

# Marc Birringer

## List of Publications by Year in descending order

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87  
papers

7,196  
citations

94433

37  
h-index

60623

81  
g-index

95  
all docs

95  
docs citations

95  
times ranked

8811  
citing authors

#	ARTICLE	IF	CITATIONS
1	Antioxidants prevent health-promoting effects of physical exercise in humans. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 8665-8670.	7.1	1,315
2	Glucose Restriction Extends Caenorhabditis elegans Life Span by Inducing Mitochondrial Respiration and Increasing Oxidative Stress. Cell Metabolism, 2007, 6, 280-293.	16.2	1,051
3	Trends in selenium biochemistry. Natural Product Reports, 2002, 19, 693-718.	10.3	399
4	Vitamin E: Emerging aspects and new directions. Free Radical Biology and Medicine, 2017, 102, 16-36.	2.9	320
5	Chemical Speciation Influences Comparative Activity of Selenium-Enriched Garlic and Yeast in Mammary Cancer Prevention. Journal of Agricultural and Food Chemistry, 2000, 48, 2062-2070.	5.2	268
6	Selenium speciation in enriched and natural samples by HPLC-ICP-MS and HPLC-ESI-MS with perfluorinated carboxylic acid ion-pairing agents. Analyst, The, 2000, 125, 71-78.	3.5	233
7	Vitamin E activates gene expression via the pregnane X receptor. Biochemical Pharmacology, 2003, 65, 269-273.	4.4	213
8	Role of sirtuins in lifespan regulation is linked to methylation of nicotinamide. Nature Chemical Biology, 2013, 9, 693-700.	8.0	203
9	Identities and Differences in the Metabolism of Tocotrienols and Tocopherols in HepG2 Cells. Journal of Nutrition, 2002, 132, 3113-3118.	2.9	193
10	Tocopherols are metabolized in HepG2 cells by side chain $\alpha$ -oxidation and consecutive $\beta$ -oxidation. Free Radical Biology and Medicine, 2001, 31, 226-232.	2.9	162
11	Complexity of vitamin E metabolism. World Journal of Biological Chemistry, 2016, 7, 14.	4.3	157
12	Anaerobic C-ring cleavage of genistein and daidzein by Eubacterium ramulus. FEMS Microbiology Letters, 2002, 208, 197-202.	1.8	132
13	Vitamin E Analogs, a Novel Group of "Mitocans," as Anticancer Agents: The Importance of Being Redox-Silent. Molecular Pharmacology, 2007, 71, 1185-1199.	2.3	131
14	Vitamin E analogues as inducers of apoptosis: structure-function relation. British Journal of Cancer, 2003, 88, 1948-1955.	6.4	127
15	Identification of the principal selenium compounds in selenium-enriched natural sample extracts by ion-pair liquid chromatography with inductively coupled plasma- and electrospray ionization-mass spectrometric detection. Analytical Communications, 1999, 36, 249-252.	2.2	112
16	Comparison of different selenocompounds with respect to nutritional value vs. toxicity using liver cells in culture. Journal of Nutritional Biochemistry, 2011, 22, 945-955.	4.2	102
17	Endogenous metabolites of vitamin E limit inflammation by targeting 5-lipoxygenase. Nature Communications, 2018, 9, 3834.	12.8	101
18	Vitamin E Analogues: A New Class of Inducers of Apoptosis with Selective Anti-Cancer Effects. Current Cancer Drug Targets, 2004, 4, 355-372.	1.6	95

