

Damjana Rozman

List of Publications by Year in descending order

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102
papers

3,755
citations

117453

34
h-index

149479

56
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106
all docs

106
docs citations

106
times ranked

5599
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of Natural ROR β Ligands that Regulate the Development of Lymphoid Cells. <i>Cell Metabolism</i> , 2015, 21, 286-298.	7.2	193
2	Cytochrome P450s in the synthesis of cholesterol and bile acids – from mouse models to human diseases. <i>FEBS Journal</i> , 2012, 279, 1516-1533.	2.2	165
3	Nonalcoholic Fatty Liver Disease: Focus on Lipoprotein and Lipid Deregulation. <i>Journal of Lipids</i> , 2011, 2011, 1-14.	1.9	164
4	The Ubiquitously Expressed Human CYP51 Encodes Lanosterol 14 α -Demethylase, a Cytochrome P450 Whose Expression Is Regulated by Oxysterols. <i>Archives of Biochemistry and Biophysics</i> , 1996, 329, 73-81.	1.4	162
5	Mammalian cytochromes P450 – Importance of tissue specificity. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2007, 1770, 458-466.	1.1	123
6	Many facets of mammalian lanosterol 14 α -demethylase from the evolutionarily conserved cytochrome P450 family CYP51. <i>Archives of Biochemistry and Biophysics</i> , 2003, 409, 159-171.	1.4	97
7	Timing of circadian genes in mammalian tissues. <i>Scientific Reports</i> , 2014, 4, 5782.	1.6	97
8	Sterols in spermatogenesis and sperm maturation. <i>Journal of Lipid Research</i> , 2013, 54, 20-33.	2.0	92
9	Determination of reference genes for circadian studies in different tissues and mouse strains. <i>BMC Molecular Biology</i> , 2010, 11, 60.	3.0	88
10	Cholesterol, lipoproteins, and COVID-19: Basic concepts and clinical applications. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2021, 1866, 158849.	1.2	88
11	Structure and Mapping of the Human Lanosterol 14 α - Demethylase Gene (CYP51) Encoding the Cytochrome P450 Involved in Cholesterol Biosynthesis; Comparison of Exon/Intron Organization with other Mammalian and Fungal CYP Genes. <i>Genomics</i> , 1996, 38, 371-381.	1.3	86
12	Mouse Knockout of the Cholesterogenic Cytochrome P450 Lanosterol 14 α -Demethylase (Cyp51) Resembles Antley-Bixler Syndrome. <i>Journal of Biological Chemistry</i> , 2011, 286, 29086-29097.	1.6	83
13	Perspectives of the non-statin hypolipidemic agents. , 2010, 127, 19-40.		80
14	Genomic aspects of NAFLD pathogenesis. <i>Genomics</i> , 2013, 102, 84-95.	1.3	80
15	Circadian Regulation of the Hepatic Endobiotic and Xenobiotic Detoxification Pathways: The Time Matters. <i>Chemical Research in Toxicology</i> , 2012, 25, 811-824.	1.7	79
16	Combined gas chromatographic/mass spectrometric analysis of cholesterol precursors and plant sterols in cultured cells. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2009, 877, 2081-2086.	1.2	75
17	Acrolein consumption induces systemic dyslipidemia and lipoprotein modification. <i>Toxicology and Applied Pharmacology</i> , 2010, 243, 1-12.	1.3	74
18	The role of bile acids in carcinogenesis. <i>Cellular and Molecular Life Sciences</i> , 2022, 79, 243.	2.4	73

