Joseph L Napoli

List of Publications by Year
in descending order

95 papers	6,227 citations	57758 44 h-index	71685 76 g-index
98 all docs	98 docs citations	98 times ranked	4907 citing authors

#	Article	IF	Citations
1	Retinoic Acid from the Meninges Regulates Cortical Neuron Generation. Cell, 2009, 139, 597-609.	28.9	366
2	Interactions of retinoid binding proteins and enzymes in retinoid metabolism. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 1999, 1440, 139-162.	2.4	339
3	Retinoic acid biosynthesis and metabolism. FASEB Journal, 1996, 10, 993-1001.	0.5	337
4	Physiological insights into all-trans-retinoic acid biosynthesis. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2012, 1821, 152-167.	2.4	277
5	Quantitative Profiling of Endogenous Retinoic Acid in Vivo and in Vitro by Tandem Mass Spectrometry. Analytical Chemistry, 2008, 80, 1702-1708.	6.5	209
6	Quantification of endogenous retinoic acid in limited biological samples by LC/MS/MS. Biochemical Journal, 2005, 388, 363-369.	3.7	185
7	Cellular retinoid binding-proteins, CRBP, CRABP, FABP5: Effects on retinoid metabolism, function and related diseases. , 2017, 173, 19-33.		174
8	Retinoic Acid: Its Biosynthesis and Metabolism. Progress in Molecular Biology and Translational Science, 1999, 63, 139-188.	1.9	161
9	Cloning of a cDNA Encoding an Aldehyde Dehydrogenase and Its Expression in. Journal of Biological Chemistry, 1996, 271, 16288-16293.	3.4	156
10	HPLC/UV quantitation of retinal, retinol, and retinyl esters in serum and tissues. Analytical Biochemistry, 2008, 378, 71-79.	2.4	153
11	Allâ€•trans â€retinoic acid stimulates translation and induces spine formation in hippocampal neurons through a membraneâ€associated RARÎ±. FASEB Journal, 2008, 22, 236-245.	0.5	153
12	Holocellular retinol binding protein as a substrate for microsomal retinal synthesis. Biochemistry, 1991, 30, 6224-6230.	2.5	134
13	Normalizing Microbiota-Induced Retinoic Acid Deficiency Stimulates Protective CD8 + T Cell-Mediated Immunity in Colorectal Cancer. Immunity, 2016, 45, 641-655.	14.3	128
14	Cloning of a cDNA for Liver Microsomal Retinol Dehydrogenase. Journal of Biological Chemistry, 1995, 270, 3900-3904.	3.4	122
15	Retinoic acid controls the homeostasis of pre-cDCâ€“derived splenic and intestinal dendritic cells. Journal of Experimental Medicine, 2013, 210, 1961-1976.	8.5	120
16	Quantification of Endogenous Retinoids. Methods in Molecular Biology, 2010, 652, 1-54.	0.9	113
17	The biosynthesis of retinoic acid from retinol by rat tissues in vitro. Archives of Biochemistry and Biophysics, 1987, 255, 95-101.	3.0	107
18	Mouse Retinal Dehydrogenase 4 (RALDH4), Molecular Cloning, Cellular Expression, and Activity in 9-cis-Retinoic Acid Biosynthesis in Intact Cells. Journal of Biological Chemistry, 2003, 278, 9856-9861.	3.4	106

