

Georg T Wondrak

List of Publications by Year in descending order

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Version: 2024-02-01

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	The Drinking Water and Swimming Pool Disinfectant Trichloroisocyanuric Acid Causes Chlorination Stress Enhancing Solar ^{UV}-Induced Inflammatory Gene Expression in ^{AP}-Transgenic ^{SKH}-Luciferase Reporter Mouse Skin. <i>Photochemistry and Photobiology</i> , 2023, 99, 835-843.	2.5	4
2	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
3	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
4	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
5	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
6	The Endogenous Tryptophan-derived Photoproduct 6-formylindolo[3,2-b]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
7	Deuterium Oxide (D2O) Induces Early Stress Response Gene Expression and Impairs Growth and Metastasis of Experimental Malignant Melanoma. <i>Cancers</i> , 2021, 13, 605.	3.7	8
8	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
9	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
10	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
11	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
12	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
13	Activation of NRF2 by topical apocarotenoid treatment mitigates radiation-induced dermatitis. <i>Redox Biology</i> , 2020, 37, 101714.	9.0	12
14	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
15	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
16	TLR4-directed Molecular Strategies Targeting Skin Photodamage and Carcinogenesis. <i>Current Medicinal Chemistry</i> , 2019, 25, 5487-5502.	2.4	25
17	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
18	TLR4 in skin cancer: From molecular mechanisms to clinical interventions. <i>Molecular Carcinogenesis</i> , 2019, 58, 1086-1093.	2.7	18

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19	Sunscreen-Based Skin Protection Against Solar Insult: Molecular Mechanisms and Opportunities. , 2019, , 377-404.		3
20	Pharmacological TLR4 Antagonism Using Topical Resatorvid Blocks Solar UV-Induced Skin Tumorigenesis in SKH-1 Mice. Cancer Prevention Research, 2018, 11, 265-278.	1.5	32
21	Topical Bixin Confers NRF2-Dependent Protection Against Photodamage and Hair Graying in Mouse Skin. Frontiers in Pharmacology, 2018, 9, 287.	3.5	45
22	The B ₆ vitamin Pyridoxal is a Sensitizer of UVA-Induced Genotoxic Stress in Human Primary Keratinocytes and Reconstructed Epidermis. Photochemistry and Photobiology, 2017, 93, 990-998.	2.5	18
23	A Topical Zinc Ionophore Blocks Tumorigenic Progression in UV-Exposed SKH-1 High-Risk Mouse Skin. Photochemistry and Photobiology, 2017, 93, 1472-1482.	2.5	12
24	Targeting NRF2 for Improved Skin Barrier Function and Photoprotection: Focus on the Achiote-Derived Apocarotenoid Bixin. Nutrients, 2017, 9, 1371.	4.1	59
25	Parkinson's Disease Skin Fibroblasts Display Signature Alterations in Growth, Redox Homeostasis, Mitochondrial Function, and Autophagy. Frontiers in Neuroscience, 2017, 11, 737.	2.8	52
26	Bixin protects mice against ventilation-induced lung injury in an NRF2-dependent manner. Scientific Reports, 2016, 6, 18760.	3.3	58
27	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
28	Resatorvid-Based Pharmacological Antagonism of Cutaneous TLR4 Blocks UV-Induced NF- κ B and AP-1 Signaling in Keratinocytes and Mouse Skin. Photochemistry and Photobiology, 2016, 92, 816-825.	2.5	33
29	An Essential Role of NRF2 in Diabetic Wound Healing. Diabetes, 2016, 65, 780-793.	0.6	173
30	Introduction to Cell Stress Responses in Cancer: The Big Picture. , 2015, , 1-5.		1
31	Systemic administration of the apocarotenoid bixin protects skin against solar UV-induced damage through activation of NRF2. Free Radical Biology and Medicine, 2015, 89, 690-700.	2.9	85
32	The Tryptophan-Derived Endogenous Aryl Hydrocarbon Receptor Ligand 6-Formylindolo[3,2-b]Carbazole Is a Nanomolar UVA Photosensitizer in Epidermal Keratinocytes. Journal of Investigative Dermatology, 2015, 135, 1649-1658.	0.7	72
33	Nrf2-Dependent Suppression of Azoxymethane/Dextran Sulfate Sodium-Induced Colon Carcinogenesis by the Cinnamon-Derived Dietary Factor Cinnamaldehyde. Cancer Prevention Research, 2015, 8, 444-454.	1.5	62
34	The Quinone Methide Aurin Is a Heat Shock Response Inducer That Causes Proteotoxic Stress and Noxa-dependent Apoptosis in Malignant Melanoma Cells. Journal of Biological Chemistry, 2015, 290, 1623-1638.	3.4	26
35	Melanomagenic Gene Alterations Viewed from a Redox Perspective: Molecular Mechanisms and Therapeutic Opportunities. , 2015, , 285-309.		2
36	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. Planta Medica, 2014, 80, 426-434.	1.3	24

