

# Matthias Bureik

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

81  
papers

1,552  
citations

24  
h-index

35  
g-index

86  
ext. papers

1,746  
ext. citations

4.5  
avg, IF

4.56  
L-index

#	Paper	IF	Citations
81	Monitoring of autoantibodies against CYP4Z1 in patients with colon, ovarian, or prostate cancer.. <i>Immunobiology</i> , <b>2022</b> , 227, 152174	3.4	0
80	Human Sulfotransferase Assays With PAPS Production .. <i>Frontiers in Molecular Biosciences</i> , <b>2022</b> , 9, 827638	3.8	0
79	Metabolism of the antipsychotic drug olanzapine by CYP3A43.. <i>Xenobiotica</i> , <b>2022</b> , 1-29	2	0
78	Upregulation of estrogen receptor alpha (ER $\alpha$ ) expression in transgenic mice expressing human CYP4Z1. <i>Breast Cancer Research and Treatment</i> , <b>2021</b> , 191, 319	4.4	1
77	New Insights into the Metabolism of Methyltestosterone and Metandienone: Detection of Novel A-Ring Reduced Metabolites. <i>Molecules</i> , <b>2021</b> , 26,	4.8	6
76	Discovery of a novel potent cytochrome P450 CYP4Z1 inhibitor. <i>European Journal of Medicinal Chemistry</i> , <b>2021</b> , 215, 113255	6.8	8
75	Futile cycling by human microsomal cytochrome P450 enzymes within intact fission yeast cells. <i>Archives of Biochemistry and Biophysics</i> , <b>2021</b> , 701, 108791	4.1	
74	Conversion of five proluciferin esters by human cytochrome P450 enzymes. <i>Biotechnology Journal</i> , <b>2021</b> , 16, e2100007	5.6	1
73	Corticosteroid Biosynthesis Revisited: No Direct Hydroxylation of Pregnenolone by Steroid 21-Hydroxylase. <i>Frontiers in Endocrinology</i> , <b>2021</b> , 12, 633785	5.7	0
72	Structural insights into understudied human cytochrome P450 enzymes. <i>Drug Discovery Today</i> , <b>2021</b> , 26, 2456-2464	8.8	6
71	New Proluciferin Substrates for Human CYP4 Family Enzymes. <i>Applied Biochemistry and Biotechnology</i> , <b>2021</b> , 193, 218-237	3.2	5
70	Controlled administration of dehydrochloromethyltestosterone in humans: Urinary excretion and long-term detection of metabolites for anti-doping purpose. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , <b>2021</b> , 214, 105978	5.1	2
69	Concomitant occurrence of multiple autoantibodies against human cytochromes P450. <i>International Immunopharmacology</i> , <b>2021</b> , 100, 108087	5.8	1
68	A convenient test system for the identification of CYP4V2 inhibitors. <i>Molecular Vision</i> , <b>2021</b> , 27, 601-607	2.3	
67	New luciferin-based probe substrates for human CYP26A1. <i>Biochemistry and Biophysics Reports</i> , <b>2020</b> , 24, 100861	2.2	2
66	Screening of the whole human cytochrome P450 complement (CYPome) with enzyme bag cocktails. <i>Journal of Pharmaceutical Analysis</i> , <b>2020</b> , 10, 271-276	14	3
65	A convenient new method for reproducible fed-batch fermentation of fission yeast <i>Schizosaccharomyces pombe</i> . <i>Biotechnology Letters</i> , <b>2020</b> , 42, 937-943	3	4

