

Matthias Bureik

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6948475/publications.pdf>

Version: 2024-02-01

82
papers

1,887
citations

249298

26
h-index

340414

39
g-index

86
all docs

86
docs citations

86
times ranked

1622
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Upregulation of estrogen receptor alpha (ER α) expression in transgenic mice expressing human CYP4Z1. Breast Cancer Research and Treatment, 2022, 191, 319-326. | 1.1 | 2 |
| 2 | Metabolic targeting of cancer by a ubiquinone uncompetitive inhibitor of mitochondrial complex I. Cell Chemical Biology, 2022, 29, 436-450.e15. | 2.5 | 14 |
| 3 | Monitoring of autoantibodies against CYP4Z1 in patients with colon, ovarian, or prostate cancer. Immunobiology, 2022, 227, 152174. | 0.8 | 4 |
| 4 | Human Sulfotransferase Assays With PAPS Production in situ. Frontiers in Molecular Biosciences, 2022, 9, 827638. | 1.6 | 5 |
| 5 | Metabolism of the antipsychotic drug olanzapine by CYP3A43. Xenobiotica, 2022, , 1-29. | 0.5 | 2 |
| 6 | Complete Reaction Phenotyping of Propranolol and 4-Hydroxypropranolol with the 19 Enzymes of the Human UGT1 and UGT2 Families. International Journal of Molecular Sciences, 2022, 23, 7476. | 1.8 | 2 |
| 7 | New Proluciferin Substrates for Human CYP4 Family Enzymes. Applied Biochemistry and Biotechnology, 2021, 193, 218-237. | 1.4 | 9 |
| 8 | New Insights into the Metabolism of Methyltestosterone and Metandienone: Detection of Novel A-Ring Reduced Metabolites. Molecules, 2021, 26, 1354. | 1.7 | 13 |
| 9 | Discovery of a novel potent cytochrome P450 CYP4Z1 inhibitor. European Journal of Medicinal Chemistry, 2021, 215, 113255. | 2.6 | 13 |
| 10 | Futile cycling by human microsomal cytochrome P450 enzymes within intact fission yeast cells. Archives of Biochemistry and Biophysics, 2021, 701, 108791. | 1.4 | 0 |
| 11 | Conversion of five proluciferin esters by human cytochrome P450 enzymes. Biotechnology Journal, 2021, 16, 2100007. | 1.8 | 3 |
| 12 | Corticosteroid Biosynthesis Revisited: No Direct Hydroxylation of Pregnenolone by Steroid 21-Hydroxylase. Frontiers in Endocrinology, 2021, 12, 633785. | 1.5 | 1 |
| 13 | Structural insights into understudied human cytochrome P450 enzymes. Drug Discovery Today, 2021, 26, 2456-2464. | 3.2 | 19 |
| 14 | Controlled administration of dehydrochloromethyltestosterone in humans: Urinary excretion and long-term detection of metabolites for anti-doping purpose. Journal of Steroid Biochemistry and Molecular Biology, 2021, 214, 105978. | 1.2 | 6 |
| 15 | Concomitant occurrence of multiple autoantibodies against human cytochromes P450. International Immunopharmacology, 2021, 100, 108087. | 1.7 | 1 |
| 16 | A convenient test system for the identification of CYP4V2 inhibitors. Molecular Vision, 2021, 27, 601-607. | 1.1 | 0 |
| 17 | Identification of new probe substrates for human CYP20A1. Biological Chemistry, 2020, 401, 361-365. | 1.2 | 13 |
| 18 | Rapid and convenient biotransformation procedure for human drug metabolizing enzymes using permeabilized fission yeast cells. Analytical Biochemistry, 2020, 607, 113704. | 1.1 | 12 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Functional Expression of All Human Sulfotransferases in Fission Yeast, Assay Development, and Structural Models for Isoforms SULT4A1 and SULT6B1. <i>Biomolecules</i> , 2020, 10, 1517. | 1.8 | 11 |
| 20 | New luciferin-based probe substrates for human CYP26A1. <i>Biochemistry and Biophysics Reports</i> , 2020, 24, 100861. | 0.7 | 3 |
| 21 | Screening of the whole human cytochrome P450 complement (CYPome) with enzyme bag cocktails. <i>Journal of Pharmaceutical Analysis</i> , 2020, 10, 271-276. | 2.4 | 9 |
| 22 | A convenient new method for reproducible fed-batch fermentation of fission yeast <i>Schizosaccharomyces pombe</i> . <i>Biotechnology Letters</i> , 2020, 42, 937-943. | 1.1 | 4 |
