

# Zorica Janjetovic

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

3,629  
citations

109137  
35  
h-index

182168  
51  
g-index

51  
all docs

51  
docs citations

51  
times ranked

2587  
citing authors

#	ARTICLE	IF	CITATIONS
1	Steroidogenesis in the skin: Implications for local immune functions. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2013, 137, 107-123.	1.2	305
2	<i>In vivo</i> evidence for a novel pathway of vitamin D <sub>3</sub> metabolism initiated by P450 <sub>scc</sub> and modified by CYP27B1. <i>FASEB Journal</i> , 2012, 26, 3901-3915.	0.2	250
3	ROR $\alpha$ and ROR $\beta$ are expressed in human skin and serve as receptors for endogenously produced noncalcemic 20 $\alpha$ -hydroxy- and 20,23 $\alpha$ -dihydroxyvitamin D. <i>FASEB Journal</i> , 2014, 28, 2775-2789.	0.2	232
4	Products of Vitamin D <sub>3</sub> or 7-Dehydrocholesterol Metabolism by Cytochrome P450 <sub>scc</sub> Show Anti-Leukemia Effects, Having Low or Absent Calcemic Activity. <i>PLoS ONE</i> , 2010, 5, e9907.	1.1	135
5	Melatonin, mitochondria, and the skin. <i>Cellular and Molecular Life Sciences</i> , 2017, 74, 3913-3925.	2.4	131
6	Melatonin and its metabolites protect human melanocytes against UVB-induced damage: Involvement of NRF2-mediated pathways. <i>Scientific Reports</i> , 2017, 7, 1274.	1.6	124
7	Local Melatonergic System as the Protector of Skin Integrity. <i>International Journal of Molecular Sciences</i> , 2014, 15, 17705-17732.	1.8	122
8	20-Hydroxycholecalciferol, Product of Vitamin D <sub>3</sub> Hydroxylation by P450 <sub>scc</sub> , Decreases NF- $\kappa$ B Activity by Increasing I $\kappa$ B $\alpha$ Levels in Human Keratinocytes. <i>PLoS ONE</i> , 2009, 4, e5988.	1.1	119
9	Metabolism of melatonin and biological activity of intermediates of melatonergic pathway in human skin cells. <i>FASEB Journal</i> , 2013, 27, 2742-2755.	0.2	118
10	Photoprotective Properties of Vitamin D and Lumisterol Hydroxyderivatives. <i>Cell Biochemistry and Biophysics</i> , 2020, 78, 165-180.	0.9	113
11	20-Hydroxyvitamin D <sub>3</sub> , a Product of Vitamin D <sub>3</sub> Hydroxylation by Cytochrome P450 <sub>scc</sub> , Stimulates Keratinocyte Differentiation. <i>Journal of Investigative Dermatology</i> , 2008, 128, 2271-2280.	0.3	111
12	20-Hydroxyvitamin D <sub>2</sub> is a noncalcemic analog of vitamin D with potent antiproliferative and prodifferentiation activities in normal and malignant cells. <i>American Journal of Physiology - Cell Physiology</i> , 2011, 300, C526-C541.	2.1	108
13	Protective effects of novel derivatives of vitamin D <sub>3</sub> and lumisterol against UVB-induced damage in human keratinocytes involve activation of Nrf2 and p53 defense mechanisms. <i>Redox Biology</i> , 2019, 24, 101206.	3.9	105
14	Differential and Overlapping Effects of 20,23(OH)2D <sub>3</sub> and 1,25(OH)2D <sub>3</sub> on Gene Expression in Human Epidermal Keratinocytes: Identification of AhR as an Alternative Receptor for 20,23(OH)2D <sub>3</sub> . <i>International Journal of Molecular Sciences</i> , 2018, 19, 3072.	1.8	98
15	20,23 $\alpha$ -dihydroxyvitamin D <sub>3</sub> , novel P450 <sub>scc</sub> product, stimulates differentiation and inhibits proliferation and NF- $\kappa$ B activity in human keratinocytes. <i>Journal of Cellular Physiology</i> , 2010, 223, 36-48.	2.0	96
16	Melatonin and its metabolites ameliorate ultraviolet B-induced damage in human epidermal keratinocytes. <i>Journal of Pineal Research</i> , 2014, 57, 90-102.	3.4	84
17	Production of 22-Hydroxy Metabolites of Vitamin D <sub>3</sub> by Cytochrome P450 <sub>scc</sub> (CYP11A1) and Analysis of Their Biological Activities on Skin Cells. <i>Drug Metabolism and Disposition</i> , 2011, 39, 1577-1588.	1.7	80
18	Melatonin and its derivatives counteract the ultraviolet B radiation-induced damage in human and porcine skin ex vivo. <i>Journal of Pineal Research</i> , 2018, 65, e12501.	3.4	77