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19	Identification of 9- cis -retinoic acid as a pancreas-specific autacoid that attenuates glucose-stimulated insulin secretion. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 21884-21889.	7.1	102
20	Cellular Retinol-binding Protein-supported Retinoic Acid Synthesis. Journal of Biological Chemistry, 1996, 271, 5610-5616.	3.4	99
21	Cloning of a cDNA for a Second Retinol Dehydrogenase Type II. Journal of Biological Chemistry, 1995, 270, 28408-28412.	3.4	90
22	Retinol Esterification by DGAT1 Is Essential for Retinoid Homeostasis in Murine Skin. Journal of Biological Chemistry, 2009, 284, 4292-4299.	3.4	83
23	Activity of human 11-cis-retinol dehydrogenase (Rdh5) with steroids and retinoids and expression of its mRNA in extra-ocular human tissue. Biochemical Journal, 1999, 338, 23-27.	3.7	82
24	Altered vitamin A homeostasis and increased size and adiposity in the rdhlâ€null mouse. FASEB Journal, 2007, 21, 2886-2896.	0.5	81
25	Characterization of a microsomal retinol dehydrogenase: A short-chain alcohol dehydrogenase with integral and peripheral membrane forms that interacts with holo-CRBP (type I). Biochemistry, 1995, 34, 7027-7037.	2.5	79
26	The Nuclear Transcription Factor RARÎ± Associates with Neuronal RNA Granules and Suppresses Translation. Journal of Biological Chemistry, 2008, 283, 20841-20847.	3.4	75
27	Ethanol elevates physiological allâ€transâ€retinoic acid levels in select loci through altering retinoid metabolism in multiple loci: a potential mechanism of ethanol toxicity. FASEB Journal, 2010, 24, 823-832.	0.5	73
28	Functions of Intracellular Retinoid Binding-Proteins. Sub-Cellular Biochemistry, 2016, 81, 21-76.	2.4	66
29	Role of the retinoic acid receptor-Î± in HIV-associated nephropathy. Kidney International, 2011, 79, 624-634.	5.2	64
30	Retinoic acid synthesis by cytosol from the alcohol dehydrogenase negative deermouse. Archives of Biochemistry and Biophysics, 1989, 274, 171-178.	3.0	59
31	17Î²-Hydroxysteroid dehydrogenase type 9 and other short-chain dehydrogenases/reductases that catalyze retinoid, 17Î²- and 3Î±-hydroxysteroid metabolism. Molecular and Cellular Endocrinology, 2001, 171, 103-109.	3.2	58
32	Complementary Deoxyribonucleic Acid Cloning and Enzymatic Characterization of a Novel 17Î²/3Î±-Hydroxysteroid/Retinoid Short Chain Dehydrogenase/Reductase1. Endocrinology, 1999, 140, 5275-5284.	2.8	57
33	Multiple Retinol and Retinal Dehydrogenases Catalyze All-trans-retinoic Acid Biosynthesis in Astrocytes. Journal of Biological Chemistry, 2011, 286, 6542-6553.	3.4	56
34	Rat Liver Cytosolic Retinal Dehydrogenase: Comparison of 13-cis-, 9-cis-, and all-trans-Retinal as Substrates and Effects of Cellular Retinoid-Binding Proteins and Retinoic Acid on Activity. Biochemistry, 1994, 33, 1938-1943.	2.5	55
35	Cloning of a rat cDNA encoding retinal dehydrogenase isozyme type I and its expression in E. coli. Gene, 1997, 191, 167-172.	2.2	54
36	Cellular expression of retinal dehydrogenase types 1 and 2: Effects of vitamin A status on testis mRNA. Journal of Cellular Physiology, 2001, 186, 220-232.	4.1	54

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37	Cloning and Characterization of Retinol Dehydrogenase Transcripts Expressed in Human Epidermal Keratinocytes. Molecular Genetics and Metabolism, 1999, 67, 62-73.	1.1	53
38	13-cis-Retinoic acid metabolism in vivo. The major tissue metabolites in the rat have the all-trans configuration. Biochemistry, 1983, 22, 3933-3940.	2.5	51
39	Identification of 9-cis,13-cis-Retinoic Acid as a Major Circulating Retinoid in Plasma. Biochemistry, 1995, 34, 1203-1209.	2.5	51
40	cDNA Cloning and Expression of a Human Aldehyde Dehydrogenase (ALDH) Active with 9-cis-Retinal and Identification of a Rat Ortholog, ALDH12. Journal of Biological Chemistry, 2000, 275, 40106-40112.	3.4	50
41	Reduction ofall-trans-Retinal in the Mouse Liver Peroxisome Fraction by the Short-Chain Dehydrogenase/Reductase RRD:Â Induction by the PPARÎ± Ligand Clofibrateâ€. Biochemistry, 2003, 42, 4190-4196.	2.5	49
42	Endogenous Retinoids in the Pathogenesis of Alopecia Areata. Journal of Investigative Dermatology, 2013, 133, 334-343.	0.7	49
43	Rdh12 Activity and Effects on Retinoid Processing in the Murine Retina. Journal of Biological Chemistry, 2009, 284, 21468-21477.	3.4	46
44	Altered Retinoic Acid Metabolism in Diabetic Mouse Kidney Identified by 18O Isotopic Labeling and 2D Mass Spectrometry. PLoS ONE, 2010, 5, e11095.	2.5	45
45	Molecular Characterization of a Mouse Short Chain Dehydrogenase/Reductase Active with All-trans-retinol in Intact Cells, mRDH1. Journal of Biological Chemistry, 2001, 276, 44083-44090.	3.4	44
46	Retinoic Acid Is a Cofactor for Translational Regulation of Vascular Endothelial Growth Factor in Human Endometrial Stromal Cells. Molecular Endocrinology, 2010, 24, 148-160.	3.7	43
47	Inhibition of retinoic acid metabolism by imidazole antimycotics in F9 embryonal carcinoma cells. Biochemical Pharmacology, 1987, 36, 1386-1388.	4.4	42
48	Crbpl Modulates Glucose Homeostasis and Pancreas 9-cis-Retinoic Acid Concentrations. Molecular and Cellular Biology, 2011, 31, 3277-3285.	2.3	42
49	The Retinol Dehydrogenase Rdh10 Localizes to Lipid Droplets during Acyl Ester Biosynthesis. Journal of Biological Chemistry, 2013, 288, 589-597.	3.4	41
50	Effects of Diet and Strain on Mouse Serum and Tissue Retinoid Concentrations. PLoS ONE, 2014, 9, e99435.	2.5	41
51	Ethanol increases retinoic acid production in cerebellar astrocytes and in cerebellum. Developmental Brain Research, 2004, 153, 233-241.	1.7	40
52	A Gene Knockout Corroborates the Integral Function of Cellular Retinol-binding Protein in Retinoid Metabolism. Nutrition Reviews, 2009, 58, 230-236.	5.8	39
53	Insulin Regulates Retinol Dehydrogenase Expression and All-trans-retinoic Acid Biosynthesis through FoxO1. Journal of Biological Chemistry, 2015, 290, 7259-7268.	3.4	39
54	Tissue dependence of retinoic acid metabolism in vivo. Lipids and Lipid Metabolism, 1981, 666, 165-175.	2.6	38