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37	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
38	Sunscreen-Based Skin Protection Against Solar Insult: Molecular Mechanisms and Opportunities. , 2014, , 301-320.		7
39	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
40	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
41	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
42	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
43	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
44	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
45	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
46	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
47	Vitamin B6: Beyond Coenzyme Functions. <i>Sub-Cellular Biochemistry</i> , 2012, 56, 291-300.	2.4	28
48	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
49	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
50	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
51	Therapeutic Potential of Nrf2 Activators in Streptozotocin-Induced Diabetic Nephropathy. <i>Diabetes</i> , 2011, 60, 3055-3066.	0.6	445
52	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
53	HMGB1-Directed Drug Discovery Targeting Cutaneous Inflammatory Dysregulation. <i>Current Drug Metabolism</i> , 2010, 11, 250-265.	1.2	13
54	GLO1 overexpression in human malignant melanoma. <i>Melanoma Research</i> , 2010, 20, 85-96.	1.2	82

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55	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
56	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
57	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
58	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
59	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
60	Redox-Directed Cancer Therapeutics: Molecular Mechanisms and Opportunities. <i>Antioxidants and Redox Signaling</i> , 2009, 11, 3013-3069.	5.4	409
61	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
62	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
63	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
64	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
65	Nrf2 enhances resistance of cancer cells to chemotherapeutic drugs, the dark side of Nrf2. <i>Carcinogenesis</i> , 2008, 29, 1235-1243.	2.8	691
66	Reactivity-Based Drug Discovery Using Vitamin B6-Derived Pharmacophores. <i>Mini-Reviews in Medicinal Chemistry</i> , 2008, 8, 519-528.	2.4	4
67	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
68	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
69	Experimental therapeutics: targeting the redox Achilles heel of cancer. <i>Current Opinion in Investigational Drugs</i> , 2007, 8, 1022-37.	2.3	64
70	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
71	Antimelanoma Activity of Apoptogenic Carbonyl Scavengers. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2006, 316, 805-814.	2.5	28
72	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

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73	Identification of Quenchers of Photoexcited States as Novel Agents for Skin Photoprotection. Journal of Pharmacology and Experimental Therapeutics, 2005, 312, 482-491.	2.5	44
74	3-Hydroxypyridine Chromophores Are Endogenous Sensitizers of Photooxidative Stress in Human Skin Cells. Journal of Biological Chemistry, 2004, 279, 30009-30020.	3.4	68
75	DNA damage by carbonyl stress in human skin cells. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2003, 522, 45-56.	1.0	108
76	Proteins of the Extracellular Matrix Are Sensitizers of Photo-oxidative Stress in Human Skin Cells. Journal of Investigative Dermatology, 2003, 121, 578-586.	0.7	99
77	Photosensitization of DNA damage by glycated proteins. Photochemical and Photobiological Sciences, 2002, 1, 355-363.	2.9	30
78	Identification of α -dicarbonyl scavengers for cellular protection against carbonyl stress. Biochemical Pharmacology, 2002, 63, 361-373.	4.4	106
79	Photosensitized Growth Inhibition of Cultured Human Skin Cells: Mechanism and Suppression of Oxidative Stress from Solar Irradiation of Glycated Proteins. Journal of Investigative Dermatology, 2002, 119, 489-498.	0.7	63
80	Optimizing the energy status of skin cells during solar radiation. Journal of Photochemistry and Photobiology B: Biology, 2001, 63, 141-147.	3.8	65
81	Histone carbonylation in vivo and in vitro. Biochemical Journal, 2000, 351, 769-777.	3.7	78
82	Pentoses and Hexoses as Sources of New Melanoidin-like Maillard Polymers. Journal of Agricultural and Food Chemistry, 1998, 46, 1765-1776.	5.2	120
83	New Melanoidin-like Maillard Polymers from 2-Deoxypentoses. Journal of Agricultural and Food Chemistry, 1998, 46, 104-110.	5.2	70