

Jerzy Adamski

List of Publications by Year in descending order

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Version: 2024-02-01

468
papers

28,218
citations

5268

83
h-index

9103

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

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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

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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

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55	Gene Structure and Regulation of the Murine Epithelial Calcium Channels ECaC1 and 2. Biochemical and Biophysical Research Communications, 2001, 289, 1287-1294.	2.1	118
56	Metabolites associate with kidney function decline and incident chronic kidney disease in the general population. Nephrology Dialysis Transplantation, 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. Circulation, 2017, 136, 969-972.	1.6	114
58	Long-Term Stability of Human Plasma Metabolites during Storage at $\sim 80^{\circ}\text{C}$. Journal of Proteome Research, 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. Journal of Cell Science, 2010, 123, 4231-4239.	2.0	113
60	Targeted metabolomics profiles are strongly correlated with nutritional patterns in women. Metabolomics, 2013, 9, 506-514.	3.0	110
61	Serum Metabolite Concentrations and Decreased GFR in the General Population. American Journal of Kidney Diseases, 2012, 60, 197-206.	1.9	108
62	Discovery of phosphatidylcholines and sphingomyelins as biomarkers for ovarian endometriosis. Human Reproduction, 2012, 27, 2955-2965.	0.9	108
63	Variation of serum metabolites related to habitual diet: a targeted metabolomic approach in EPIC-Potsdam. European Journal of Clinical Nutrition, 2013, 67, 1100-1108.	2.9	108
64	Vitamin D signaling is modulated on multiple levels in health and disease. Molecular and Cellular Endocrinology, 2006, 248, 149-159.	3.2	107
65	Zebrafish and steroids: What do we know and what do we need to know?. Journal of Steroid Biochemistry and Molecular Biology, 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. Human Molecular Genetics, 2016, 25, ddw334.	2.9	107
67	Metabolic Profiling Reveals Distinct Variations Linked to Nicotine Consumption in Humans – First Results from the KORA Study. PLoS ONE, 2008, 3, e3863.	2.5	107
68	Porcine 80-kDa Protein Reveals Intrinsic 17 β -Hydroxysteroid Dehydrogenase, Fatty Acyl-CoA-hydratase/Dehydrogenase, and Sterol Transfer Activities. Journal of Biological Chemistry, 1996, 271, 5438-5442.	3.4	105
69	Metabolomics platforms for genome wide association studies – linking the genome to the metabolome. Current Opinion in Biotechnology, 2013, 24, 39-47.	6.6	105
70	Peroxisomal Bifunctional Protein Deficiency Revisited: Resolution of Its True Enzymatic and Molecular Basis. American Journal of Human Genetics, 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. FEBS Letters, 1999, 460, 373-379.	2.8	104
72	Alterations of plasma metabolite profiles related to adipose tissue distribution and cardiometabolic risk. American Journal of Physiology - Endocrinology and Metabolism, 2015, 309, E736-E746.	3.5	104

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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 17 β -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. PLoS ONE, 2013, 8, e55694.	2.5	81
92	Structural and biochemical characterization of human orphan DHRS10 reveals a novel cytosolic enzyme with steroid dehydrogenase activity. Biochemical Journal, 2007, 402, 419-427.	3.7	79
93	Alcohol-induced metabolomic differences in humans. Translational Psychiatry, 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. Journal of Molecular Endocrinology, 1999, 22, 227-240.	2.5	76
95	Questionnaire-based self-reported nutrition habits associate with serum metabolism as revealed by quantitative targeted metabolomics. European Journal of Epidemiology, 2011, 26, 145-156.	5.7	74
96	Changes in the serum metabolite profile in obese children with weight loss. European Journal of Nutrition, 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. Hypertension, 2016, 68, 471-477.	2.7	73
98	Association of Atopic Dermatitis with Cardiovascular Risk Factors and Diseases. Journal of Investigative Dermatology, 2017, 137, 1074-1081.	0.7	73
99	Metabolomics approach reveals effects of antihypertensives and lipid-lowering drugs on the human metabolism. European Journal of Epidemiology, 2014, 29, 325-336.	5.7	72
100	High-throughput extraction and quantification method for targeted metabolomics in murine tissues. Metabolomics, 2018, 14, 18.	3.0	72
101	Purification and properties of oestradiol 17 β -dehydrogenase extracted from cytoplasmic vesicles of porcine endometrial cells. Biochemical Journal, 1992, 288, 375-381.	3.7	71
102	Identification and characterization of 17 β -hydroxysteroid dehydrogenases in the zebrafish, Danio rerio. Molecular and Cellular Endocrinology, 2004, 215, 19-30.	3.2	70
103	Integrative genetic and metabolite profiling analysis suggests altered phosphatidylcholine metabolism in asthma. Allergy: European Journal of Allergy and Clinical Immunology, 2013, 68, 629-636.	5.7	70
104	Systemic First-Line Phenotyping. Methods in Molecular Biology, 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. Molecular Endocrinology, 2002, 16, 1524-1537.	3.7	69
106	Genetic Influences on Metabolite Levels: A Comparison across Metabolomic Platforms. PLoS ONE, 2016, 11, e0153672.	2.5	69
107	A novel 17 β -hydroxysteroid dehydrogenase in the fungus Cochliobolus lunatus: new insights into the evolution of steroid-hormone signalling. Biochemical Journal, 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. International Journal of Epidemiology, 2016, 45, 1406-1420.	1.9	67

