ€•adrenoceptor [³H]â€•idazoxan binding sites in the rat brain. British Journal of Pharmacology, 1993, 108, 597-603.	2.7	72
23	Imidazoline Receptors and Human Brain Disordersa. Annals of the New York Academy of Sciences, 1999, 881, 392-409.	1.8	70
24	Synthesis and mass spectroscopy kinetics of a novel ternary copper(II) complex with cytotoxic activity against cancer cells. Journal of Inorganic Biochemistry, 2007, 101, 649-659.	1.5	69
25	Regulation of G Proteinâ€•Coupled Receptor Kinase 2 in Brains of Opiateâ€•Treated Rats and Human Opiate Addicts. Journal of Neurochemistry, 1998, 70, 1249-1257.	2.1	67
26	The effects of chronic imidazoline drug treatment on glial fibrillary acidic protein concentrations in rat brain. British Journal of Pharmacology, 1994, 111, 997-1002.	2.7	65
27	Membrane-lipid therapy: A historical perspective of membrane-targeted therapies â€" From lipid bilayer structure to the pathophysiological regulation of cells. Biochimica Et Biophysica Acta - Biomembranes, 2017, 1859, 1493-1506.	1.4	65
28	Effects of unsaturated fatty acids and triacylglycerols on phosphatidylethanolamine membrane structure. Journal of Lipid Research, 2003, 44, 1720-1727.	2.0	62
29	Structural basis of glycogen branching enzyme deficiency and pharmacologic rescue by rational peptide design. Human Molecular Genetics, 2015, 24, 5667-5676.	1.4	58
30	Imidazoline receptor proteins in brains of patients with Alzheimer's disease. Neuroscience Letters, 1998, 247, 95-98.	1.0	55
31	2-Hydroxyoleic Acid. Hypertension, 2004, 43, 249-254.	1.3	52
32	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
33	Immunodetection of putative imidazoline receptor proteins in the human and rat brain and other tissues. Neuroscience Letters, 1994, 178, 81-84.	1.0	49
34	The hypotensive drug 2-hydroxyoleic acid modifies the structural properties of model membranes. Molecular Membrane Biology, 2004, 21, 261-268.	2.0	47
35	Minerval induces apoptosis in Jurkat and other cancer cells. Journal of Cellular and Molecular Medicine, 2010, 14, 659-670.	1.6	47
36	Cognitive recovery and restoration of cell proliferation in the dentate gyrus in the 5XFAD transgenic mice model of Alzheimerâ€™s disease following 2-hydroxy-DHA treatment. Biogerontology, 2013, 14, 763-775.	2.0	47

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37	Loss of Protein Kinase C-Î±Î² in Brain of Heroin Addicts and Morphine-Dependent Rats. Journal of Neurochemistry, 2002, 64, 247-252.	2.1	44
38	Partitioning of liquid-ordered/liquid-disordered membrane microdomains induced by the fluidifying effect of 2-hydroxylated fatty acid derivatives. Biochimica Et Biophysica Acta - Biomembranes, 2013, 1828, 2553-2563.	1.4	43
39	Pivotal role of dihydrofolate reductase knockdown in the anticancer activity of 2-hydroxyoleic acid. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 13754-13758.	3.3	40
40	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
41	The Repression of E2F-1 Is Critical for the Activity of Minerval against Cancer. Journal of Pharmacology and Experimental Therapeutics, 2005, 315, 466-474.	1.3	38
42	2-Hydroxyoleic Acid Induces ER Stress and Autophagy in Various Human Glioma Cell Lines. PLoS ONE, 2012, 7, e48235.	1.1	37
43	Antihypertensive action of 2-hydroxyoleic acid in SHRs via modulation of the protein kinase A pathway and Rho kinase. Journal of Lipid Research, 2006, 47, 1762-1770.	2.0	36
44	Pharmacological modulation of immunoreactive imidazoline receptor proteins in rat brain: relationship with nonâ€adrenoceptor [³H]â€idazoxan binding sites. British Journal of Pharmacology, 1996, 118, 2029-2036.	2.7	35