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55	Retinoic Acid Biosynthesis Is Impaired in Human and Murine Endometriosis1. Biology of Reproduction, 2014, 91, 84.	2.7	38
56	Restoring Retinoic Acid Attenuates Intestinal Inflammation and Tumorigenesis in APCMin/+ Mice. Cancer Immunology Research, 2016, 4, 917-926.	3.4	37
57	Modest Decreases in Endogenous All-trans-Retinoic Acid Produced by a MouseRdh10Heterozygote Provoke Major Abnormalities in Adipogenesis and Lipid Metabolism. Diabetes, 2018, 67, 662-673.	0.6	37
58	Enzymatic characteristics of retinal dehydrogenase type I expressed in Escherichia coli. BBA - Proteins and Proteomics, 1997, 1342, 175-181.	2.1	36
59	Morphological defects in a novel Rdh10 mutant that has reduced retinoic acid biosynthesis and signaling. Genesis, 2012, 50, 415-423.	1.6	35
60	Activity of human 11-cis-retinol dehydrogenase (Rdh5) with steroids and retinoids and expression of its mRNA in extra-ocular human tissue. Biochemical Journal, 1999, 338, 23.	3.7	34
61	Analysis of Mouse Retinal Dehydrogenase Type 2 Promoter and Expression. Genomics, 2001, 74, 245-250.	2.9	32
62	Identification of RALDH2 as a Visually Regulated Retinoic Acid Synthesizing Enzyme in the Chick Choroid. , 2012, 53, 1649.		32
63	Consumption of Clarified Grapefruit Juice Ameliorates High-Fat Diet Induced Insulin Resistance and Weight Gain in Mice. PLoS ONE, 2014, 9, e108408.	2.5	30
64	Coexpression of the mRNAs encoding retinol dehydrogenase isozymes and cellular retinol-binding protein. , 1997, 173, 36-43.		29
65	Microsomal retinal synthesis: retinol vs. holo-CRBP as substrate and evaluation of NADP, NAD and NADPH as cofactors. BBA - Proteins and Proteomics, 1992, 1120, 183-186.	2.1	27
66	Holo-Cellular Retinol-Binding Protein:Â Distinction of Ligand-Binding Affinity from Efficiency as Substrate in Retinal Biosynthesisâ€. Biochemistry, 1999, 38, 2088-2093.	2.5	27
67	Cholate effects on all-trans-retinyl palmitate hydrolysis in tissue homogenates: Solubilization of multiple kidney membrane hydrolases. Archives of Biochemistry and Biophysics, 1989, 274, 192-199.	3.0	26
68	Binding affinities of CRBPI and CRBPII for 9-cis-retinoids. Biochimica Et Biophysica Acta - General Subjects, 2011, 1810, 514-518.	2.4	24
69	Retinoic acid regulates the morphological development of sympathetic neurons. , 2000, 42, 383-393.		23
70	Quantitative Analyses of Naturally Occurring Retinoids. , 1998, 89, 29-40.		22
71	Quantification of Dehydroepiandrosterone, 17Î²-Estradiol, Testosterone, and Their Sulfates in Mouse Tissues by LC-MS/MS. Analytical Chemistry, 2019, 91, 14624-14630.	6.5	22
72	Metabolism of 5,6-epoxyretinoic acid in vivo: isolation of a major intestinal metabolite. Biochemistry, 1982, 21, 1942-1949.	2.5	21