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19	Characteristics of the heterologously expressed human lanosterol 14 β -demethylase (other names: Tj ETQq1 1 0.784314 rgBT /Overlaid) antifungal agents. , 1999, 15, 755-763.		72
20	Cyclic Adenosine 3 α ,5 α -Monophosphate(cAMP)/cAMP-Responsive Element Modulator (CREM)-Dependent Regulation of Cholesterologenic Lanosterol 14 β -Demethylase (CYP51) in Spermatids. Molecular Endocrinology, 1999, 13, 1951-1962.	3.7	68
21	The Interplay of cis-Regulatory Elements Rules Circadian Rhythms in Mouse Liver. PLoS ONE, 2012, 7, e46835.	1.1	68
22	Defects in cholesterol synthesis genes in mouse and in humans: lessons for drug development and safer treatments. Drug Metabolism Reviews, 2011, 43, 69-90.	1.5	62
23	Interplay between cholesterol and drug metabolism. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2011, 1814, 146-160.	1.1	58
24	Molecular Interactions between NAFLD and Xenobiotic Metabolism. Frontiers in Genetics, 2013, 4, 2.	1.1	55
25	Elevated Expression of Lanosterol 14 β -Demethylase (CYP51) and the Synthesis of Oocyte Meiosis-Activating Sterols in Postmeiotic Germ Cells of Male Rats. Endocrinology, 1998, 139, 2314-2321.	1.4	51
26	A cAMP-Responsive Element Binding Site Is Essential for Sterol Regulation of the Human Lanosterol 14 β -Demethylase Gene (CYP51). Molecular Endocrinology, 2002, 16, 1853-1863.	3.7	51
27	TNF- β interferes with lipid homeostasis and activates acute and proatherogenic processes. Physiological Genomics, 2007, 31, 216-227.	1.0	51
28	Effect of CAR activation on selected metabolic pathways in normal and hyperlipidemic mouse livers. BMC Genomics, 2009, 10, 384.	1.2	49
29	Steroidal Triterpenes of Cholesterol Synthesis. Molecules, 2013, 18, 4002-4017.	1.7	49
30	LiverSex Computational Model: Sexual Aspects in Hepatic Metabolism and Abnormalities. Frontiers in Physiology, 2018, 9, 360.	1.3	49
31	New Aspects on Lanosterol 14 β -Demethylase and Cytochrome P450 Evolution: Lanosterol/Cycloartenol Diversification and Lateral Transfer. Journal of Molecular Evolution, 2004, 59, 51-58.	0.8	45
32	Novel Insights into the Downstream Pathways and Targets Controlled by Transcription Factors CREM in the Testis. PLoS ONE, 2012, 7, e31798.	1.1	42
33	Effects of Flavonoids from Food and Dietary Supplements on Glial and Glioblastoma Multiforme Cells. Molecules, 2015, 20, 19406-19432.	1.7	41
34	Novel cholesterol biosynthesis inhibitors targeting human lanosterol 14 β -demethylase (CYP51). Bioorganic and Medicinal Chemistry, 2008, 16, 209-221.	1.4	40
35	Sex Differences in the Hepatic Cholesterol Sensing Mechanisms in Mice. Molecules, 2013, 18, 11067-11085.	1.7	37
36	CREM modulates the circadian expression of CYP51, HMGCR and cholesterologenesis in the liver. Biochemical and Biophysical Research Communications, 2008, 376, 206-210.	1.0	35

