

# Johannes von Lintig

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

115 papers	6,662 citations	50 h-index	80 g-index
125 ext. papers	7,540 ext. citations	5.5 avg, IF	5.85 L-index

#	Paper	IF	Citations
115	Genomic consequences of domestication of the Siamese fighting fish.. <i>Science Advances</i> , <b>2022</b> , 8, eabm4950	49.50	3
114	Genetic dissection in mice reveals a dynamic crosstalk between the delivery pathways of vitamin A.. <i>Journal of Lipid Research</i> , <b>2022</b> , 100215	6.3	1
113	Aster proteins mediate carotenoid transport in mammalian cells.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119, e2200068119	11.5	3
112	Carotenoid modifying enzymes in metazoans. <i>Methods in Enzymology</i> , <b>2022</b> ,	1.7	0
111	Expression and biochemical analyses of proteins involved in the transport of carotenoids and retinoids. <i>Methods in Enzymology</i> , <b>2022</b> ,	1.7	
110	Molecular components affecting ocular carotenoid and retinoid homeostasis. <i>Progress in Retinal and Eye Research</i> , <b>2021</b> , 80, 100864	20.5	11
109	LRAT coordinates the negative-feedback regulation of intestinal retinoid biosynthesis from $\beta$ -carotene. <i>Journal of Lipid Research</i> , <b>2021</b> , 62, 100055	6.3	6
108	Paracardial fat remodeling affects systemic metabolism through alcohol dehydrogenase 1. <i>Journal of Clinical Investigation</i> , <b>2021</b> , 131,	15.9	1
107	The Structural and Biochemical Basis of Apocarotenoid Processing by $\beta$ -Carotene Oxygenase-2. <i>ACS Chemical Biology</i> , <b>2021</b> , 16, 480-490	4.9	7
106	Overlapping Vitamin A Interventions with Provitamin A Carotenoids and Preformed Vitamin A Cause Excessive Liver Retinol Stores in Male Mongolian Gerbils. <i>Journal of Nutrition</i> , <b>2020</b> , 150, 2912-2923	4.1	6
105	Eat Your Carrots! $\beta$ -Carotene and Cholesterol Homeostasis. <i>Journal of Nutrition</i> , <b>2020</b> , 150, 2003-2005	4.1	1
104	Expression and Characterization of Mammalian Carotenoid Cleavage Dioxygenases. <i>Methods in Molecular Biology</i> , <b>2020</b> , 2083, 75-88	1.4	1
103	Carotenoid metabolism at the intestinal barrier. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2020</b> , 1865, 158580	5	25
102	$\beta$ -Carotene conversion to vitamin A delays atherosclerosis progression by decreasing hepatic lipid secretion in mice. <i>Journal of Lipid Research</i> , <b>2020</b> , 61, 1491-1503	6.3	4
101	Structural basis for carotenoid cleavage by an archaeal carotenoid dioxygenase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 19914-19925	11.5	11
100	Carotenoids <b>2020</b> , 531-549		
99	The human mitochondrial enzyme BCO2 exhibits catalytic activity toward carotenoids and apocarotenoids. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 15553-15565	5.4	14

