Andrew D Patterson

List of Publications by Year in Descending Order

162 papers	8,942 citations	53 h-index	91 g-index
187 ext. papers	11,395 ext. citations	9.1 avg, IF	6.26 L-index

#	Paper	IF	Citations
162	Defective humoral immunity disrupts bile acid homeostasis which promotes inflammatory disease of the small bowel.. *Nature Communications*, **2022**, 13, 525	17.4	3
161	Metabolomic profiling of stool of two-year old children from the INSIGHT study reveals links between butyrate and child weight outcomes. *Pediatric Obesity*, **2022**, 17, e12833	4.6	1
160	Sample Preparation and Data Analysis for NMR-Based Metabolomics. *Methods in Molecular Biology*, **2021**, 2194, 301-313	1.4	3
159	Randomized controlled-feeding study of dietary emulsifier carboxymethylcellulose reveals detrimental impacts on the gut microbiota and metabolome. *Gastroenterology*, **2021**,	13.3	15
158	The role of mouse and human peroxisome proliferator-activated receptor-α in modulating the hepatic effects of perfluorooctane sulfonate in mice. *Toxicology*, **2021**, 465, 153056	4.4	2
157	The East Asian gut microbiome is distinct from colocalized White subjects and connected to metabolic health. *ELife*, **2021**, 10,	8.9	6
156	Quantitative Analysis of Bile Acid with UHPLC-MS/MS. *Methods in Molecular Biology*, **2021**, 2194, 291-300	1.4	1
155	Reconstitution of the host holobiont in germ-free born male rats acutely increases bone growth and affects marrow cellular content. *Physiological Genomics*, **2021**, 53, 518-533	3.6	
154	Exercise Training Reverses Gut Dysbiosis in Patients With Biopsy-Proven Nonalcoholic Steatohepatitis: A Proof of Concept Study. *Clinical Gastroenterology and Hepatology*, **2021**, 19, 1723-1725	6.9	3
153	Caloric restriction disrupts the microbiota and colonization resistance. *Nature*, **2021**, 595, 272-277	50.4	32
152	Current Challenges and Recent Developments in Mass Spectrometry-Based Metabolomics. *Annual Review of Analytical Chemistry*, **2021**, 14, 467-487	12.5	5
151	The aryl hydrocarbon receptor activates ceramide biosynthesis in mice contributing to hepatic lipogenesis. *Toxicology*, **2021**, 458, 152831	4.4	1
150	Roux-en-Y Gastric Bypass Surgery Has Early Differential Effects on Bile Acids and the Levels of Complement Component 3 and Acylation-Stimulating Protein. *Obesity Surgery*, **2021**, 31, 773-780	3.7	0
149	The Pretreatment Gut Microbiome Is Associated With Lack of Response to Methotrexate in New-Onset Rheumatoid Arthritis. *Arthritis and Rheumatology*, **2021**, 73, 931-942	9.5	28
148	Selenium-dependent metabolic reprogramming during inflammation and resolution. *Journal of Biological Chemistry*, **2021**, 296, 100410	5.4	1
147	Secondary bile acid ursodeoxycholic acid alters weight, the gut microbiota, and the bile acid pool in conventional mice. *PLoS ONE*, **2021**, 16, e0246161	3.7	2
146	Impaired Intestinal Akkermansia muciniphila and Aryl Hydrocarbon Receptor Ligands Contribute to Nonalcoholic Fatty Liver Disease in Mice. *MSystems*, **2021**, 6,	7.6	5