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37	Circadian events in human diseases and in cytochrome P450-related drug metabolism and therapy. <i>IUBMB Life</i> , 2013, 65, 487-496.	1.5	35
38	The Three Human Cytochrome P450 Lanosterol 14 α -Demethylase (CYP51) Genes Reside on Chromosomes 3, 7, and 13: Structure of the Two Retrotransposed Pseudogenes, Association with a Line-1 Element, and Evolution of the Human CYP51 Family. <i>Archives of Biochemistry and Biophysics</i> , 1996, 333, 466-474.	1.4	33
39	Tissue-specific transcriptional regulation of the cholesterol biosynthetic pathway leads to accumulation of testis meiosis-activating sterol (T-MAS). <i>Journal of Lipid Research</i> , 2002, 43, 82-9.	2.0	32
40	Cytochrome P450 metabolism of the post-lanosterol intermediates explains enigmas of cholesterol synthesis. <i>Scientific Reports</i> , 2016, 6, 28462.	1.6	31
41	The Interplay between Circadian System, Cholesterol Synthesis, and Steroidogenesis Affects Various Aspects of Female Reproduction. <i>Frontiers in Endocrinology</i> , 2013, 4, 111.	1.5	30
42	Lessons from Hepatocyte-Specific Cyp51 Knockout Mice: Impaired Cholesterol Synthesis Leads to Oval Cell-Driven Liver Injury. <i>Scientific Reports</i> , 2015, 5, 8777.	1.6	30
43	Characterization of the Mouse Lanosterol 14 α -Demethylase (CYP51), a New Member of the Evolutionarily Most Conserved Cytochrome P450 Family. <i>Archives of Biochemistry and Biophysics</i> , 2000, 379, 37-45.	1.4	29
44	Cholesterogenic Lanosterol 14 α -Demethylase (CYP51) Is an Immediate Early Response Gene. <i>Endocrinology</i> , 2005, 146, 5321-5331.	1.4	28
45	The human primary hepatocyte transcriptome reveals novel insights into atorvastatin and rosuvastatin action. <i>Pharmacogenetics and Genomics</i> , 2011, 21, 741-750.	0.7	28
46	Pre-cholesterol precursors in gametogenesis. <i>Molecular and Cellular Endocrinology</i> , 2005, 234, 47-56.	1.6	26
47	Circadian expression of steroidogenic cytochromes P450 in the mouse adrenal gland— <i>involvement of cAMP-responsive element modulator in epigenetic regulation of Cyp17a1</i> . <i>FEBS Journal</i> , 2012, 279, 1584-1593.	2.2	26
48	Disrupting Hepatocyte Cyp51 from Cholesterol Synthesis Leads to Progressive Liver Injury in the Developing Mouse and Decreases RORC Signalling. <i>Scientific Reports</i> , 2017, 7, 40775.	1.6	26
49	Computational modelling of genome-scale metabolic networks and its application to CHO cell cultures. <i>Computers in Biology and Medicine</i> , 2017, 88, 150-160.	3.9	24
50	Polymorphisms of CYP51A1 from Cholesterol Synthesis: Associations with Birth Weight and Maternal Lipid Levels and Impact on CYP51 Protein Structure. <i>PLoS ONE</i> , 2013, 8, e82554.	1.1	24
51	Oxysterols and Gastrointestinal Cancers Around the Clock. <i>Frontiers in Endocrinology</i> , 2019, 10, 483.	1.5	23
52	Drug Interaction Potential of 2-((3,4-Dichlorophenethyl)(propyl)amino)-1-(pyridin-3-yl)ethanol (LK-935), the Novel Nonstatin-Type Cholesterol-Lowering Agent. <i>Drug Metabolism and Disposition</i> , 2009, 37, 375-385.	1.7	21
53	From Nonalcoholic Fatty Liver Disease to Hepatocellular Carcinoma: A Systems Understanding. <i>Digestive Diseases and Sciences</i> , 2014, 59, 238-241.	1.1	21
54	Large-scale computational models of liver metabolism: How far from the clinics?. <i>Hepatology</i> , 2017, 66, 1323-1334.	3.6	21