45	Density of Guanine Nucleotide-Binding Proteins in Platelets of Patients with Major Depression: Increased Abundance of the GÎ±i2 Subunit and Down-Regulation by Antidepressant Drug Treatment. Biological Psychiatry, 1997, 42, 704-712.	0.7	35
46	LSL 60101, a selective ligand for imidazoline I2 receptors, on glial fibrillary acidic protein concentration. European Journal of Pharmacology, 1995, 280, 205-210.	1.7	33
47	Guaiacol as a drug candidate for treating adult polyglucosan body disease. JCI Insight, 2018, 3, .	2.3	33
48	Consumption of Virgin Olive Oil Influences Membrane Lipid Composition and Regulates Intracellular Signaling in Elderly Adults With Type 2 Diabetes Mellitus. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2007, 62, 256-263.	1.7	32
49	Pharmacologic Characterization of Imidazoline Receptor Proteins Identified by Immunologic Techniques and Other Methodsa. Annals of the New York Academy of Sciences, 1999, 881, 8-25.	1.8	30
50	2-Hydroxy Arachidonic Acid: A New Non-Steroidal Anti-Inflammatory Drug. PLoS ONE, 2013, 8, e72052.	1.1	30
51	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
52	Molecular characterization and isolation of a 45-kilodalton imidazoline receptor protein from the rat brain. Molecular Brain Research, 1995, 32, 187-196.	2.5	27
53	Age-dependent increases of immunoreactive imidazoline receptors in the human brain: possible association of a protein with the I2-imidazoline receptor identified by [3H]idazoxan. Neuroscience Letters, 1995, 184, 133-136.	1.0	26
54	Changes in Membrane Organization upon Spontaneous Insertion of 2-Hydroxylated Unsaturated Fatty Acids in the Lipid Bilayer. Langmuir, 2014, 30, 2117-2128.	1.6	26

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55	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
56	Membrane structure and function: Relevance of lipid and protein structures in cellular physiology, pathology and therapy. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 1449-1450.	1.4	24
57	G proteinâ€“membrane interactions I: GÎ±i1 myristoyl and palmitoyl modifications in proteinâ€“lipid interactions and its implications in membrane microdomain localization. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2015, 1851, 1511-1520.	1.2	24
58	G protein-membrane interactions II: Effect of G protein-linked lipids on membrane structure and G protein-membrane interactions. Biochimica Et Biophysica Acta - Biomembranes, 2017, 1859, 1526-1535.	1.4	23
59	Platelet imidazoline receptors and regulatory G proteins in patients with major depression. NeuroReport, 1996, 8, 169-172.	0.6	22
60	Parallel modulation of receptor for activated Câ€ƒkinaseâ€ƒ1 and protein kinaseâ€ƒC-Î± and Î² isoforms in brains of morphine-treated rats. British Journal of Pharmacology, 1999, 127, 343-348.	2.7	22
61	Interactions of fatty acids with phosphatidylethanolamine membranes: X-ray diffraction and molecular dynamics studies. Journal of Lipid Research, 2010, 51, 1113-1124.	2.0	22
62	Effects of 2-hydroxyoleic acid on the structural properties of biological and model plasma membranes. Molecular Membrane Biology, 2008, 25, 46-57.	2.0	21
63	The Opposing Contribution of SMS1 and SMS2 to Glioma Progression and Their Value in the Therapeutic Response to 2OHOA. Cancers, 2019, 11, 88.	1.7	21
64	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
65	Decreased Number and Immunoreactivity of I2-Imidazoline Receptors in the Frontal Cortex of Suicide Victims. Annals of the New York Academy of Sciences, 1995, 763, 520-522.	1.8	19