#	ARTICLE	IF	CITATIONS
19	20 <i>S</i> -Hydroxyvitamin D <sub>3</sub> , Noncalcemic Product of CYP11A1 Action on Vitamin D <sub>3</sub> , Exhibits Potent Antifibrogenic Activity in Vivo. Journal of Clinical Endocrinology and Metabolism, 2013, 98, E298-E303.	1.8	76
20	On the role of classical and novel forms of vitamin D in melanoma progression and management. Journal of Steroid Biochemistry and Molecular Biology, 2018, 177, 159-170.	1.2	75
21	Novel non-calcemic secosteroids that are produced by human epidermal keratinocytes protect against solar radiation. Journal of Steroid Biochemistry and Molecular Biology, 2015, 148, 52-63.	1.2	68
22	Correlation between secosteroid-induced vitamin D receptor activity in melanoma cells and computer-modeled receptor binding strength. Molecular and Cellular Endocrinology, 2012, 361, 143-152.	1.6	65
23	Characterization of a new pathway that activates lumisterol in vivo to biologically active hydroxylumisterols. Scientific Reports, 2017, 7, 11434.	1.6	64
24	Novel vitamin D hydroxyderivatives inhibit melanoma growth and show differential effects on normal melanocytes. Anticancer Research, 2012, 32, 3733-42.	0.5	63
25	Chemical synthesis of 20 <i>S</i> -hydroxyvitamin D <sub>3</sub> , which shows antiproliferative activity. Steroids, 2010, 75, 926-935.	0.8	61
26	20-hydroxyvitamin D <sub>3</sub> inhibits proliferation of cancer cells with high efficacy while being non-toxic. Anticancer Research, 2012, 32, 739-46.	0.5	61
27	Vitamin D and lumisterol derivatives can act on liver X receptors (LXRs). Scientific Reports, 2021, 11, 8002.	1.6	60
28	Novel vitamin D photoproducts and their precursors in the skin. Dermato-Endocrinology, 2013, 5, 7-19.	1.9	56
29	Protective Role of Melatonin and Its Metabolites in Skin Aging. International Journal of Molecular Sciences, 2022, 23, 1238.	1.8	50
30	Rat CYP24A1 acts on 20-hydroxyvitamin D <sub>3</sub> producing hydroxylated products with increased biological activity. Biochemical Pharmacology, 2012, 84, 1696-1704.	2.0	40
31	Hydroxylation of CYP11A1-Derived Products of Vitamin D <sub>3</sub> Metabolism by Human and Mouse CYP27B1. Drug Metabolism and Disposition, 2013, 41, 1112-1124.	1.7	39
32	Antitumor Effects of Vitamin D Analogs on Hamster and Mouse Melanoma Cell Lines in Relation to Melanin Pigmentation. International Journal of Molecular Sciences, 2015, 16, 6645-6667.	1.8	39
33	Purified Mouse CYP27B1 Can Hydroxylate 20,23-Dihydroxyvitamin D <sub>3</sub> , Producing 1 <i>Î±</i> ,20,23-Trihydroxyvitamin D <sub>3</sub> , Which Has Altered Biological Activity. Drug Metabolism and Disposition, 2010, 38, 1553-1559.	1.7	38
34	Investigation of 20 <i>S</i> -hydroxyvitamin D <sub>3</sub> analogs and their 1 <i>Î±</i> -OH derivatives as potent vitamin D receptor agonists with anti-inflammatory activities. Scientific Reports, 2018, 8, 1478.	1.6	38
35	The Role of Classical and Novel Forms of Vitamin D in the Pathogenesis and Progression of Nonmelanoma Skin Cancers. Advances in Experimental Medicine and Biology, 2020, 1268, 257-283.	0.8	38
36	CYP24A1 Expression Inversely Correlates with Melanoma Progression: Clinic-Pathological Studies. International Journal of Molecular Sciences, 2014, 15, 19000-19017.	1.8	35

