

Jerzy Adamski

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2040194/publications.pdf>

Version: 2024-02-01

468
papers

28,218
citations

5267

83
h-index

9102

144
g-index

487
all docs

487
docs citations

487
times ranked

36013
citing authors

#	ARTICLE	IF	CITATIONS
1	Human metabolic individuality in biomedical and pharmaceutical research. <i>Nature</i> , 2011, 477, 54-60.	27.8	916
2	Identification of Serum Metabolites Associated With Risk of Type 2 Diabetes Using a Targeted Metabolomic Approach. <i>Diabetes</i> , 2013, 62, 639-648.	0.6	820
3	Tobacco Smoking Leads to Extensive Genome-Wide Changes in DNA Methylation. <i>PLoS ONE</i> , 2013, 8, e63812.	2.5	694
4	Genetics Meets Metabolomics: A Genome-Wide Association Study of Metabolite Profiles in Human Serum. <i>PLoS Genetics</i> , 2008, 4, e1000282.	3.5	660
5	A genome-wide perspective of genetic variation in human metabolism. <i>Nature Genetics</i> , 2010, 42, 137-141.	21.4	618
6	Novel biomarkers for pre-diabetes identified by metabolomics. <i>Molecular Systems Biology</i> , 2012, 8, 615.	7.2	605
7	Meta-Analysis of 28,141 Individuals Identifies Common Variants within Five New Loci That Influence Uric Acid Concentrations. <i>PLoS Genetics</i> , 2009, 5, e1000504.	3.5	572
8	Metabolite Profiling and Cardiovascular Event Risk. <i>Circulation</i> , 2015, 131, 774-785.	1.6	547
9	Metabolic Footprint of Diabetes: A Multiplatform Metabolomics Study in an Epidemiological Setting. <i>PLoS ONE</i> , 2010, 5, e13953.	2.5	501
10	Genetic diagnosis of Mendelian disorders via RNA sequencing. <i>Nature Communications</i> , 2017, 8, 15824.	12.8	432
11	Differences between Human Plasma and Serum Metabolite Profiles. <i>PLoS ONE</i> , 2011, 6, e21230.	2.5	350
12	Rapamycin extends murine lifespan but has limited effects on aging. <i>Journal of Clinical Investigation</i> , 2013, 123, 3272-3291.	8.2	333
13	The SDR (short-chain dehydrogenase/reductase and related enzymes) nomenclature initiative. <i>Chemico-Biological Interactions</i> , 2009, 178, 94-98.	4.0	329
14	Discovery of Sexual Dimorphisms in Metabolic and Genetic Biomarkers. <i>PLoS Genetics</i> , 2011, 7, e1002215.	3.5	328
15	The role of 17 beta-hydroxysteroid dehydrogenases. <i>Molecular and Cellular Endocrinology</i> , 2004, 218, 7-20.	3.2	308
16	Early Metabolic Markers of the Development of Dysglycemia and Type 2 Diabetes and Their Physiological Significance. <i>Diabetes</i> , 2013, 62, 1730-1737.	0.6	307
17	17beta-hydroxysteroid dehydrogenase (HSD)/17-ketosteroid reductase (KSR) family; nomenclature and main characteristics of the 17HSD/KSR enzymes. <i>Journal of Molecular Endocrinology</i> , 1999, 23, 1-11.	2.5	284
18	Human serum metabolic profiles are age dependent. <i>Aging Cell</i> , 2012, 11, 960-967.	6.7	271

#	ARTICLE	IF	CITATIONS
19	The dynamic range of the human metabolome revealed by challenges. <i>FASEB Journal</i> , 2012, 26, 2607-2619.	0.5	268
20	Deletion of Deoxyribonucleic Acid Binding Domain of the Vitamin D Receptor Abrogates Genomic and Nongenomic Functions of Vitamin D. <i>Molecular Endocrinology</i> , 2002, 16, 1524-1537.	3.7	267
21	Gaussian graphical modeling reconstructs pathway reactions from high-throughput metabolomics data. <i>BMC Systems Biology</i> , 2011, 5, 21.	3.0	262
22	Atlas of Circadian Metabolism Reveals System-wide Coordination and Communication between Clocks. <i>Cell</i> , 2018, 174, 1571-1585.e11.	28.9	258
23	Metabolomics for clinical use and research in chronic kidney disease. <i>Nature Reviews Nephrology</i> , 2017, 13, 269-284.	9.6	248
24	Procedure for tissue sample preparation and metabolite extraction for high-throughput targeted metabolomics. <i>Metabolomics</i> , 2012, 8, 133-142.	3.0	245
25	A reference map of potential determinants for the human serum metabolome. <i>Nature</i> , 2020, 588, 135-140.	27.8	230
26	Gender-specific pathway differences in the human serum metabolome. <i>Metabolomics</i> , 2015, 11, 1815-1833.	3.0	218
27	Molecular cloning of a novel widely expressed human 80 kDa 17 β -hydroxysteroid dehydrogenase IV. <i>Biochemical Journal</i> , 1995, 311, 437-443.	3.7	210
28	Interlaboratory Reproducibility of a Targeted Metabolomics Platform for Analysis of Human Serum and Plasma. <i>Analytical Chemistry</i> , 2017, 89, 656-665.	6.5	203
29	Targeted Metabolomics Identifies Reliable and Stable Metabolites in Human Serum and Plasma Samples. <i>PLoS ONE</i> , 2014, 9, e89728.	2.5	196
30	Integrated view on 17 β -hydroxysteroid dehydrogenases. <i>Molecular and Cellular Endocrinology</i> , 2009, 301, 7-19.	3.2	191
31	17 β -Hydroxysteroid dehydrogenases (17 β -HSDs) as therapeutic targets: Protein structures, functions, and recent progress in inhibitor development. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2011, 125, 66-82.	2.5	181
32	Genome-wide association study identifies novel genetic variants contributing to variation in blood metabolite levels. <i>Nature Communications</i> , 2015, 6, 7208.	12.8	178
33	Introducing the German Mouse Clinic: open access platform for standardized phenotyping. <i>Nature Methods</i> , 2005, 2, 403-404.	19.0	176
34	Mining the Unknown: A Systems Approach to Metabolite Identification Combining Genetic and Metabolic Information. <i>PLoS Genetics</i> , 2012, 8, e1003005.	3.5	170
35	Epigenetics meets metabolomics: an epigenome-wide association study with blood serum metabolic traits. <i>Human Molecular Genetics</i> , 2014, 23, 534-545.	2.9	169
36	Steroids in teleost fishes: A functional point of view. <i>Steroids</i> , 2015, 103, 123-144.	1.8	162

#	ARTICLE	IF	CITATIONS
37	A Metabolome-Wide Association Study of Kidney Function and Disease in the General Population. <i>Journal of the American Society of Nephrology: JASN</i> , 2016, 27, 1175-1188.	6.1	159
38	A guide to 17 β -hydroxysteroid dehydrogenases. <i>Molecular and Cellular Endocrinology</i> , 2001, 171, 1-4.	3.2	158
39	Evidence Supporting a Key Role of Lp-PLA2-Generated Lysophosphatidylcholine in Human Atherosclerotic Plaque Inflammation. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012, 32, 1505-1512.	2.4	157
40	DNA Methylation of Lipid-Related Genes Affects Blood Lipid Levels. <i>Circulation: Cardiovascular Genetics</i> , 2015, 8, 334-342.	5.1	151
41	Peroxisomal D-hydroxyacyl-CoA dehydrogenase deficiency: Resolution of the enzyme defect and its molecular basis in bifunctional protein deficiency. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 2128-2133.	7.1	144
42	Childhood Obesity Is Associated with Changes in the Serum Metabolite Profile. <i>Obesity Facts</i> , 2012, 5, 660-670.	3.4	141
43	Schizophrenia shows a unique metabolomics signature in plasma. <i>Translational Psychiatry</i> , 2012, 2, e149-e149.	4.8	138
44	Characterization of missing values in untargeted MS-based metabolomics data and evaluation of missing data handling strategies. <i>Metabolomics</i> , 2018, 14, 128.	3.0	138
45	Reproducibility of Molecular Phenotypes after Long-Term Differentiation to Human iPSC-Derived Neurons: A Multi-Site Omics Study. <i>Stem Cell Reports</i> , 2018, 11, 897-911.	4.8	135
46	Toll-like receptor heterodimer variants protect from childhood asthma. <i>Journal of Allergy and Clinical Immunology</i> , 2008, 122, 86-92.e8.	2.9	132
47	A Genome-Wide Metabolic QTL Analysis in Europeans Implicates Two Loci Shaped by Recent Positive Selection. <i>PLoS Genetics</i> , 2011, 7, e1002270.	3.5	132
48	Reliability of Serum Metabolite Concentrations over a 4-Month Period Using a Targeted Metabolomic Approach. <i>PLoS ONE</i> , 2011, 6, e21103.	2.5	131
49	Phytoestrogens inhibit human 17 β -hydroxysteroid dehydrogenase type 5. <i>Molecular and Cellular Endocrinology</i> , 2001, 171, 151-162.	3.2	130
50	Impaired Autophagy Induces Chronic Atrophic Pancreatitis in Mice via Sex- and Nutrition-Dependent Processes. <i>Gastroenterology</i> , 2015, 148, 626-638.e17.	1.3	130
51	Multifunctionality of human 17 β -hydroxysteroid dehydrogenases. <i>Molecular and Cellular Endocrinology</i> , 2006, 248, 47-55.	3.2	128
52	Mouse phenotyping. <i>Methods</i> , 2011, 53, 120-135.	3.8	128
53	Closing the Gap: Identification of Human 3-Ketosteroid Reductase, the Last Unknown Enzyme of Mammalian Cholesterol Biosynthesis. <i>Molecular Endocrinology</i> , 2003, 17, 1715-1725.	3.7	121
54	Methanobactin reverses acute liver failure in a rat model of Wilson disease. <i>Journal of Clinical Investigation</i> , 2016, 126, 2721-2735.	8.2	120