145	Metabolic impact of persistent organic pollutants on gut microbiota. *Gut Microbes*, **2020**, 12, 1-16	8.8	6
144	The microbiome modulating activity of bile acids. *Gut Microbes*, **2020**, 11, 979-996	8.8	49
143	Vancomycin prevents fermentable fiber-induced liver cancer in mice with dysbiotic gut microbiota. *Gut Microbes*, **2020**, 11, 1077-1091	8.8	14
142	Lipocalin 2 deficiency-induced gut microbiota dysbiosis evokes metabolic syndrome in aged mice. *Physiological Genomics*, **2020**, 52, 314-321	3.6	4
141	Perfluorooctane sulfonate alters gut microbiota-host metabolic homeostasis in mice. *Toxicology*, **2020**, 431, 152365	4.4	20
140	Ursodeoxycholic Acid (UDCA) Mitigates the Host Inflammatory Response during Clostridioides difficile Infection by Altering Gut Bile Acids. *Infection and Immunity*, **2020**, 88,	3.7	17
139	Bacterial colonization reprograms the neonatal gut metabolome. *Nature Microbiology*, **2020**, 5, 838-847	26.6	37
138	Ketogenic Diets Alter the Gut Microbiome Resulting in Decreased Intestinal Th17 Cells. *Cell*, **2020**, 181, 1263-1275.e16	56.2	126
137	A thermogenic fat-epithelium cell axis regulates intestinal disease tolerance. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 32029-32037	11.5	2
136	Microbial Metabolite Signaling Is Required for Systemic Iron Homeostasis. *Cell Metabolism*, **2020**, 31, 115-130.e6	24.6	64
135	The gut microbiome: an orchestrator of xenobiotic metabolism. *Acta Pharmaceutica Sinica B*, **2020**, 10, 19-32	15.5	69
134	How gut microbiome interactions affect nutritional traits of. *Journal of Experimental Biology*, **2020**, 223,	3	5
133	Impact of Facultative Bacteria on the Metabolic Function of an Obligate Insect-Bacterial Symbiosis. *MBio*, **2020**, 11,	7.8	3
132	MDM2-Dependent Rewiring of Metabolomic and Lipidomic Profiles in Dedifferentiated Liposarcoma Models. *Cancers*, **2020**, 12,	6.6	1
131	Intestinal microbiota-derived tryptophan metabolites are predictive of Ah receptor activity. *Gut Microbes*, **2020**, 12, 1-24	8.8	35
130	Metabolic Profiling Reveals Aggravated Non-Alcoholic Steatohepatitis in High-Fat High-Cholesterol Diet-Fed Apolipoprotein E-Deficient Mice Lacking Ron Receptor Signaling. *Metabolites*, **2020**, 10,	5.6	2
129	Nonalcoholic steatohepatitis Fitness Intervention in Thrombosis (NASHFit): Study protocol for a randomized controlled trial of a supervised aerobic exercise program to reduce elevated clotting risk in patients with NASH. *Contemporary Clinical Trials Communications*, **2020**, 18, 100560	1.8	8
128	The Human Transient Receptor Potential Melastatin 2 Ion Channel Modulates ROS Through Nrf2. *Scientific Reports*, **2019**, 9, 14132	4.9	9

127	Microbiota fermentation-NLRP3 axis shapes the impact of dietary fibres on intestinal inflammation. *Gut*, **2019**, 68, 1801-1812	19.2	79
126	A review of analytical platforms for accurate bile acid measurement. *Analytical and Bioanalytical Chemistry*, **2019**, 411, 4541-4549	4.4	17
125	A Quantitative HILIC-MS/MS Assay of the Metabolic Response of Huh-7 Cells Exposed to 2,3,7,8-Tetrachlorodibenzo--Dioxin. *Metabolites*, **2019**, 9,	5.6	5
124	Interplay Between the Host, the Human Microbiome, and Drug Metabolism. *Human Genomics*, **2019**, 13, 27	6.8	35
123	Nutrient Sensing in CD11c Cells Alters the Gut Microbiota to Regulate Food Intake and Body Mass. *Cell Metabolism*, **2019**, 30, 364-373.e7	24.6	17
122	Evaluating the structural complexity of isomeric bile acids with ion mobility spectrometry. *Analytical and Bioanalytical Chemistry*, **2019**, 411, 4673-4682	4.4	8
121	Gender Differences in Phytoestrogens and the Relationship with Speed of Processing in Older Adults: A Cross-Sectional Analysis of NHANES, 1999-2002. *Nutrients*, **2019**, 11,	6.7	5
120	Vitamin D Regulates the Microbiota to Control the Numbers of RORE/FoxP3+ Regulatory T Cells in the Colon. *Frontiers in Immunology*, **2019**, 10, 1772	8.4	24
119	Gut microbiota-bile acid-interleukin-22 axis orchestrates polycystic ovary syndrome. *Nature Medicine*, **2019**, 25, 1225-1233	50.5	164
118	Isolation and Identification of Aryl Hydrocarbon Receptor Modulators in White Button Mushrooms (). *Journal of Agricultural and Food Chemistry*, **2019**, 67, 9286-9294	5.7	3
117	Unraveling the role of peroxisome proliferator-activated receptor-(PPAR)expression in colon carcinogenesis. *Npj Precision Oncology*, **2019**, 3, 26	9.8	5
116	Metatranscriptomic Analysis of the Mouse Gut Microbiome Response to the Persistent Organic Pollutant 2,3,7,8-Tetrachlorodibenzofuran. *Metabolites*, **2019**, 10,	5.6	18
115	Microbiota Metabolism Promotes Synthesis of the Human Ah Receptor Agonist 2,8-Dihydroxyquinoline. *Journal of Proteome Research*, **2019**, 18, 1715-1724	5.6	13
114	OP0119 THE PRE-TREATMENT GUT MICROBIOME PREDICTS EARLY RESPONSE TO RHEUMATOID ARTHRITIS THERAPY **2019**,		2
113	Gdf15 regulates murine stress erythroid progenitor proliferation and the development of the stress erythropoiesis niche. *Blood Advances*, **2019**, 3, 2205-2217	7.8	19
112	Berberine Directly Affects the Gut Microbiota to Promote Intestinal Farnesoid X Receptor Activation. *Drug Metabolism and Disposition*, **2019**, 47, 86-93	4	50
111	Metabolomic Approaches Reveal the Role of CAR in Energy Metabolism. *Journal of Proteome Research*, **2019**, 18, 239-251	5.6	5
110	Retinoic Acid Mediated Clearance of in Vitamin A Deficient Mice Requires CD11b+ and T Cells. *Frontiers in Immunology*, **2018**, 9, 3090	8.4	7

