# Damjana Rozman

## List of Publications by Year in descending order

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|---|---|---|---|
| 103 papers | 3,755 citations | 117625 34 h-index | 149698 56 g-index |
| 106 all docs | 106 docs citations | 106 times ranked | 5599 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Identification of Natural RORÎ³ Ligands that Regulate the Development of Lymphoid Cells. Cell Metabolism, 2015, 21, 286-298. | 16.2 | 193 |
| 2 | Cytochrome P450s in the synthesis of cholesterol and bile acids â€“ from mouse models to human diseases. FEBS Journal, 2012, 279, 1516-1533. | 4.7 | 165 |
| 3 | Nonalcoholic Fatty Liver Disease: Focus on Lipoprotein and Lipid Deregulation. Journal of Lipids, 2011, 2011, 1-14. | 4.8 | 164 |
| 4 | The Ubiquitously Expressed Human CYP51 Encodes Lanosterol 14Î±-Demethylase, a Cytochrome P450 Whose Expression Is Regulated by Oxysterols. Archives of Biochemistry and Biophysics, 1996, 329, 73-81. | 3.0 | 162 |
| 5 | Mammalian cytochromes P450â€”Importance of tissue specificity. Biochimica Et Biophysica Acta - General Subjects, 2007, 1770, 458-466. | 2.4 | 123 |
| 6 | Many facets of mammalian lanosterol 14Î±-demethylase from the evolutionarily conserved cytochrome P450 family CYP51. Archives of Biochemistry and Biophysics, 2003, 409, 159-171. | 3.0 | 97 |
| 7 | Timing of circadian genes in mammalian tissues. Scientific Reports, 2014, 4, 5782. | 3.3 | 97 |
| 8 | Sterols in spermatogenesis and sperm maturation. Journal of Lipid Research, 2013, 54, 20-33. | 4.2 | 92 |
| 9 | Determination of reference genes for circadian studies in different tissues and mouse strains. BMC Molecular Biology, 2010, 11, 60. | 3.0 | 88 |
| 10 | Cholesterol, lipoproteins, and COVID-19: Basic concepts and clinical applications. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2021, 1866, 158849. | 2.4 | 88 |
| 11 | Structure and Mapping of the Human Lanosterol 14Î±- Demethylase Gene (CYP51) Encoding the Cytochrome P450 Involved in Cholesterol Biosynthesis; Comparison of Exon/Intron Organization with other Mammalian and Fungal CYP Genes. Genomics, 1996, 38, 371-381. | 2.9 | 86 |
| 12 | Mouse Knockout of the Cholesterogenic Cytochrome P450 Lanosterol 14Î±-Demethylase (Cyp51) Resembles Antley-Bixler Syndrome. Journal of Biological Chemistry, 2011, 286, 29086-29097. | 3.4 | 83 |
| 13 | Perspectives of the non-statin hypolipidemic agents. , 2010, 127, 19-40. | | 80 |
| 14 | Genomic aspects of NAFLD pathogenesis. Genomics, 2013, 102, 84-95. | 2.9 | 80 |
| 15 | Circadian Regulation of the Hepatic Endobiotic and Xenobitoic Detoxification Pathways: The Time Matters. Chemical Research in Toxicology, 2012, 25, 811-824. | 3.3 | 79 |
| 16 | Combined gas chromatographic/mass spectrometric analysis of cholesterol precursors and plant sterols in cultured cells. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2009, 877, 2081-2086. | 2.3 | 75 |
| 17 | Acrolein consumption induces systemic dyslipidemia and lipoprotein modification. Toxicology and Applied Pharmacology, 2010, 243, 1-12. | 2.8 | 74 |
| 18 | The role of bile acids in carcinogenesis. Cellular and Molecular Life Sciences, 2022, 79, 243. | 5.4 | 73 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Characteristics of the heterologously expressed human lanosterol 14Î±-demethylase (other names:) Tj ETQq1 1 0.784314 rgBT /Overl antifungal agents. , 1999, 15, 755-763. | | 72 |