64	Importance of asparagine-381 and arginine-487 for substrate recognition in CYP4Z1. <i>Biochemical Pharmacology</i> , <b>2020</b> , 174, 113850	6	12
63	Cytochrome P450 expression patterns in human osteoblasts during osteogenic differentiation with or without TNF $\alpha$ treatment. <i>Biopharmaceutics and Drug Disposition</i> , <b>2020</b> , 41, 184-191	1.7	2
62	Corticosteroid Biosynthesis Revisited: Substrate Specificity of Steroid 21-Hydroxylase. <i>FASEB Journal</i> , <b>2020</b> , 34, 1-1	0.9	
61	Identification of new probe substrates for human CYP20A1. <i>Biological Chemistry</i> , <b>2020</b> , 401, 361-365	4.5	7
60	Rapid and convenient biotransformation procedure for human drug metabolizing enzymes using permeabilized fission yeast cells. <i>Analytical Biochemistry</i> , <b>2020</b> , 607, 113704	3.1	5
59	Functional Expression of All Human Sulfotransferases in Fission Yeast, Assay Development, and Structural Models for Isoforms SULT4A1 and SULT6B1. <i>Biomolecules</i> , <b>2020</b> , 10,	5.9	4
58	Fine-mapping of the substrate specificity of human steroid 21-hydroxylase (CYP21A2). <i>Journal of Steroid Biochemistry and Molecular Biology</i> , <b>2019</b> , 194, 105446	5.1	10
57	Functional characterization and mechanistic modeling of the human cytochrome P450 enzyme CYP4A22. <i>FEBS Letters</i> , <b>2019</b> , 593, 2214-2225	3.8	13
56	Functional expression and activity screening of all human cytochrome P450 enzymes in fission yeast. <i>FEBS Letters</i> , <b>2019</b> , 593, 1372-1380	3.8	26
55	Plasma membrane localization of CYP4Z1 and CYP19A1 and the detection of anti-CYP19A1 autoantibodies in humans. <i>International Immunopharmacology</i> , <b>2019</b> , 73, 64-71	5.8	15
54	A comprehensive overview of common polymorphic variants that cause missense mutations in human CYPs and UGTs. <i>Biomedicine and Pharmacotherapy</i> , <b>2019</b> , 111, 983-992	7.5	7
53	Conversion of chenodeoxycholic acid to cholic acid by human CYP8B1. <i>Biological Chemistry</i> , <b>2019</b> , 400, 625-628	4.5	18
52	Combined chemical and biotechnological production of 20DH-NorDHCMT, a long-term metabolite of Oral-Turinabol (DHCMT). <i>Journal of Inorganic Biochemistry</i> , <b>2018</b> , 183, 165-171	4.2	18
51	A common polymorphic variant of UGT1A5 displays increased activity due to optimized cofactor binding. <i>FEBS Letters</i> , <b>2018</b> , 592, 1837-1846	3.8	7
50	Anti-CYP4Z1 autoantibodies detected in breast cancer patients. <i>Cellular and Molecular Immunology</i> , <b>2017</b> , 14, 572-574	15.4	24
49	Efficient substrate screening and inhibitor testing of human CYP4Z1 using permeabilized recombinant fission yeast. <i>Biochemical Pharmacology</i> , <b>2017</b> , 146, 174-187	6	29
48	Comparison of cytochrome P450 expression in four different human osteoblast models. <i>Biological Chemistry</i> , <b>2017</b> , 398, 1327-1334	4.5	7
47	Bystander signaling via oxidative metabolism. <i>OncoTargets and Therapy</i> , <b>2017</b> , 10, 3925-3940	4.4	23