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109	APOA5 variants and metabolic syndrome in Caucasians. Journal of Lipid Research, 2007, 48, 2614-2621.	4.2	66
110	A common FADS2 promoter polymorphism increases promoter activity and facilitates binding of transcription factor ELK1. Journal of Lipid Research, 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. Analytical Chemistry, 2019, 91, 14407-14416.	6.5	66
112	Genome-wide association studies with metabolomics. Genome Medicine, 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 , ,. American Journal of Clinical Nutrition, 2014, 100, 891-900.	4.7	63
114	Metabolic switch during adipogenesis: From branched chain amino acid catabolism to lipid synthesis. Archives of Biochemistry and Biophysics, 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. European Journal of Epidemiology, 2018, 33, 55-66.	5.7	63
116	Cytochrome c oxidase subunit 4 isoform 2 knockout mice show reduced enzyme activity, airway hyporeactivity, and lung pathology. FASEB Journal, 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. Metabolomics, 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. Journal of Pathology, 2002, 197, 293-297.	4.5	60
119	Characterization of Human DHRS6, an Orphan Short Chain Dehydrogenase/Reductase Enzyme. Journal of Biological Chemistry, 2006, 281, 10291-10297.	3.4	60
120	Identification of biomarkers for apoptosis in cancer cell lines using metabolomics: tools for individualized medicine. Journal of Internal Medicine, 2013, 274, 425-439.	6.0	60
121	Local estradiol metabolism in osteoblast- and osteoclast-like cells. Journal of Steroid Biochemistry and Molecular Biology, 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 CRYBB2 Gene. , 2004, 45, 3599.		59
123	Extracellular Citrate Affects Critical Elements of Cancer Cell Metabolism and Supports Cancer Development <i>In Vivo</i>. Cancer Research, 2018, 78, 2513-2523.	0.9	59
124	The Saliva Metabolome in Association to Oral Health Status. Journal of Dental Research, 2019, 98, 642-651.	5.2	59
125	Long term conservation of human metabolic phenotypes and link to heritability. Metabolomics, 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. Molecular and Cellular Endocrinology, 1994, 104, 127-131.	3.2	56

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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 <i>HIC1</i> , 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