| 20 | Cyclic Adenosine 3â€²,5â€²-Monophosphate(cAMP)/cAMP-Responsive Element Modulator (CREM)-Dependent Regulation of Cholesterogenic Lanosterol 14Î±-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. | 2.5 | 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. | 3.6 | 62 |
| 23 | Interplay between cholesterol and drug metabolism. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2011, 1814, 146-160. | 2.3 | 58 |
| 24 | Molecular Interactions between NAFLD and Xenobiotic Metabolism. Frontiers in Genetics, 2013, 4, 2. | 2.3 | 55 |
| 25 | Elevated Expression of Lanosterol 14Î±-Demethylase (CYP51) and the Synthesis of Oocyte Meiosis-Activating Sterols in Postmeiotic Germ Cells of Male Rats1. Endocrinology, 1998, 139, 2314-2321. | 2.8 | 51 |
| 26 | A cAMP-Responsive Element Binding Site Is Essential for Sterol Regulation of the Human Lanosterol 14Î±-Demethylase Gene (CYP51). Molecular Endocrinology, 2002, 16, 1853-1863. | 3.7 | 51 |
| 27 | TNF-Î± interferes with lipid homeostasis and activates acute and proatherogenic processes. Physiological Genomics, 2007, 31, 216-227. | 2.3 | 51 |
| 28 | Effect of CAR activation on selected metabolic pathways in normal and hyperlipidemic mouse livers. BMC Genomics, 2009, 10, 384. | 2.8 | 49 |
| 29 | Steroidal Triterpenes of Cholesterol Synthesis. Molecules, 2013, 18, 4002-4017. | 3.8 | 49 |
| 30 | LiverSex Computational Model: Sexual Aspects in Hepatic Metabolism and Abnormalities. Frontiers in Physiology, 2018, 9, 360. | 2.8 | 49 |
| 31 | New Aspects on Lanosterol 14Î±-Demethylase and Cytochrome P450 Evolution: Lanosterol/Cycloartenol Diversification and Lateral Transfer. Journal of Molecular Evolution, 2004, 59, 51-58. | 1.8 | 45 |
| 32 | Novel Insights into the Downstream Pathways and Targets Controlled by Transcription Factors CREM in the Testis. PLoS ONE, 2012, 7, e31798. | 2.5 | 42 |
| 33 | Effects of Flavonoids from Food and Dietary Supplements on Glial and Glioblastoma Multiforme Cells. Molecules, 2015, 20, 19406-19432. | 3.8 | 41 |
| 34 | Novel cholesterol biosynthesis inhibitors targeting human lanosterol 14Î±-demethylase (CYP51). Bioorganic and Medicinal Chemistry, 2008, 16, 209-221. | 3.0 | 40 |
| 35 | Sex Differences in the Hepatic Cholesterol Sensing Mechanisms in Mice. Molecules, 2013, 18, 11067-11085. | 3.8 | 37 |
| 36 | CREM modulates the circadian expression of CYP51, HMGCR and cholesterogenesis in the liver. Biochemical and Biophysical Research Communications, 2008, 376, 206-210. | 2.1 | 35 |

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|---|---|---|---|
| 37 | Circadian events in human diseases and in cytochrome P450â€related drug metabolism and therapy. IUBMB Life, 2013, 65, 487-496. | 3.4 | 35 |
| 38 | The Three Human Cytochrome P450 Lanosterol 14Î±-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. Archives of Biochemistry and Biophysics, 1996, 333, 466-474. | 3.0 | 33 |
| 39 | Tissue-specific transcriptional regulation of the cholesterol biosynthetic pathway leads to accumulation of testis meiosis-activating sterol (T-MAS). Journal of Lipid Research, 2002, 43, 82-9. | 4.2 | 32 |
| 40 | Cytochrome P450 metabolism of the post-lanosterol intermediates explains enigmas of cholesterol synthesis. Scientific Reports, 2016, 6, 28462. | 3.3 | 31 |
| 41 | The Interplay between Circadian System, Cholesterol Synthesis, and Steroidogenesis Affects Various Aspects of Female Reproduction. Frontiers in Endocrinology, 2013, 4, 111. | 3.5 | 30 |
| 42 | Lessons from Hepatocyte-Specific Cyp51 Knockout Mice: Impaired Cholesterol Synthesis Leads to Oval Cell-Driven Liver Injury. Scientific Reports, 2015, 5, 8777. | 3.3 | 30 |