109	Metabolomics Reveals Aryl Hydrocarbon Receptor Activation Induces Liver and Mammary Gland Metabolic Dysfunction in Lactating Mice. *Journal of Proteome Research*, **2018**, 17, 1375-1382	5.6	5
108	Intestine farnesoid X receptor agonist and the gut microbiota activate G-protein bile acid receptor-1 signaling to improve metabolism. *Hepatology*, **2018**, 68, 1574-1588	11.2	206
107	Regulation of vitamin D metabolism following disruption of the microbiota using broad spectrum antibiotics. *Journal of Nutritional Biochemistry*, **2018**, 56, 65-73	6.3	8
106	Lipid metabolism and lipophagy in cancer. *Biochemical and Biophysical Research Communications*, **2018**, 504, 582-589	3.4	89
105	Molecular Regulation of Carcinogenesis: Friend and Foe. *Toxicological Sciences*, **2018**, 165, 277-283	4.4	18
104	The Gut Microbiota Regulates Endocrine Vitamin D Metabolism through Fibroblast Growth Factor 23. *Frontiers in Immunology*, **2018**, 9, 408	8.4	40
103	Neuroprotective Role of the Ron Receptor Tyrosine Kinase Underlying Central Nervous System Inflammation in Health and Disease. *Frontiers in Immunology*, **2018**, 9, 513	8.4	8
102	Ron Receptor Signaling Ameliorates Hepatic Fibrosis in a Diet-Induced Nonalcoholic Steatohepatitis Mouse Model. *Journal of Proteome Research*, **2018**, 17, 3268-3280	5.6	5
101	Vitamin A deficiency in mice alters host and gut microbial metabolism leading to altered energy homeostasis. *Journal of Nutritional Biochemistry*, **2018**, 54, 28-34	6.3	39
100	Multiplatform Physiologic and Metabolic Phenotyping Reveals Microbial Toxicity. *MSystems*, **2018**, 3,	7.6	4
99	Gut microbiota and intestinal FXR mediate the clinical benefits of metformin. *Nature Medicine*, **2018**, 24, 1919-1929	50.5	335
98	Attenuation of Microbiotal Dysbiosis and Hypertension in a CRISPR/Cas9 Gene Ablation Rat Model of GPER1. *Hypertension*, **2018**, 72, 1125-1132	8.5	30
97	Dysregulated Microbial Fermentation of Soluble Fiber Induces Cholestatic Liver Cancer. *Cell*, **2018**, 175, 679-694.e22	56.2	205
96	Structural and Functional Analysis of the Gut Microbiome for Toxicologists. *Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al]*, **2018**, 78, e54	1	4
95	Prebiotic effects of white button mushroom (Agaricus bisporus) feeding on succinate and intestinal gluconeogenesis in C57BL/6 mice. *Journal of Functional Foods*, **2018**, 45, 223-232	5.1	16
94	Adding value to first-year undergraduate marketing education: team-based learning as a strategic response to changing modern educational environments. *Journal of Strategic Marketing*, **2017**, 25, 138-151	2.7	6
93	Intestinal Farnesoid X Receptor Signaling Modulates Metabolic Disease. *Digestive Diseases*, **2017**, 35, 178-184	3.2	46
92	The aryl hydrocarbon receptor as a moderator of host-microbiota communication. *Current Opinion in Toxicology*, **2017**, 2, 30-35	4.4	22