#	ARTICLE	IF	CITATIONS
55	Gene Structure and Regulation of the Murine Epithelial Calcium Channels ECaC1 and 2. <i>Biochemical and Biophysical Research Communications</i> , 2001, 289, 1287-1294.	2.1	118
56	Metabolites associate with kidney function decline and incident chronic kidney disease in the general population. <i>Nephrology Dialysis Transplantation</i> , 2013, 28, 2131-2138.	0.7	116
57	Effect of Empagliflozin on the Metabolic Signature of Patients With Type 2 Diabetes Mellitus and Cardiovascular Disease. <i>Circulation</i> , 2017, 136, 969-972.	1.6	114
58	Long-Term Stability of Human Plasma Metabolites during Storage at $\sim 80^\circ\text{C}$. <i>Journal of Proteome Research</i> , 2018, 17, 203-211.	3.7	114
59	IKK β controls canonical TGF β -SMAD signaling to regulate genes expressing SNAIL and SLUG during EMT in Panc1 cells. <i>Journal of Cell Science</i> , 2010, 123, 4231-4239.	2.0	113
60	Targeted metabolomics profiles are strongly correlated with nutritional patterns in women. <i>Metabolomics</i> , 2013, 9, 506-514.	3.0	110
61	Serum Metabolite Concentrations and Decreased GFR in the General Population. <i>American Journal of Kidney Diseases</i> , 2012, 60, 197-206.	1.9	108
62	Discovery of phosphatidylcholines and sphingomyelins as biomarkers for ovarian endometriosis. <i>Human Reproduction</i> , 2012, 27, 2955-2965.	0.9	108
63	Variation of serum metabolites related to habitual diet: a targeted metabolomic approach in EPIC-Potsdam. <i>European Journal of Clinical Nutrition</i> , 2013, 67, 1100-1108.	2.9	108
64	Vitamin D signaling is modulated on multiple levels in health and disease. <i>Molecular and Cellular Endocrinology</i> , 2006, 248, 149-159.	3.2	107
65	Zebrafish and steroids: What do we know and what do we need to know?. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2013, 137, 165-173.	2.5	107
66	Genome-wide association study of caffeine metabolites provides new insights to caffeine metabolism and dietary caffeine-consumption behavior. <i>Human Molecular Genetics</i> , 2016, 25, ddu334.	2.9	107
67	Metabolic Profiling Reveals Distinct Variations Linked to Nicotine Consumption in Humans – First Results from the KORA Study. <i>PLoS ONE</i> , 2008, 3, e3863.	2.5	107
68	Porcine 80-kDa Protein Reveals Intrinsic 17 β -Hydroxysteroid Dehydrogenase, Fatty Acyl-CoA-hydration/Dehydrogenase, and Sterol Transfer Activities. <i>Journal of Biological Chemistry</i> , 1996, 271, 5438-5442.	3.4	105
69	Metabolomics platforms for genome wide association studies – linking the genome to the metabolome. <i>Current Opinion in Biotechnology</i> , 2013, 24, 39-47.	6.6	105
70	Peroxisomal Bifunctional Protein Deficiency Revisited: Resolution of Its True Enzymatic and Molecular Basis. <i>American Journal of Human Genetics</i> , 1999, 64, 99-107.	6.2	104
71	Determination of cDNA, gene structure and chromosomal localization of the novel human 17 β -hydroxysteroid dehydrogenase type 7. <i>FEBS Letters</i> , 1999, 460, 373-379.	2.8	104
72	Alterations of plasma metabolite profiles related to adipose tissue distribution and cardiometabolic risk. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2015, 309, E736-E746.	3.5	104

#	ARTICLE	IF	CITATIONS
73	Altered metabolism distinguishes high-risk from stable carotid atherosclerotic plaques. <i>European Heart Journal</i> , 2018, 39, 2301-2310.	2.2	104
74	Effects of smoking and smoking cessation on human serum metabolite profile: results from the KORA cohort study. <i>BMC Medicine</i> , 2013, 11, 60.	5.5	103
75	Epigenetic alterations in longevity regulators, reduced life span, and exacerbated aging-related pathology in old father offspring mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E2348-E2357.	7.1	102
76	The Human Blood Metabolome-Transcriptome Interface. <i>PLoS Genetics</i> , 2015, 11, e1005274.	3.5	99
77	Effects of Metformin on Metabolite Profiles and LDL Cholesterol in Patients With Type 2 Diabetes. <i>Diabetes Care</i> , 2015, 38, 1858-1867.	8.6	97
78	Body Fat Free Mass Is Associated with the Serum Metabolite Profile in a Population-Based Study. <i>PLoS ONE</i> , 2012, 7, e40009.	2.5	95
79	Targeted Metabolomics of Dried Blood Spot Extracts. <i>Chromatographia</i> , 2013, 76, 1295-1305.	1.3	95
80	Amino acids, lipid metabolites, and ferritin as potential mediators linking red meat consumption to type 2 diabetes. <i>American Journal of Clinical Nutrition</i> , 2015, 101, 1241-1250.	4.7	95
81	Increased efficacy of omalizumab in atopic dermatitis patients with wild-type filaggrin status and higher serum levels of phosphatidylcholines. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2014, 69, 132-135.	5.7	92
82	Serum and plasma amino acids as markers of prediabetes, insulin resistance, and incident diabetes. <i>Critical Reviews in Clinical Laboratory Sciences</i> , 2018, 55, 21-32.	6.1	92
83	Requirement of the RNA-editing Enzyme ADAR2 for Normal Physiology in Mice. <i>Journal of Biological Chemistry</i> , 2011, 286, 18614-18622.	3.4	91
84	Comprehensive metabolic profiling of chronic low-grade inflammation among generally healthy individuals. <i>BMC Medicine</i> , 2017, 15, 210.	5.5	91
85	Androgen metabolism via 17 β -hydroxysteroid dehydrogenase type 3 in mammalian and non-mammalian vertebrates: comparison of the human and the zebrafish enzyme. <i>Journal of Molecular Endocrinology</i> , 2005, 35, 305-316.	2.5	90
86	Pre-Analytical Sample Quality: Metabolite Ratios as an Intrinsic Marker for Prolonged Room Temperature Exposure of Serum Samples. <i>PLoS ONE</i> , 2015, 10, e0121495.	2.5	88
87	Disruption of glucagon receptor signaling causes hyperaminoacidemia exposing a possible liver-alpha-cell axis. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2018, 314, E93-E103.	3.5	84
88	Molecular cloning and amino acid sequence of the porcine 17beta-estradiol dehydrogenase. <i>FEBS Journal</i> , 1994, 222, 221-227.	0.2	83
89	Linking diet, physical activity, cardiorespiratory fitness and obesity to serum metabolite networks: findings from a population-based study. <i>International Journal of Obesity</i> , 2014, 38, 1388-1396.	3.4	83
90	Association Studies between Microsatellite Markers within the Gene Encoding Human 11 β -Hydroxysteroid Dehydrogenase Type 1 and Body Mass Index, Waist to Hip Ratio, and Glucocorticoid Metabolism. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2002, 87, 4984-4990.	3.6	82

#	ARTICLE	IF	CITATIONS
91	Testosterone Increases Susceptibility to Amebic Liver Abscess in Mice and Mediates Inhibition of IFN γ Secretion in Natural Killer T Cells. <i>PLoS ONE</i> , 2013, 8, e55694.	2.5	81
92	Structural and biochemical characterization of human orphan DHRS10 reveals a novel cytosolic enzyme with steroid dehydrogenase activity. <i>Biochemical Journal</i> , 2007, 402, 419-427.	3.7	79
93	Alcohol-induced metabolomic differences in humans. <i>Translational Psychiatry</i> , 2013, 3, e276-e276.	4.8	79
94	Unique multifunctional HSD17B4 gene product: 17 β -hydroxysteroid dehydrogenase 4 and D-3-hydroxyacyl-coenzyme A dehydrogenase/hydratase involved in Zellweger syndrome. <i>Journal of Molecular Endocrinology</i> , 1999, 22, 227-240.	2.5	76
95	Questionnaire-based self-reported nutrition habits associate with serum metabolism as revealed by quantitative targeted metabolomics. <i>European Journal of Epidemiology</i> , 2011, 26, 145-156.	5.7	74
96	Changes in the serum metabolite profile in obese children with weight loss. <i>European Journal of Nutrition</i> , 2015, 54, 173-181.	3.9	74
97	Identification of Serum Metabolites Associated With Incident Hypertension in the European Prospective Investigation Into Cancer and Nutrition "Potsdam Study. <i>Hypertension</i> , 2016, 68, 471-477.	2.7	73
98	Association of Atopic Dermatitis with Cardiovascular Risk Factors and Diseases. <i>Journal of Investigative Dermatology</i> , 2017, 137, 1074-1081.	0.7	73
99	Metabolomics approach reveals effects of antihypertensives and lipid-lowering drugs on the human metabolism. <i>European Journal of Epidemiology</i> , 2014, 29, 325-336.	5.7	72
100	High-throughput extraction and quantification method for targeted metabolomics in murine tissues. <i>Metabolomics</i> , 2018, 14, 18.	3.0	72
101	Purification and properties of oestradiol 17 β -dehydrogenase extracted from cytoplasmic vesicles of porcine endometrial cells. <i>Biochemical Journal</i> , 1992, 288, 375-381.	3.7	71
102	Identification and characterization of 17 β -hydroxysteroid dehydrogenases in the zebrafish, <i>Danio rerio</i> . <i>Molecular and Cellular Endocrinology</i> , 2004, 215, 19-30.	3.2	70
103	Integrative genetic and metabolite profiling analysis suggests altered phosphatidylcholine metabolism in asthma. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2013, 68, 629-636.	5.7	70
104	Systemic First-Line Phenotyping. <i>Methods in Molecular Biology</i> , 2009, 530, 463-509.	0.9	70
105	Deletion of Deoxyribonucleic Acid Binding Domain of the Vitamin D Receptor Abrogates Genomic and Nongenomic Functions of Vitamin D. <i>Molecular Endocrinology</i> , 2002, 16, 1524-1537.	3.7	69
106	Genetic Influences on Metabolite Levels: A Comparison across Metabolomic Platforms. <i>PLoS ONE</i> , 2016, 11, e0153672.	2.5	69
107	A novel 17 β -hydroxysteroid dehydrogenase in the fungus <i>Cochliobolus lunatus</i> : new insights into the evolution of steroid-hormone signalling. <i>Biochemical Journal</i> , 1999, 337, 425-431.	3.7	68
108	Random Survival Forest in practice: a method for modelling complex metabolomics data in time to event analysis. <i>International Journal of Epidemiology</i> , 2016, 45, 1406-1420.	1.9	67

#	ARTICLE	IF	CITATIONS
109	APOA5 variants and metabolic syndrome in Caucasians. <i>Journal of Lipid Research</i> , 2007, 48, 2614-2621.	4.2	66
110	A common FADS2 promoter polymorphism increases promoter activity and facilitates binding of transcription factor ELK1. <i>Journal of Lipid Research</i> , 2010, 51, 182-191.	4.2	66
111	International Ring Trial of a High Resolution Targeted Metabolomics and Lipidomics Platform for Serum and Plasma Analysis. <i>Analytical Chemistry</i> , 2019, 91, 14407-14416.	6.5	66
112	Genome-wide association studies with metabolomics. <i>Genome Medicine</i> , 2012, 4, 34.	8.2	63
113	Evaluation of various biomarkers as potential mediators of the association between coffee consumption and incident type 2 diabetes in the EPIC-Potsdam Study , ,. <i>American Journal of Clinical Nutrition</i> , 2014, 100, 891-900.	4.7	63
114	Metabolic switch during adipogenesis: From branched chain amino acid catabolism to lipid synthesis. <i>Archives of Biochemistry and Biophysics</i> , 2016, 589, 93-107.	3.0	63
115	Serum metabolites and risk of myocardial infarction and ischemic stroke: a targeted metabolomic approach in two German prospective cohorts. <i>European Journal of Epidemiology</i> , 2018, 33, 55-66.	5.7	63
116	Cytochrome <i>c</i> oxidase subunit 4 isoform 2 knockout mice show reduced enzyme activity, airway hyporeactivity, and lung pathology. <i>FASEB Journal</i> , 2012, 26, 3916-3930.	0.5	62
117	Removing the bottlenecks of cell culture metabolomics: fast normalization procedure, correlation of metabolites to cell number, and impact of the cell harvesting method. <i>Metabolomics</i> , 2016, 12, 151.	3.0	61
118	Progressive loss of PAX9 expression correlates with increasing malignancy of dysplastic and cancerous epithelium of the human oesophagus. <i>Journal of Pathology</i> , 2002, 197, 293-297.	4.5	60
119	Characterization of Human DHRS6, an Orphan Short Chain Dehydrogenase/Reductase Enzyme. <i>Journal of Biological Chemistry</i> , 2006, 281, 10291-10297.	3.4	60
120	Identification of biomarkers for apoptosis in cancer cell lines using metabolomics: tools for individualized medicine. <i>Journal of Internal Medicine</i> , 2013, 274, 425-439.	6.0	60
121	Local estradiol metabolism in osteoblast- and osteoclast-like cells. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 1997, 61, 167-174.	2.5	59
122	Mutation Analysis of Congenital Cataracts in Indian Families: Identification of SNPs and a New Causative Allele in <i>CRYBB2</i> Gene. , 2004, 45, 3599.		59
123	Extracellular Citrate Affects Critical Elements of Cancer Cell Metabolism and Supports Cancer Development <i>In Vivo</i> . <i>Cancer Research</i> , 2018, 78, 2513-2523.	0.9	59
124	The Saliva Metabolome in Association to Oral Health Status. <i>Journal of Dental Research</i> , 2019, 98, 642-651.	5.2	59
125	Long term conservation of human metabolic phenotypes and link to heritability. <i>Metabolomics</i> , 2014, 10, 1005-1017.	3.0	58
126	The sequence of porcine 80 kDa 17 β -estradiol dehydrogenase reveals similarities to the short chain alcohol dehydrogenase family, to actin binding motifs and to sterol carrier protein. <i>Molecular and Cellular Endocrinology</i> , 1994, 104, 127-131.	3.2	56