98	Astaxanthin-Shifted Gut Microbiota Is Associated with Inflammation and Metabolic Homeostasis in Mice. <i>Journal of Nutrition</i> , <b>2020</b> , 150, 2687-2698	4.1	12
97	Evidence for distinct rate-limiting steps in the cleavage of alkenes by carotenoid cleavage dioxygenases. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 10596-10606	5.4	5
96	Characterization of the novel role of NinaB orthologs from <i>Bombyx mori</i> and <i>Tribolium castaneum</i> . <i>Insect Biochemistry and Molecular Biology</i> , <b>2019</b> , 109, 106-115	4.5	3
95	Genomic and functional gene studies suggest a key role of beta-carotene oxygenase 1 like (bco1l) gene in salmon flesh color. <i>Scientific Reports</i> , <b>2019</b> , 9, 20061	4.9	9
94	Tomato Powder Inhibits Hepatic Steatosis and Inflammation Potentially Through Restoring SIRT1 Activity and Adiponectin Function Independent of Carotenoid Cleavage Enzymes in Mice. <i>Molecular Nutrition and Food Research</i> , <b>2018</b> , 62, e1700738	5.9	39
93	The Biochemical Basis of Vitamin A Production from the Asymmetric Carotenoid $\beta$ -Cryptoxanthin. <i>ACS Chemical Biology</i> , <b>2018</b> , 13, 2121-2129	4.9	32
92	Protective role of carotenoids in the visual cycle. <i>FASEB Journal</i> , <b>2018</b> , 32, fj201800467R	0.9	14
91	Preparation and characterization of metal-substituted carotenoid cleavage oxygenases. <i>Journal of Biological Inorganic Chemistry</i> , <b>2018</b> , 23, 887-901	3.7	10
90	Mutations in the Spliceosome Component CWC27 Cause Retinal Degeneration with or without Additional Developmental Anomalies. <i>American Journal of Human Genetics</i> , <b>2017</b> , 100, 592-604	11	42
89	Structure and Spectroscopy of Alkene-Cleaving Dioxygenases Containing an Atypically Coordinated Non-Heme Iron Center. <i>Biochemistry</i> , <b>2017</b> , 56, 2836-2852	3.2	20
88	Lack of $\beta$ -Carotene-9 $\beta$ -10 $\beta$ -oxygenase 2 leads to hepatic mitochondrial dysfunction and cellular oxidative stress in mice. <i>Molecular Nutrition and Food Research</i> , <b>2017</b> , 61, 1600576	5.9	24
87	Transcription factor ISX mediates the cross talk between diet and immunity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 11530-11535	11.5	19
86	Loss of Extracellular Signal-Regulated Kinase 1/2 in the Retinal Pigment Epithelium Leads to RPE65 Decrease and Retinal Degeneration. <i>Molecular and Cellular Biology</i> , <b>2017</b> , 37,	4.8	5
85	Structural Insights into the <i>Drosophila melanogaster</i> Retinol Dehydrogenase, a Member of the Short-Chain Dehydrogenase/Reductase Family. <i>Biochemistry</i> , <b>2016</b> , 55, 6545-6557	3.2	14
84	The Biochemical Basis of Vitamin A3 Production in Arthropod Vision. <i>ACS Chemical Biology</i> , <b>2016</b> , 11, 1049-57	4.9	21
83	Dietary Tomato Powder Inhibits Hepatic Steatosis, Inflammation and Tumorigenesis in Beta-carotene-15, 15 $\beta$ -oxygenase (BCO1) and Beta-carotene-9, 10 $\beta$ -oxygenase (BCO2) Double Knockout Mice. <i>FASEB Journal</i> , <b>2016</b> , 30, 34.1	0.9	
82	Genetic dissection in a mouse model reveals interactions between carotenoids and lipid metabolism. <i>Journal of Lipid Research</i> , <b>2016</b> , 57, 1684-95	6.3	22
81	Transport of vitamin A across blood-tissue barriers is facilitated by STRA6. <i>FASEB Journal</i> , <b>2016</b> , 30, 2985-95	3.5	25

80	A genetic dissection of intestinal fat-soluble vitamin and carotenoid absorption. <i>Human Molecular Genetics</i> , <b>2015</b> , 24, 3206-19	5.6	65
79	The role of 11-cis-retinyl esters in vertebrate cone vision. <i>FASEB Journal</i> , <b>2015</b> , 29, 216-26	0.9	12
78	Characterization of the Role of $\beta$ -Carotene 9,10-Dioxygenase in Macular Pigment Metabolism. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 24844-57	5.4	53
77	Retinylamine Benefits Early Diabetic Retinopathy in Mice. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 21568-79	5.4	33
76	Retinoids and the Visual Cycle <b>2015</b> , 401-419		
75	Nmnat1-Rbp7 Is a Conserved Fusion-Protein That Combines NAD <sup>+</sup> Catalysis of Nmnat1 with Subcellular Localization of Rbp7. <i>PLoS ONE</i> , <b>2015</b> , 10, e0143825	3.7	1
74	Utilization of Dioxygen by Carotenoid Cleavage Oxygenases. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 30212-23	5.4	41
73	Lycopene and apo-10Slycopenoic acid have differential mechanisms of protection against hepatic steatosis in $\beta$ -carotene-9S10Soxygenase knockout male mice. <i>Journal of Nutrition</i> , <b>2015</b> , 145, 268-76	4.1	35
72	STRA6: role in cellular retinol uptake and efflux. <i>Hepatobiliary Surgery and Nutrition</i> , <b>2015</b> , 4, 229-42	2.1	16
71	$\beta$ -Carotene during the suckling period is absorbed intact and induces retinoic acid dependent responses similar to preformed vitamin A in intestine and liver, but not adipose tissue of young rats. <i>Molecular Nutrition and Food Research</i> , <b>2014</b> , 58, 2157-65	5.9	14
70	Evidence for compartmentalization of mammalian carotenoid metabolism. <i>FASEB Journal</i> , <b>2014</b> , 28, 4457-69	5.9	71
69	Analysis of carotenoid isomerase activity in a prototypical carotenoid cleavage enzyme, apocarotenoid oxygenase (ACO). <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 12286-99	5.4	27
68	STRA6 is critical for cellular vitamin A uptake and homeostasis. <i>Human Molecular Genetics</i> , <b>2014</b> , 23, 5402-17	5.6	67
67	Lycopene attenuated hepatic tumorigenesis via differential mechanisms depending on carotenoid cleavage enzyme in mice. <i>Cancer Prevention Research</i> , <b>2014</b> , 7, 1219-27	3.2	43
66	Structural basis of carotenoid cleavage: from bacteria to mammals. <i>Archives of Biochemistry and Biophysics</i> , <b>2013</b> , 539, 203-13	4.1	98
65	Characterization of human $\beta$ -carotene-15,15Smonooxygenase (BCMO1) as a soluble monomeric enzyme. <i>Archives of Biochemistry and Biophysics</i> , <b>2013</b> , 539, 214-22	4.1	23
64	Identification of nonvisual photomotor response cells in the vertebrate hindbrain. <i>Journal of Neuroscience</i> , <b>2013</b> , 33, 3834-43	6.6	77
63	Genetic ablation of the fatty acid-binding protein FABP5 suppresses HER2-induced mammary tumorigenesis. <i>Cancer Research</i> , <b>2013</b> , 73, 4770-80	10.1	74