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19	Influence of roasting conditions on health-related compounds in different nuts. <i>Food Chemistry</i> , 2015, 180, 77-85.	8.2	90
20	Hormetics: Dietary Triggers of an Adaptive Stress Response. <i>Pharmaceutical Research</i> , 2011, 28, 2680-2694.	3.5	85
21	A Peptide Conjugate of Vitamin E Succinate Targets Breast Cancer Cells with High ErbB2 Expression. <i>Cancer Research</i> , 2007, 67, 3337-3344.	0.9	84
22	Proapoptotic effects of long-chain vitamin E metabolites in HepG2 cells are mediated by oxidative stress. <i>Free Radical Biology and Medicine</i> , 2010, 49, 1315-1322.	2.9	83
23	Regulatory metabolites of vitamin E and their putative relevance for atherogenesis. <i>Redox Biology</i> , 2014, 2, 495-503.	9.0	75
24	Allium Chemistry: A Synthesis, Natural Occurrence, Biological Activity, and Chemistry of Se-Alk(en)ylselenocysteines and Their $\gamma$ -Glutamyl Derivatives and Oxidation Products. <i>Journal of Agricultural and Food Chemistry</i> , 2001, 49, 458-470.	5.2	70
25	Synthesis, Properties, Oxidation, and Electrochemistry of 1,2-Dichalcogenins. <i>Journal of the American Chemical Society</i> , 2000, 122, 5052-5064.	13.7	67
26	1,2-Dichalcogenins: Simple Syntheses of 1,2-Diselenins, 1,2-Dithiins, and 2-Selenathiin. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 1604-1607.	13.8	58
27	Rice bran extract protects from mitochondrial dysfunction in guinea pig brains. <i>Pharmacological Research</i> , 2013, 76, 17-27.	7.1	58
28	Long-chain metabolites of $\gamma$ -tocopherol occur in human serum and inhibit macrophage foam cell formation in vitro. <i>Free Radical Biology and Medicine</i> , 2014, 68, 43-51.	2.9	54
29	$\gamma$ -Tocopherol long-chain metabolite $\gamma$ -13 <sup>TM</sup> -COOH affects the inflammatory response of lipopolysaccharide-activated murine RAW264.7 macrophages. <i>Molecular Nutrition and Food Research</i> , 2015, 59, 1524-1534.	3.3	53
30	Natural 6-hydroxy-chromanols and -chromenols: structural diversity, biosynthetic pathways and health implications. <i>RSC Advances</i> , 2018, 8, 4803-4841.	3.6	53
31	Impaired respiration is positively correlated with decreased life span in <i>Caenorhabditis elegans</i> models of Friedreich Ataxia. <i>FASEB Journal</i> , 2007, 21, 1271-1275.	0.5	51
32	Homologous metabolic and gene activating routes for vitamins E and K. <i>Molecular Aspects of Medicine</i> , 2003, 24, 337-344.	6.4	49
33	Small-Molecule Targeting of the Mitochondrial Compartment with an Endogenously Cleaved Reversible Tag. <i>ChemBioChem</i> , 2009, 10, 1689-1696.	2.6	48
34	Long-Chain Metabolites of Vitamin E: Metabolic Activation as a General Concept for Lipid-Soluble Vitamins?. <i>Antioxidants</i> , 2018, 7, 10.	5.1	47
35	Differential Effects of Resveratrol and SRT1720 on Lifespan of Adult <i>Caenorhabditis elegans</i> . <i>Hormone and Metabolic Research</i> , 2010, 42, 837-839.	1.5	43
36	The Phytochemical Glucarubinone Promotes Mitochondrial Metabolism, Reduces Body Fat, and Extends Lifespan of <i>Caenorhabditis elegans</i> . <i>Hormone and Metabolic Research</i> , 2011, 43, 241-243.	1.5	38