#	ARTICLE	IF	CITATIONS
127	The German Mouse Clinic: A Platform for Systemic Phenotype Analysis of Mouse Models. <i>Current Pharmaceutical Biotechnology</i> , 2009, 10, 236-243.	1.6	56
128	Preservation of Metabolic Flexibility in Skeletal Muscle by a Combined Use of n-3 PUFA and Rosiglitazone in Dietary Obese Mice. <i>PLoS ONE</i> , 2012, 7, e43764.	2.5	55
129	Evolution of 17 β -HSD type 4, a multifunctional protein of β -oxidation. <i>Molecular and Cellular Endocrinology</i> , 2001, 171, 205-210.	3.2	54
130	Down-Regulation by Nuclear Factor κ B of Human 25-Hydroxyvitamin D3 1 α -Hydroxylase Promoter. <i>Molecular Endocrinology</i> , 2004, 18, 2440-2450.	3.7	54
131	Heart-specific Knockout of the Mitochondrial Thioredoxin Reductase (<i>Txnrd2</i>) Induces Metabolic and Contractile Dysfunction in the Aging Myocardium. <i>Journal of the American Heart Association</i> , 2015, 4, .	3.7	54
132	Human Adrenoleukodystrophy Protein and Related Peroxisomal ABC Transporters Interact with the Peroxisomal Assembly Protein PEX19p. <i>Biochemical and Biophysical Research Communications</i> , 2000, 271, 144-150.	2.1	52
133	17 β -hydroxysteroid dehydrogenase type 7 " an ancient 3-ketosteroid reductase of cholesterologenesis. <i>Molecular and Cellular Endocrinology</i> , 2001, 171, 199-204.	3.2	52
134	Variation in the human lipidome associated with coffee consumption as revealed by quantitative targeted metabolomics. <i>Molecular Nutrition and Food Research</i> , 2009, 53, 1357-1365.	3.3	52
135	Altered levels of acylcarnitines, phosphatidylcholines, and sphingomyelins in peritoneal fluid from ovarian endometriosis patients. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2016, 159, 60-69.	2.5	52
136	The exceptional sensitivity of brain mitochondria to copper. <i>Toxicology in Vitro</i> , 2018, 51, 11-22.	2.4	52
137	Molecular characterization of mouse 17 β -hydroxysteroid dehydrogenase IV. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 1995, 55, 541-548.	2.5	51
138	<i>Srgap3</i> ^{+/+} mice present a neurodevelopmental disorder with schizophrenia-related intermediate phenotypes. <i>FASEB Journal</i> , 2012, 26, 4418-4428.	0.5	51
139	Metabolite profiling reveals new insights into the regulation of serum urate in humans. <i>Metabolomics</i> , 2014, 10, 141-151.	3.0	51
140	Evidence for Stress-like Alterations in the HPA-Axis in Women Taking Oral Contraceptives. <i>Scientific Reports</i> , 2017, 7, 14111.	3.3	51
141	Isolation and Embryonic Expression of the Novel Mouse Gene <i>Hic1</i> , the Homologue of HIC1, a Candidate Gene for the Miller-Dieker Syndrome. <i>Human Molecular Genetics</i> , 1999, 8, 697-710.	2.9	50
142	Recent advances in 17 β -hydroxysteroid dehydrogenases. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2009, 114, 72-77.	2.5	50
143	In search for function of two human orphan SDR enzymes: Hydroxysteroid dehydrogenase like 2 (HSDL2) and short-chain dehydrogenase/reductase-orphan (SDR-O). <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2009, 117, 117-124.	2.5	50
144	Stability of targeted metabolite profiles of urine samples under different storage conditions. <i>Metabolomics</i> , 2017, 13, 4.	3.0	50

#	ARTICLE	IF	CITATIONS
145	Metabolomics meets machine learning: Longitudinal metabolite profiling in serum of normal versus overconditioned cows and pathway analysis. <i>Journal of Dairy Science</i> , 2019, 102, 11561-11585.	3.4	50
146	Levels of the Autophagy-Related 5 Protein Affect Progression and Metastasis of Pancreatic Tumors in Mice. <i>Gastroenterology</i> , 2019, 156, 203-217.e20.	1.3	50
147	Metformin Effect on Nontargeted Metabolite Profiles in Patients With Type 2 Diabetes and in Multiple Murine Tissues. <i>Diabetes</i> , 2016, 65, 3776-3785.	0.6	49
148	Molecular basis of d-bifunctional protein deficiency. <i>Molecular and Cellular Endocrinology</i> , 2001, 171, 61-70.	3.2	48
149	Flavonoids and cinnamic acid derivatives as inhibitors of 17 β -hydroxysteroid dehydrogenase type 1. <i>Molecular and Cellular Endocrinology</i> , 2009, 301, 229-234.	3.2	48
150	A semi-automated method for isolating functionally intact mitochondria from cultured cells and tissue biopsies. <i>Analytical Biochemistry</i> , 2013, 443, 66-74.	2.4	48
151	HSD17B4 overexpression, an independent biomarker of poor patient outcome in prostate cancer. <i>Molecular and Cellular Endocrinology</i> , 2009, 301, 89-96.	3.2	47
152	TBX21 gene variants increase childhood asthma risk in combination with HLX1 variants. <i>Journal of Allergy and Clinical Immunology</i> , 2009, 123, 1062-1068.e8.	2.9	47
153	Changing Metabolic Signatures of Amino Acids and Lipids During the Prediabetic Period in a Pig Model With Impaired Incretin Function and Reduced β -Cell Mass. <i>Diabetes</i> , 2012, 61, 2166-2175.	0.6	47
154	Predicting and elucidating the etiology of fatty liver disease: A machine learning modeling and validation study in the IMI DIRECT cohorts. <i>PLoS Medicine</i> , 2020, 17, e1003149.	8.4	47
155	Metabolic Signatures of Cultured Human Adipocytes from Metabolically Healthy versus Unhealthy Obese Individuals. <i>PLoS ONE</i> , 2014, 9, e93148.	2.5	47
156	Zebrafish 17 β -hydroxysteroid dehydrogenases: An evolutionary perspective. <i>Molecular and Cellular Endocrinology</i> , 2009, 301, 20-26.	3.2	46
157	BEMER Electromagnetic Field Therapy Reduces Cancer Cell Radioresistance by Enhanced ROS Formation and Induced DNA Damage. <i>PLoS ONE</i> , 2016, 11, e0167931.	2.5	46
158	Cross-omics analysis revealed gut microbiome-related metabolic pathways underlying atherosclerosis development after antibiotics treatment. <i>Molecular Metabolism</i> , 2020, 36, 100976.	6.5	46
159	Release of lysophospholipid "find-me" signals during apoptosis requires the ATP-binding cassette transporter A1. <i>Autoimmunity</i> , 2012, 45, 568-573.	2.6	45
160	Mitochondrial gene polymorphisms alter hepatic cellular energy metabolism and aggravate diet-induced non-alcoholic steatohepatitis. <i>Molecular Metabolism</i> , 2016, 5, 283-295.	6.5	45
161	A single night of sleep curtailment increases plasma acylcarnitines: Novel insights in the relationship between sleep and insulin resistance. <i>Archives of Biochemistry and Biophysics</i> , 2016, 589, 145-151.	3.0	45
162	Zebrafish 20 β -Hydroxysteroid Dehydrogenase Type 2 Is Important for Glucocorticoid Catabolism in Stress Response. <i>PLoS ONE</i> , 2013, 8, e54851.	2.5	45

#	ARTICLE	IF	CITATIONS
163	A novel 17 β -hydroxysteroid dehydrogenase in the fungus <i>Cochliobolus lunatus</i> : new insights into the evolution of steroid-hormone signalling. <i>Biochemical Journal</i> , 1999, 337, 425.	3.7	44
164	A novel <i>N</i> -ethyl- <i>N</i> -nitrosourea-induced mutation in <i>C3</i> phospholipase causes inflammatory arthritis, metabolic defects, and male infertility in vitro in a murine model. <i>Arthritis and Rheumatism</i> , 2011, 63, 1301-1311.	6.7	43
165	Integration of targeted metabolomics and transcriptomics identifies deregulation of phosphatidylcholine metabolism in Huntington's disease peripheral blood samples. <i>Metabolomics</i> , 2016, 12, 137.	3.0	43
166	The Hydroxysteroid (17 β) Dehydrogenase Family Gene HSD17B12 Is Involved in the Prostaglandin Synthesis Pathway, the Ovarian Function, and Regulation of Fertility. <i>Endocrinology</i> , 2016, 157, 3719-3730.	2.8	43
167	Plasma and Serum Metabolite Association Networks: Comparability within and between Studies Using NMR and MS Profiling. <i>Journal of Proteome Research</i> , 2017, 16, 2547-2559.	3.7	43
168	Models including plasma levels of sphingomyelins and phosphatidylcholines as diagnostic and prognostic biomarkers of endometrial cancer. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2018, 178, 312-321.	2.5	43
169	Clinical Chemistry and Other Laboratory Tests on Mouse Plasma or Serum. <i>Current Protocols in Mouse Biology</i> , 2013, 3, 69-100.	1.2	42
170	Expression of Different 17 β -Hydroxysteroid Dehydrogenase Types and Their Activities in Human Prostate Cancer Cells*. <i>Endocrinology</i> , 1997, 138, 4876-4882.	2.8	41
171	Introduction of an Electron Withdrawing Group on the Hydroxyphenyl-naphthol Scaffold Improves the Potency of 17 β -Hydroxysteroid Dehydrogenase Type 2 (17 β -HSD2) Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2011, 54, 7547-7557.	6.4	41
172	Innovations in phenotyping of mouse models in the German Mouse Clinic. <i>Mammalian Genome</i> , 2012, 23, 611-622.	2.2	40
173	Discovery of a novel enzyme mediating glucocorticoid catabolism in fish: 20 β -Hydroxysteroid dehydrogenase type 2. <i>Molecular and Cellular Endocrinology</i> , 2012, 349, 202-213.	3.2	40
174	Cellular signaling of amino acids towards mTORC1 activation in impaired human leucine catabolism. <i>Journal of Nutritional Biochemistry</i> , 2013, 24, 824-831.	4.2	40
175	Cross-Laboratory Standardization of Preclinical Lipidomics Using Differential Mobility Spectrometry and Multiple Reaction Monitoring. <i>Analytical Chemistry</i> , 2021, 93, 16369-16378.	6.5	40
176	Metabolomics screening identifies reduced L-carnitine to be associated with progressive emphysema. <i>Clinical Science</i> , 2016, 130, 273-287.	4.3	39
177	The Munich MIDY Pig Biobank – A unique resource for studying organ crosstalk in diabetes. <i>Molecular Metabolism</i> , 2017, 6, 931-940.	6.5	39
178	Cholesterol metabolism promotes β cell positioning during immune pathogenesis of chronic obstructive pulmonary disease. <i>EMBO Molecular Medicine</i> , 2018, 10, .	6.9	39
179	Ageing Investigation Using Two-Time-Point Metabolomics Data from KORA and CARLA Studies. <i>Metabolites</i> , 2019, 9, 44.	2.9	39
180	Four groups of type 2 diabetes contribute to the etiological and clinical heterogeneity in newly diagnosed individuals: An IMI DIRECT study. <i>Cell Reports Medicine</i> , 2022, 3, 100477.	6.5	39