46	CYP4Z1 - A Human Cytochrome P450 Enzyme that Might Hold the Key to Curing Breast Cancer. <i>Current Pharmaceutical Design</i> , <b>2017</b> , 23, 2060-2064	3.3	23
45	Comparative Proteome Analysis in <i>Schizosaccharomyces pombe</i> Identifies Metabolic Targets to Improve Protein Production and Secretion. <i>Molecular and Cellular Proteomics</i> , <b>2016</b> , 15, 3090-3106	7.6	5
44	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> , <b>2016</b> , 38, 477-81	3	9
43	Overcoming the metabolic burden of protein secretion in <i>Schizosaccharomyces pombe</i> --a quantitative approach using <sup>13</sup> C-based metabolic flux analysis. <i>Metabolic Engineering</i> , <b>2014</b> , 21, 34-45	9.7	35
42	Coexpression of CPR from various origins enhances biotransformation activity of human CYPs in <i>S. pombe</i> . <i>Applied Biochemistry and Biotechnology</i> , <b>2013</b> , 170, 1751-66	3.2	17
41	Production and NMR analysis of the human ibuprofen metabolite 3-hydroxyibuprofen. <i>Journal of Biotechnology</i> , <b>2012</b> , 157, 417-20	3.7	23
40	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> , <b>2012</b> , 213, 381-91	4.4	34
39	Engineering of human CYP3A enzymes by combination of activating polymorphic variants. <i>Applied Biochemistry and Biotechnology</i> , <b>2012</b> , 168, 785-96	3.2	11
38	Expression and secretion of a CB4-1 scFv-GFP fusion protein by fission yeast. <i>Applied Biochemistry and Biotechnology</i> , <b>2011</b> , 163, 80-9	3.2	16
37	Convenient gram-scale metabolite synthesis by engineered fission yeast strains expressing functional human P450 systems. <i>Applied Biochemistry and Biotechnology</i> , <b>2011</b> , 163, 965-80	3.2	52
36	Biotechnological production of 20-alpha-dihydroprogesterone at pilot scale. <i>Applied Biochemistry and Biotechnology</i> , <b>2011</b> , 165, 190-203	3.2	9
35	Whole-cell biotransformation assay for investigation of the human drug metabolizing enzyme CYP3A7. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2011</b> , 1814, 161-7	4	17
34	S-Glucuronidation of 7-mercapto-4-methylcoumarin by human UDP glycosyltransferases in genetically engineered fission yeast cells. <i>Biological Chemistry</i> , <b>2011</b> , 392, 1089-95	4.5	12
33	Production of ibuprofen acyl glucosides by human UGT2B7. <i>Drug Metabolism and Disposition</i> , <b>2011</b> , 39, 2174-81	4	26
32	Glucuronide production by whole-cell biotransformation using genetically engineered fission yeast <i>Schizosaccharomyces pombe</i> . <i>Drug Metabolism and Disposition</i> , <b>2010</b> , 38, 509-15	4	25
31	Production of human phase 1 and 2 metabolites by whole-cell biotransformation with recombinant microbes. <i>Bioanalysis</i> , <b>2010</b> , 2, 1277-90	2.1	34
30	CYP21-catalyzed production of the long-term urinary metandienone metabolite 17beta-hydroxymethyl-17 alpha-methyl-18-norandrost-1,4,13-trien-3-one: a contribution to the fight against doping. <i>Biological Chemistry</i> , <b>2010</b> , 391, 119-27	4.5	30
29	Challenges of steroid biotransformation with human cytochrome P450 monooxygenase CYP21 using resting cells of recombinant <i>Schizosaccharomyces pombe</i> . <i>Journal of Biotechnology</i> , <b>2010</b> , 146, 179-85	3.7	44