| 43 | Characterization of the Mouse Lanosterol 14Î±-Demethylase (CYP51), a New Member of the Evolutionarily Most Conserved Cytochrome P450 Family. Archives of Biochemistry and Biophysics, 2000, 379, 37-45. | 3.0 | 29 |
| 44 | Cholesterogenic Lanosterol 14Î±-Demethylase (CYP51) Is an Immediate Early Response Gene. Endocrinology, 2005, 146, 5321-5331. | 2.8 | 28 |
| 45 | The human primary hepatocyte transcriptome reveals novel insights into atorvastatin and rosuvastatin action. Pharmacogenetics and Genomics, 2011, 21, 741-750. | 1.5 | 28 |
| 46 | Pre-cholesterol precursors in gametogenesis. Molecular and Cellular Endocrinology, 2005, 234, 47-56. | 3.2 | 26 |
| 47 | Circadian expression of steroidogenic cytochromesâ€ƒP450 in the mouse adrenal glandâ€ƒâ€“â€ƒinvolvement of cAMPâ€responsive element modulator in epigenetic regulation of Cyp17a1. FEBS Journal, 2012, 279, 1584-1593. | 4.7 | 26 |
| 48 | Disrupting Hepatocyte Cyp51 from Cholesterol Synthesis Leads to Progressive Liver Injury in the Developing Mouse and Decreases RORC Signalling. Scientific Reports, 2017, 7, 40775. | 3.3 | 26 |
| 49 | Computational modelling of genome-scale metabolic networks and its application to CHO cell cultures. Computers in Biology and Medicine, 2017, 88, 150-160. | 7.0 | 24 |
| 50 | Polymorphisms of CYP51A1 from Cholesterol Synthesis: Associations with Birth Weight and Maternal Lipid Levels and Impact on CYP51 Protein Structure. PLoS ONE, 2013, 8, e82554. | 2.5 | 24 |
| 51 | Oxysterols and Gastrointestinal Cancers Around the Clock. Frontiers in Endocrinology, 2019, 10, 483. | 3.5 | 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. Drug Metabolism and Disposition, 2009, 37, 375-385. | 3.3 | 21 |
| 53 | From Nonalcoholic Fatty Liver Disease to Hepatocellular Carcinoma: A Systems Understanding. Digestive Diseases and Sciences, 2014, 59, 238-241. | 2.3 | 21 |
| 54 | Largeâ€scale computational models of liver metabolism: How far from the clinics?. Hepatology, 2017, 66, 1323-1334. | 7.3 | 21 |

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|---|---|---|---|
| 55 | Targeting Signalling Pathways in Hepatocellular carcinoma. Current Pharmaceutical Design, 2016, 22, 1-1. | 1.9 | 21 |
| 56 | Personalized therapy when tackling nonalcoholic fatty liver disease: a focus on sex, genes, and drugs. Expert Opinion on Drug Metabolism and Toxicology, 2018, 14, 831-841. | 3.3 | 20 |
| 57 | Lanosterol metabolism and sterol regulatory element binding protein (SREBP) expression in male germ cell maturation. Journal of Steroid Biochemistry and Molecular Biology, 2003, 85, 429-438. | 2.5 | 19 |
| 58 | Adaptation of cholesterol synthesis to fasting and TNF-Î±: Profiling cholesterol intermediates in the liver, brain, and testis. Journal of Steroid Biochemistry and Molecular Biology, 2010, 121, 619-625. | 2.5 | 19 |
| 59 | Male germ cell-specific knockout of cholesterogenic cytochrome P450 lanosterol 14Î±-demethylase (Cyp51). Journal of Lipid Research, 2013, 54, 1653-1661. | 4.2 | 19 |
| 60 | Regulation of cytochrome P450 enzyme activity and expression by nitric oxide in the context of inflammatory disease. Drug Metabolism Reviews, 2020, 52, 455-471. | 3.6 | 19 |
| 61 | Tick-tock hedgehog-mutual crosstalk with liver circadian clock promotes liver steatosis. Journal of Hepatology, 2019, 70, 1192-1202. | 3.7 | 18 |
| 62 | Network and Systems Medicine: Position Paper of the European Collaboration on Science and Technology Action on Open Multiscale Systems Medicine. Network and Systems Medicine, 2020, 3, 67-90. | 2.5 | 18 |