#	ARTICLE	IF	CITATIONS
181	Improvement of myocardial infarction risk prediction via inflammation-associated metabolite biomarkers. <i>Heart</i> , 2017, 103, 1278-1285.	2.9	38
182	Molecular characterization of Patched-associated rhabdomyosarcoma. <i>Journal of Pathology</i> , 2003, 200, 348-356.	4.5	37
183	Perspectives in Understanding the Role of Human 17 β -Hydroxysteroid Dehydrogenases in Health and Disease. <i>Annals of the New York Academy of Sciences</i> , 2009, 1155, 15-24.	3.8	37
184	Structure-based design, synthesis and in vitro characterization of potent 17 β -hydroxysteroid dehydrogenase type 1 inhibitors based on 2-substitutions of estrone and D-homo-estrone. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 6740-6744.	2.2	37
185	Novel estrogen-related genes and potential biomarkers of ovarian endometriosis identified by differential expression analysis. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2011, 125, 231-242.	2.5	37
186	Metabolomic profiles in individuals with negative affectivity and social inhibition: A population-based study of Type D personality. <i>Psychoneuroendocrinology</i> , 2013, 38, 1299-1309.	2.7	37
187	High Mobility Group N Proteins Modulate the Fidelity of the Cellular Transcriptional Profile in a Tissue- and Variant-specific Manner. <i>Journal of Biological Chemistry</i> , 2013, 288, 16690-16703.	3.4	37
188	Circulating glutamate concentration as a biomarker of visceral obesity and associated metabolic alterations. <i>Nutrition and Metabolism</i> , 2018, 15, 78.	3.0	37
189	Increased amino acids levels and the risk of developing of hypertriglyceridemia in a 7-year follow-up. <i>Journal of Endocrinological Investigation</i> , 2014, 37, 369-374.	3.3	36
190	Retinal proteome alterations in a mouse model of type 2 diabetes. <i>Diabetologia</i> , 2014, 57, 192-203.	6.3	36
191	Empagliflozin improves left ventricular diastolic function of db/db mice. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2020, 1866, 165807.	3.8	36
192	Rational design of novel mutants of fungal 17 β -hydroxysteroid dehydrogenase. <i>Journal of Biotechnology</i> , 2007, 129, 123-130.	3.8	35
193	Bezafibrate Improves Insulin Sensitivity and Metabolic Flexibility in STZ-Induced Diabetic Mice. <i>Diabetes</i> , 2016, 65, 2540-2552.	0.6	35
194	Interaction of the MAGUK Family Member Acvrin1 and the Cytoplasmic Domain of the Notch Ligand Delta1. <i>Journal of Molecular Biology</i> , 2003, 333, 229-235.	4.2	34
195	Steroid metabolism in cnidarians: Insights from <i>Nematostella vectensis</i> . <i>Molecular and Cellular Endocrinology</i> , 2009, 301, 27-36.	3.2	34
196	High fat diet-induced modifications in membrane lipid and mitochondrial-membrane protein signatures precede the development of hepatic insulin resistance in mice. <i>Molecular Metabolism</i> , 2015, 4, 39-50.	6.5	34
197	Structure of the gene for the human 17 β -hydroxysteroid dehydrogenase type IV. <i>Mammalian Genome</i> , 1998, 9, 1036-1041.	2.2	33
198	Expression analysis of estrogen-metabolizing enzymes in human endometrial cancer. <i>Molecular and Cellular Endocrinology</i> , 2006, 248, 114-117.	3.2	33

#	ARTICLE	IF	CITATIONS
199	Identification of chemically diverse, novel inhibitors of 17 β -hydroxysteroid dehydrogenase type 3 and 5 by pharmacophore-based virtual screening. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2011, 125, 148-161.	2.5	33
200	Key elements of metabolomics in the study of biomarkers of diabetes. <i>Diabetologia</i> , 2016, 59, 2497-2502.	6.3	33
201	Machine Learning Approaches Reveal Metabolic Signatures of Incident Chronic Kidney Disease in Individuals With Prediabetes and Type 2 Diabetes. <i>Diabetes</i> , 2020, 69, 2756-2765.	0.6	33
202	The organelles containing porcine 17 beta-estradiol dehydrogenase are peroxisomes. <i>European Journal of Cell Biology</i> , 1995, 68, 263-7.	3.6	33
203	Pharmacokinetics of metformin in patients with gastrointestinal intolerance. <i>Diabetes, Obesity and Metabolism</i> , 2018, 20, 1593-1601.	4.4	32
204	Cord Blood Lysophosphatidylcholine 16: 1 is Positively Associated with Birth Weight. <i>Cellular Physiology and Biochemistry</i> , 2018, 45, 614-624.	1.6	32
205	Metabolite ratios as potential biomarkers for type 2 diabetes: a DIRECT study. <i>Diabetologia</i> , 2018, 61, 117-129.	6.3	32
206	A Challenge for Medicinal Chemistry by the 17 β -hydroxysteroid Dehydrogenase Superfamily: An Integrated Biological Function and Inhibition Study. <i>Current Topics in Medicinal Chemistry</i> , 2013, 13, 1164-1171.	2.1	32
207	17 β -Hydroxysteroid Dehydrogenase from <i>Cochliobolus lunatus</i> : Model Structure and Substrate Specificity. <i>Archives of Biochemistry and Biophysics</i> , 2000, 384, 255-262.	3.0	31
208	Structure-based Phylogenetic Analysis of Short-chain Alcohol Dehydrogenases and Reclassification of the 17 β -Hydroxysteroid Dehydrogenase Family. <i>Molecular Biology and Evolution</i> , 2001, 18, 2154-2161.	8.9	31
209	Inhibition of 17 β -hydroxysteroid dehydrogenases by phytoestrogens: Comparison with other steroid metabolizing enzymes. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2005, 93, 285-292.	2.5	31
210	Important roles of the AKR1C2 and SRD5A1 enzymes in progesterone metabolism in endometrial cancer model cell lines. <i>Chemico-Biological Interactions</i> , 2015, 234, 297-308.	4.0	31
211	Alterations in Lipid and Inositol Metabolisms in Two Dopaminergic Disorders. <i>PLoS ONE</i> , 2016, 11, e0147129.	2.5	31
212	12-months metabolic changes among gender dysphoric individuals under cross-sex hormone treatment: a targeted metabolomics study. <i>Scientific Reports</i> , 2016, 6, 37005.	3.3	31
213	Transcriptional regulation of human and murine 17 β -hydroxysteroid dehydrogenase type-7 confers its participation in cholesterol biosynthesis. <i>Journal of Molecular Endocrinology</i> , 2006, 37, 185-197.	2.5	30
214	An IgE-associated polymorphism in STAT6 alters NF- κ B binding, STAT6 promoter activity, and mRNA expression. <i>Journal of Allergy and Clinical Immunology</i> , 2009, 124, 583-589.e6.	2.9	30
215	Cardiovascular Risk Factors Associated With Blood Metabolite Concentrations and Their Alterations During a 4-Year Period in a Population-Based Cohort. <i>Circulation: Cardiovascular Genetics</i> , 2016, 9, 487-494.	5.1	30
216	Type 2 diabetes is associated with postprandial amino acid measures. <i>Archives of Biochemistry and Biophysics</i> , 2016, 589, 138-144.	3.0	30

#	ARTICLE	IF	CITATIONS
217	Deep molecular phenotypes link complex disorders and physiological insult to CpG methylation. <i>Human Molecular Genetics</i> , 2018, 27, 1106-1121.	2.9	30
218	5' flanking sequence of the human immediate early responsive gene <i>ccn1</i> (<i>cyr61</i>) and mapping of polymorphic CA repeat sequence motifs in the human <i>ccn1</i> (<i>cyr61</i>) locus. <i>Journal of Clinical Pathology</i> , 2001, 54, 170-175.	1.9	30
219	Identification of a Potential Biomarker for FABP4 Inhibition: The Power of Lipidomics in Preclinical Drug Testing. <i>Journal of Biomolecular Screening</i> , 2011, 16, 467-475.	2.6	29
220	Endocrinology Meets Metabolomics: Achievements, Pitfalls, and Challenges. <i>Trends in Endocrinology and Metabolism</i> , 2017, 28, 705-721.	7.1	29
221	Characterization of the HSD17B4 gene: d-specific multifunctional protein 2/17 β -hydroxysteroid dehydrogenase IV. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 1999, 69, 441-446.	2.5	28
222	Inhibitory effects of fluorine-substituted estrogens on the activity of 17 β -hydroxysteroid dehydrogenases. <i>Molecular and Cellular Endocrinology</i> , 2006, 248, 218-224.	3.2	28
223	Genetic associations with lipoprotein subfractions provide information on their biological nature. <i>Human Molecular Genetics</i> , 2012, 21, 1433-1443.	2.9	28
224	Mitochondrial Regulation of the 26S Proteasome. <i>Cell Reports</i> , 2020, 32, 108059.	6.4	28
225	Expression and regulation of aromatase and 17 β -hydroxysteroid dehydrogenase type 4 in human THP 1 leukemia cells. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 1995, 55, 555-563.	2.5	27
226	Metabolic Signatures in Apoptotic Human Cancer Cell Lines. <i>OMICS A Journal of Integrative Biology</i> , 2011, 15, 325-335.	2.0	27
227	Metabolomics of Ramadan fasting: an opportunity for the controlled study of physiological responses to food intake. <i>Journal of Translational Medicine</i> , 2014, 12, 161.	4.4	27
228	Circulating Metabolites Differentiate Acute Ischemic Stroke from Stroke Mimics. <i>Annals of Neurology</i> , 2020, 88, 736-746.	5.3	27
229	Systemic Regulation of Host Energy and Oogenesis by Microbiome-Derived Mitochondrial Coenzymes. <i>Cell Reports</i> , 2021, 34, 108583.	6.4	27
230	Low-parachor solvents extraction and thermostated micro-thin-layer chromatography separation for fast screening and classification of spirulina from pharmaceutical formulations and food samples. <i>Journal of Chromatography A</i> , 2011, 1218, 5694-5704.	3.7	26
231	Circadian expression of steroidogenic cytochromes <i>cyp17a1</i> in the mouse adrenal gland: involvement of cAMP-responsive element modulator in epigenetic regulation of <i>cyp17a1</i> . <i>FEBS Journal</i> , 2012, 279, 1584-1593.	4.7	26
232	Novel genetic associations with serum level metabolites identified by phenotype set enrichment analyses. <i>Human Molecular Genetics</i> , 2014, 23, 5847-5857.	2.9	26
233	Low-level mitochondrial heteroplasmy modulates DNA replication, glucose metabolism and lifespan in mice. <i>Scientific Reports</i> , 2018, 8, 5872.	3.3	26
234	House dust mite drives proinflammatory eicosanoid reprogramming and macrophage effector functions. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2019, 74, 1090-1101.	5.7	26

