Mark A Birch-Machin

List of Publications by Year
in descending order

38 papers	1,695 citations	430874 18 h-index	454955 30 g-index
40 all docs	40 docs citations	40 times ranked	2868 citing authors

#	Article	IF	Citations
1	Targeting mitochondria in dermatological therapy: beyond oxidative damage and skin aging. Expert Opinion on Therapeutic Targets, 2022, 26, 233-259.	3.4	8
2	Mitochondrial DNA as a Sensitive Biomarker of UV-Induced Cellular Damage in Human Skin. Methods in Molecular Biology, 2021, 2277, 345-356.	0.9	3
3	The Inhibition of Metabolic Inflammation by EPA Is Associated with Enhanced Mitochondrial Fusion and Insulin Signaling in Human Primary Myotubes. Journal of Nutrition, 2021, 151, 810-819.	2.9	11
4	Adaptive responses to air pollution in human dermal fibroblasts and their potential roles in aging. FASEB BioAdvances, 2021, 3, 855-865.	2.4	3
5	Microneedle-based devices for point-of-care infectious disease diagnostics. Acta Pharmaceutica Sinica B, 2021, 11, 2344-2361.	12.0	35
6	Exploration of Sleep as a Specific Risk Factor for Poor Metabolic and Mental Health: A UK Biobank Study of 84,404 Participants. Nature and Science of Sleep, 2021, Volume 13, 1903-1912.	2.7	17
7	3â€...Long term impact of poor sleep on future metabolic and mental health: a UK Biobank study of 84,404 participants. , 2021, , .		0
8	Metabolic dysfunction in human skin: Restoration of mitochondrial integrity and metabolic output by nicotinamide (niacinamide) in primary dermal fibroblasts from older aged donors. Aging Cell, 2020, 19, e13248.	6.7	18
9	Individual and combined effects of the infrared, visible, and ultraviolet light components of solar radiation on damage biomarkers in human skin cells. FASEB Journal, 2020, 34, 3874-3883.	0.5	43
10	Optimised detection of mitochondrial DNA strand breaks. Mitochondrion, 2019, 46, 172-178.	3.4	7
11	Mitochondriaâ€™s Role in Skin Ageing. Biology, 2019, 8, 29.	2.8	43
12	Objective sleep assessment in >80,000 UK mid-life adults: Associations with sociodemographic characteristics, physical activity and caffeine. PLoS ONE, 2019, 14, e0226220.	2.5	33
13	Title is missing!. , 2019, 14, e0226220.		0
14	Title is missing!. , 2019, 14, e0226220.		0
15	Title is missing!. , 2019, 14, e0226220.		0
16	Title is missing!. , 2019, 14, e0226220.		0
17	Title is missing!. , 2019, 14, e0226220.		0
18	Title is missing!. , 2019, 14, e0226220.		0

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19	What is the role of mitochondrial dysfunction in skin photoaging?. Experimental Dermatology, 2018, 27, 124-128.	2.9	44
20	A pilot study investigating reactive oxygen species production in capillary blood after a marathon and the influence of an antioxidant-rich beetroot juice. Applied Physiology, Nutrition and Metabolism, 2018, 43, 303-306.	1.9	8
21	UVA-induced carbon-centred radicals in lightly pigmented cells detected using ESR spectroscopy. Free Radical Biology and Medicine, 2018, 126, 153-165.	2.9	4
22	Acceptability and Feasibility of a Trial Testing Allocation to Sunscreen and a Smartphone App for Sun Protection: Discontinued Randomized Controlled Trial. JMIR Dermatology, 2018, 1, e1.	0.7	2
23	Aware, motivated and striving for a â€˜safe tanâ€™: an exploratory mixed-method study of sun-protection during holidays. Health Psychology and Behavioral Medicine, 2017, 5, 276-298.	1.8	16
24	Bad air gets under your skin. Experimental Dermatology, 2017, 26, 384-387.	2.9	44
25	Systematic and Iterative Development of a Smartphone App to Promote Sun-Protection Among Holidaymakers: Design of a Prototype and Results of Usability and Acceptability Testing. JMIR Research Protocols, 2017, 6, e112.	1.0	26
26	Mitochondrial damage and ageing using skin as a model organ. Maturitas, 2016, 93, 34-40.	2.4	19
27	Age-Dependent Decrease of MitochondrialÂComplex II Activity inÂHuman Skin Fibroblasts. Journal of Investigative Dermatology, 2016, 136, 912-919.	0.7	42
28	Sebum, inflammasomes and the skin: current concepts and future perspective. Experimental Dermatology, 2015, 24, 651-654.	2.9	22
29	Skin manifestations of mitochondrial dysfunction: more important than previously thought. Experimental Dermatology, 2015, 24, 12-13.	2.9	17
30	Mitochondriaâ€targeted antioxidants. FASEB Journal, 2015, 29, 4766-4771.	0.5	309
31	Impact of hyperpigmentation on superoxide flux and melanoma cell metabolism at mitochondrial complex II. FASEB Journal, 2015, 29, 346-353.	0.5	20
32	A role for human mitochondrial complex II in the production of reactive oxygen species in human skin. Redox Biology, 2014, 2, 1016-1022.	9.0	52
33	Investigating the role of melanin in UVA/UVB- and hydrogen peroxide-induced cellular and mitochondrial ROS production and mitochondrial DNA damage in human melanoma cells. Free Radical Biology and Medicine, 2012, 52, 626-634.	2.9	121
34	How mitochondria record the effects of UV exposure and oxidative stress using human skin as a model tissue. Mutagenesis, 2010, 25, 101-107.	2.6	130
35	Towards a â€œfree radical theory of grayingâ€: melanocyte apoptosis in the aging human hair follicle is an indicator of oxidative stress induced tissue damage. FASEB Journal, 2006, 20, 1567-1569.	0.5	226
36	Chapter 5 Assaying mitochondrial respiratory complex activity in mitochondria isolated from human cells and tissues. Methods in Cell Biology, 2001, 65, 97-117.	1.1	340

#	Article	IF	Citations
37	Genetic Studies of the Human Melanocortinâ€1 Receptor. Annals of the New York Academy of Sciences, 1999, 885, 134-142.	3.8	28
38	Assessment of Mitochondrial Respiratory Complex Function in Vitro and in Vivo. , 0, , 383-395.		4