| 23 | Importance of asparagine-381 and arginine-487 for substrate recognition in CYP4Z1. <i>Biochemical Pharmacology</i> , 2020, 174, 113850. | 2.0 | 17 |
| 24 | Cytochrome P450 expression patterns in human osteoblasts during osteogenic differentiation with or without TNF α treatment. <i>Biopharmaceutics and Drug Disposition</i> , 2020, 41, 184-191. | 1.1 | 3 |
| 25 | Corticosteroid Biosynthesis Revisited: Substrate Specificity of Steroid 21 α -Hydroxylase. <i>FASEB Journal</i> , 2020, 34, 1-1. | 0.2 | 0 |
| 26 | Fine-mapping of the substrate specificity of human steroid 21-hydroxylase (CYP21A2). <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2019, 194, 105446. | 1.2 | 14 |
| 27 | Functional characterization and mechanistic modeling of the human cytochrome P450 enzyme CYP4A22. <i>FEBS Letters</i> , 2019, 593, 2214-2225. | 1.3 | 18 |
| 28 | Functional expression and activity screening of all human cytochrome P450 enzymes in fission yeast. <i>FEBS Letters</i> , 2019, 593, 1372-1380. | 1.3 | 39 |
| 29 | Plasma membrane localization of CYP4Z1 and CYP19A1 and the detection of anti-CYP19A1 autoantibodies in humans. <i>International Immunopharmacology</i> , 2019, 73, 64-71. | 1.7 | 18 |
| 30 | A comprehensive overview of common polymorphic variants that cause missense mutations in human CYPs and UGTs. <i>Biomedicine and Pharmacotherapy</i> , 2019, 111, 983-992. | 2.5 | 9 |
| 31 | Conversion of chenodeoxycholic acid to cholic acid by human CYP8B1. <i>Biological Chemistry</i> , 2019, 400, 625-628. | 1.2 | 28 |
| 32 | Combined chemical and biotechnological production of 20 β -OH-NorDHCMT, a long-term metabolite of Oral-Turinabol (DHCMT). <i>Journal of Inorganic Biochemistry</i> , 2018, 183, 165-171. | 1.5 | 20 |
| 33 | A common polymorphic variant of <i>UGT</i> 1A5 displays increased activity due to optimized cofactor binding. <i>FEBS Letters</i> , 2018, 592, 1837-1846. | 1.3 | 10 |
| 34 | Anti-CYP4Z1 autoantibodies detected in breast cancer patients. <i>Cellular and Molecular Immunology</i> , 2017, 14, 572-574. | 4.8 | 29 |
| 35 | Efficient substrate screening and inhibitor testing of human CYP4Z1 using permeabilized recombinant fission yeast. <i>Biochemical Pharmacology</i> , 2017, 146, 174-187. | 2.0 | 40 |
| 36 | Comparison of cytochrome P450 expression in four different human osteoblast models. <i>Biological Chemistry</i> , 2017, 398, 1327-1334. | 1.2 | 9 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Bystander signaling via oxidative metabolism. <i>OncoTargets and Therapy</i> , 2017, Volume 10, 3925-3940. | 1.0 | 29 |
| 38 | CYP4Z1 – A Human Cytochrome P450 Enzyme that Might Hold the Key to Curing Breast Cancer. <i>Current Pharmaceutical Design</i> , 2017, 23, 2060-2064. | 0.9 | 27 |
| 39 | Comparative Proteome Analysis in <i>Schizosaccharomyces pombe</i> Identifies Metabolic Targets to Improve Protein Production and Secretion. <i>Molecular and Cellular Proteomics</i> , 2016, 15, 3090-3106. | 2.5 | 8 |
| 40 | Selective oxidation of UDP-glucose to UDP-glucuronic acid using permeabilized <i>Schizosaccharomyces pombe</i> expressing human UDP-glucose 6-dehydrogenase. <i>Biotechnology Letters</i> , 2016, 38, 477-481. | 1.1 | 11 |
| 41 | Overcoming the metabolic burden of protein secretion in <i>Schizosaccharomyces pombe</i> – A quantitative approach using ¹³ C-based metabolic flux analysis. <i>Metabolic Engineering</i> , 2014, 21, 34-45. | 3.6 | 44 |
| 42 | Coexpression of CPR from Various Origins Enhances Biotransformation Activity of Human CYPs in <i>S. pombe</i> . <i>Applied Biochemistry and Biotechnology</i> , 2013, 170, 1751-1766. | 1.4 | 23 |
| 43 | Production and NMR analysis of the human ibuprofen metabolite 3-hydroxyibuprofen. <i>Journal of Biotechnology</i> , 2012, 157, 417-420. | 1.9 | 26 |