| 63 | SteatoNet: The First Integrated Human Metabolic Model with Multi-layered Regulation to Investigate Liver-Associated Pathologies. PLoS Computational Biology, 2014, 10, e1003993. | 3.2 | 17 |
| 64 | Elevated Expression of Lanosterol 14Â-Demethylase (CYP51) and the Synthesis of Oocyte Meiosis-Activating Sterols in Postmeiotic Germ Cells of Male Rats. Endocrinology, 1998, 139, 2314-2321. | 2.8 | 16 |
| 65 | Community effort endorsing multiscale modelling, multiscale data science and multiscale computing for systems medicine. Briefings in Bioinformatics, 2019, 20, 1057-1062. | 6.5 | 15 |
| 66 | Pharmacogenomic and personalized approaches to tackle nonalcoholic fatty liver disease. Pharmacogenomics, 2016, 17, 1273-1288. | 1.3 | 13 |
| 67 | Simplified LC-MS Method for Analysis of Sterols in Biological Samples. Molecules, 2020, 25, 4116. | 3.8 | 12 |
| 68 | Inhibition of Human Sterol Î”<sup>7</sup>-Reductase and Other Postlanosterol Enzymes by LK-980, a Novel Inhibitor of Cholesterol Synthesis. Drug Metabolism and Disposition, 2011, 39, 39-46. | 3.3 | 11 |
| 69 | An algorithm for rapid computational construction of metabolic networks: A cholesterol biosynthesis example. Computers in Biology and Medicine, 2013, 43, 471-480. | 7.0 | 11 |
| 70 | Rosuvastatin and Atorvastatin Are Ligands of the Human Constitutive Androstane Receptor/Retinoid X Receptor Î± Complex. Drug Metabolism and Disposition, 2017, 45, 974-976. | 3.3 | 11 |
| 71 | Meta-Analysis and Experimental Validation Identified FREM2 and SPRY1 as New Glioblastoma Marker Candidates. International Journal of Molecular Sciences, 2018, 19, 1369. | 4.1 | 11 |
| 72 | The Association of Polymorphisms in Circadian Clock and Lipid Metabolism Genes With 2nd Trimester Lipid Levels and Preterm Birth. Frontiers in Genetics, 2019, 10, 540. | 2.3 | 11 |

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|---|---|---|---|
| 73 | Guided extraction of genome-scale metabolic models for the integration and analysis of omics data. Computational and Structural Biotechnology Journal, 2021, 19, 3521-3530. | 4.1 | 11 |
| 74 | Inducible cAMP Early Repressor Regulates the Period 1 Gene of the Hepatic and Adrenal Clocks. Journal of Biological Chemistry, 2013, 288, 10318-10327. | 3.4 | 10 |
| 75 | Circadian rhythm of cholesterol synthesis in mouse liver: A statistical analysis of the post-squalene metabolites in wild-type and Crem-knock-out mice. Biochemical and Biophysical Research Communications, 2011, 408, 635-641. | 2.1 | 9 |
| 76 | An Early Stage Researcher's Primer on Systems Medicine Terminology. Network and Systems Medicine, 2021, 4, 2-50. | 2.5 | 9 |
| 77 | Sex-dependent dynamics of metabolism in primary mouse hepatocytes. Archives of Toxicology, 2021, 95, 3001-3013. | 4.2 | 9 |
| 78 | Hidden Disease Susceptibility and Sexual Dimorphism in the Heterozygous Knockout of Cyp51 from Cholesterol Synthesis. PLoS ONE, 2014, 9, e112787. | 2.5 | 9 |
| 79 | Chronic Disruption of the Late Cholesterol Synthesis Leads to Female-Prevalent Liver Cancer. Cancers, 2020, 12, 3302. | 3.7 | 8 |
| 80 | Escherichia coli Affects Expression of Circadian Clock Genes in Human Hepatoma Cells. Microorganisms, 2021, 9, 869. | 3.6 | 8 |
| 81 | Localisation of lanosterol 14Î‘-demethylase in round and elongated spermatids of the mouse testis: an immunoelectron microscopic and stereological study. Pflugers Archiv European Journal of Physiology, 2001, 442, r167-r168. | 2.8 | 7 |