#	ARTICLE	IF	CITATIONS
235	Multi-omics insights into functional alterations of the liver in insulin-deficient diabetes mellitus. <i>Molecular Metabolism</i> , 2019, 26, 30-44.	6.5	26
236	High levels of modified ceramides are a defining feature of murine and human cancer cachexia. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2020, 11, 1459-1475.	7.3	26
237	The liver's "alpha cell axis associates with liver fat and insulin resistance: a validation study in women with non-steatotic liver fat levels. <i>Diabetologia</i> , 2021, 64, 512-520.	6.3	26
238	Comparison of metabolic profiles of acutely ill and short-term weight recovered patients with anorexia nervosa reveals alterations of 33 out of 163 metabolites. <i>Journal of Psychiatric Research</i> , 2012, 46, 1600-1609.	3.1	25
239	Extracellular Citrate Fuels Cancer Cell Metabolism and Growth. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 602476.	3.7	25
240	Inflammatory macrophage memory in nonsteroidal anti-inflammatory drug-exacerbated respiratory disease. <i>Journal of Allergy and Clinical Immunology</i> , 2021, 147, 587-599.	2.9	25
241	Peroxisome targeting of porcine 17 β -hydroxysteroid dehydrogenase type IV/D-specific multifunctional protein 2 is mediated by its C-terminal tripeptide AKI. <i>Journal of Cellular Biochemistry</i> , 1999, 73, 70-78.	2.6	24
242	Expression of 17 β -hydroxysteroid dehydrogenases in mesophilic and extremophilic yeast. <i>Steroids</i> , 2001, 66, 49-54.	1.8	24
243	Bayesian Independent Component Analysis Recovers Pathway Signatures from Blood Metabolomics Data. <i>Journal of Proteome Research</i> , 2012, 11, 4120-4131.	3.7	24
244	Nonadditive Effects of Genes in Human Metabolomics. <i>Genetics</i> , 2015, 200, 707-718.	2.9	24
245	Hepatic Steatosis Is Associated With Adverse Molecular Signatures in Subjects Without Diabetes. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2018, 103, 3856-3868.	3.6	24
246	The tissue distribution of porcine 17 β -estradiol dehydrogenase and its induction by progesterone. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 1995, 55, 535-539.	2.5	23
247	Characterization of the human and mouse ETV1/ER81 transcription factor genes: role of the two alternatively spliced isoforms in the human. <i>Oncogene</i> , 1999, 18, 6278-6286.	5.9	23
248	Identification and MS-assisted interpretation of genetically influenced NMR signals in human plasma. <i>Genome Medicine</i> , 2013, 5, 13.	8.2	23
249	Identification of putative biomarkers for type 2 diabetes using metabolomics in the Korea Association REsource (KARE) cohort. <i>Metabolomics</i> , 2016, 12, 1.	3.0	23
250	Cortisol-related metabolic alterations assessed by mass spectrometry assay in patients with Cushing's syndrome. <i>European Journal of Endocrinology</i> , 2017, 177, 227-237.	3.7	23
251	LysoPC-acyl C16:0 is associated with brown adipose tissue activity in men. <i>Metabolomics</i> , 2017, 13, 48.	3.0	23
252	Functional changes of the liver in the absence of growth hormone (GH) action " Proteomic and metabolomic insights from a GH receptor deficient pig model. <i>Molecular Metabolism</i> , 2020, 36, 100978.	6.5	23

#	ARTICLE	IF	CITATIONS
253	Metabolic Signatures of Healthy Lifestyle Patterns and Colorectal Cancer Risk in a European Cohort. <i>Clinical Gastroenterology and Hepatology</i> , 2022, 20, e1061-e1082.	4.4	23
254	IL-6 promoter polymorphisms and quantitative traits related to the metabolic syndrome in KORA S4. <i>Experimental Gerontology</i> , 2006, 41, 737-745.	2.8	22
255	HLX1 gene variants influence the development of childhood asthma. <i>Journal of Allergy and Clinical Immunology</i> , 2009, 123, 82-88.e6.	2.9	22
256	Metabolomics reveals determinants of weight loss during lifestyle intervention in obese children. <i>Metabolomics</i> , 2013, 9, 1157-1167.	3.0	22
257	Structural Optimization of 2,5-Thiophene Amides as Highly Potent and Selective 17 β -Hydroxysteroid Dehydrogenase Type 2 Inhibitors for the Treatment of Osteoporosis. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 167-181.	6.4	22
258	Associations of anthropometric markers with serum metabolites using a targeted metabolomics approach: results of the EPIC-potsdam study. <i>Nutrition and Diabetes</i> , 2016, 6, e215-e215.	3.2	22
259	Absence of 11-keto reduction of cortisone and 11-ketotestosterone in the model organism zebrafish. <i>Journal of Endocrinology</i> , 2017, 232, 323-335.	2.6	22
260	Fetal Serum Metabolites Are Independently Associated with Gestational Diabetes Mellitus. <i>Cellular Physiology and Biochemistry</i> , 2018, 45, 625-638.	1.6	22
261	Discovery of biomarkers for glycaemic deterioration before and after the onset of type 2 diabetes: descriptive characteristics of the epidemiological studies within the IMI DIRECT Consortium. <i>Diabetologia</i> , 2019, 62, 1601-1615.	6.3	22
262	Potential Use of Gluconate in Cancer Therapy. <i>Frontiers in Oncology</i> , 2019, 9, 522.	2.8	22
263	Stiff-man syndrome: identification of 17 β -hydroxysteroid dehydrogenase type 4 as a novel 80-kDa antineuronal antigen. <i>Journal of Neuroimmunology</i> , 2002, 130, 184-193.	2.3	21
264	Plasma Metabolomics Reveal Alterations of Sphingo- and Glycerophospholipid Levels in Non-Diabetic Carriers of the Transcription Factor 7-Like 2 Polymorphism rs7903146. <i>PLoS ONE</i> , 2013, 8, e78430.	2.5	21
265	Associations between thyroid hormones and serum metabolite profiles in an euthyroid population. <i>Metabolomics</i> , 2014, 10, 152-164.	3.0	21
266	Cancer-associated cells release citrate to support tumour metastatic progression. <i>Life Science Alliance</i> , 2021, 4, e202000903.	2.8	21
267	17 β -hydroxysteroid dehydrogenase from the fungus <i>Cochliobolus lunatus</i> : structural and functional aspects. <i>Chemico-Biological Interactions</i> , 2001, 130-132, 793-803.	4.0	20
268	RDH12, a retinol dehydrogenase causing Leber's congenital amaurosis, is also involved in steroid metabolism. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2007, 104, 190-194.	2.5	20
269	Changes in metabolite profiles caused by genetically determined obesity in mice. <i>Metabolomics</i> , 2014, 10, 461-472.	3.0	20
270	Aldo-keto Reductase 1B15 (AKR1B15). <i>Journal of Biological Chemistry</i> , 2015, 290, 6531-6545.	3.4	20

#	ARTICLE	IF	CITATIONS
271	Lactation is associated with altered metabolomic signatures in women with gestational diabetes. <i>Diabetologia</i> , 2016, 59, 2193-2202.	6.3	20
272	Serum metabolomic profiling highlights pathways associated with liver fat content in a general population sample. <i>European Journal of Clinical Nutrition</i> , 2017, 71, 995-1001.	2.9	20
273	Acylcarnitine profiles in serum and muscle of dairy cows receiving conjugated linoleic acids or a control fat supplement during early lactation. <i>Journal of Dairy Science</i> , 2019, 102, 754-767.	3.4	20
274	Trans-right ventricle and transpulmonary metabolite gradients in human pulmonary arterial hypertension. <i>Heart</i> , 2020, 106, 1332-1341.	2.9	20
275	Human 17 β -Hydroxysteroid Dehydrogenase Type 5 is Inhibited by Dietary Flavonoids. <i>Advances in Experimental Medicine and Biology</i> , 2002, 505, 151-161.	1.6	20
276	Molecular expression of 17 β -hydroxysteroid dehydrogenase types in relation to their activity in intact human prostate cancer cells. <i>Molecular and Cellular Endocrinology</i> , 1997, 131, 51-57.	3.2	19
277	Searching for the physiological function of 17 β -hydroxysteroid dehydrogenase from the fungus <i>Cochliobolus lunatus</i> : studies of substrate specificity and expression analysis. <i>Molecular and Cellular Endocrinology</i> , 2001, 171, 193-198.	3.2	19
278	Characterization of 17 β -Hydroxysteroid Dehydrogenase Type 7 in Reproductive Tissues of the Marmoset Monkey. <i>Biology of Reproduction</i> , 2003, 68, 2092-2099.	2.7	19
279	Steroid profiling and analytics: Going towards sterome. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2010, 121, 479-480.	2.5	19
280	Proteomics and Metabolomics as Tools to Unravel Novel Culprits and Mechanisms of Uremic Toxicity: Instrument or Hype?. <i>Seminars in Nephrology</i> , 2014, 34, 180-190.	1.6	19
281	Metabolomic profiling implicates adiponectin as mediator of a favorable lipoprotein profile associated with NT-proBNP. <i>Cardiovascular Diabetology</i> , 2018, 17, 120.	6.8	19
282	Targeted Metabolomics as a Tool in Discriminating Endocrine From Primary Hypertension. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2021, 106, e1111-e1128.	3.6	19
283	Metabolic impact of pheochromocytoma/paraganglioma: targeted metabolomics in patients before and after tumor removal. <i>European Journal of Endocrinology</i> , 2019, 181, 647-657.	3.7	19
284	Significance of individual amino acid residues for coenzyme and substrate specificity of 17 β -hydroxysteroid dehydrogenase from the fungus <i>Cochliobolus lunatus</i> . <i>Chemico-Biological Interactions</i> , 2003, 143-144, 493-501.	4.0	18
285	Coenzyme specificity in fungal 17 β -hydroxysteroid dehydrogenase. <i>Molecular and Cellular Endocrinology</i> , 2005, 241, 80-87.	3.2	18
286	Metabolic Fingerprints of Circulating IGF-1 and the IGF-1/IGFBP-3 Ratio: A Multifluid Metabolomics Study. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2016, 101, 4730-4742.	3.6	18
287	The mitochondrial transporter SLC25A25 links ciliary TRPP2 signaling and cellular metabolism. <i>PLoS Biology</i> , 2018, 16, e2005651.	5.6	18
288	Metabolite Shifts Induced by Marathon Race Competition Differ between Athletes Based on Level of Fitness and Performance: A Substudy of the Enzy-MagIc Study. <i>Metabolites</i> , 2020, 10, 87.	2.9	18

