Ralph Rhl

List of Publications by Citations

89 papers	2,256 citations	26 h-index	43 g-index
93 ext. papers	2,665 ext. citations	4.1 avg, IF	4.92 L-index

#	Paper	IF	Citations
89	Vitamin E activates gene expression via the pregnane X receptor. *Biochemical Pharmacology*, **2003**, 65, 269-73	6	199
88	PPARgamma controls CD1d expression by turning on retinoic acid synthesis in developing human dendritic cells. *Journal of Experimental Medicine*, **2006**, 203, 2351-62	16.6	162
87	Host-related factors explaining interindividual variability of carotenoid bioavailability and tissue concentrations in humans. *Molecular Nutrition and Food Research*, **2017**, 61, 1600685	5.9	129
86	Transcriptional regulation of human CYP27 integrates retinoid, peroxisome proliferator-activated receptor, and liver X receptor signaling in macrophages. *Molecular and Cellular Biology*, **2004**, 24, 8154-66	4.8	99
85	9-cis-13,14-Dihydroretinoic Acid Is an Endogenous Retinoid Acting as RXR Ligand in Mice. *PLoS Genetics*, **2015**, 11, e1005213	6	78
84	Method to determine 4-oxo-retinoic acids, retinoic acids and retinol in serum and cell extracts by liquid chromatography/diode-array detection atmospheric pressure chemical ionisation tandem mass spectrometry. *Rapid Communications in Mass Spectrometry*, **2006**, 20, 2497-504	2.2	62
83	Research resource: transcriptome profiling of genes regulated by RXR and its permissive and nonpermissive partners in differentiating monocyte-derived dendritic cells. *Molecular Endocrinology*, **2010**, 24, 2218-31		59
82	PPAR□mediated and arachidonic acid-dependent signaling is involved in differentiation and lipid production of human sebocytes. *Journal of Investigative Dermatology*, **2014**, 134, 910-920	4.3	56
81	Effects of dietary retinoids and carotenoids on immune development. *Proceedings of the Nutrition Society*, **2007**, 66, 458-69	2.9	56
80	Iridoids from Fraxinus excelsior with adipocyte differentiation-inhibitory and PPARalpha activation activity. *Journal of Natural Products*, **2010**, 73, 2-6	4.9	50
79	An Endogenous Mammalian Retinoid X Receptor Ligand, At Last!. *ChemMedChem*, **2016**, 11, 1027-37	3.7	44
78	Alternative retinoid X receptor (RXR) ligands. *Molecular and Cellular Endocrinology*, **2019**, 491, 110436	4.4	42
77	Sebocytes differentially express and secrete adipokines. *Experimental Dermatology*, **2016**, 25, 194-9	4	42
76	Ratio of pro-resolving and pro-inflammatory lipid mediator precursors as potential markers for aggressive periodontitis. *PLoS ONE*, **2013**, 8, e70838	3.7	40
75	From carotenoid intake to carotenoid blood and tissue concentrations - implications for dietary intake recommendations. *Nutrition Reviews*, **2021**, 79, 544-573	6.4	40
74	RARalpha-mediated teratogenicity in mice is potentiated by an RXR agonist and reduced by an RAR antagonist: dissection of retinoid receptor-induced pathways. *Toxicology and Applied Pharmacology*, **1997**, 146, 21-8	4.6	39
73	Retinoid- and carotenoid-enriched diets influence the ontogenesis of the immune system in mice. *Immunology*, **2003**, 110, 180-7	7.8	39