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37	Analytical strategies to assess the functional metabolome of vitamin E. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016, 124, 399-412.	2.8	38
38	Determination of tocopherols and their metabolites by liquid-chromatography coupled with tandem mass spectrometry in human plasma and serum. <i>Talanta</i> , 2017, 170, 552-561.	5.5	38
39	Human serum determination and in vitro anti-inflammatory activity of the vitamin E metabolite $\hat{\pm}$ -(13'-hydroxy)-6-hydroxychroman. <i>Free Radical Biology and Medicine</i> , 2015, 89, 952-962.	2.9	37
40	Sugar profile and physicochemical properties of Ethiopian monofloral honey. <i>International Journal of Food Properties</i> , 2017, 20, 2855-2866.	3.0	32
41	Vitamin E: Regulatory role of metabolites. <i>IUBMB Life</i> , 2019, 71, 479-486.	3.4	31
42	Rheology and botanical origin of Ethiopian monofloral honey. <i>LWT - Food Science and Technology</i> , 2017, 75, 393-401.	5.2	30
43	The long chain $\hat{\pm}$ -tocopherol metabolite $\hat{\pm}$ - $\hat{\pm}$ - $\hat{\pm}$ -COOH and $\hat{\pm}$ -tocotrienol induce $\hat{\pm}$ -glycoprotein expression and activity by activation of the pregnane X receptor in the intestinal cell line LS 180. <i>Molecular Nutrition and Food Research</i> , 2017, 61, 1600605.	3.3	29
44	Variable Expression of Cre Recombinase Transgenes Precludes Reliable Prediction of Tissue-Specific Gene Disruption by Tail-Biopsy Genotyping. <i>PLoS ONE</i> , 2007, 2, e1013.	2.5	29
45	<i>In vitro</i> fermented nuts exhibit chemopreventive effects in HT29 colon cancer cells. <i>British Journal of Nutrition</i> , 2012, 108, 1177-1186.	2.3	28
46	Gas-Phase Photoelectron Spectroscopic and Theoretical Studies of 1,2-Dichalcogenins: $\hat{\pm}$ Ionization Energies, Orbital Assignments, and an Explanation of Their Color. <i>Journal of the American Chemical Society</i> , 2000, 122, 5065-5074.	13.7	27
47	The vitamin E derivative garcinoic acid from <i>Garcinia kola</i> nut seeds attenuates the inflammatory response. <i>Redox Biology</i> , 2019, 24, 101166.	9.0	27
48	Enzyme activity, amino acid profiles and hydroxymethylfurfural content in Ethiopian monofloral honey. <i>Journal of Food Science and Technology</i> , 2017, 54, 2769-2778.	2.8	26
49	Analysis of vitamin E metabolites in biological specimen. <i>Molecular Nutrition and Food Research</i> , 2010, 54, 588-598.	3.3	25
50	Resveratrol, lunularin and dihydroresveratrol do not act as caloric restriction mimetics when administered intraperitoneally in mice. <i>Scientific Reports</i> , 2019, 9, 4445.	3.3	25
51	Pesticide residues in food in the European Union: Analysis of notifications in the European Rapid Alert System for Food and Feed from 2002 to 2020. <i>Food Control</i> , 2022, 133, 108575.	5.5	23
52	Sesquiterpene Lactone Composition and Cellular Nrf2 Induction of <i>Taraxacum officinale</i> Leaves and Roots and Taraxinic Acid $\hat{\pm}$ -d-Glucopyranosyl Ester. <i>Journal of Medicinal Food</i> , 2017, 20, 71-78.	1.5	22
53	Structure-Function Relationship Studies In Vitro Reveal Distinct and Specific Effects of Long-Chain Metabolites of Vitamin E. <i>Molecular Nutrition and Food Research</i> , 2017, 61, 1700562.	3.3	21
54	Lithium-Rich Mineral Water is a Highly Bioavailable Lithium Source for Human Consumption. <i>Molecular Nutrition and Food Research</i> , 2019, 63, e1900039.	3.3	19