91	Lipid Emulsion Added to a Liquid High-Carbohydrate Diet and Voluntary Running Exercise Reduce Lipogenesis and Ameliorate Early-Stage Hepatic Steatosis in Mice. *Journal of Nutrition*, **2017**, 147, 746-753	4.1	4
90	Modulation of urinary siderophores by the diet, gut microbiota and inflammation in mice. *Journal of Nutritional Biochemistry*, **2017**, 41, 25-33	6.3	9
89	Activation of intestinal hypoxia-inducible factor 2 during obesity contributes to hepatic steatosis. *Nature Medicine*, **2017**, 23, 1298-1308	50.5	70
88	Identification of a mouse Lactobacillus johnsonii strain with deconjugase activity against the FXR antagonist T- MCA. *PLoS ONE*, **2017**, 12, e0183564	3.7	15
87	Intermittent Fasting Promotes White Adipose Browning and Decreases Obesity by Shaping the Gut Microbiota. *Cell Metabolism*, **2017**, 26, 672-685.e4	24.6	228
86	Dietary Broccoli Impacts Microbial Community Structure and Attenuates Chemically Induced Colitis in Mice in an Ah receptor dependent manner. *Journal of Functional Foods*, **2017**, 37, 685-698	5.1	38
85	Orthogonal Comparison of GC-MS and H NMR Spectroscopy for Short Chain Fatty Acid Quantitation. *Analytical Chemistry*, **2017**, 89, 7900-7906	7.8	34
84	An Intestinal Farnesoid X Receptor-Ceramide Signaling Axis Modulates Hepatic Gluconeogenesis in Mice. *Diabetes*, **2017**, 66, 613-626	0.9	108
83	An Intestinal Microbiota-Farnesoid X Receptor Axis Modulates Metabolic Disease. *Gastroenterology*, **2016**, 151, 845-859	13.3	159
82	Editor's Highlight: Perfluorooctane Sulfonate-Choline Ion Pair Formation: A Potential Mechanism Modulating Hepatic Steatosis and Oxidative Stress in Mice. *Toxicological Sciences*, **2016**, 153, 186-97	4.4	20
81	NMR-Based Metabolomics and Its Application in Drug Metabolism and Cancer Research. *Current Pharmacology Reports*, **2016**, 2, 231-240	5.5	12
80	Expression of the aryl hydrocarbon receptor contributes to the establishment of intestinal microbial community structure in mice. *Scientific Reports*, **2016**, 6, 33969	4.9	40
79	Omics Approaches To Probe Microbiota and Drug Metabolism Interactions. *Chemical Research in Toxicology*, **2016**, 29, 1987-1997	4	6
78	Farnesoid X Receptor Signaling Shapes the Gut Microbiota and Controls Hepatic Lipid Metabolism. *MSystems*, **2016**, 1,	7.6	67
77	Impaired recovery from peritoneal inflammation in a mouse model of mild dietary zinc restriction. *Molecular Nutrition and Food Research*, **2016**, 60, 672-81	5.9	7
76	The Ron Receptor Tyrosine Kinase Regulates Macrophage Heterogeneity and Plays a Protective Role in Diet-Induced Obesity, Atherosclerosis, and Hepatosteatosis. *Journal of Immunology*, **2016**, 197, 256-65	5.3	12
75	Metabolomics Reveals Altered Lipid Metabolism in a Mouse Model of Endometriosis. *Journal of Proteome Research*, **2016**, 15, 2626-33	5.6	23
74	Mass Spectrometry-Based Metabolomics Identifies Longitudinal Urinary Metabolite Profiles Predictive of Radiation-Induced Cancer. *Cancer Research*, **2016**, 76, 1569-77	10.1	13