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55	Targeting Signalling Pathways in Hepatocellular carcinoma. <i>Current Pharmaceutical Design</i> , 2016, 22, 1-1.	0.9	21
56	Personalized therapy when tackling nonalcoholic fatty liver disease: a focus on sex, genes, and drugs. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2018, 14, 831-841.	1.5	20
57	Lanosterol metabolism and sterol regulatory element binding protein (SREBP) expression in male germ cell maturation. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2003, 85, 429-438.	1.2	19
58	Adaptation of cholesterol synthesis to fasting and TNF- α : Profiling cholesterol intermediates in the liver, brain, and testis. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2010, 121, 619-625.	1.2	19
59	Male germ cell-specific knockout of cholesterologenic cytochrome P450 lanosterol 14 α -demethylase (Cyp51). <i>Journal of Lipid Research</i> , 2013, 54, 1653-1661.	2.0	19
60	Regulation of cytochrome P450 enzyme activity and expression by nitric oxide in the context of inflammatory disease. <i>Drug Metabolism Reviews</i> , 2020, 52, 455-471.	1.5	19
61	Tick-tock hedgehog-mutual crosstalk with liver circadian clock promotes liver steatosis. <i>Journal of Hepatology</i> , 2019, 70, 1192-1202.	1.8	18
62	Network and Systems Medicine: Position Paper of the European Collaboration on Science and Technology Action on Open Multiscale Systems Medicine. <i>Network and Systems Medicine</i> , 2020, 3, 67-90.	2.7	18
63	SteatoNet: The First Integrated Human Metabolic Model with Multi-layered Regulation to Investigate Liver-Associated Pathologies. <i>PLoS Computational Biology</i> , 2014, 10, e1003993.	1.5	17
64	Community effort endorsing multiscale modelling, multiscale data science and multiscale computing for systems medicine. <i>Briefings in Bioinformatics</i> , 2019, 20, 1057-1062.	3.2	15
65	Pharmacogenomic and personalized approaches to tackle nonalcoholic fatty liver disease. <i>Pharmacogenomics</i> , 2016, 17, 1273-1288.	0.6	13
66	Simplified LC-MS Method for Analysis of Sterols in Biological Samples. <i>Molecules</i> , 2020, 25, 4116.	1.7	12
67	Inhibition of Human Sterol 7 α -Reductase and Other Postlanosterol Enzymes by LK-980, a Novel Inhibitor of Cholesterol Synthesis. <i>Drug Metabolism and Disposition</i> , 2011, 39, 39-46.	1.7	11
68	An algorithm for rapid computational construction of metabolic networks: A cholesterol biosynthesis example. <i>Computers in Biology and Medicine</i> , 2013, 43, 471-480.	3.9	11
69	Rosuvastatin and Atorvastatin Are Ligands of the Human Constitutive Androstane Receptor/Retinoid X Receptor α Complex. <i>Drug Metabolism and Disposition</i> , 2017, 45, 974-976.	1.7	11
70	Meta-Analysis and Experimental Validation Identified <i>FREM2</i> and <i>SPRY1</i> as New Glioblastoma Marker Candidates. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1369.	1.8	11
71	The Association of Polymorphisms in Circadian Clock and Lipid Metabolism Genes With 2nd Trimester Lipid Levels and Preterm Birth. <i>Frontiers in Genetics</i> , 2019, 10, 540.	1.1	11
72	Guided extraction of genome-scale metabolic models for the integration and analysis of omics data. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 3521-3530.	1.9	11