| 82 | Evaluation of Selected CYP51A1 Polymorphisms in View of Interactions with Substrate and Redox Partner. Frontiers in Pharmacology, 2017, 8, 417. | 3.5 | 7 |
| 83 | Recent Advances in Systems and Network Medicine: Meeting Report from the First International Conference in Systems and Network Medicine. Systems Medicine (New Rochelle, N Y ), 2020, 3, 22-35. | 1.1 | 7 |
| 84 | Training in Systems Approaches for the Next Generation of Life Scientists and Medical Doctors. Methods in Molecular Biology, 2016, 1386, 73-86. | 0.9 | 6 |
| 85 | Expression of microsomal lanosterol 14Î±-demethylase (CYP51) in an engineered soluble monomeric form. Biochemical and Biophysical Research Communications, 2008, 371, 855-859. | 2.1 | 5 |
| 86 | Identification of Variants Associated With Rare Hematological Disorder Erythrocytosis Using Targeted Next-Generation Sequencing Analysis. Frontiers in Genetics, 2021, 12, 689868. | 2.3 | 5 |
| 87 | Identification of Novel RNA Binding Proteins Influencing Circular RNA Expression in Hepatocellular Carcinoma. International Journal of Molecular Sciences, 2021, 22, 7477. | 4.1 | 5 |
| 88 | Integration of omics data to generate and analyse COVID-19 specific genome-scale metabolic models. Computers in Biology and Medicine, 2022, 145, 105428. | 7.0 | 5 |
| 89 | Mouse genotypes drive the liver and adrenal gland clocks. Scientific Reports, 2016, 6, 31955. | 3.3 | 4 |
| 90 | Differential lactate and cholesterol synthetic activities in XY and XX Sertoli cells. Scientific Reports, 2017, 7, 41912. | 3.3 | 4 |

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|---|---|---|---|
| 91 | Pyridylethanol(phenylethyl)amines are non-azole, highly selective Candida albicans sterol 14Î±-demethylase inhibitors. Bioorganic Chemistry, 2021, 106, 104472. | 4.1 | 4 |
| 92 | Common Transcriptional Program of Liver Fibrosis in Mouse Genetic Models and Humans. International Journal of Molecular Sciences, 2021, 22, 832. | 4.1 | 4 |
| 93 | 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. | 0.6 | 4 |
| 94 | Ultrastructure and genotypic characterization of the filamentous fungusCochliobolus lunatusin comparison to the anamorphic strainCurvularia lunata. FEMS Microbiology Letters, 1994, 117, 35-40. | 1.8 | 3 |
| 95 | New steroid 5Î²-reductase type I (SRD5A1) homologous sequences on human chromosomes 6 and 8. Pflugers Archiv European Journal of Physiology, 2001, 442, r187-r189. | 2.8 | 3 |
| 96 | Novel insights into biological roles of inducible cAMP early repressor ICER. Biochemical and Biophysical Research Communications, 2020, 530, 396-401. | 2.1 | 3 |
| 97 | Sterols from the Post-Lanosterol Part of Cholesterol Synthesis: Novel Signaling Players. , 2020, , 1-22. | | 3 |
| 98 | Detecting geneâ€“gene interactions from GWAS using diffusion kernel principal components. BMC Bioinformatics, 2022, 23, 57. | 2.6 | 3 |
| 99 | Morphological changes and induced sporulation in HmBR transformants ofCochliobolus lunatus. Current Microbiology, 1991, 23, 303-306. | 2.2 | 2 |
| 100 | Molecular cloning and partial characterisation of the mouse Cyp51 cDNA. Pflugers Archiv European Journal of Physiology, 2000, 439, r007-r008. | 2.8 | 1 |
| 101 | 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. | 1.9 | 1 |
| 102 | From Whole Liver to Single Cell Transcriptomics in Sex-Dependent Liver Pathologies. , 2021, , 234-243. | | 0 |
| 103 | Molecular cloning and partial characterisation of the mouse Cyp51 cDNA. Pflugers Archiv European Journal of Physiology, 2000, 439, R7-R8. | 2.8 | 0 |