73	Reversing methanogenesis to capture methane for liquid biofuel precursors. *Microbial Cell Factories*, **2016**, 15, 11	6.4	91
72	Antioxidant Drug Tempol Promotes Functional Metabolic Changes in the Gut Microbiota. *Journal of Proteome Research*, **2016**, 15, 563-71	5.6	16
71	Modulation of colon cancer by nutmeg. *Journal of Proteome Research*, **2015**, 14, 1937-46	5.6	29
70	Kernel approaches for differential expression analysis of mass spectrometry-based metabolomics data. *BMC Bioinformatics*, **2015**, 16, 77	3.6	25
69	Role of fibroblast growth factor 21 in the early stage of NASH induced by methionine- and choline-deficient diet. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2015**, 1852, 1242-52	6.9	75
68	Microbiota-Dependent Hepatic Lipogenesis Mediated by Stearoyl CoA Desaturase 1 (SCD1) Promotes Metabolic Syndrome in TLR5-Deficient Mice. *Cell Metabolism*, **2015**, 22, 983-96	24.6	102
67	Lack of soluble fiber drives diet-induced adiposity in mice. *American Journal of Physiology - Renal Physiology*, **2015**, 309, G528-41	5.1	96
66	Adaptation of the human aryl hydrocarbon receptor to sense microbiota-derived indoles. *Scientific Reports*, **2015**, 5, 12689	4.9	183
65	Persistent Organic Pollutants Modify Gut Microbiota-Host Metabolic Homeostasis in Mice Through Aryl Hydrocarbon Receptor Activation. *Environmental Health Perspectives*, **2015**, 123, 679-88	8.4	199
64	Metabolomics Reveals that Aryl Hydrocarbon Receptor Activation by Environmental Chemicals Induces Systemic Metabolic Dysfunction in Mice. *Environmental Science & Technology*, **2015**, 49, 8067-77	193	64
63	Intestine-selective farnesoid X receptor inhibition improves obesity-related metabolic dysfunction. *Nature Communications*, **2015**, 6, 10166	17.4	304
62	Quantitative analysis of purine nucleotides indicates that purinosomes increase de novo purine biosynthesis. *Journal of Biological Chemistry*, **2015**, 290, 6705-13	5.4	66
61	Intestinal farnesoid X receptor signaling promotes nonalcoholic fatty liver disease. *Journal of Clinical Investigation*, **2015**, 125, 386-402	15.9	385
60	Microbial determinants of biochemical individuality and their impact on toxicology and pharmacology. *Cell Metabolism*, **2014**, 20, 761-768	24.6	43
59	Species-specific ant brain manipulation by a specialized fungal parasite. *BMC Evolutionary Biology*, **2014**, 14, 166	3	74
58	Crucial role of macrophage selenoproteins in experimental colitis. *Journal of Immunology*, **2014**, 193, 3683-92	5.3	58
57	Metabolomics **2014**, 106-118		
56	Noninvasive urinary metabolomic profiling identifies diagnostic and prognostic markers in lung cancer. *Cancer Research*, **2014**, 74, 3259-70	10.1	97

55	Aryl hydrocarbon receptor ligands in cancer: friend and foe. *Nature Reviews Cancer*, **2014**, 14, 801-14	31.3	455
54	Microbiome remodelling leads to inhibition of intestinal farnesoid X receptor signalling and decreased obesity. *Nature Communications*, **2013**, 4, 2384	17.4	413
53	Stable isotope- and mass spectrometry-based metabolomics as tools in drug metabolism: a study expanding tempol pharmacology. *Journal of Proteome Research*, **2013**, 12, 1369-76	5.6	28
52	Disruption of thioredoxin reductase 1 protects mice from acute acetaminophen-induced hepatotoxicity through enhanced NRF2 activity. *Chemical Research in Toxicology*, **2013**, 26, 1088-96	4	46
51	Metabolomics reveals that tumor xenografts induce liver dysfunction. *Molecular and Cellular Proteomics*, **2013**, 12, 2126-35	7.6	15
50	Biochemistry and physiology of the □lass carbonic anhydrase (Cpb) from Clostridium perfringens strain 13. *Journal of Bacteriology*, **2013**, 195, 2262-9	3.5	14
49	White button mushrooms increase microbial diversity and accelerate the resolution of Citrobacter rodentium infection in mice. *Journal of Nutrition*, **2013**, 143, 526-32	4.1	21
48	Metabolomics: an essential tool to understand the function of peroxisome proliferator-activated receptor alpha. *Toxicologic Pathology*, **2013**, 41, 410-8	2.1	11
47	Identification of serum insulin-like growth factor binding protein 1 as diagnostic biomarker for early-stage alcohol-induced liver disease. *Journal of Translational Medicine*, **2013**, 11, 266	8.5	18
46	Metabolomics reveals the heterogeneous secretome of two entomopathogenic fungi to ex vivo cultured insect tissues. *PLoS ONE*, **2013**, 8, e70609	3.7	31
45	Metabolomics reveals the metabolic map of procainamide in humans and mice. *Biochemical Pharmacology*, **2012**, 83, 1435-44	6	31
44	Radiation metabolomics. 5. Identification of urinary biomarkers of ionizing radiation exposure in nonhuman primates by mass spectrometry-based metabolomics. *Radiation Research*, **2012**, 178, 328-40	3.1	76
43	Metabolomics identifies an inflammatory cascade involved in dioxin- and diet-induced steatohepatitis. *Cell Metabolism*, **2012**, 16, 634-44	24.6	67
42	Aryl hydrocarbon receptor regulates the cholesterol biosynthetic pathway in a dioxin response element-independent manner. *Hepatology*, **2012**, 55, 1994-2004	11.2	64
41	Disruption of phospholipid and bile acid homeostasis in mice with nonalcoholic steatohepatitis. *Hepatology*, **2012**, 56, 118-29	11.2	174
40	Peroxisome proliferator-activated receptor alpha induction of uncoupling protein 2 protects against acetaminophen-induced liver toxicity. *Hepatology*, **2012**, 56, 281-90	11.2	81
39	Xenobiotic metabolomics: major impact on the metabolome. *Annual Review of Pharmacology and Toxicology*, **2012**, 52, 37-56	17.9	160
38	Network analysis of a Pkd1-mouse model of autosomal dominant polycystic kidney disease identifies HNF4□s a disease modifier. *PLoS Genetics*, **2012**, 8, e1003053	6	60

