

Georg T Wondrak

List of Publications by Year in descending order

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83
papers

5,360
citations

87888

38
h-index

82547

72
g-index

84
all docs

84
docs citations

84
times ranked

7829
citing authors

#	ARTICLE	IF	CITATIONS
1	Nrf2 enhances resistance of cancer cells to chemotherapeutic drugs, the dark side of Nrf2. <i>Carcinogenesis</i> , 2008, 29, 1235-1243.	2.8	691
2	Therapeutic Potential of Nrf2 Activators in Streptozotocin-Induced Diabetic Nephropathy. <i>Diabetes</i> , 2011, 60, 3055-3066.	0.6	445
3	Redox-Directed Cancer Therapeutics: Molecular Mechanisms and Opportunities. <i>Antioxidants and Redox Signaling</i> , 2009, 11, 3013-3069.	5.4	409
4	Endogenous UVA-photosensitizers: mediators of skin photodamage and novel targets for skin photoprotection. <i>Photochemical and Photobiological Sciences</i> , 2006, 5, 215-237.	2.9	343
5	An Essential Role of NRF2 in Diabetic Wound Healing. <i>Diabetes</i> , 2016, 65, 780-793.	0.6	173
6	The cinnamon-derived Michael acceptor cinnamic aldehyde impairs melanoma cell proliferation, invasiveness, and tumor growth. <i>Free Radical Biology and Medicine</i> , 2009, 46, 220-231.	2.9	151
7	Resveratrol Prevents Epigenetic Silencing of BRCA-1 by the Aromatic Hydrocarbon Receptor in Human Breast Cancer Cells. <i>Journal of Nutrition</i> , 2010, 140, 1607-1614.	2.9	125
8	The Cinnamon-Derived Dietary Factor Cinnamic Aldehyde Activates the Nrf2-Dependent Antioxidant Response in Human Epithelial Colon Cells. <i>Molecules</i> , 2010, 15, 3338-3355.	3.8	123
9	Pentoses and Hexoses as Sources of New Melanoidin-like Maillard Polymers. <i>Journal of Agricultural and Food Chemistry</i> , 1998, 46, 1765-1776.	5.2	120
10	DNA damage by carbonyl stress in human skin cells. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2003, 522, 45-56.	1.0	108
11	Identification of α -dicarbonyl scavengers for cellular protection against carbonyl stress. <i>Biochemical Pharmacology</i> , 2002, 63, 361-373.	4.4	106
12	Proteins of the Extracellular Matrix Are Sensitizers of Photo-oxidative Stress in Human Skin Cells. <i>Journal of Investigative Dermatology</i> , 2003, 121, 578-586.	0.7	99
13	The Nrf2-inducers tanshinone I and dihydrotanshinone protect human skin cells and reconstructed human skin against solar simulated UV. <i>Redox Biology</i> , 2013, 1, 532-541.	9.0	92
14	Tanshinone I Activates the Nrf2-Dependent Antioxidant Response and Protects Against As(III)-Induced Lung Inflammation <i>In Vitro</i> and <i>In Vivo</i> . <i>Antioxidants and Redox Signaling</i> , 2013, 19, 1647-1661.	5.4	89
15	Cinnamoyl-based Nrf2-activators targeting human skin cell photo-oxidative stress. <i>Free Radical Biology and Medicine</i> , 2008, 45, 385-395.	2.9	87
16	Systemic administration of the apocarotenoid bixin protects skin against solar UV-induced damage through activation of NRF2. <i>Free Radical Biology and Medicine</i> , 2015, 89, 690-700.	2.9	85
17	GLO1 overexpression in human malignant melanoma. <i>Melanoma Research</i> , 2010, 20, 85-96.	1.2	82
18	Histone carbonylation in vivo and in vitro. <i>Biochemical Journal</i> , 2000, 351, 769-777.	3.7	78