| 44 | Unexpected contribution of cytochrome P450 enzymes CYP11B2 and CYP21, as well as CYP3A4 in xenobiotic androgen elimination – Insights from metandienone metabolism. <i>Toxicology Letters</i> , 2012, 213, 381-391. | 0.4 | 35 |
| 45 | Engineering of Human CYP3A Enzymes by Combination of Activating Polymorphic Variants. <i>Applied Biochemistry and Biotechnology</i> , 2012, 168, 785-796. | 1.4 | 13 |
| 46 | Expression and Secretion of a CB4-1 scFv–GFP Fusion Protein by Fission Yeast. <i>Applied Biochemistry and Biotechnology</i> , 2011, 163, 80-89. | 1.4 | 17 |
| 47 | Convenient Gram-Scale Metabolite Synthesis by Engineered Fission Yeast Strains Expressing Functional Human P450 Systems. <i>Applied Biochemistry and Biotechnology</i> , 2011, 163, 965-980. | 1.4 | 62 |
| 48 | Biotechnological Production of 20-alpha-Dihydroprogesterone at Pilot Scale. <i>Applied Biochemistry and Biotechnology</i> , 2011, 165, 190-203. | 1.4 | 11 |
| 49 | Whole-cell biotransformation assay for investigation of the human drug metabolizing enzyme CYP3A7. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2011, 1814, 161-167. | 1.1 | 21 |
| 50 | Glucuronidation of 7-mercapto-4-methylcoumarin by human UDP glycosyltransferases in genetically engineered fission yeast cells. <i>Biological Chemistry</i> , 2011, 392, 1089-1095. | 1.2 | 14 |
| 51 | Production of Ibuprofen Acyl Glucosides by Human UGT2B7. <i>Drug Metabolism and Disposition</i> , 2011, 39, 2174-2181. | 1.7 | 30 |
| 52 | Challenges of steroid biotransformation with human cytochrome P450 monooxygenase CYP21 using resting cells of recombinant <i>Schizosaccharomyces pombe</i> . <i>Journal of Biotechnology</i> , 2010, 146, 179-185. | 1.9 | 49 |
| 53 | Human 20 α -hydroxysteroid dehydrogenase (AKR1C1)-dependent biotransformation with recombinant fission yeast <i>Schizosaccharomyces pombe</i> . <i>Journal of Biotechnology</i> , 2010, 150, 161-170. | 1.9 | 13 |
| 54 | Glucuronide Production by Whole-Cell Biotransformation Using Genetically Engineered Fission Yeast <i>Schizosaccharomyces pombe</i> . <i>Drug Metabolism and Disposition</i> , 2010, 38, 509-515. | 1.7 | 31 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Production of human phase 1 and 2 metabolites by whole-cell biotransformation with recombinant microbes. <i>Bioanalysis</i> , 2010, 2, 1277-1290. | 0.6 | 41 |
| 56 | CYP21-catalyzed production of the long-term urinary metandienone metabolite 17 β -hydroxymethyl-17 α -methyl-18-norandrosta-1,4,13-trien-3-one: a contribution to the fight against doping. <i>Biological Chemistry</i> , 2010, 391, 119-27. | 1.2 | 32 |
| 57 | Biotechnological Synthesis of the Designer Drug Metabolite 4'-Hydroxymethyl-A-pyrrolidinohexanophenone in Fission Yeast Heterologously Expressing Human Cytochrome P450 2D6—A Versatile Alternative to Multistep Chemical Synthesis. <i>Journal of Analytical Toxicology</i> , 2009, 33, 190-197. | 1.7 | 25 |
| 58 | Human CYP4Z1 catalyzes the in-chain hydroxylation of lauric acid and myristic acid. <i>Biological Chemistry</i> , 2009, 390, 313-317. | 1.2 | 49 |
| 59 | Biotechnological synthesis of drug metabolites using human cytochrome P450 isozymes heterologously expressed in fission yeast. <i>Bioanalysis</i> , 2009, 1, 821-830. | 0.6 | 15 |
| 60 | Use of fission yeast heterologously expressing human cytochrome P450 2B6 in biotechnological synthesis of the designer drug metabolite N-(1-phenylcyclohexyl)-2-hydroxyethanamine. <i>Forensic Science International</i> , 2009, 184, 69-73. | 1.3 | 23 |
| 61 | Coexpression of redox partners increases the hydrocortisone (cortisol) production efficiency in CYP11B1 expressing fission yeast <i>Schizosaccharomyces pombe</i> . <i>Journal of Biotechnology</i> , 2008, 133, 351-359. | 1.9 | 45 |