#	ARTICLE	IF	CITATIONS
289	Physiological extremes of the human blood metabolome: A metabolomics analysis of highly glycolytic, oxidative, and anabolic athletes. <i>Physiological Reports</i> , 2021, 9, e14885.	1.7	18
290	Extracellular citrate and metabolic adaptations of cancer cells. <i>Cancer and Metastasis Reviews</i> , 2021, 40, 1073-1091.	5.9	18
291	Assignment of Human 17 β -Hydroxysteroid Dehydrogenase IV to Chromosome 5q2 by Fluorescence in Situ Hybridization. <i>Genomics</i> , 1996, 37, 403-404.	2.9	17
292	Comparative analysis of the genomic organization of Pax9 and its conserved physical association with Nr2f9 in the human, mouse, and pufferfish genomes. <i>Mammalian Genome</i> , 2001, 12, 232-237.	2.2	17
293	Embryonic expression of cholesterologenic genes is restricted to distinct domains and colocalizes with apoptotic regions in mice. <i>Molecular Brain Research</i> , 2003, 115, 87-92.	2.3	17
294	Bioinformatic identification and characterization of new members of short-chain dehydrogenase/reductase superfamily. <i>Molecular and Cellular Endocrinology</i> , 2006, 248, 56-60.	3.2	17
295	Molecular Framework of Steroid/Retinoid Discrimination in 17 β -Hydroxysteroid Dehydrogenase Type 1 and Photoreceptor-associated Retinol Dehydrogenase. <i>Journal of Molecular Biology</i> , 2010, 399, 255-267.	4.2	17
296	Interrogating causal pathways linking genetic variants, small molecule metabolites, and circulating lipids. <i>Genome Medicine</i> , 2014, 6, 25.	8.2	17
297	Endothelin-1 Overexpression Improves Renal Function in eNOS Knockout Mice. <i>Cellular Physiology and Biochemistry</i> , 2015, 37, 1474-1490.	1.6	17
298	Maternal PCaaC38:6 is Associated With Preterm Birth - a Risk Factor for Early and Late Adverse Outcome of the Offspring. <i>Kidney and Blood Pressure Research</i> , 2016, 41, 250-257.	2.0	17
299	Postprandial metabolite profiles associated with type 2 diabetes clearly stratify individuals with impaired fasting glucose. <i>Metabolomics</i> , 2018, 14, 13.	3.0	17
300	A mouse model for intellectual disability caused by mutations in the X-linked 2â€²â€²Oâ€² methyltransferase Ftsj1 gene. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2019, 1865, 2083-2093.	3.8	17
301	Profiles of Glucose Metabolism in Different Prediabetes Phenotypes, Classified by Fasting Glycemia, 2-Hour OGTT, Glycated Hemoglobin, and 1-Hour OGTT: An IMI DIRECT Study. <i>Diabetes</i> , 2021, 70, 2092-2106.	0.6	17
302	Species Used for Drug Testing Reveal Different Inhibition Susceptibility for 17 β -Hydroxysteroid Dehydrogenase Type 1. <i>PLoS ONE</i> , 2010, 5, e10969.	2.5	17
303	Metabolomics for Diagnosis and Prognosis of Uterine Diseases? A Systematic Review. <i>Journal of Personalized Medicine</i> , 2020, 10, 294.	2.5	17
304	The 17 β -oestradiol dehydrogenase of pig endometrial cells is localized in specialized vesicles. <i>Biochemical Journal</i> , 1993, 290, 777-782.	3.7	16
305	Mechanisms of estradiol inactivation in primate endometrium. <i>Molecular and Cellular Endocrinology</i> , 2001, 171, 179-185.	3.2	16
306	Dimerization and enzymatic activity of fungal 17 β -hydroxysteroid dehydrogenase from the short-chain dehydrogenase/reductase superfamily. <i>BMC Biochemistry</i> , 2005, 6, 28.	4.4	16

#	ARTICLE	IF	CITATIONS
307	Human and zebrafish hydroxysteroid dehydrogenase like 1 (HSDL1) proteins are inactive enzymes but conserved among species. <i>Chemico-Biological Interactions</i> , 2009, 178, 197-205.	4.0	16
308	Short-term glucocorticoid treatment increases insulin secretion in islets derived from lean mice through multiple pathways and mechanisms. <i>Molecular and Cellular Endocrinology</i> , 2009, 301, 109-116.	3.2	16
309	Pleiotropic Functions for Transcription Factor Zscan10. <i>PLoS ONE</i> , 2014, 9, e104568.	2.5	16
310	Serum Metabolites Related to Cardiorespiratory Fitness, Physical Activity Energy Expenditure, Sedentary Time and Vigorous Activity. <i>International Journal of Sport Nutrition and Exercise Metabolism</i> , 2014, 24, 215-226.	2.1	16
311	Comparative analysis of plasma metabolomics response to metabolic challenge tests in healthy subjects and influence of the FTO obesity risk allele. <i>Metabolomics</i> , 2014, 10, 386-401.	3.0	16
312	Instability of personal human metabotype is linked to all-cause mortality. <i>Scientific Reports</i> , 2018, 8, 9810.	3.3	16
313	Plasma Metabolomics to Identify and Stratify Patients With Impaired Glucose Tolerance. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2019, 104, 6357-6370.	3.6	16
314	The blood metabolome of incident kidney cancer: A case-control study nested within the MetKid consortium. <i>PLoS Medicine</i> , 2021, 18, e1003786.	8.4	16
315	Processes Underlying Glycemic Deterioration in Type 2 Diabetes: An IMI DIRECT Study. <i>Diabetes Care</i> , 2021, 44, 511-518.	8.6	16
316	Linkage of 17 β -oestradiol dehydrogenase to actin by ϵ -(β -glutamyl)-lysine in porcine endometrial cells. <i>Biochemical Journal</i> , 1993, 296, 797-802.	3.7	15
317	A Functional and Putative Physiological Role of Calcitriol in Patched1/Smoothed Interaction. <i>Journal of Biological Chemistry</i> , 2015, 290, 19614-19628.	3.4	15
318	Immediate reduction of serum citrulline but no change of steroid profile after initiation of metformin in individuals with type 2 diabetes. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2017, 174, 114-119.	2.5	15
319	Characterization of Bulk Phosphatidylcholine Compositions in Human Plasma Using Side-Chain Resolving Lipidomics. <i>Metabolites</i> , 2019, 9, 109.	2.9	15
320	TIGER: technical variation elimination for metabolomics data using ensemble learning architecture. <i>Briefings in Bioinformatics</i> , 2022, 23, .	6.5	15
321	The subcellular localization of 17 β -hydroxysteroid dehydrogenase type 4 and its interaction with actin. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 1995, 55, 617-621.	2.5	14
322	Steroids, fatty acyl-CoA, and sterols are substrates of 80-kDa multifunctional protein. <i>Steroids</i> , 1997, 62, 159-163.	1.8	14
323	Automated workflow-based exploitation of pathway databases provides new insights into genetic associations of metabolite profiles. <i>BMC Genomics</i> , 2013, 14, 865.	2.8	14
324	Treatment with beta-blockers is associated with lower levels of Lp-PLA2 and suPAR in carotid plaques. <i>Cardiovascular Pathology</i> , 2013, 22, 438-443.	1.6	14

#	ARTICLE	IF	CITATIONS
325	Familial Resemblance for Serum Metabolite Concentrations. <i>Twin Research and Human Genetics</i> , 2013, 16, 948-961.	0.6	14
326	Biogenic amines: Concentrations in serum and skeletal muscle from late pregnancy until early lactation in dairy cows with high versus normal body condition score. <i>Journal of Dairy Science</i> , 2019, 102, 6571-6586.	3.4	14
327	Exposure to disinfection byproducts and risk of type 2 diabetes: a nested case-control study in the HUNT and Lifelines cohorts. <i>Metabolomics</i> , 2019, 15, 60.	3.0	14
328	Dual Inhibitory Action of a Novel AKR1C3 Inhibitor on Both Full-Length AR and the Variant AR-V7 in Enzalutamide Resistant Metastatic Castration Resistant Prostate Cancer. <i>Cancers</i> , 2020, 12, 2092.	3.7	14
329	Alterations in the subcellular distribution of 17 β -estradiol dehydrogenase in porcine endometrial cells over the course of the estrous cycle. <i>Cell and Tissue Research</i> , 1994, 278, 227-233.	2.9	13
330	New 17 β -Hydroxysteroid Dehydrogenases. <i>Annals of the New York Academy of Sciences</i> , 1996, 784, 124-136.	3.8	13
331	Functional genome analysis indicates loss of 17 β -hydroxysteroid dehydrogenase type 2 enzyme in the zebrafish. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2007, 103, 35-43.	2.5	13
332	The Epoxyeicosatrienoic Acid Pathway Enhances Hepatic Insulin Signaling and is Repressed in Insulin-Resistant Mouse Liver*. <i>Molecular and Cellular Proteomics</i> , 2015, 14, 2764-2774.	3.8	13
333	The Pharmacogenetic Footprint of ACE Inhibition: A Population-Based Metabolomics Study. <i>PLoS ONE</i> , 2016, 11, e0153163.	2.5	13
334	A network-based conditional genetic association analysis of the human metabolome. <i>GigaScience</i> , 2018, 7, .	6.4	13
335	Ldlr and ApoE mice better mimic the human metabolite signature of increased carotid intima media thickness compared to other animal models of cardiovascular disease. <i>Atherosclerosis</i> , 2018, 276, 140-147.	0.8	13
336	The human metabolic profile reflects macro- and micronutrient intake distinctly according to fasting time. <i>Scientific Reports</i> , 2018, 8, 12262.	3.3	13
337	Night Shift Work Affects Urine Metabolite Profiles of Nurses with Early Chronotype. <i>Metabolites</i> , 2018, 8, 45.	2.9	13
338	LC-MS/MS-Based Metabolomics for Cell Cultures. <i>Methods in Molecular Biology</i> , 2019, 1994, 119-130.	0.9	13
339	Metabolome profiling in skeletal muscle to characterize metabolic alterations in over-conditioned cows during the periparturient period. <i>Journal of Dairy Science</i> , 2020, 103, 3730-3744.	3.4	13
340	DNAm-based signatures of accelerated aging and mortality in blood are associated with low renal function. <i>Clinical Epigenetics</i> , 2021, 13, 121.	4.1	13
341	Assignment of estradiol-17 β dehydrogenase and of estrone reductase to cytoplasmic structures of porcine endometrium cells. <i>European Journal of Endocrinology</i> , 1989, 121, 161-167.	3.7	12
342	Intrinsic sterol- and phosphatidylcholine transfer activities of 17 β -hydroxysteroid dehydrogenase type IV. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 1995, 55, 549-553.	2.5	12