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19	The redox antimalarial dihydroartemisinin targets human metastatic melanoma cells but not primary melanocytes with induction of NOXA-dependent apoptosis. <i>Investigational New Drugs</i> , 2012, 30, 1289-1301.	2.6	73
20	The Tryptophan-Derived Endogenous Aryl Hydrocarbon Receptor Ligand 6-Formylindolo[3,2-b]Carbazole Is a Nanomolar UVA Photosensitizer in Epidermal Keratinocytes. <i>Journal of Investigative Dermatology</i> , 2015, 135, 1649-1658.	0.7	72
21	New Melanoidin-like Maillard Polymers from 2-Deoxypentoses. <i>Journal of Agricultural and Food Chemistry</i> , 1998, 46, 104-110.	5.2	70
22	The antimalarial amodiaquine causes autophagic-lysosomal and proliferative blockade sensitizing human melanoma cells to starvation- and chemotherapy-induced cell death. <i>Autophagy</i> , 2013, 9, 2087-2102.	9.1	69
23	3-Hydroxypyridine Chromophores Are Endogenous Sensitizers of Photooxidative Stress in Human Skin Cells. <i>Journal of Biological Chemistry</i> , 2004, 279, 30009-30020.	3.4	68
24	Optimizing the energy status of skin cells during solar radiation. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2001, 63, 141-147.	3.8	65
25	Experimental therapeutics: targeting the redox Achilles heel of cancer. <i>Current Opinion in Investigational Drugs</i> , 2007, 8, 1022-37.	2.3	64
26	Photosensitized Growth Inhibition of Cultured Human Skin Cells: Mechanism and Suppression of Oxidative Stress from Solar Irradiation of Glycated Proteins. <i>Journal of Investigative Dermatology</i> , 2002, 119, 489-498.	0.7	63
27	The topical antimicrobial zinc pyrithione is a heat shock response inducer that causes DNA damage and PARP-dependent energy crisis in human skin cells. <i>Cell Stress and Chaperones</i> , 2010, 15, 309-322.	2.9	62
28	Nrf2-Dependent Suppression of Azoxymethane/Dextran Sulfate Sodium-Induced Colon Carcinogenesis by the Cinnamon-Derived Dietary Factor Cinnamaldehyde. <i>Cancer Prevention Research</i> , 2015, 8, 444-454.	1.5	62
29	Targeting NRF2 for Improved Skin Barrier Function and Photoprotection: Focus on the Achiote-Derived Apocarotenoid Bixin. <i>Nutrients</i> , 2017, 9, 1371.	4.1	59
30	Bixin protects mice against ventilation-induced lung injury in an NRF2-dependent manner. <i>Scientific Reports</i> , 2016, 6, 18760.	3.3	58
31	NQO1-activated phenothiazinium redox cyclers for the targeted bioreductive induction of cancer cell apoptosis. <i>Free Radical Biology and Medicine</i> , 2007, 43, 178-190.	2.9	57
32	The experimental chemotherapeutic N6-furfuryladenine (kinetin-riboside) induces rapid ATP depletion, genotoxic stress, and CDKN1A (p21) upregulation in human cancer cell lines. <i>Biochemical Pharmacology</i> , 2009, 77, 1125-1138.	4.4	52
33	Parkinson's Disease Skin Fibroblasts Display Signature Alterations in Growth, Redox Homeostasis, Mitochondrial Function, and Autophagy. <i>Frontiers in Neuroscience</i> , 2017, 11, 737.	2.8	52
34	Nrf2 modulates contractile and metabolic properties of skeletal muscle in streptozotocin-induced diabetic atrophy. <i>Experimental Cell Research</i> , 2013, 319, 2673-2683.	2.6	50
35	Autophagic-lysosomal dysregulation downstream of cathepsin B inactivation in human skin fibroblasts exposed to UVA. <i>Photochemical and Photobiological Sciences</i> , 2012, 11, 163-172.	2.9	47
36	Thiostrepton is an inducer of oxidative and proteotoxic stress that impairs viability of human melanoma cells but not primary melanocytes. <i>Biochemical Pharmacology</i> , 2012, 83, 1229-1240.	4.4	45