72	Lycopene-derived bioactive retinoic acid receptors/retinoid-X receptors-activating metabolites may be relevant for lycopene's anti-cancer potential. *Molecular Nutrition and Food Research*, **2013**, 57, 739-47	5.9	38
71	Carotenoids and their metabolites are naturally occurring activators of gene expression via the pregnane X receptor. *European Journal of Nutrition*, **2004**, 43, 336-43	5.2	38
70	Decreased retinoid concentration and retinoid signalling pathways in human atopic dermatitis. *Experimental Dermatology*, **2011**, 20, 326-30	4	37
69	-Carotene in the human body: metabolic bioactivation pathways - from digestion to tissue distribution and excretion. *Proceedings of the Nutrition Society*, **2019**, 78, 68-87	2.9	36
68	Regulation of retinoid-mediated signaling involved in skin homeostasis by RAR and RXR agonists/antagonists in mouse skin. *PLoS ONE*, **2013**, 8, e62643	3.7	32
67	Sebaceous Gland-Rich Skin Is Characterized by TSLP Expression and Distinct Immune Surveillance Which Is Disturbed in Rosacea. *Journal of Investigative Dermatology*, **2017**, 137, 1114-1125	4.3	30
66	Alterations in Epidermal Eicosanoid Metabolism Contribute to Inflammation and Impaired Late Differentiation in FLG-Mutated Atopic Dermatitis. *Journal of Investigative Dermatology*, **2017**, 137, 706-715	4.3	30
65	Macrophages engulfing apoptotic cells produce nonclassical retinoids to enhance their phagocytic capacity. *Journal of Immunology*, **2014**, 192, 5730-8	5.3	28
64	Activation of retinoic acid receptor signaling coordinates lineage commitment of spontaneously differentiating mouse embryonic stem cells in embryoid bodies. *FEBS Letters*, **2010**, 584, 3123-30	3.8	26
63	Reduced adiponectin expression after high-fat diet is associated with selective up-regulation of ALDH1A1 and further retinoic acid receptor signaling in adipose tissue. *FASEB Journal*, **2017**, 31, 203-211	4.9	25
62	Retinoid receptor-activating ligands are produced within the mouse thymus during postnatal development. *European Journal of Immunology*, **2008**, 38, 147-55	6.1	25
61	Inhibition of IgE production by docosahexaenoic acid is mediated by direct interference with STAT6 and NF B pathway in human B cells. *Journal of Nutritional Biochemistry*, **2011**, 22, 269-75	6.3	24
60	Induction of PXR-mediated metabolism by beta-carotene. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2005**, 1740, 162-9	6.9	24
59	Inhibition of IgE-production by peroxisome proliferator-activated receptor ligands. *Journal of Investigative Dermatology*, **2003**, 121, 757-64	4.3	23
58	Reduced retinoids and retinoid receptors expression in pancreatic cancer: A link to patient survival. *Molecular Carcinogenesis*, **2015**, 54, 870-9	5	22
57	Vitamin A-deficient diet accelerated atherogenesis in apolipoprotein E(-/-) mice and dietary -carotene prevents this consequence. *BioMed Research International*, **2015**, 2015, 758723	3	22
56	Lycopene induces retinoic acid receptor transcriptional activation in mice. *Molecular Nutrition and Food Research*, **2012**, 56, 702-12	5.9	22
55	Modulation of plasma all-trans retinoic acid concentrations by the consumption of carotenoid-rich vegetables. *Nutrition*, **2008**, 24, 1224-6	4.8	22

54	Non-pro-vitamin A and pro-vitamin A carotenoids in atopy development. *International Archives of Allergy and Immunology*, **2013**, 161, 99-115	3.7	21
53	Lycopene supplementation restores vitamin A deficiency in mice and possesses thereby partial pro-vitamin A activity transmitted via RAR signaling. *Molecular Nutrition and Food Research*, **2016**, 60, 2413-2420	5.9	21
52	Macrophages engulfing apoptotic thymocytes produce retinoids to promote selection, differentiation, removal and replacement of double positive thymocytes. *Immunobiology*, **2013**, 218, 1354-60	3.4	18
51	Eicosanoids and docosanoids in plasma and aorta of healthy and atherosclerotic rabbits. *Journal of Vascular Research*, **2013**, 50, 372-82	1.9	18
50	Modulation of cytokine production by low and high retinoid diets in ovalbumin-sensitized mice. *International Journal for Vitamin and Nutrition Research*, **2004**, 74, 279-84	1.7	18
49	Synergistic teratogenic effects induced by retinoids in mice by coadministration of a RARalpha- or RARgamma-selective agonist with a RXR-selective agonist. *Toxicology and Applied Pharmacology*, **2001**, 170, 2-9	4.6	18
48	Transcriptomic and lipidomic profiling of eicosanoid/docosanoid signalling in affected and non-affected skin of human atopic dermatitis patients. *Experimental Dermatology*, **2019**, 28, 177-189	4	18
47	Lipid metabolite levels of prostaglandin D2 and eicosapentaenoic acid recovered from bronchoalveolar lavage fluid correlate with lung function of chronic obstructive pulmonary disease patients and controls. *Electrophoresis*, **2009**, 30, 1228-34	3.6	17
46	Role of vitamin A elimination or supplementation diets during postnatal development on the allergic sensitisation in mice. *Molecular Nutrition and Food Research*, **2007**, 51, 1173-81	5.9	17
45	A Review About Lycopene-Induced Nuclear Hormone Receptor Signalling in Inflammation and Lipid Metabolism via still Unknown Endogenous Apo-10′-Lycopenoids. *International Journal for Vitamin and Nutrition Research*, **2016**, 86, 62-70	1.7	17
44	Interactions of retinoids with the ABC transporters P-glycoprotein and Breast Cancer Resistance Protein. *Scientific Reports*, **2017**, 7, 41376	4.9	16
43	Downregulation of STRA6 expression in epidermal keratinocytes leads to hyperproliferation-associated differentiation in both in vitro and in vivo skin models. *Journal of Investigative Dermatology*, **2014**, 134, 1579-1588	4.3	16
42	9-cis □carotene Inhibits Atherosclerosis Development in Female LDLR-/- Mice. *Functional Foods in Health and Disease*, **2015**, 5, 67	2.5	16
41	Effect of synthetic ligands of PPAR □/□, □RAR, RXR and LXR on the fatty acid composition of phospholipids in mice. *Lipids*, **2011**, 46, 1013-20	1.6	15
40	Poly(ADP) ribose polymerase-1 ablation alters eicosanoid and docosanoid signaling and metabolism in a murine model of contact hypersensitivity. *Molecular Medicine Reports*, **2015**, 11, 2861-7	2.9	14
39	Mechanistic aspects of carotenoid health benefits - where are we now?. *Nutrition Research Reviews*, **2021**, 34, 276-302	7	14
38	9-Cis-13,14-dihydroretinoic acid, a new endogenous mammalian ligand of retinoid X receptor and the active ligand of a potential new vitamin A category: vitamin A5. *Nutrition Reviews*, **2018**, 76, 929-941	6.4	14
37	Fatty acid composition of serum lipid classes in mice following allergic sensitisation with or without dietary docosahexaenoic acid-enriched fish oil substitution. *British Journal of Nutrition*, **2008**, 99, 1239-46	3.6	13