66	Membrane Phospholipid Reorganization Differentially Regulates Metallothionein and Heme Oxygenase by Hemeâ€“Hemopexin. DNA and Cell Biology, 2002, 21, 355-364.	0.9	19
67	Farnesol and geranylgeraniol modulate the structural properties of phosphatidylethanolamine model membranes. Molecular Membrane Biology, 2005, 22, 303-311.	2.0	19
68	Ultrastructural alterations in plasma membranes from drug-resistant P388 murine leukemia cells. Biochimica Et Biophysica Acta - Biomembranes, 1990, 1029, 191-195.	1.4	18
69	Interaction of the C-Terminal Region of the GÎ³ Protein with Model Membranes. Biophysical Journal, 2007, 93, 2530-2541.	0.2	18
70	The unfolded protein response in the therapeutic effect of hydroxy-DHA against Alzheimerâ€™s disease. Apoptosis: an International Journal on Programmed Cell Death, 2015, 20, 712-724.	2.2	17
71	The hydroxylated form of docosahexaenoic acid (DHA-H) modifies the brain lipid composition in a model of Alzheimer's disease, improving behavioral motor function and survival. Biochimica Et Biophysica Acta - Biomembranes, 2017, 1859, 1596-1603.	1.4	16
72	The Implications for Cells of the Lipid Switches Driven by Proteinâ€“Membrane Interactions and the Development of Membrane Lipid Therapy. International Journal of Molecular Sciences, 2020, 21, 2322.	1.8	16

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73	The Novel Anticancer Drug Hydroxytriolein Inhibits Lung Cancer Cell Proliferation via a Protein Kinase CÎ±â€“ and Extracellular Signal-Regulated Kinase 1/2â€“Dependent Mechanism. Journal of Pharmacology and Experimental Therapeutics, 2015, 354, 213-224.	1.3	15
74	Role of the C-terminal basic amino acids and the lipid anchor of the GÎ³2 protein in membrane interactions and cell localization. Biochimica Et Biophysica Acta - Biomembranes, 2017, 1859, 1536-1547.	1.4	15
75	Minerval (2-hydroxyoleic acid) causes cancer cell selective toxicity by uncoupling oxidative phosphorylation and compromising bioenergetic compensation capacity. Bioscience Reports, 2019, 39, .	1.1	15
76	The triacylglycerol, hydroxytriolein, inhibits triple negative mammary breast cancer cell proliferation through a mechanism dependent on dihydroceramide and Akt. Oncotarget, 2019, 10, 2486-2507.	0.8	15
77	Normalization of sphingomyelin levels by 2-hydroxyoleic acid induces autophagic cell death of SF767 cancer cells. Autophagy, 2012, 8, 1542-1544.	4.3	14
78	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
79	Density of Imidazoline Receptors in Platelets of Euthymic Patients with Bipolar Affective Disorder and in Brains of Lithium-Treated Rats. Biological Psychiatry, 1998, 43, 616-618.	0.7	13
80	2-Hydroxyoleic acid affects cardiomyocyte [Ca²⁺]_itransient and contractility in a region-dependent manner. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 294, H1948-H1955.	1.5	12
81	Lipids in Pathophysiology and Development of the Membrane Lipid Therapy: New Bioactive Lipids. Membranes, 2021, 11, 919.	1.4	12
82	Effects of the alkylating agent EEDQ on regulatory G proteins and recovery of agonist and antagonist Î±2-adrenoceptor binding sites in rat brain. European Journal of Pharmacology, 1998, 351, 145-154.	1.7	11
83	A novel plasmid series for in vitro production of phoA translational fusions and its use in the construction of Escherichia coli PhoE: :PhoA hybrid proteins. Gene, 1994, 151, 125-130.	1.0	10
84	I2-Imidazoline Receptors in the Healthy and Pathologic Human Brain. Annals of the New York Academy of Sciences, 1995, 763, 178-193.	1.8	10