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37	Topical Bixin Confers NRF2-Dependent Protection Against Photodamage and Hair Graying in Mouse Skin. <i>Frontiers in Pharmacology</i> , 2018, 9, 287.	3.5	45
38	Identification of Quenchers of Photoexcited States as Novel Agents for Skin Photoprotection. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2005, 312, 482-491.	2.5	44
39	UVA causes dual inactivation of cathepsin B and L underlying lysosomal dysfunction in human dermal fibroblasts. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2013, 123, 1-12.	3.8	39
40	Malondialdehyde-derived epitopes in human skin result from acute exposure to solar UV and occur in nonmelanoma skin cancer tissue. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2014, 132, 56-65.	3.8	39
41	Antimelanoma activity of the redox dye DCPIP (2,6-dichlorophenolindophenol) is antagonized by NQO1. <i>Biochemical Pharmacology</i> , 2009, 78, 344-354.	4.4	38
42	Zinc pyrithione impairs zinc homeostasis and upregulates stress response gene expression in reconstructed human epidermis. <i>BioMetals</i> , 2011, 24, 875-890.	4.1	37
43	Proteomic Identification of Cathepsin B and Nucleophosmin as Novel UVA Targets in Human Skin Fibroblasts. <i>Photochemistry and Photobiology</i> , 2010, 86, 1307-1317.	2.5	36
44	The malondialdehyde-derived fluorophore DHP-lysine is a potent sensitizer of UVA-induced photooxidative stress in human skin cells. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2010, 101, 251-264.	3.8	35
45	Resatorvid-based Pharmacological Antagonism of Cutaneous TLR4 Blocks UV-induced NF- κ B and AP-1 Signaling in Keratinocytes and Mouse Skin. <i>Photochemistry and Photobiology</i> , 2016, 92, 816-825.	2.5	33
46	Pharmacological TLR4 Antagonism Using Topical Resatorvid Blocks Solar UV-Induced Skin Tumorigenesis in SKH-1 Mice. <i>Cancer Prevention Research</i> , 2018, 11, 265-278.	1.5	32
47	Photosensitization of DNA damage by glycated proteins. <i>Photochemical and Photobiological Sciences</i> , 2002, 1, 355-363.	2.9	30
48	Genomic GLO1 deletion modulates TXNIP expression, glucose metabolism, and redox homeostasis while accelerating human A375 malignant melanoma tumor growth. <i>Redox Biology</i> , 2021, 39, 101838.	9.0	29
49	Antimelanoma Activity of Apoptogenic Carbonyl Scavengers. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2006, 316, 805-814.	2.5	28
50	Vitamin B6: Beyond Coenzyme Functions. <i>Sub-Cellular Biochemistry</i> , 2012, 56, 291-300.	2.4	28
51	Let the sun shine in: mechanisms and potential for therapeutics in skin photodamage. <i>Current Opinion in Investigational Drugs</i> , 2007, 8, 390-400.	2.3	28
52	d-Penicillamine targets metastatic melanoma cells with induction of the unfolded protein response (UPR) and Noxa (PMAIP1)-dependent mitochondrial apoptosis. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2012, 17, 1079-1094.	4.9	26
53	The Quinone Methide Aurin Is a Heat Shock Response Inducer That Causes Proteotoxic Stress and Noxa-dependent Apoptosis in Malignant Melanoma Cells. <i>Journal of Biological Chemistry</i> , 2015, 290, 1623-1638.	3.4	26
54	TLR4-directed Molecular Strategies Targeting Skin Photodamage and Carcinogenesis. <i>Current Medicinal Chemistry</i> , 2019, 25, 5487-5502.	2.4	25

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55	Plant Extracts of the Family Lauraceae: A Potential Resource for Chemopreventive Agents that Activate the Nuclear Factor-Erythroid 2-Related Factor 2/Antioxidant Response Element Pathway. <i>Planta Medica</i> , 2014, 80, 426-434.	1.3	24
56	The B ₆ vitamin Pyridoxal is a Sensitizer of UVA-Induced Genotoxic Stress in Human Primary Keratinocytes and Reconstructed Epidermis. <i>Photochemistry and Photobiology</i> , 2017, 93, 990-998.	2.5	18
57	TLR4 in skin cancer: From molecular mechanisms to clinical interventions. <i>Molecular Carcinogenesis</i> , 2019, 58, 1086-1093.	2.7	18
58	Repurposing the Electron Transfer Reactant Phenazine Methosulfate (PMS) for the Apoptotic Elimination of Malignant Melanoma Cells through Induction of Lethal Oxidative and Mitochondriotoxic Stress. <i>Cancers</i> , 2019, 11, 590.	3.7	17
59	The Endogenous Tryptophan-derived Photoproduct 6-formylindolo[3,2-a]carbazole (FICZ) is a Nanomolar Photosensitizer that Can be Harnessed for the Photodynamic Elimination of Skin Cancer Cells <i>in Vitro</i> and <i>in Vivo</i> . <i>Photochemistry and Photobiology</i> , 2021, 97, 180-191.	2.5	14
60	HMGB1-Directed Drug Discovery Targeting Cutaneous Inflammatory Dysregulation. <i>Current Drug Metabolism</i> , 2010, 11, 250-265.	1.2	13
61	Topical hypochlorous acid (HOCl) blocks inflammatory gene expression and tumorigenic progression in UV-exposed SKH-1 high risk mouse skin. <i>Redox Biology</i> , 2021, 45, 102042.	9.0	13
62	DCPIP (2,6-dichlorophenolindophenol) as a genotype-directed redox chemotherapeutic targeting NQO1 ² breast carcinoma. <i>Free Radical Research</i> , 2011, 45, 276-292.	3.3	12
63	A Topical Zinc Ionophore Blocks Tumorigenic Progression in UV-exposed SKH-1 High-risk Mouse Skin. <i>Photochemistry and Photobiology</i> , 2017, 93, 1472-1482.	2.5	12
64	Activation of NRF2 by topical apocarotenoid treatment mitigates radiation-induced dermatitis. <i>Redox Biology</i> , 2020, 37, 101714.	9.0	12
65	The sunless tanning agent dihydroxyacetone induces stress response gene expression and signaling in cultured human keratinocytes and reconstructed epidermis. <i>Redox Biology</i> , 2020, 36, 101594.	9.0	12
66	Phenotypic Identification of the Redox Dye Methylene Blue as an Antagonist of Heat Shock Response Gene Expression in Metastatic Melanoma Cells. <i>International Journal of Molecular Sciences</i> , 2013, 14, 4185-4202.	4.1	11
67	Genetic Target Modulation Employing CRISPR/Cas9 Identifies Glyoxalase 1 as a Novel Molecular Determinant of Invasion and Metastasis in A375 Human Malignant Melanoma Cells <i>In Vitro</i> and <i>In Vivo</i> . <i>Cancers</i> , 2020, 12, 1369.	3.7	11
68	Solar simulated ultraviolet radiation inactivates HCoV-NL63 and SARS-CoV-2 coronaviruses at environmentally relevant doses. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2021, 224, 112319.	3.8	10
69	Hypochlorous Acid: From Innate Immune Factor and Environmental Toxicant to Chemopreventive Agent Targeting Solar UV-Induced Skin Cancer. <i>Frontiers in Oncology</i> , 2022, 12, 887220.	2.8	9
70	Deuterium Oxide (D ₂ O) Induces Early Stress Response Gene Expression and Impairs Growth and Metastasis of Experimental Malignant Melanoma. <i>Cancers</i> , 2021, 13, 605.	3.7	8
71	Sunscreen-Based Skin Protection Against Solar Insult: Molecular Mechanisms and Opportunities. , 2014, , 301-320.		7
72	Glyoxalase 1 Expression as a Novel Diagnostic Marker of High-Grade Prostatic Intraepithelial Neoplasia in Prostate Cancer. <i>Cancers</i> , 2021, 13, 3608.	3.7	7