36	TSLP expression in the skin is mediated via RAR‐RXR pathways. *Immunobiology*, **2016**, 221, 161-5	3.4	11
35	Reduced lipoxygenase and cyclooxygenase mediated signaling in PBMC of atopic dermatitis patients. *Prostaglandins and Other Lipid Mediators*, **2013**, 107, 35-42	3.7	11
34	Regulation of expression of the retinoic acid-synthesising enzymes retinaldehyde dehydrogenases in the uteri of ovariectomised mice after treatment with oestrogen, gestagen and their combination. *Reproduction, Fertility and Development*, **2006**, 18, 339-45	1.8	11
33	Automated solid-phase extraction and liquid chromatographic method for retinoid determination in biological samples. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2003**, 798, 309-16	3.2	11
32	Serum carotenoids and atopy among children of different ethnic origin living in Germany. *Pediatric Allergy and Immunology*, **2010**, 21, 1072-5	4.2	10
31	Reduced retinoid signaling in the skin after systemic retinoid-X receptor ligand treatment in mice with potential relevance for skin disorders. *Dermatology*, **2012**, 225, 304-11	4.4	10
30	Retinoid signaling by all-trans retinoic acid and all-trans retinoyl-beta-D-glucuronide is attenuated by simultaneous exposure of human keratinocytes to retinol. *Journal of Investigative Dermatology*, **1999**, 112, 157-64	4.3	10
29	Saturated and monounsaturated fatty acids in membranes are determined by the gene expression of their metabolizing enzymes SCD1 and ELOVL6 regulated by the intake of dietary fat. *European Journal of Nutrition*, **2020**, 59, 2759-2769	5.2	10
28	Effect of high versus low doses of fat and vitamin A dietary supplementation on fatty acid composition of phospholipids in mice. *Genes and Nutrition*, **2014**, 9, 368	4.3	9
27	Hypoxia reduces the efficiency of elisidepsin by inhibiting hydroxylation and altering the structure of lipid rafts. *Marine Drugs*, **2013**, 11, 4858-75	6	9
26	Reduced Carotenoid and Retinoid Concentrations and Altered Lycopene Isomer Ratio in Plasma of Atopic Dermatitis Patients. *Nutrients*, **2018**, 10,	6.7	9
25	LRAT overexpression diminishes intracellular levels of biologically active retinoids and reduces retinoid antitumor efficacy in the murine melanoma B16F10 cell line. *Skin Pharmacology and Physiology*, **2015**, 28, 205-212	3	8
24	Identification of 14-hydroxy-retro-retinol and 4-hydroxy-retinol as endogenous retinoids in rats throughout neonatal development. *Life Sciences*, **2005**, 76, 1613-22	6.8	8
23	Effects of all-trans-retinoyl-beta-D-glucuronide and all-trans-retinoic acid on chondrogenesis and retinoid metabolism in mouse limb bud mesenchymal cells in vitro. *Archives of Toxicology*, **1997**, 71, 142-50	5.8	7
22	Retinoid concentrations in the mouse during postnatal development and after maternal vitamin A supplementation. *Annals of Nutrition and Metabolism*, **2005**, 49, 333-41	4.5	7
21	All-trans-retinoic acid and all-trans-retinoyl-beta-D-glucuronide alter the development of axolotl embryos (Ambystoma mexicanum) in vitro. *Archives of Toxicology*, **2000**, 74, 173-80	5.8	7
20	Synthesis of apocarotenoids by acyclic cross metathesis and characterization as substrates for human retinaldehyde dehydrogenases. *Tetrahedron*, **2018**, 74, 2567-2574	2.4	6
19	Increased FADS2-derived n-6 PUFAs and reduced n-3 PUFAs in plasma of atopic dermatitis patients. *Skin Pharmacology and Physiology*, **2014**, 27, 242-8	3	6