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37	Characterization of serotonin and <i>N</i> -acetylserotonin systems in the human epidermis and skin cells. <i>Journal of Pineal Research</i> , 2020, 68, e12626.	3.4	34
38	CYP11A1-derived vitamin D3 products protect against UVB-induced inflammation and promote keratinocytes differentiation. <i>Free Radical Biology and Medicine</i> , 2020, 155, 87-98.	1.3	31
39	Metabolic activation of tachysterol <sub>3</sub> to biologically active hydroxyderivatives that act on <i>VDR</i> , <i>AhR</i> , <i>LXRs</i> , and <i>PPAR</i> <sup>α</sup> receptors. <i>FASEB Journal</i> , 2022, 36, .	0.2	29
40	17,20S-Dihydroxyvitamin D3 Interacts with Vitamin D Receptor: Crystal Structure and Route of Chemical Synthesis. <i>Scientific Reports</i> , 2017, 7, 10193.	1.6	26
41	Hydroxylumisterols, Photoproducts of Pre-Vitamin D3, Protect Human Keratinocytes against UVB-Induced Damage. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9374.	1.8	23
42	Molecular and structural basis of interactions of vitamin D3 hydroxyderivatives with aryl hydrocarbon receptor (AhR): An integrated experimental and computational study. <i>International Journal of Biological Macromolecules</i> , 2022, 209, 1111-1123.	3.6	17
43	Antifibrogenic Activities of CYP11A1-derived Vitamin D3-hydroxyderivatives Are Dependent on ROR <sup>α</sup> . <i>Endocrinology</i> , 2021, 162, .	1.4	16
44	CYP11A1-derived vitamin D hydroxyderivatives as candidates for therapy of basal and squamous cell carcinomas. <i>International Journal of Oncology</i> , 2022, 61, .	1.4	16
45	Knocking out the Vitamin D Receptor Enhances Malignancy and Decreases Responsiveness to Vitamin D3 Hydroxyderivatives in Human Melanoma Cells. <i>Cancers</i> , 2021, 13, 3111.	1.7	14
46	Noncalcemic Vitamin D Hydroxyderivatives Inhibit Human Oral Squamous Cell Carcinoma and Down-regulate Hedgehog and WNT/β-Catenin Pathways. <i>Anticancer Research</i> , 2020, 40, 2467-2474.	0.5	12
47	Chemical synthesis, biological activities and action on nuclear receptors of 20S(OH)D3, 20S,25(OH)2D3, 20S,23S(OH)2D3 and 20S,23R(OH)2D3. <i>Bioorganic Chemistry</i> , 2022, 121, 105660.	2.0	10
48	17,20S(OH)2pD Can Prevent the Development of Skin Fibrosis in the Bleomycin-Induced Scleroderma Mouse Model. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8926.	1.8	8
49	Design, Synthesis and Biological Activities of Novel Gemini 20S-Hydroxyvitamin D3 Analogs. <i>Anticancer Research</i> , 2016, 36, 877-86.	0.5	7
50	Modulation by 17,20S(OH)2pD of Fibrosis-Related Mediators in Dermal Fibroblast Lines from Healthy Donors and from Patients with Systemic Sclerosis. <i>International Journal of Molecular Sciences</i> , 2022, 23, 367.	1.8	7
51	Differential and Overlapping Effects of Melatonin and Its Metabolites on Keratinocyte Function: Bioinformatics and Metabolic Analyses. <i>Antioxidants</i> , 2021, 10, 618.	2.2	5