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55	Hydroxylation of phylloquinone by CYP4F2 is not increased by $\alpha$ -tocopherol. <i>Molecular Nutrition and Food Research</i> , 2013, 57, 1785-1793.	3.3	17
56	Peptide microarrays with site-specifically immobilized synthetic peptides for antibody diagnostics. <i>Sensors and Actuators B: Chemical</i> , 2006, 113, 655-663.	7.8	16
57	Long-chain metabolites of vitamin E: Interference with lipotoxicity via lipid droplet associated protein PLIN2. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2018, 1863, 919-927.	2.4	15
58	The Putative Caloric Restriction Mimetic Resveratrol has Moderate Impact on Insulin Sensitivity, Body Composition, and the Metabolome in Mice. <i>Molecular Nutrition and Food Research</i> , 2020, 64, e1901116.	3.3	15
59	A Cell-based High-throughput Assay System Reveals Modulation of Oxidative and Nonoxidative Glucose Metabolism due to Commonly Used Organic Solvents. <i>Hormone and Metabolic Research</i> , 2008, 40, 29-37.	1.5	13
60	Resveratrol Modulates Desaturase Expression and Fatty Acid Composition of Cultured Hepatocytes. <i>Frontiers in Nutrition</i> , 2018, 5, 106.	3.7	13
61	Diversity of Chromanol and Chromenol Structures and Functions: An Emerging Class of Anti-Inflammatory and Anti-Carcinogenic Agents. <i>Frontiers in Pharmacology</i> , 2020, 11, 362.	3.5	13
62	Improved glucose metabolism in mice lacking $\alpha$ -tocopherol transfer protein. <i>European Journal of Nutrition</i> , 2007, 46, 397-405.	3.9	12
63	Plasma Lithium Levels in the General Population: A Cross-Sectional Analysis of Metabolic and Dietary Correlates. <i>Nutrients</i> , 2020, 12, 2489.	4.1	12
64	Lithium Content of 160 Beverages and Its Impact on Lithium Status in <i>Drosophila melanogaster</i> . <i>Foods</i> , 2020, 9, 795.	4.3	11
65	The $\alpha$ -tocopherol-derived long-chain metabolite $\alpha$ -13 $\alpha$ -COOH mediates endotoxin tolerance and modulates the inflammatory response via MAPK and NF $\kappa$ B pathways. <i>Free Radical Biology and Medicine</i> , 2022, 178, 83-96.	2.9	11
66	CYP4F2 repression and a modified alpha-tocopherol (vitamin E) metabolism are two independent consequences of ethanol toxicity in human hepatocytes. <i>Toxicology in Vitro</i> , 2017, 40, 124-133.	2.4	10
67	Bioactivation of Selenocysteine Derivatives by $\alpha$ -Lyases Present in Common Gastrointestinal Bacterial Species. <i>International Journal for Vitamin and Nutrition Research</i> , 2008, 78, 169-174.	1.5	9
68	The Need for a Legal Distinction of Nutraceuticals. <i>Food and Nutrition Sciences (Print)</i> , 2014, 05, 905-913.	0.4	9
69	Anaerobic C-ring cleavage of genistein and daidzein by <i>Eubacterium ramulus</i> . <i>FEMS Microbiology Letters</i> , 2002, 208, 197-202.	1.8	8
70	Evaluation of specific import provisions for food products from third countries based on an analysis of RASFF notifications on pesticide residues. <i>Food Control</i> , 2022, 133, 108581.	5.5	8
71	Garcinoic Acid. <i>Studies in Natural Products Chemistry</i> , 2016, 51, 435-481.	1.8	7
72	European Health Claims for Small and Medium-Sized Companies – Utopian Dream or Future Reality?. <i>Functional Foods in Health and Disease</i> , 2015, 5, 44.	0.6	7

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73	Regulation of inflammatory pathways by an a-tocopherol long-chain metabolite and a d-tocotrienol-related natural compound.. Free Radical Biology and Medicine, 2014, 75, S48.	2.9	6
74	Boron Contents of German Mineral and Medicinal Waters and Their Bioavailability in <i>Drosophila melanogaster</i> and Humans. Molecular Nutrition and Food Research, 2021, 65, e2100345.	3.3	6
75	Strategic framing of genome editing in agriculture: an analysis of the debate in Germany in the run-up to the European Court of Justice ruling. Agriculture and Human Values, 2022, 39, 617-632.	3.0	6
76	The Hepatic Fate of Vitamin E. , 0, , .		4
77	History of Vitamin E Research. , 2019, , 7-18.		4
78	Bioeconomy and Genome Editing: A Comparison Between Germany and the Netherlands. , 2022, , 183-198.		3
79	Warnmeldungen zu Lebensmittelkontaktmaterialien im Europäischen Schnellwarnsystem RASFF von 2012 bis 2017. Journal Fur Verbraucherschutz Und Lebensmittelsicherheit, 2018, 13, 347-357.	1.4	2
80	Bioavailability and Metabolism of Vitamin E. , 2019, , 31-41.		2
81	Trends in Selenium Biochemistry. ChemInform, 2003, 34, no.	0.0	1
82	Mechanisms of Vitamin E Metabolism. , 2003, , .		1
83	Near-Infrared Laser Scanning (NILS) to Differentiate Historical Inks, Deployed on a Stained and Faded Ninth-Century Fragment of Boethius Reused as Binding Material: Proving a Concept. Restaurator, 2016, 37, 1-13.	0.2	0
84	Garcinia kola – African ethno medication with anti-atherosclerotic effects?. Free Radical Biology and Medicine, 2017, 108, S33.	2.9	0
85	Bioactivity of Vitamin E Long-Chain Metabolites. , 2019, , 61-79.		0
86	Occurrence and Bioactivities of Minor Vitamin E Derivatives. , 2019, , 43-60.		0
87	Development of Peptide Chips for Biomedical Applications. , 0, 2004, .		0