37	Role of the Ah receptor in homeostatic control of fatty acid synthesis in the liver. *Toxicological Sciences*, **2012**, 129, 372-9	4.4	56
36	Metabolomics reveals an essential role for peroxisome proliferator-activated receptor In bile acid homeostasis. *Journal of Lipid Research*, **2012**, 53, 1625-35	6.3	47
35	Novel metabolites and roles for Tocopherol in humans and mice discovered by mass spectrometry-based metabolomics. *American Journal of Clinical Nutrition*, **2012**, 96, 818-30	7	44
34	Abcb11 deficiency induces cholestasis coupled to impaired Fatty acid oxidation in mice. *Journal of Biological Chemistry*, **2012**, 287, 24784-94	5.4	46
33	Aberrant lipid metabolism in hepatocellular carcinoma revealed by plasma metabolomics and lipid profiling. *Cancer Research*, **2011**, 71, 6590-600	10.1	204
32	A comprehensive understanding of thioTEPA metabolism in the mouse using UPLC-ESI-QTOFMS-based metabolomics. *Biochemical Pharmacology*, **2011**, 81, 1043-53	6	27
31	Lithocholic acid disrupts phospholipid and sphingolipid homeostasis leading to cholestasis in mice. *Hepatology*, **2011**, 53, 1282-93	11.2	58
30	Radiation metabolomics. 4. UPLC-ESI-QTOFMS-Based metabolomics for urinary biomarker discovery in gamma-irradiated rats. *Radiation Research*, **2011**, 175, 473-84	3.1	83
29	PPAR action in insulin resistance unraveled by metabolomics: potential clinical implications. *Genome Medicine*, **2011**, 3, 54	14.4	1
28	UPLC-MS-based urine metabolomics reveals indole-3-lactic acid and phenyllactic acid as conserved biomarkers for alcohol-induced liver disease in the Ppara-null mouse model. *Journal of Proteome Research*, **2011**, 10, 4120-33	5.6	59
27	Metabolomics reveals attenuation of the SLC6A20 kidney transporter in nonhuman primate and mouse models of type 2 diabetes mellitus. *Journal of Biological Chemistry*, **2011**, 286, 19511-22	5.4	59
26	A Cyp2a polymorphism predicts susceptibility to NNK-induced lung tumorigenesis in mice. *Carcinogenesis*, **2011**, 32, 1279-84	4.6	16
25	Metabolomics identifies novel Hnf1alpha-dependent physiological pathways in vivo. *Molecular Endocrinology*, **2010**, 24, 2343-55		18
24	Identification of noninvasive biomarkers for alcohol-induced liver disease using urinary metabolomics and the Ppara-null mouse. *Journal of Proteome Research*, **2010**, 9, 4176-88	5.6	53
23	Delineating the role of glutathione peroxidase 4 in protecting cells against lipid hydroperoxide damage and in Alzheimer's disease. *Antioxidants and Redox Signaling*, **2010**, 12, 819-27	8.4	86
22	The role of mass spectrometry-based metabolomics in medical countermeasures against radiation. *Mass Spectrometry Reviews*, **2010**, 29, 503-21	11	37
21	Xenobiotic metabolism: a view through the metabolometer. *Chemical Research in Toxicology*, **2010**, 23, 851-60	4	56
20	Comparative metabolism of cyclophosphamide and ifosfamide in the mouse using UPLC-ESI-QTOFMS-based metabolomics. *Biochemical Pharmacology*, **2010**, 80, 1063-74	6	45