18	Allergen-induced dermatitis causes alterations in cutaneous retinoid-mediated signaling in mice. *PLoS ONE*, **2013**, 8, e71244	3.7	6
17	RhoA controls retinoid signaling by ROCK dependent regulation of retinol metabolism. *Small GTPases*, **2018**, 9, 433-444	2.7	5
16	Knockdown of lecithin retinol acyltransferase increases all-trans retinoic acid levels and restores retinoid sensitivity in malignant melanoma cells. *Experimental Dermatology*, **2014**, 23, 832-7	4	5
15	Serum retinoic acid and atopy among children of different ethnic origin living in Germany. *Journal of Pediatric Gastroenterology and Nutrition*, **2012**, 54, 558-60	2.8	5
14	Proteomic responses of carotenoid and retinol administration to Mongolian gerbils. *Food and Function*, **2018**, 9, 3835-3844	6.1	5
13	CYP26A1-specific antagonist influence on embryonic implantation, gene expression and endogenous retinoid concentration in rats. *Reproductive Toxicology*, **2010**, 30, 446-51	3.4	4
12	Effects of all-trans-retinoic acid and all-trans-retinoyl glucuronide in two in vitro systems of distinct biological complexity. *Archives of Toxicology*, **2001**, 75, 497-504	5.8	4
11	Apo-14′-Carotenoic Acid Is a Novel Endogenous and Bioactive Apo-Carotenoid. *Nutrients*, **2019**, 11,	6.7	3
10	Steroid concentrations in patients with atopic dermatitis: reduced plasma dehydroepiandrosterone sulfate and increased cortisone levels. *British Journal of Dermatology*, **2015**, 172, 285-8	4	3
9	Relationship Between All-trans-13,14-Dihydro Retinoic Acid and Pancreatic Adenocarcinoma. *Pancreas*, **2016**, 45, e29-31	2.6	3
8	Retinoylserine and retinoylalanine, natural products of the moth Trichoplusia ni. *Journal of Natural Products*, **2005**, 68, 1536-40	4.9	2
7	Retinol Saturase Knock-Out Mice are Characterized by Impaired Clearance of Apoptotic Cells and Develop Mild Autoimmunity. *Biomolecules*, **2019**, 9,	5.9	2
6	Topical Vitamin D Receptor Antagonist/Partial-Agonist Treatment Induces Epidermal Hyperproliferation via RAR Signaling Pathways. *Dermatology*, **2021**, 237, 197-203	4.4	1
5	Vitamin A5/X, a New Food to Lipid Hormone Concept for a Nutritional Ligand to Control RXR-Mediated Signaling. *Nutrients*, **2021**, 13,	6.7	1
4	A transgenic reporter mouse model for assessment of retinoic acid receptor transcriptional activation. *International Journal for Vitamin and Nutrition Research*, **2021**, 1-13	1.7	1
3	Vitamin A5/X controls stress-adaptation and prevents depressive-like behaviors in a mouse model of chronic stress. *Neurobiology of Stress*, **2021**, 15, 100375	7.6	0
2	Plasma Levels of Bioactive Vitamin D and A5 Ligands Positively Correlate with Clinical Atopic Dermatitis Markers. *Dermatology*,1-8	4.4	0
1	Is vitamin A an antioxidant?. *International Journal for Vitamin and Nutrition Research*, **2022**,	1.7	