28	Human 20 $\beta$ hydroxysteroid dehydrogenase (AKR1C1)-dependent biotransformation with recombinant fission yeast <i>Schizosaccharomyces pombe</i> . <i>Journal of Biotechnology</i> , <b>2010</b> , 150, 161-70	3.7	13
27	Biotechnological synthesis of the designer drug metabolite 4 $\beta$ hydroxymethyl- $\alpha$ -pyrrolidino-hexanophenone in fission yeast heterologously expressing human cytochrome P450 2D6--a versatile alternative to multistep chemical synthesis. <i>Journal of Analytical Toxicology</i> , <b>2009</b> , 33, 196-7	2.9	25
26	Human CYP4Z1 catalyzes the in-chain hydroxylation of lauric acid and myristic acid. <i>Biological Chemistry</i> , <b>2009</b> , 390, 313-7	4.5	40
25	Biotechnological synthesis of drug metabolites using human cytochrome P450 isozymes heterologously expressed in fission yeast. <i>Bioanalysis</i> , <b>2009</b> , 1, 821-30	2.1	13
24	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> , <b>2009</b> , 184, 69-73	2.6	23
23	Coexpression of redox partners increases the hydrocortisone (cortisol) production efficiency in CYP11B1 expressing fission yeast <i>Schizosaccharomyces pombe</i> . <i>Journal of Biotechnology</i> , <b>2008</b> , 133, 351-9	3.7	39
22	Biotechnological synthesis of drug metabolites using human cytochrome P450 2D6 heterologously expressed in fission yeast exemplified for the designer drug metabolite 4 $\beta$ hydroxymethyl- $\alpha$ -pyrrolidinobutyrophenone. <i>Biochemical Pharmacology</i> , <b>2007</b> , 74, 511-20	6	42
21	ROS production by adrenodoxin does not cause apoptosis in fission yeast. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , <b>2007</b> , 12, 2135-42	5.4	12
20	A fission yeast-based test system for the determination of IC50 values of anti-prostate tumor drugs acting on CYP21. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , <b>2006</b> , 21, 547-56	5.6	18
19	Increased TCA cycle activity and reduced oxygen consumption during cytochrome P450-dependent biotransformation in fission yeast. <i>Yeast</i> , <b>2006</b> , 23, 779-94	3.4	25
18	Phosphorylation of bovine adrenodoxin by protein kinase CK2 affects the interaction with its redox partner cytochrome P450 <sub>scc</sub> (CYP11A1). <i>Biochemistry</i> , <b>2005</b> , 44, 3821-30	3.2	21
17	Inhibition of aldosterone biosynthesis by staurosporine. <i>Biological Chemistry</i> , <b>2005</b> , 386, 663-9	4.5	2
16	Synthesis and evaluation of imidazolylmethylenetetrahydronaphthalenes and imidazolylmethylenelindanes: potent inhibitors of aldosterone synthase. <i>Journal of Medicinal Chemistry</i> , <b>2005</b> , 48, 1796-805	8.3	54
15	Efficient conversion of 11-deoxycortisol to cortisol (hydrocortisone) by recombinant fission yeast <i>Schizosaccharomyces pombe</i> . <i>FEMS Yeast Research</i> , <b>2005</b> , 5, 621-5	3.1	52
14	A fluorimetric assay for cortisol. <i>Analytical and Bioanalytical Chemistry</i> , <b>2005</b> , 383, 182-6	4.4	41
13	The human mineralocorticoid receptor only partially differentiates between different ligands after expression in fission yeast. <i>FEMS Yeast Research</i> , <b>2005</b> , 5, 627-33	3.1	12
12	Vitamin D(3) metabolism in human glioblastoma multiforme: functionality of CYP27B1 splice variants, metabolism of calcidiol, and effect of calcitriol. <i>Clinical Cancer Research</i> , <b>2005</b> , 11, 5370-80	12.9	59
11	Adrenodoxin (Adx) and CYP11A1 (P450 <sub>scc</sub> ) induce apoptosis by the generation of reactive oxygen species in mitochondria. <i>Biological Chemistry</i> , <b>2005</b> , 386, 453-61	4.5	19

10	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> , <b>2004</b> , 117, 115-22	3.2	3
9	The adrenodoxin-like ferredoxin of <i>Schizosaccharomyces pombe</i> mitochondria. <i>Journal of Inorganic Biochemistry</i> , <b>2004</b> , 98, 1229-37	4.2	37
8	Development of test systems for the discovery of selective human aldosterone synthase (CYP11B2) and 11beta-hydroxylase (CYP11B1) inhibitors. Discovery of a new lead compound for the therapy of congestive heart failure, myocardial fibrosis and hypertension. <i>Molecular and Cellular Endocrinology</i> , <b>2004</b> , 217, 249-54	4.4	38
7	The human steroid hydroxylases CYP1B1 and CYP11B2. <i>Biological Chemistry</i> , <b>2002</b> , 383, 1537-51	4.5	69
6	Modulation of steroid hydroxylase activity in stably transfected V79MZh11B1 and V79MZh11B2 cells by PKC and PKD inhibitors. <i>Endocrine Research</i> , <b>2002</b> , 28, 351-5	1.9	9
5	Functional expression of human mitochondrial CYP11B2 in fission yeast and identification of a new internal electron transfer protein, etp1. <i>Biochemistry</i> , <b>2002</b> , 41, 2311-21	3.2	87
4	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> , <b>2002</b> , 81, 173-9	5.1	75
3	Human p53 restores DNA synthesis control in fission yeast. <i>Biological Chemistry</i> , <b>1997</b> , 378, 1361-71	4.5	8
2	p53 antibodies: call for quality. <i>International Journal of Cancer</i> , <b>1997</b> , 73, 613-4	7.5	5
1	Steroid Hydroxylation: Microbial Steroid Biotransformations Using Cytochrome P450 Enzymes 155-176		23