#	ARTICLE	IF	CITATIONS
343	Ligand-based NMR spectra demonstrate an additional phytoestrogen binding site for 17 β -hydroxysteroid dehydrogenase type 1. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2009, 117, 93-98.	2.5	12
344	Eukaryotic GCP1 is a conserved mitochondrial protein required for progression of embryo development beyond the globular stage in <i>Arabidopsis thaliana</i> . <i>Biochemical Journal</i> , 2009, 423, 333-341.	3.7	12
345	A common atopy-associated variant in the Th2 cytokine locus control region impacts transcriptional regulation and alters <i>SMAD3</i> and <i>SP1</i> binding. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2014, 69, 632-642.	5.7	12
346	New Insights into Human 17 β -Hydroxysteroid Dehydrogenase Type 14: First Crystal Structures in Complex with a Steroidal Ligand and with a Potent Nonsteroidal Inhibitor. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 6961-6967.	6.4	12
347	First Structure-Activity Relationship of 17 β -Hydroxysteroid Dehydrogenase Type 14 Nonsteroidal Inhibitors and Crystal Structures in Complex with the Enzyme. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 10719-10737.	6.4	12
348	Recommendations for description and validation of antibodies for research use. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2016, 156, 40-42.	2.5	12
349	Serum Response Factor (SRF) Ablation Interferes with Acute Stress-Associated Immediate and Long-Term Coping Mechanisms. <i>Molecular Neurobiology</i> , 2017, 54, 8242-8262.	4.0	12
350	Genetic variants including markers from the exome chip and metabolite traits of type 2 diabetes. <i>Scientific Reports</i> , 2017, 7, 6037.	3.3	12
351	Sex-specific metabolic profiles of androgens and its main binding protein SHBG in a middle aged population without diabetes. <i>Scientific Reports</i> , 2017, 7, 2235.	3.3	12
352	A Thyroid Hormone-Independent Molecular Fingerprint of 3,5-Diiodothyronine Suggests a Strong Relationship with Coffee Metabolism in Humans. <i>Thyroid</i> , 2019, 29, 1743-1754.	4.5	12
353	The role of physical activity in metabolic homeostasis before and after the onset of type 2 diabetes: an IMI DIRECT study. <i>Diabetologia</i> , 2020, 63, 744-756.	6.3	12
354	Sex hormone-binding globulin, androgens and mortality: the KORA-F4 cohort study. <i>Endocrine Connections</i> , 2020, 9, 326-336.	1.9	12
355	Isolation of vesicles mediating the conversion of 17 beta-estradiol to estrone. <i>European Journal of Cell Biology</i> , 1991, 54, 166-70.	3.6	12
356	Isopentenyl-Diphosphate Isomerases in Human and Mouse: Evolutionary Analysis of a Mammalian Gene Duplication. <i>Journal of Molecular Evolution</i> , 2003, 57, 282-291.	1.8	11
357	Functional aspects of 17beta-hydroxysteroid dehydrogenase 1 determined by comparison to a closely related retinol dehydrogenase. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2007, 104, 334-339.	2.5	11
358	FLT3-regulated antigens as targets for leukemia-reactive cytotoxic T lymphocytes. <i>Blood Cancer Journal</i> , 2011, 1, e11-e11.	6.2	11
359	Huge Splicing Frequency in Human Y Chromosomal <i>UTY</i> Gene. <i>OMICS A Journal of Integrative Biology</i> , 2011, 15, 141-154.	2.0	11
360	Fgf9 Y162C Mutation Alters Information Processing and Social Memory in Mice. <i>Molecular Neurobiology</i> , 2018, 55, 4580-4595.	4.0	11

#	ARTICLE	IF	CITATIONS
361	Bis-choline tetrathiomolybdate prevents copper-induced blood-brain barrier damage. <i>Life Science Alliance</i> , 2022, 5, e202101164.	2.8	11
362	Circulating Metabolites Associate With and Improve the Prediction of All-Cause Mortality in Type 2 Diabetes. <i>Diabetes</i> , 2022, 71, 1363-1370.	0.6	11
363	Promoter analyses of human and mouse 17 β -hydroxysteroid dehydrogenase type 7. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2005, 94, 259-261.	2.5	10
364	Analysis of the 5' flanking regions of human and murine HSD17B7: Identification of a cholesterol dependent enhancer region. <i>Molecular and Cellular Endocrinology</i> , 2006, 248, 164-167.	3.2	10
365	Fourteenth Workshop on Vitamin D. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2010, 121, 1-3.	2.5	10
366	Mild maternal hyperglycemia in <i>INS</i> C93S transgenic pigs causes impaired glucose tolerance and metabolic alterations in neonatal offspring. <i>DMM Disease Models and Mechanisms</i> , 2019, 12, .	2.4	10
367	Finding New Molecular Targets of Familiar Natural Products Using In Silico Target Prediction. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7102.	4.1	10
368	Validation of Candidate Phospholipid Biomarkers of Chronic Kidney Disease in Hyperglycemic Individuals and Their Organ-Specific Exploration in Leptin Receptor-Deficient db/db Mouse. <i>Metabolites</i> , 2021, 11, 89.	2.9	10
369	Common Muscle Metabolic Signatures Highlight Arginine and Lysine Metabolism as Potential Therapeutic Targets to Combat Unhealthy Aging. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7958.	4.1	10
370	17 β -Hydroxysteroid Dehydrogenase Activity Correlates with the Type-2 17 β -Hydroxysteroid Dehydrogenase mRNA Abundance in Human Meningioma Tumors. <i>Neuroendocrinology</i> , 1996, 64, 70-78.	2.5	9
371	Peroxisomes Contain an Enzyme with 17 β -Estradiol Dehydrogenase, Fatty Acid Hydratase/Dehydrogenase, and Sterol Carrier Activity. <i>Annals of the New York Academy of Sciences</i> , 1996, 804, 691-693.	3.8	9
372	His164 regulates accessibility to the active site in fungal 17 β -hydroxysteroid dehydrogenase. <i>Biochimie</i> , 2007, 89, 63-71.	2.6	9
373	Combined Liquid Chromatography-Tandem Mass Spectrometry Analysis of Progesterone Metabolites. <i>PLoS ONE</i> , 2015, 10, e0117984.	2.5	9
374	Structure-based design and profiling of novel 17 β -HSD14 inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2018, 155, 61-76.	5.5	9
375	Comparison of metabolite networks from four German population-based studies. <i>International Journal of Epidemiology</i> , 2018, 47, 2070-2081.	1.9	9
376	Mammalian target of rapamycin signaling and ubiquitin-proteasome-related gene expression in skeletal muscle of dairy cows with high or normal body condition score around calving. <i>Journal of Dairy Science</i> , 2019, 102, 11544-11560.	3.4	9
377	Associations between usual food intake and faecal sterols and bile acids: results from the Cooperative Health Research in the Augsburg Region (KORA FF4) study. <i>British Journal of Nutrition</i> , 2019, 122, 309-321.	2.3	9
378	Metabolomics signature associated with circulating serum selenoprotein P levels. <i>Endocrine</i> , 2019, 64, 486-495.	2.3	9

#	ARTICLE	IF	CITATIONS
379	Lipidomic Phenotyping Reveals Extensive Lipid Remodeling during Adipogenesis in Human Adipocytes. <i>Metabolites</i> , 2020, 10, 217.	2.9	9
380	Alterations of the acylcarnitine profiles in blood serum and in muscle from periparturient cows with normal or elevated body condition. <i>Journal of Dairy Science</i> , 2020, 103, 4777-4794.	3.4	9
381	Associations between adipose tissue volume and small molecules in plasma and urine among asymptomatic subjects from the general population. <i>Scientific Reports</i> , 2020, 10, 1487.	3.3	9
382	Substrate multispecificity among 20 β -hydroxysteroid dehydrogenase type 2 members. <i>Molecular and Cellular Endocrinology</i> , 2020, 510, 110822.	3.2	9
383	The Pathologic Effect of a Novel Neomorphic Fgf9Y162C Allele Is Restricted to Decreased Vision and Retarded Lens Growth. <i>PLoS ONE</i> , 2011, 6, e23678.	2.5	9
384	The First Scube3 Mutant Mouse Line with Pleiotropic Phenotypic Alterations. <i>G3: Genes, Genomes, Genetics</i> , 2016, 6, 4035-4046.	1.8	9
385	Effects of Acute and Chronic Resistance Exercise on the Skeletal Muscle Metabolome. <i>Metabolites</i> , 2022, 12, 445.	2.9	9
386	In silico Northern blot, an automated method to determine expression patterns from EST databases, reveals tissue specificity of murine 17 β -hydroxysteroid dehydrogenase type 11. <i>Molecular and Cellular Endocrinology</i> , 2006, 248, 242-245.	3.2	8
387	Response to Comment on Xu et al. Effects of Metformin on Metabolite Profiles and LDL Cholesterol in Patients With Type 2 Diabetes. <i>Diabetes Care</i> 2015;38:1858-1867. <i>Diabetes Care</i> , 2015, 38, e216-e217.	8.6	8
388	Comprehensive Metabolic Profiling Reveals a Lipid-Rich Fingerprint of Free Thyroxine Far Beyond Classic Parameters. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2018, 103, 2050-2060.	3.6	8
389	Associations between fecal bile acids, neutral sterols, and serum lipids in the KORA FF4 study. <i>Atherosclerosis</i> , 2019, 288, 1-8.	0.8	8
390	Whole blood co-expression modules associate with metabolic traits and type 2 diabetes: an IMI-DIRECT study. <i>Genome Medicine</i> , 2020, 12, 109.	8.2	8
391	Mendelian Randomization Study on Amino Acid Metabolism Suggests Tyrosine as Causal Trait for Type 2 Diabetes. <i>Nutrients</i> , 2020, 12, 3890.	4.1	8
392	Proteasome activity and expression of mammalian target of rapamycin signaling factors in skeletal muscle of dairy cows supplemented with conjugated linoleic acids during early lactation. <i>Journal of Dairy Science</i> , 2020, 103, 2829-2846.	3.4	8
393	Human and mouse non-targeted metabolomics identify 1,5-anhydroglucitol as SGLT2-dependent glycemic marker. <i>Clinical and Translational Medicine</i> , 2021, 11, e470.	4.0	8
394	Diagnosing Fatty Liver Disease: A Comparative Evaluation of Metabolic Markers, Phenotypes, Genotypes and Established Biomarkers. <i>PLoS ONE</i> , 2013, 8, e76813.	2.5	8
395	Harvesting and separation of two populations of lysosomes from porcine endometrium. <i>European Journal of Cell Biology</i> , 1988, 45, 238-45.	3.6	8
396	Evidence for interference in estradiol-17 β inactivation to estrone by oxidized low-density lipoprotein and selected lipid peroxidation products. <i>Translational Research</i> , 1999, 134, 253-259.	2.3	7