62	Genetics and diet regulate vitamin A production via the homeobox transcription factor ISX. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 9017-27	5.4	81
61	Two carotenoid oxygenases contribute to mammalian provitamin A metabolism. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 34081-34096	5.4	110
60	STRA6: A gatekeeper of neuronal vitamin A homeostasis. <i>FASEB Journal</i> , <b>2013</b> , 27, lb83	0.9	
59	Provitamin A metabolism and functions in mammalian biology. <i>American Journal of Clinical Nutrition</i> , <b>2012</b> , 96, 1234S-44S	7	91
58	Mammalian carotenoid-oxygenases: key players for carotenoid function and homeostasis. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2012</b> , 1821, 78-87	5	81
57	Differential expression of the demosponge ( <i>Suberites domuncula</i> ) carotenoid oxygenases in response to light: protection mechanism against the self-produced toxic protein (Suberitine). <i>Marine Drugs</i> , <b>2012</b> , 10, 177-99	6	6
56	Metabolism of carotenoids and retinoids related to vision. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 1627-34	5.4	55
55	BCDO2 acts as a carotenoid scavenger and gatekeeper for the mitochondrial apoptotic pathway. <i>Development (Cambridge)</i> , <b>2012</b> , 139, 2966-77	6.6	90
54	The <i>Drosophila</i> visual cycle and de novo chromophore synthesis depends on rdhB. <i>Journal of Neuroscience</i> , <b>2012</b> , 32, 3485-91	6.6	39
53	Lecithin:retinol acyltransferase is critical for cellular uptake of vitamin A from serum retinol-binding protein. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 24216-27	5.4	67
52	Interaction of the retinoic acid signaling pathway with spicule formation in the marine sponge <i>Suberites domuncula</i> through activation of bone morphogenetic protein-1. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2011</b> , 1810, 1178-94	4	26
51	Dietary 9-cis- $\beta$ -carotene fails to rescue vision in mouse models of leber congenital amaurosis. <i>Molecular Pharmacology</i> , <b>2011</b> , 80, 943-52	4.3	28
50	A mitochondrial enzyme degrades carotenoids and protects against oxidative stress. <i>FASEB Journal</i> , <b>2011</b> , 25, 948-59	0.9	223
49	Beta-carotene reduces body adiposity of mice via BCMO1. <i>PLoS ONE</i> , <b>2011</b> , 6, e20644	3.7	111
48	Downregulation of Fzd6 and Cthrc1 and upregulation of olfactory receptors and protocadherins by dietary beta-carotene in lungs of Bcmo1 <sup>-/-</sup> mice. <i>Carcinogenesis</i> , <b>2010</b> , 31, 1329-37	4.6	13
47	ISX is a retinoic acid-sensitive gatekeeper that controls intestinal beta,beta-carotene absorption and vitamin A production. <i>FASEB Journal</i> , <b>2010</b> , 24, 1656-66	0.9	171
46	Loss of carotene-9S10Smonooxygenase expression increases serum and tissue lycopene concentrations in lycopene-fed mice. <i>Journal of Nutrition</i> , <b>2010</b> , 140, 2134-8	4.1	41
45	NinaB is essential for <i>Drosophila</i> vision but induces retinal degeneration in opsin-deficient photoreceptors. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 2130-9	5.4	34