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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 α - <i>find-me</i> TM 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>nitrosourea</i> -induced mutation in <i>phospholipase Cβ2</i> 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>CYP450</i> in the mouse adrenal gland— <i>involvement of cAMP-responsive element modulator in epigenetic regulation of 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 Monkey1. <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 Nkx2-9 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 17 β -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 bloodâ€‘brain barrier damage. Life Science Alliance, 2022, 5, e202101164.	2.8	11
362	Circulating Metabolites Associate With and Improve the Prediction of All-Cause Mortality in Type 2 Diabetes. Diabetes, 2022, 71, 1363-1370.	0.6	11
363	Promoter analyses of human and mouse 17beta-hydroxysteroid dehydrogenase type 7. Journal of Steroid Biochemistry and Molecular Biology, 2005, 94, 259-261.	2.5	10
364	Analysis of the 5â€² flanking regions of human and murine HSD17B7: Identification of a cholesterol dependent enhancer region. Molecular and Cellular Endocrinology, 2006, 248, 164-167.	3.2	10
365	Fourteenth Workshop on Vitamin D. Journal of Steroid Biochemistry and Molecular Biology, 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. DMM Disease Models and Mechanisms, 2019, 12, .	2.4	10
367	Finding New Molecular Targets of Familiar Natural Products Using In Silico Target Prediction. International Journal of Molecular Sciences, 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. Metabolites, 2021, 11, 89.	2.9	10
369	Common Muscle Metabolic Signatures Highlight Arginine and Lysine Metabolism as Potential Therapeutic Targets to Combat Unhealthy Aging. International Journal of Molecular Sciences, 2021, 22, 7958.	4.1	10
370	17Î²-Hydroxysteroid Dehydrogenase Activity Correlates with the Type-2 17Î²-Hydroxysteroid Dehydrogenase mRNA Abundance in Human Meningioma Tumors. Neuroendocrinology, 1996, 64, 70-78.	2.5	9
371	Peroxisomes Contain an Enzyme with 17Î²-Estradiol Dehydrogenase, Fatty Acid Hydratase/Dehydrogenase, and Sterol Carrier Activity. Annals of the New York Academy of Sciences, 1996, 804, 691-693.	3.8	9
372	His164 regulates accessibility to the active site in fungal 17Î²-hydroxysteroid dehydrogenase. Biochimie, 2007, 89, 63-71.	2.6	9
373	Combined Liquid Chromatographyâ€‘Tandem Mass Spectrometry Analysis of Progesterone Metabolites. PLoS ONE, 2015, 10, e0117984.	2.5	9
374	Structure-based design and profiling of novel 17Î²-HSD14 inhibitors. European Journal of Medicinal Chemistry, 2018, 155, 61-76.	5.5	9
375	Comparison of metabolite networks from four German population-based studies. International Journal of Epidemiology, 2018, 47, 2070-2081.	1.9	9
376	Mammalian target of rapamycin signaling and ubiquitin-proteasomeâ€‘related gene expression in skeletal muscle of dairy cows with high or normal body condition score around calving. Journal of Dairy Science, 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. British Journal of Nutrition, 2019, 122, 309-321.	2.3	9
378	Metabolomics signature associated with circulating serum selenoprotein P levels. Endocrine, 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 17Î²-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 0.5â€‰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	IKKÎ± controls canonical TGFÎ²â€™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 17beta-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. Journal of Steroid Biochemistry and Molecular Biology, 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. Archives of Biochemistry and Biophysics, 2016, 589, 152-157.	3.0	3
435	Molecular Fingerprints of Iron Parameters among a Population-Based Sample. Nutrients, 2018, 10, 1800.	4.1	3
436	The search for predictive metabolic biomarkers for incident T2DM. Nature Reviews Endocrinology, 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. EBioMedicine, 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. Neuroscience Letters, 2020, 735, 135206.	2.1	3
440	Homology modeling meets site-directed mutagenesis: An ideal combination to elucidate the topology of 17 β -HSD2. Journal of Steroid Biochemistry and Molecular Biology, 2021, 206, 105790.	2.5	3
441	Pre- versus post-operative untargeted plasma nuclear magnetic resonance spectroscopy metabolomics of pheochromocytoma and paraganglioma. Endocrine, 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. Magnetic Resonance Imaging, 1985, 3, 125-130.	1.8	2
444	The German Mouse Clinic â€œ Running an Open Access Platform. , 2011, , 11-44.		2
445	Diagnostic and Prognostic Metabolites Identified for Joint Symptoms in the KORA Population. Journal of Proteome Research, 2016, 15, 554-562.	3.7	2
446	Circulating steroid levels as correlates of adipose tissue phenotype in premenopausal women. Hormone Molecular Biology and Clinical Investigation, 2018, 34, .	0.7	2
447	Time-resolved phosphoproteomic analysis elucidates hepatic 11,12-Epoxyeicosatrienoic acid signaling pathways. Prostaglandins and Other Lipid Mediators, 2020, 146, 106387.	1.9	2
448	Introduction to metabolomics. , 2020, , 1-15.		2
449	Pre-receptor steroid metabolism as target for pharmacological treatment. Molecular and Cellular Endocrinology, 2009, 301, 1.	3.2	1
450	Genetic variants in the GATA3 gene are not associated with asthma and atopic diseases in German children. Journal of Allergy and Clinical Immunology, 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. Journal of Steroid Biochemistry and Molecular Biology, 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. Archives of Biochemistry and Biophysics, 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. Diabetes 2016;65:3776â€“3785. Diabetes, 2017, 66, e3-e4.	0.6	1
455	pulver: an R package for parallel ultra-rapid p-value computation for linear regression interaction terms. BMC Bioinformatics, 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. Microorganisms, 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. Nutrients, 2021, 13, 3286.	4.1	1
458	Lokale Aktivierung und Inaktivierung der Steroidhormone, insbesondere der Sexualhormone. , 2006, , 545-560.		1
459	Mission to steroids. Journal of Steroid Biochemistry and Molecular Biology, 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. Journal of Steroid Biochemistry and Molecular Biology, 2021, 210, 105874.	2.5	0
461	IKK β controls canonical TGF β ² -SMAD signaling to regulate genes expressing SNAIL and SLUG during EMT in Panc1 cells. Development (Cambridge), 2011, 138, e0107-e0107.	2.5	0
462	Comprehensive metabolic characterization of serum osteocalcin action in a large non-diabetic sample. PLoS ONE, 2017, 12, e0184721.	2.5	0
463	Multi-Omics Insights into Functional Alterations of the Liver in Insulin-Deficient Diabetes Mellitus. SSRN Electronic Journal, 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