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73	The N-Terminus of Retinol Dehydrogenase Type 1 Signals Cytosolic Orientation in the Microsomal Membraneâ€. Biochemistry, 2001, 40, 12533-12540.	2.5	21
74	Effects of ethanol on physiological retinoic acid levels. IUBMB Life, 2011, 63, n/a-n/a.	3.4	21
75	Elements in the N-terminal Signaling Sequence That Determine Cytosolic Topology of Short-chain Dehydrogenases/Reductases. Journal of Biological Chemistry, 2004, 279, 51482-51489.	3.4	20
76	Post-natal all-trans-retinoic acid biosynthesis. Methods in Enzymology, 2020, 637, 27-54.	1.0	20
77	cis-Retinol/Androgen Dehydrogenase, Isozyme 3 (CRAD3):Â A Short-Chain Dehydrogenase Active in a Reconstituted Path of 9-cis-Retinoic Acid Biosynthesis in Intact Cellsâ€,â€¡. Biochemistry, 2002, 41, 3477-3483.	2.5	18
78	Reorganization of cellular retinol-binding protein type 1 and lecithin:retinol acyltransferase during retinyl ester biosynthesis. Biochimica Et Biophysica Acta - General Subjects, 2012, 1820, 859-869.	2.4	18
79	DGAT1 inhibits retinol-dependent regulatory T cell formation and mediates autoimmune encephalomyelitis. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 3126-3135.	7.1	16
80	RDH1 suppresses adiposity by promoting brown adipose adaptation to fasting and re-feeding. Cellular and Molecular Life Sciences, 2019, 76, 2425-2447.	5.4	15
81	Increase in ?-1,4-Galactosyltransferase Activity During PC12 Cell Differentiation Induced by Forskolin and 2-Chloroadenosine. Journal of Neurochemistry, 1991, 57, 708-713.	3.9	14
82	SDR-O : an orphan short-chain dehydrogenase/reductase localized at mouse chromosome 10/human chromosome 12. Gene, 2002, 294, 141-146.	2.2	14
83	Multiple retinoid dehydrogenases in testes cytosol from alcohol dehydrogenase negative or positive deermice. Biochemical Pharmacology, 1992, 43, 2296-2298.	4.4	13
84	[52] Bile salt-independent retinyl ester hydrolase activities associated with membranes of rat tissues. Methods in Enzymology, 1990, 189, 459-469.	1.0	12
85	Raldh1 promotes adiposity during adolescence independently of retinal signaling. PLoS ONE, 2017, 12, e0187669.	2.5	11
86	Ontogeny of rdh9 (Crad3) expression: Ablation causes changes in retinoid and steroid metabolizing enzymes, but RXR and androgen signaling seem normal. Biochimica Et Biophysica Acta - General Subjects, 2007, 1770, 694-705.	2.4	10
87	Retinoid metabolism and functions mediated by retinoid binding-proteins. Methods in Enzymology, 2020, 637, 55-75.	1.0	8
88	Retinoic Acid: Sexually Dimorphic, Anti-Insulin and Concentration-Dependent Effects on Energy. Nutrients, 2022, 14, 1553.	4.1	8
89	Identification of a Mouse Short-chain Dehydrogenase/Reductase Gene, Retinol Dehydrogenase-similar. Journal of Biological Chemistry, 2003, 278, 40079-40087.	3.4	7
90	Quantitation of retinaldehyde in small biological samples using ultrahigh-performance liquid chromatography tandem mass spectrometry. Analytical Biochemistry, 2015, 484, 162-168.	2.4	7

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91	Retinoic acid exerts sexually dimorphic effects on muscle energy metabolism and function. Journal of Biological Chemistry, 2021, 297, 101101.	3.4	5
92	Gene structure and minimal promoter of mouse rdh1. Gene, 2003, 305, 121-131.	2.2	3
93	The glucocorticoid receptor represses, whereas C/EBPÎ² can enhance or repress CYP26A1 transcription. IScience, 2022, 25, 104564.	4.1	3
94	Expression and Purification of CRABPs from E. coli. , 1998, 89, 105-110.		1
95	Vitamins | Vitamin A (Retinoids). , 2021, , 1088-1096.		0