44	Increased adiposity in the retinol saturase-knockout mouse. <i>FASEB Journal</i> , <b>2010</b> , 24, 1261-70	0.9	35
43	Beta,beta-carotene decreases peroxisome proliferator receptor gamma activity and reduces lipid storage capacity of adipocytes in a beta,beta-carotene oxygenase 1-dependent manner. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 27891-9	5.4	103
42	Hepatic stellate cells are an important cellular site for beta-carotene conversion to retinoid. <i>Archives of Biochemistry and Biophysics</i> , <b>2010</b> , 504, 3-10	4.1	52
41	Colors with functions: elucidating the biochemical and molecular basis of carotenoid metabolism. <i>Annual Review of Nutrition</i> , <b>2010</b> , 30, 35-56	9.9	185
40	Knockout of the Bcmo1 gene results in an inflammatory response in female lung, which is suppressed by dietary beta-carotene. <i>Cellular and Molecular Life Sciences</i> , <b>2010</b> , 67, 2039-56	10.3	24
39	The biochemical and structural basis for trans-to-cis isomerization of retinoids in the chemistry of vision. <i>Trends in Biochemical Sciences</i> , <b>2010</b> , 35, 400-10	10.3	89
38	Requirement for an enzymatic visual cycle in Drosophila. <i>Current Biology</i> , <b>2010</b> , 20, 93-102	6.3	90
37	Genotype and diet alter carotenoid bioaccumulation and the expression of carotenoid cleavage enzymes in CMO-I KO, CMO-II KO, and wild-type mice. <i>FASEB Journal</i> , <b>2010</b> , 24, 539.7	0.9	
36	In conditions of limited chromophore supply rods entrap 11-cis-retinal leading to loss of cone function and cell death. <i>Human Molecular Genetics</i> , <b>2009</b> , 18, 1266-75	5.6	44
35	Activation of retinoic acid receptors by dihydroretinoids. <i>Molecular Pharmacology</i> , <b>2009</b> , 76, 1228-37	4.3	34
34	beta-Carotene conversion products and their effects on adipose tissue. <i>Genes and Nutrition</i> , <b>2009</b> , 4, 179-87	4.3	54
33	NinaB combines carotenoid oxygenase and retinoid isomerase activity in a single polypeptide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 19000-5	11.5	72
32	RBP4 disrupts vitamin A uptake homeostasis in a STRA6-deficient animal model for Matthew-Wood syndrome. <i>Cell Metabolism</i> , <b>2008</b> , 7, 258-68	24.6	138
31	Metabolic basis of visual cycle inhibition by retinoid and nonretinoid compounds in the vertebrate retina. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 9543-54	5.4	78
30	Subfunctionalization of a retinoid-binding protein provides evidence for two parallel visual cycles in the cone-dominant zebrafish retina. <i>Journal of Neuroscience</i> , <b>2008</b> , 28, 8208-16	6.6	57
29	R91W mutation in Rpe65 leads to milder early-onset retinal dystrophy due to the generation of low levels of 11-cis-retinal. <i>Human Molecular Genetics</i> , <b>2008</b> , 17, 281-92	5.6	75
28	Carotenoid monooxygenase II knock-out mice exhibit phenotypical differences and altered lycopene accumulation pattern compared to C57Bl6 mice. <i>FASEB Journal</i> , <b>2008</b> , 22, 1105.9	0.9	
27	RPE65 is essential for the function of cone photoreceptors in NRL-deficient mice. <i>Investigative Ophthalmology and Visual Science</i> , <b>2007</b> , 48, 534-42		57