85	Ternary copper(II) complexes with hippurate derivatives and 1,10-phenanthroline: Synthesis and biological activity. Inorganica Chimica Acta, 2009, 362, 4744-4753.	1.2	10
86	Triacylglycerol mimetics regulate membrane interactions of glycogen branching enzyme: implications for therapy. Journal of Lipid Research, 2017, 58, 1598-1612.	2.0	10
87	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
88	Fundamentals of Membrane Lipid Replacement: A Natural Medicine Approach to Repairing Cellular Membranes and Reducing Fatigue, Pain, and Other Symptoms While Restoring Function in Chronic Illnesses and Aging. Membranes, 2021, 11, 944.	1.4	9
89	Final report of a phase I study of 2-hydroxyoleic acid (2OHOA) a novel sphingomyelin synthase activator in patients (pt) with advanced solid tumors (AST) including recurrent high grade gliomas (rHGG).. Journal of Clinical Oncology, 2017, 35, 2554-2554.	0.8	7
90	Treatment with albumin-hydroxyoleic acid complex restores sensorimotor function in rats with spinal cord injury: Efficacy and gene expression regulation. PLoS ONE, 2017, 12, e0189151.	1.1	7

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91	The alkylating agent EEDQ facilitates protease-mediated degradation of the human brain Î±2A-adrenoceptor as revealed by a sequence-specific antibody. Neuroscience Letters, 1999, 263, 105-108.	1.0	6
92	Chronic Clorgyline Induces Selective Down-Regulation of alpha2-Adrenoceptor Agonist Binding Sites in Rat Brain. Basic and Clinical Pharmacology and Toxicology, 2000, 87, 269-275.	0.0	6
93	2-Hydroxy-Docosahexaenoic Acid Is Converted Into Heneicosapentaenoic Acid via Î±-Oxidation: Implications for Alzheimerâ€™s Disease Therapy. Frontiers in Cell and Developmental Biology, 2020, 8, 164.	1.8	6
94	The Novel Antitumor Compound HCA Promotes Glioma Cell Death by Inducing Endoplasmic Reticulum Stress and Autophagy. Cancers, 2021, 13, 4290.	1.7	6
95	Basic principles underlying the emerging field of lipid therapy. American Clinical Laboratory, 2002, 21, 29-31.	0.1	6
96	Interaction of transmembrane-spanning segments of the Î±2-adrenergic receptor with model membranes. Molecular Membrane Biology, 2009, 26, 265-278.	2.0	4
97	Brain Lipids in the Pathophysiology and Treatment of Alzheimerâ€™s Disease. , 2016, , .		4
98	A scanning calorimetric study of natural DNA and antitumoral anthracycline antibiotic-DNA complexes. Chemico-Biological Interactions, 1990, 74, 315-324.	1.7	3
99	Editorial: Using Small Molecules to Treat Macromolecule Storage Disorders. Frontiers in Cell and Developmental Biology, 2020, 8, 623613.	1.8	2
100	Multifaceted Analyses of Isolated Mitochondria Establish the Anticancer Drug 2-Hydroxyoleic Acid as an Inhibitor of Substrate Oxidation and an Activator of Complex IV-Dependent State 3 Respiration. Cells, 2022, 11, 578.	1.8	2
101	Pharmacological and Immunological Characterization of Solubilized 130?140- and 66-kD Imidazoline Receptors in the Rat Brain. Annals of the New York Academy of Sciences, 1995, 763, 169-171.	1.8	1
102	Tri-2-Hydroxyarachidonein Induces Cytocidal Autophagy in Pancreatic Ductal Adenocarcinoma Cancer Cell Models. Frontiers in Physiology, 2021, 12, 782525.	1.3	1
103	Effects of fatty acids on the structural properties of biological and model membranes. Chemistry and Physics of Lipids, 2007, 149, S39.	1.5	0
104	Membrane-Lipid Therapy. , 2011, , 2229-2233.		0
105	2-Hydroxyoleic Acid. , 2014, , 1-3.		0
106	Membrane-Lipid Therapy. , 2015, , 2733-2739.		0
107	Polyunsaturated Fatty Acids. , 2016, , 3665-3671.		0
108	2-Hydroxyoleic Acid. , 2017, , 2173-2175.		0