#	ARTICLE	IF	CITATIONS
397	Expression and regulation of 17 β -hydroxysteroid dehydrogenase 7 in the rabbit. <i>Molecular and Cellular Endocrinology</i> , 2001, 171, 169-177.	3.2	7
398	Functional analysis of cholesterol biosynthesis by RNA interference. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2007, 104, 105-109.	2.5	7
399	Liver lipid metabolism is altered by increased circulating estrogen to androgen ratio in male mouse. <i>Journal of Proteomics</i> , 2016, 133, 66-75.	2.4	7
400	Initial characterization of human DHRS1 (SDR19C1), a member of the short-chain dehydrogenase/reductase superfamily. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2019, 185, 80-89.	2.5	7
401	Engineering aldo-keto reductase 1B10 to mimic the distinct 1B15 topology and specificity towards inhibitors and substrates, including retinoids and steroids. <i>Chemico-Biological Interactions</i> , 2019, 307, 186-194.	4.0	7
402	Mouse Age Matters: How Age Affects the Murine Plasma Metabolome. <i>Metabolites</i> , 2020, 10, 472.	2.9	7
403	Intergenerational Metabolomic Analysis of Mothers with a History of Gestational Diabetes Mellitus and Their Offspring. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9647.	4.1	7
404	Cross-sectional and prospective relationships of endogenous progestogens and estrogens with glucose metabolism in men and women: a KORA F4/FF4 Study. <i>BMJ Open Diabetes Research and Care</i> , 2021, 9, e001951.	2.8	7
405	Plasma Metabolome Profiling for the Diagnosis of Catecholamine Producing Tumors. <i>Frontiers in Endocrinology</i> , 2021, 12, 722656.	3.5	7
406	Evaluation of Metabolic Profiles of Patients with Anorexia Nervosa at Inpatient Admission, Short- and Long-Term Weight Regain—Descriptive and Pattern Analysis. <i>Metabolites</i> , 2021, 11, 7.	2.9	7
407	Comparison of predicted and experimental subcellular localization of two putative rat steroid dehydrogenases from the short-chain dehydrogenase/reductase protein superfamily. <i>Molecular and Cellular Endocrinology</i> , 2009, 301, 43-46.	3.2	6
408	Metabolomic Signature of Coronary Artery Disease in Type 2 Diabetes Mellitus. <i>International Journal of Endocrinology</i> , 2017, 2017, 1-9.	1.5	6
409	It is high time to discontinue use of misidentified and contaminated cells: Guidelines for description and authentication of cell lines. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2018, 182, 1-3.	2.5	6
410	Paramount importance of sample quality in pre-clinical and clinical research—Need for standard operating procedures (SOPs). <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2019, 186, 1-3.	2.5	6
411	Induction of the nicotinamide riboside kinase NAD ⁺ salvage pathway in a model of sarcoplasmic reticulum dysfunction. <i>Skeletal Muscle</i> , 2020, 10, 5.	4.2	6
412	Impact of maternal smoking associated lyso-phosphatidylcholine 20:3 on offspring brain development. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2020, 199, 105591.	2.5	6
413	Assay Tools for Metabolomics. , 2012, , 13-38.		6
414	Non-targeted metabolomics identify polyamine metabolite acisoga as novel biomarker for reduced left ventricular function. <i>ESC Heart Failure</i> , 2022, 9, 564-573.	3.1	6

#	ARTICLE	IF	CITATIONS
415	Blood and adipose tissue steroid metabolomics and mRNA expression of steroidogenic enzymes in periparturient dairy cows differing in body condition. <i>Scientific Reports</i> , 2022, 12, 2297.	3.3	6
416	The membrane-bound 17 β -estradiol dehydrogenase of porcine endometrial cells: Purification, characterization and subcellular localization. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 1992, 43, 1089-1093.	2.5	5
417	Metabolic signature associated with parameters of the complete blood count in apparently healthy individuals. <i>Journal of Cellular and Molecular Medicine</i> , 2019, 23, 5144-5153.	3.6	5
418	Potential Involvement of Extracellular Citrate in Brain Tumor Progression. <i>Current Molecular Medicine</i> , 2022, 22, 506-513.	1.3	5
419	Posterior subcapsular cataracts are a late effect after acute exposure to 0.5 α %Gy ionizing radiation in mice. <i>International Journal of Radiation Biology</i> , 2021, 97, 529-540.	1.8	5
420	Quantification of steroids in human and mouse plasma using online solid phase extraction coupled to liquid chromatography tandem mass spectrometry. <i>Protocol Exchange</i> , 0, , .	0.3	5
421	Specific Metabolic Markers Are Associated with Future Waist-Gaining Phenotype in Women. <i>PLoS ONE</i> , 2016, 11, e0157733.	2.5	5
422	Bezafibrate Reduces Elevated Hepatic Fumarate in Insulin-Deficient Mice. <i>Biomedicines</i> , 2022, 10, 616.	3.2	5
423	Characterization of estrone hydroxylase activities in porcine endometrial cells. <i>Experimental and Clinical Endocrinology and Diabetes</i> , 1994, 102, 388-393.	1.2	4
424	IKK β controls canonical TGF β 2 α SMAD signaling to regulate genes expressing SNAIL and SLUG during EMT in Panc1 cells. <i>Journal of Cell Science</i> , 2013, 126, 2747-2747.	2.0	4
425	Cinnamon: does it hold its promises in cows? Using non-targeted blood serum metabolomics profiling to test the effects of feeding cinnamon to dairy cows undergoing lactation-induced insulin resistance. <i>Metabolomics</i> , 2017, 13, 1.	3.0	4
426	Characterization of AKR1B16, a novel mouse aldo-keto reductase. <i>Chemico-Biological Interactions</i> , 2017, 276, 182-193.	4.0	4
427	Neutral endopeptidase inhibitors blunt kidney fibrosis by reducing myofibroblast formation. <i>Clinical Science</i> , 2019, 133, 239-252.	4.3	4
428	Targeted assessment of the metabolome in skeletal muscle and in serum of dairy cows supplemented with conjugated linoleic acid during early lactation. <i>Journal of Dairy Science</i> , 2021, 104, 5095-5109.	3.4	4
429	Fibroblast growth factor induced <i>Ucp1</i> expression in preadipocytes requires PGE2 biosynthesis and glycolytic flux. <i>FASEB Journal</i> , 2021, 35, e21572.	0.5	4
430	Correlation guided Network Integration (CoNI) reveals novel genes affecting hepatic metabolism. <i>Molecular Metabolism</i> , 2021, 53, 101295.	6.5	4
431	Introduction to the workshop on the molecular and cell biology of hydroxysteroid dehydrogenases. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 1995, 55, 445-446.	2.5	3
432	Interspecies comparison of gene structure and computational analysis of gene regulation of 17 β -hydroxysteroid dehydrogenase type 1. <i>Molecular and Cellular Endocrinology</i> , 2006, 248, 168-171.	3.2	3

#	ARTICLE	IF	CITATIONS
433	Perspectives in steroid research. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2015, 153, 1-2.	2.5	3
434	Physiological changes due to mild cooling in healthy lean males of white Caucasian and South Asian descent: A metabolomics study. <i>Archives of Biochemistry and Biophysics</i> , 2016, 589, 152-157.	3.0	3
435	Molecular Fingerprints of Iron Parameters among a Population-Based Sample. <i>Nutrients</i> , 2018, 10, 1800.	4.1	3
436	The search for predictive metabolic biomarkers for incident T2DM. <i>Nature Reviews Endocrinology</i> , 2018, 14, 444-446.	9.6	3
437	Dietary metabolite profiling brings new insight into the relationship between nutrition and metabolic risk: An IMI DIRECT study. <i>EBioMedicine</i> , 2020, 58, 102932.	6.1	3
438	Confounders in metabolomics. , 2020, , 17-32.		3
439	Physiological relevance of the neuronal isoform of inositol-1,4,5-trisphosphate 3-kinases in mice. <i>Neuroscience Letters</i> , 2020, 735, 135206.	2.1	3
440	Homology modeling meets site-directed mutagenesis: An ideal combination to elucidate the topology of 17 β -HSD2. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2021, 206, 105790.	2.5	3
441	Pre- versus post-operative untargeted plasma nuclear magnetic resonance spectroscopy metabolomics of pheochromocytoma and paraganglioma. <i>Endocrine</i> , 2022, 75, 254-265.	2.3	3
442	Skeletal Muscle Metabolomics for Metabolic Phenotyping and Biomarker Discovery. , 2019, , 193-217.		3
443	A study of the freezing of water in human uterine muscle by proton magnetic resonance. <i>Magnetic Resonance Imaging</i> , 1985, 3, 125-130.	1.8	2
444	The German Mouse Clinic "Running an Open Access Platform. , 2011, , 11-44.		2
445	Diagnostic and Prognostic Metabolites Identified for Joint Symptoms in the KORA Population. <i>Journal of Proteome Research</i> , 2016, 15, 554-562.	3.7	2
446	Circulating steroid levels as correlates of adipose tissue phenotype in premenopausal women. <i>Hormone Molecular Biology and Clinical Investigation</i> , 2018, 34, .	0.7	2
447	Time-resolved phosphoproteomic analysis elucidates hepatic 11,12-Epoxyeicosatrienoic acid signaling pathways. <i>Prostaglandins and Other Lipid Mediators</i> , 2020, 146, 106387.	1.9	2
448	Introduction to metabolomics. , 2020, , 1-15.		2
449	Pre-receptor steroid metabolism as target for pharmacological treatment. <i>Molecular and Cellular Endocrinology</i> , 2009, 301, 1.	3.2	1
450	Genetic variants in the GATA3 gene are not associated with asthma and atopic diseases in German children. <i>Journal of Allergy and Clinical Immunology</i> , 2009, 123, 1179-1181.	2.9	1

#	ARTICLE	IF	CITATIONS
451	Integration of steroid research: Perspectives on environment factors, homeostasis in health, and disease treatment. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2011, 126, e1-e4.	2.5	1
452	Mouse Genetics and Metabolic Mouse Phenotyping. , 2012, , 85-106.		1
453	Guest Editorial: Special issue on metabolomics. <i>Archives of Biochemistry and Biophysics</i> , 2016, 589, 1-3.	3.0	1
454	Response to Comment on Adam et al. Metformin Effect on Nontargeted Metabolite Profiles in Patients With Type 2 Diabetes and in Multiple Murine Tissues. <i>Diabetes</i> 2016;65:3776â€“3785. <i>Diabetes</i> , 2017, 66, e3-e4.	0.6	1
455	pulver: an R package for parallel ultra-rapid p-value computation for linear regression interaction terms. <i>BMC Bioinformatics</i> , 2017, 18, 429.	2.6	1
456	Investigation of Adiposity Measures and Operational Taxonomic unit (OTU) Data Transformation Procedures in Stool Samples from a German Cohort Study Using Machine Learning Algorithms. <i>Microorganisms</i> , 2020, 8, 547.	3.6	1
457	The Effect of Dietary Protein Imbalance during Pregnancy on the Growth, Metabolism and Circulatory Metabolome of Neonatal and Weaned Juvenile Porcine Offspring. <i>Nutrients</i> , 2021, 13, 3286.	4.1	1
458	Lokale Aktivierung und Inaktivierung der Steroidhormone, insbesondere der Sexualhormone. , 2006, , 545-560.		1
459	Mission to steroids. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2009, 113, 1-2.	2.5	0
460	Functional characterization of two 20 ¹² -hydroxysteroid dehydrogenase type 2 homeologs from <i>Xenopus laevis</i> reveals multispecificity. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2021, 210, 105874.	2.5	0
461	IKK \pm controls canonical TGF β ² -SMAD signaling to regulate genes expressing SNAIL and SLUG during EMT in Panc1 cells. <i>Development (Cambridge)</i> , 2011, 138, e0107-e0107.	2.5	0
462	Comprehensive metabolic characterization of serum osteocalcin action in a large non-diabetic sample. <i>PLoS ONE</i> , 2017, 12, e0184721.	2.5	0
463	Multi-Omics Insights into Functional Alterations of the Liver in Insulin-Deficient Diabetes Mellitus. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
464	Title is missing!. , 2020, 17, e1003149.		0
465	Title is missing!. , 2020, 17, e1003149.		0
466	Title is missing!. , 2020, 17, e1003149.		0
467	Title is missing!. , 2020, 17, e1003149.		0
468	Title is missing!. , 2020, 17, e1003149.		0