26	Evidence for RPE65-independent vision in the cone-dominated zebrafish retina. <i>European Journal of Neuroscience</i> , <b>2007</b> , 26, 1940-9	3.5	46
25	CMO1 deficiency abolishes vitamin A production from beta-carotene and alters lipid metabolism in mice. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 33553-33561	5.4	193
24	Sequestration of retinyl esters is essential for retinoid signaling in the zebrafish embryo. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 1144-51	5.4	31
23	The Drosophila class B scavenger receptor NinaD-I is a cell surface receptor mediating carotenoid transport for visual chromophore synthesis. <i>Biochemistry</i> , <b>2006</b> , 45, 13429-37	3.2	65
22	Towards a better understanding of carotenoid metabolism in animals. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2005</b> , 1740, 122-31	6.9	84
21	A mutation in the silver gene leads to defects in melanosome biogenesis and alterations in the visual system in the zebrafish mutant fading vision. <i>Developmental Biology</i> , <b>2005</b> , 284, 421-36	3.1	81
20	Related enzymes solve evolutionarily recurrent problems in the metabolism of carotenoids. <i>Trends in Plant Science</i> , <b>2005</b> , 10, 178-86	13.1	116
19	Photoreceptor morphology is severely affected in the beta,beta-carotene-15,15Soxygenase (bcox) zebrafish morphant. <i>European Journal of Neuroscience</i> , <b>2005</b> , 21, 59-68	3.5	15
18	The retinal G protein-coupled receptor (RGR) enhances isomerohydrolase activity independent of light. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 29874-84	5.4	67
17	beta-Carotene conversion into vitamin A in human retinal pigment epithelial cells. <i>Investigative Ophthalmology and Visual Science</i> , <b>2005</b> , 46, 3562-9		55
16	Vitamin A formation in animals: molecular identification and functional characterization of carotene cleaving enzymes. <i>Journal of Nutrition</i> , <b>2004</b> , 134, 2515-6S	4.1	59
15	Structural and functional characterization of the phytoene synthase promoter from Arabidopsis thaliana. <i>Planta</i> , <b>2003</b> , 216, 523-34	4.7	76
14	Carotenoid oxygenases: cleave it or leave it. <i>Trends in Plant Science</i> , <b>2003</b> , 8, 145-9	13.1	197
13	Provitamin A conversion to retinal via the beta,beta-carotene-15,15Soxygenase (bcox) is essential for pattern formation and differentiation during zebrafish embryogenesis. <i>Development (Cambridge)</i> , <b>2003</b> , 130, 2173-86	6.6	117
12	A class B scavenger receptor mediates the cellular uptake of carotenoids in Drosophila. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 10581-6	11.5	200
11	Identification and characterization of a mammalian enzyme catalyzing the asymmetric oxidative cleavage of provitamin A. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 14110-6	5.4	336
10	Molecular analysis of vitamin A formation: cloning and characterization of beta-carotene 15,15Sdioxygenases. <i>Archives of Biochemistry and Biophysics</i> , <b>2001</b> , 385, 47-52	4.1	84
9	Regulation and activation of phytoene synthase, a key enzyme in carotenoid biosynthesis, during photomorphogenesis. <i>Planta</i> , <b>2000</b> , 211, 846-54	4.7	154



8	Filling the gap in vitamin A research. Molecular identification of an enzyme cleaving beta-carotene to retinal. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 11915-20	5.4	360
7	Chloroplast import of four carotenoid biosynthetic enzymes in vitro reveals differential fates prior to membrane binding and oligomeric assembly. <i>FEBS Journal</i> , <b>1997</b> , 247, 942-50		75
6	Light-dependent regulation of carotenoid biosynthesis occurs at the level of phytoene synthase expression and is mediated by phytochrome in <i>Sinapis alba</i> and <i>Arabidopsis thaliana</i> seedlings. <i>Plant Journal</i> , <b>1997</b> , 12, 625-34	6.9	121
5	Transgenic rice ( <i>Oryza sativa</i> ) endosperm expressing daffodil ( <i>Narcissus pseudonarcissus</i> ) phytoene synthase accumulates phytoene, a key intermediate of provitamin A biosynthesis. <i>Plant Journal</i> , <b>1997</b> , 11, 1071-8	6.9	274
4	Light-dependent regulation of carotenoid biosynthesis occurs at the level of phytoene synthase expression and is mediated by phytochrome in <i>Sinapis alba</i> and <i>Arabidopsis thaliana</i> seedlings. <i>Plant Journal</i> , <b>1997</b> , 12, 625-634	6.9	174
3	Ti plasmid-encoded octopine and nopaline catabolism in <i>Agrobacterium</i> : specificities of the LysR-type regulators OccR and NocR, and protein-induced DNA bending. <i>Molecular Genetics and Genomics</i> , <b>1995</b> , 249, 102-10		7
2	Temperature-sensitive step in Ti plasmid vir-region induction and correlation with cytokinin secretion by <i>Agrobacteria</i> . <i>Molecular Genetics and Genomics</i> , <b>1988</b> , 213, 1-8		50
1	Genomic consequences of domestication of the Siamese fighting fish		1