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73	Inducible cAMP Early Repressor Regulates the Period 1 Gene of the Hepatic and Adrenal Clocks. <i>Journal of Biological Chemistry</i> , 2013, 288, 10318-10327.	1.6	10
74	Circadian rhythm of cholesterol synthesis in mouse liver: A statistical analysis of the post-squalene metabolites in wild-type and Crem-knock-out mice. <i>Biochemical and Biophysical Research Communications</i> , 2011, 408, 635-641.	1.0	9
75	An Early Stage Researcher's Primer on Systems Medicine Terminology. <i>Network and Systems Medicine</i> , 2021, 4, 2-50.	2.7	9
76	Sex-dependent dynamics of metabolism in primary mouse hepatocytes. <i>Archives of Toxicology</i> , 2021, 95, 3001-3013.	1.9	9
77	Hidden Disease Susceptibility and Sexual Dimorphism in the Heterozygous Knockout of Cyp51 from Cholesterol Synthesis. <i>PLoS ONE</i> , 2014, 9, e112787.	1.1	9
78	Chronic Disruption of the Late Cholesterol Synthesis Leads to Female-Prevalent Liver Cancer. <i>Cancers</i> , 2020, 12, 3302.	1.7	8
79	<i>Escherichia coli</i> Affects Expression of Circadian Clock Genes in Human Hepatoma Cells. <i>Microorganisms</i> , 2021, 9, 869.	1.6	8
80	Localisation of lanosterol 14 α -demethylase in round and elongated spermatids of the mouse testis: an immunoelectron microscopic and stereological study. <i>Pflugers Archiv European Journal of Physiology</i> , 2001, 442, r167-r168.	1.3	7
81	Evaluation of Selected CYP51A1 Polymorphisms in View of Interactions with Substrate and Redox Partner. <i>Frontiers in Pharmacology</i> , 2017, 8, 417.	1.6	7
82	Recent Advances in Systems and Network Medicine: Meeting Report from the First International Conference in Systems and Network Medicine. <i>Systems Medicine (New Rochelle, N Y)</i> , 2020, 3, 22-35.	1.4	7
83	Training in Systems Approaches for the Next Generation of Life Scientists and Medical Doctors. <i>Methods in Molecular Biology</i> , 2016, 1386, 73-86.	0.4	6
84	Expression of microsomal lanosterol 14 α -demethylase (CYP51) in an engineered soluble monomeric form. <i>Biochemical and Biophysical Research Communications</i> , 2008, 371, 855-859.	1.0	5
85	Identification of Variants Associated With Rare Hematological Disorder Erythrocytosis Using Targeted Next-Generation Sequencing Analysis. <i>Frontiers in Genetics</i> , 2021, 12, 689868.	1.1	5
86	Identification of Novel RNA Binding Proteins Influencing Circular RNA Expression in Hepatocellular Carcinoma. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7477.	1.8	5
87	Integration of omics data to generate and analyse COVID-19 specific genome-scale metabolic models. <i>Computers in Biology and Medicine</i> , 2022, 145, 105428.	3.9	5
88	Mouse genotypes drive the liver and adrenal gland clocks. <i>Scientific Reports</i> , 2016, 6, 31955.	1.6	4
89	Differential lactate and cholesterol synthetic activities in XY and XX Sertoli cells. <i>Scientific Reports</i> , 2017, 7, 41912.	1.6	4
90	Pyridylethanol(phenylethyl)amines are non-azole, highly selective <i>Candida albicans</i> sterol 14 α -demethylase inhibitors. <i>Bioorganic Chemistry</i> , 2021, 106, 104472.	2.0	4

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91	Common Transcriptional Program of Liver Fibrosis in Mouse Genetic Models and Humans. International Journal of Molecular Sciences, 2021, 22, 832.	1.8	4
92	Low nucleotide variability of CYP51A1 in humans: meta-analysis of cholesterol and bile acid synthesis and xenobiotic metabolism pathways. Acta Chimica Slovenica, 2013, 60, 875-83.	0.2	4
93	Ultrastructure and genotypic characterization of the filamentous fungus <i>Cochliobolus lunatus</i> in comparison to the anamorphic strain <i>Curvularia lunata</i> . FEMS Microbiology Letters, 1994, 117, 35-40.	0.7	3
94	New steroid 5 α -reductase type I (SRD5A1) homologous sequences on human chromosomes 6 and 8. Pflugers Archiv European Journal of Physiology, 2001, 442, r187-r189.	1.3	3
95	Novel insights into biological roles of inducible cAMP early repressor ICER. Biochemical and Biophysical Research Communications, 2020, 530, 396-401.	1.0	3
96	Sterols from the Post-Lanosterol Part of Cholesterol Synthesis: Novel Signaling Players. , 2020, , 1-22.		3
97	Detecting gene-gene interactions from GWAS using diffusion kernel principal components. BMC Bioinformatics, 2022, 23, 57.	1.2	3
98	Morphological changes and induced sporulation in HmBR transformants of <i>Cochliobolus lunatus</i> . Current Microbiology, 1991, 23, 303-306.	1.0	2
99	Molecular cloning and partial characterisation of the mouse Cyp51 cDNA. Pflugers Archiv European Journal of Physiology, 2000, 439, r007-r008.	1.3	1
100	Matching mouse models to specific human liver disease states by comparative functional genomics of mouse and human datasets. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2022, 1865, 194785.	0.9	1
101	From Whole Liver to Single Cell Transcriptomics in Sex-Dependent Liver Pathologies. , 2021, , 234-243.		0
102	Molecular cloning and partial characterisation of the mouse Cyp51 cDNA. Pflugers Archiv European Journal of Physiology, 2000, 439, R7-R8.	1.3	0