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73	Vemurafenib Drives Epithelial-to-Mesenchymal Transition Gene Expression in BRAF Inhibitor-Resistant BRAFV600E/NRASQ61K Melanoma Enhancing Tumor Growth and Metastasis in a Bioluminescent Murine Model. <i>Journal of Investigative Dermatology</i> , 2022, 142, 1456-1465.e1.	0.7	7
74	Mefloquine induces ER stress and apoptosis in BRAF-resistant A375-BRAF ^{V600E} /NRAS ^{Q61K} malignant melanoma cells targeting intracranial tumors in a bioluminescent murine model. <i>Molecular Carcinogenesis</i> , 2022, 61, 603-614.	2.7	7
75	An Emerging Molecular Target in Melanoma: Cellular Carbonyl Stress and the Inhibition of Mitochondrial Survival Pathways by Carbonyl Scavenger Agents. <i>Current Cancer Therapy Reviews</i> , 2005, 1, 271-276.	0.3	6
76	Reactivity-Based Drug Discovery Using Vitamin B6-Derived Pharmacophores. <i>Mini-Reviews in Medicinal Chemistry</i> , 2008, 8, 519-528.	2.4	4
77	Design, Physicochemical Characterization, and In Vitro Permeation of Innovative Resatorvid Topical Formulations for Targeted Skin Drug Delivery. <i>Pharmaceutics</i> , 2022, 14, 700.	4.5	4
78	The Drinking Water and Swimming Pool Disinfectant Trichloroisocyanuric Acid Causes Chlorination Stress Enhancing Solar UV-Induced Inflammatory Gene Expression in AP-1 Transgenic SKH-1 Luciferase Reporter Mouse Skin. <i>Photochemistry and Photobiology</i> , 2023, 99, 835-843.	2.5	4
79	Sunscreen-Based Skin Protection Against Solar Insult: Molecular Mechanisms and Opportunities. , 2019, , 377-404.		3
80	Melanomagenic Gene Alterations Viewed from a Redox Perspective: Molecular Mechanisms and Therapeutic Opportunities. , 2015, , 285-309.		2
81	Introduction to Cell Stress Responses in Cancer: The Big Picture. , 2015, , 1-5.		1
82	Translational Advances in Cancer Prevention Agent Development (TACPAD) Virtual Workshop on Immunomodulatory Agents: Report. <i>Journal of Cancer Prevention</i> , 2021, 26, 309-317.	2.0	1
83	The Aryl Hydrocarbon Receptor (AhR) as an Environmental Stress Sensor and Regulator of Skin Barrier Function: Molecular Mechanisms and Therapeutic Opportunities. , 2016, , 325-359.		0