| 62 | Biotechnological synthesis of drug metabolites using human cytochrome P450 2D6 heterologously expressed in fission yeast exemplified for the designer drug metabolite 4 α -hydroxymethyl- α -pyrrolidinobutyrophenone. <i>Biochemical Pharmacology</i> , 2007, 74, 511-520. | 2.0 | 43 |
| 63 | ROS production by adrenodoxin does not cause apoptosis in fission yeast. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2007, 12, 2135-2142. | 2.2 | 14 |
| 64 | A fission yeast-based test system for the determination of IC ₅₀ values of anti-prostate tumor drugs acting on CYP21. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2006, 21, 547-556. | 2.5 | 24 |
| 65 | Increased TCA cycle activity and reduced oxygen consumption during cytochrome P450-dependent biotransformation in fission yeast. <i>Yeast</i> , 2006, 23, 779-794. | 0.8 | 27 |
| 66 | Efficient conversion of 11-deoxycortisol to cortisol (hydrocortisone) by recombinant fission yeast. <i>FEMS Yeast Research</i> , 2005, 5, 621-625. | 1.1 | 60 |
| 67 | A fluorimetric assay for cortisol. <i>Analytical and Bioanalytical Chemistry</i> , 2005, 383, 182-186. | 1.9 | 49 |
| 68 | The human mineralocorticoid receptor only partially differentiates between different ligands after expression in fission yeast. <i>FEMS Yeast Research</i> , 2005, 5, 627-633. | 1.1 | 15 |
| 69 | Vitamin D3 Metabolism in Human Glioblastoma Multiforme: Functionality of CYP27B1 Splice Variants, Metabolism of Calcidiol, and Effect of Calcitriol. <i>Clinical Cancer Research</i> , 2005, 11, 5370-5380. | 3.2 | 69 |
| 70 | Adrenodoxin (Adx) and CYP11A1 (P450 _{scc}) induce apoptosis by the generation of reactive oxygen species in mitochondria. <i>Biological Chemistry</i> , 2005, 386, 453-61. | 1.2 | 23 |
| 71 | Phosphorylation of Bovine Adrenodoxin by Protein Kinase CK2 Affects the Interaction with Its Redox Partner Cytochrome P450 _{scc} (CYP11A1). <i>Biochemistry</i> , 2005, 44, 3821-3830. | 1.2 | 24 |
| 72 | Inhibition of aldosterone biosynthesis by staurosporine. <i>Biological Chemistry</i> , 2005, 386, 663-669. | 1.2 | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Synthesis and Evaluation of Imidazolymethylenetetrahydronaphthalenes and Imidazolymethyleneindanes: A Potent Inhibitors of Aldosterone Synthase. <i>Journal of Medicinal Chemistry</i> , 2005, 48, 1796-1805. | 2.9 | 56 |
| 74 | The "Bringer" Strategy: A Very Fast and Highly Efficient Method for Construction of Mutant Libraries by Error-Prone Polymerase Chain Reaction of Ring-Closed Plasmids. <i>Applied Biochemistry and Biotechnology</i> , 2004, 117, 115-122. | 1.4 | 3 |
| 75 | The adrenodoxin-like ferredoxin of <i>Schizosaccharomyces pombe</i> mitochondria. <i>Journal of Inorganic Biochemistry</i> , 2004, 98, 1229-1237. | 1.5 | 40 |
| 76 | Development of test systems for the discovery of selective human aldosterone synthase (CYP11B2) and 11 β -hydroxylase (CYP11B1) inhibitors.. <i>Molecular and Cellular Endocrinology</i> , 2004, 217, 249-254. | 1.6 | 41 |
| 77 | The Human Steroid Hydroxylases CYP11B1 and CYP11B2. <i>Biological Chemistry</i> , 2002, 383, 1537-51. | 1.2 | 77 |
| 78 | MODULATION OF STEROID HYDROXYLASE ACTIVITY IN STABLY TRANSFECTED V79MZH11B1 AND V79MZH11B2 CELLS BY PKC AND PKD INHIBITORS. <i>Endocrine Research</i> , 2002, 28, 351-355. | 0.6 | 10 |
| 79 | Functional Expression of Human Mitochondrial CYP11B2 in Fission Yeast and Identification of a New Internal Electron Transfer Protein, <i>etp1</i> . <i>Biochemistry</i> , 2002, 41, 2311-2321. | 1.2 | 92 |
| 80 | Development of a test system for inhibitors of human aldosterone synthase (CYP11B2): screening in fission yeast and evaluation of selectivity in V79 cells. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2002, 81, 173-179. | 1.2 | 78 |
| 81 | Human p53 Restores DNA Synthesis Control in Fission Yeast. <i>Biological Chemistry</i> , 1997, 378, 1361-71. | 1.2 | 9 |
| 82 | p53 antibodies: Call for quality. , 1997, 73, 613-614. | | 6 |