19	Detection of Radiation-Exposure Biomarkers by Differential Mobility Prefiltered Mass Spectrometry (DMS-MS). *International Journal of Mass Spectrometry*, **2010**, 291, 108-117	1.9	45
18	Fenofibrate metabolism in the cynomolgus monkey using ultraperformance liquid chromatography-quadrupole time-of-flight mass spectrometry-based metabolomics. *Drug Metabolism and Disposition*, **2009**, 37, 1157-63	4	22
17	Radiation metabolomics. 3. Biomarker discovery in the urine of gamma-irradiated rats using a simplified metabolomics protocol of gas chromatography-mass spectrometry combined with random forests machine learning algorithm. *Radiation Research*, **2009**, 172, 198-212	3.1	85
16	Radiation metabolomics. 2. Dose- and time-dependent urinary excretion of deaminated purines and pyrimidines after sublethal gamma-radiation exposure in mice. *Radiation Research*, **2009**, 172, 42-57	3.1	95
15	Human urinary metabolomic profile of PPARalpha induced fatty acid beta-oxidation. *Journal of Proteome Research*, **2009**, 8, 4293-300	5.6	48
14	UPLC-ESI-TOFMS-based metabolomics and gene expression dynamics inspector self-organizing metabolomic maps as tools for understanding the cellular response to ionizing radiation. *Analytical Chemistry*, **2008**, 80, 665-74	7.8	131
13	Radiation metabolomics. 1. Identification of minimally invasive urine biomarkers for gamma-radiation exposure in mice. *Radiation Research*, **2008**, 170, 1-14	3.1	141
12	Targeting thioredoxin reductase 1 reduction in cancer cells inhibits self-sufficient growth and DNA replication. *PLoS ONE*, **2007**, 2, e1112	3.7	98
11	The nuclear export signal of splicing factor Uap56p interacts with nuclear pore-associated protein Rae1p for mRNA export in Schizosaccharomyces pombe. *Journal of Biological Chemistry*, **2007**, 282, 17507-16	5.4	9
10	Neural tube development requires the cooperation of p53- and Gadd45a-associated pathways. *Birth Defects Research Part A: Clinical and Molecular Teratology*, **2006**, 76, 129-32		10
9	Gadd34 requirement for normal hemoglobin synthesis. *Molecular and Cellular Biology*, **2006**, 26, 1644-53	4.8	27
8	Genomic instability in Gadd45a-/- cells is coupled with S-phase checkpoint defects. *Cell Cycle*, **2005**, 4, 704-9	4.7	15
7	Gadd45a acts as a modifier locus for lymphoblastic lymphoma. *Leukemia*, **2005**, 19, 847-50	10.7	4
6	Deletion of XPC leads to lung tumors in mice and is associated with early events in human lung carcinogenesis. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 13200-5	11.5	118
5	Intra- and intermolecular domain interactions of the C-terminal GTPase effector domain of the multimeric dynamin-like GTPase Drp1. *Journal of Biological Chemistry*, **2004**, 279, 35967-74	5.4	144
4	Cellular localization, oligomerization, and membrane association of the hereditary spastic paraplegia 3A (SPG3A) protein atlastin. *Journal of Biological Chemistry*, **2003**, 278, 49063-71	5.4	117
3	A nucleotide excision repair master-switch: p53 regulated coordinate induction of global genomic repair genes. *Cancer Biology and Therapy*, **2002**, 1, 145-9	4.6	74
2	Secondary bile acid ursodeoxycholic acid (UDCA) alters weight, the gut microbiota, and the bile acid pool in conventional mice		1

List of Publications

1 A Metabolomic Perspective of Small Molecule Toxicity 2