Trevor M Penning

List of Publications by Year
in descending order

188 papers	15,732 citations	15466 65 h-index	17546 121 g-index
195 all docs	195 docs citations	195 times ranked	12007 citing authors

#	Article	IF	Citations
1	Genetic and epigenetic regulation of the NRF2-KEAP1 pathway in human lung cancer. British Journal of Cancer, 2022, 126, 1244-1252.	2.9	17
2	AKR1D1 knockout mice develop a sex-dependent metabolic phenotype. Journal of Endocrinology, 2022, 253, 97-113.	1.2	7
3	Characterization of the major single nucleotide polymorphic variants of aldo-keto reductase 1C3 (type) Tj ETQq1 1 0.784314 rgBT /Ov 106121.	1.2	5
4	Conversion of Classical and 11-Oxygenated Androgens by Insulin-Induced AKR1C3 in a Model of Human PCOS Adipocytes. Endocrinology, 2022, 163, .	1.4	25
5	Identification of spatio-temporal clusters of lung cancer cases in Pennsylvania, USA: 2010â€“2017. BMC Cancer, 2022, 22, 555.	1.1	3
6	Air pollution and lung cancer survival in Pennsylvania. Lung Cancer, 2022, 170, 65-73.	0.9	9
7	Automating Predictive Toxicology Using ComptoxAI. Chemical Research in Toxicology, 2022, 35, 1370-1382.	1.7	5
8	Using biochemistry and biophysics to extinguish androgen receptor signaling in prostate cancer. Journal of Biological Chemistry, 2021, 296, 100240.	1.6	17
9	Environmental exposomics and lung cancer risk assessment in the Philadelphia metropolitan area using ZIP codeâ€“level hazard indices. Environmental Science and Pollution Research, 2021, 28, 31758-31769.	2.7	6
10	Differential activity and expression of human 5Î²-reductase (AKR1D1) splice variants. Journal of Molecular Endocrinology, 2021, 66, 181-194.	1.1	3
11	Aldo-Keto Reductases and Cancer Drug Resistance. Pharmacological Reviews, 2021, 73, 1150-1171.	7.1	52
12	Aldo-keto reductase 1C3â€”Assessment as a new target for the treatment of endometriosis. Pharmacological Research, 2020, 152, 104446.	3.1	27
13	Intracrinology-revisited and prostate cancer. Journal of Steroid Biochemistry and Molecular Biology, 2020, 196, 105499.	1.2	14
14	Geographic Differences in Lung Cancer Incidence: A Study of a Major Metropolitan Area within Southeastern Pennsylvania. International Journal of Environmental Research and Public Health, 2020, 17, 9498.	1.2	7
15	Clustering a Chemical Inventory for Safety Assessment of Fragrance Ingredients: Identifying Read-Across Analogs to Address Data Gaps. Chemical Research in Toxicology, 2020, 33, 1709-1718.	1.7	273
16	Glucocorticoids regulate AKR1D1 activity in human liver in vitro and in vivo. Journal of Endocrinology, 2020, 245, 207-218.	1.2	9
17	Intracrine androgen biosynthesis and drug resistance. , 2020, 3, 912-929.		1
18	Estrogen receptor-dependent and independent roles of benzo[a]pyrene in Ishikawa cells. Journal of Endocrinology, 2020, 247, 139-151.	1.2	1

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19	Estrogen receptor-dependent and independent roles of benzo[a]pyrene in Ishikawa cells. Journal of Endocrinology, 2020, 247, 139-151.	1.2	6
20	AKR1D1 is a novel regulator of metabolic phenotype in human hepatocytes and is dysregulated in non-alcoholic fatty liver disease. Metabolism: Clinical and Experimental, 2019, 99, 67-80.	1.5	52
21	Biology and clinical relevance of Hydroxysteroid (17beta) dehydrogenase enzymes. Molecular and Cellular Endocrinology, 2019, 489, 1-2.	1.6	6
22	Potent and Highly Selective Aldoâ€“Keto Reductase 1C3 (AKR1C3) Inhibitors Act as Chemotherapeutic Potentiators in Acute Myeloid Leukemia and T-Cell Acute Lymphoblastic Leukemia. Journal of Medicinal Chemistry, 2019, 62, 3590-3616.	2.9	39
23	Using Precision Environmental Health Principles in Risk Evaluation and Communication of the Deepwater Horizon Oil Spill. New Solutions, 2019, 28, 599-616.	0.6	4
24	Human and murine steroid 5Î²-reductases (AKR1D1 and AKR1D4): insights into the role of the catalytic glutamic acid. Chemico-Biological Interactions, 2019, 305, 163-170.	1.7	8
25	AKR1D1 regulates glucocorticoid availability and glucocorticoid receptor activation in human hepatoma cells. Journal of Steroid Biochemistry and Molecular Biology, 2019, 189, 218-227.	1.2	16
26	Induction of the Antioxidant Response by the Transcription Factor NRF2 Increases Bioactivation of the Mutagenic Air Pollutant 3-Nitrobenzanthrone in Human Lung Cells. Chemical Research in Toxicology, 2019, 32, 2538-2551.	1.7	17
27	Contribution of Adrenal Glands to Intratumor Androgens and Growth of Castration-Resistant Prostate Cancer. Clinical Cancer Research, 2019, 25, 426-439.	3.2	46
28	A 3-(4-nitronaphthen-1-yl) amino-benzoate analog as a bifunctional AKR1C3 inhibitor and AR antagonist: Head to head comparison with other advanced AKR1C3 targeted therapeutics. Journal of Steroid Biochemistry and Molecular Biology, 2019, 192, 105283.	1.2	17
29	Structural and Functional Biology of Aldo-Keto Reductase Steroid-Transforming Enzymes. Endocrine Reviews, 2019, 40, 447-475.	8.9	73
30	AKR1C3 (type 5 17Î²-hydroxysteroid dehydrogenase/prostaglandin F synthase): Roles in malignancy and endocrine disorders. Molecular and Cellular Endocrinology, 2019, 489, 82-91.	1.6	72
31	Exposure to Ambient Particulate Matter Is Associated With Accelerated Functional Decline in Idiopathic Pulmonary Fibrosis. Chest, 2018, 153, 1221-1228.	0.4	116
32	Role of Human Aldo-Keto Reductases in the Metabolic Activation of the Carcinogenic Air Pollutant 3-Nitrobenzanthrone. Chemical Research in Toxicology, 2018, 31, 1277-1288.	1.7	8
33	Dehydroepiandrosterone (DHEA)-SO 4 Depot and Castration-Resistant Prostate Cancer. Vitamins and Hormones, 2018, 108, 309-331.	0.7	11
34	AKR1C3 Inhibitor KV-37 Exhibits Antineoplastic Effects and Potentiates Enzalutamide in Combination Therapy in Prostate Adenocarcinoma Cells. Molecular Cancer Therapeutics, 2018, 17, 1833-1845.	1.9	36
35	Potential Metabolic Activation of a Representative C4-Alkylated Polycyclic Aromatic Hydrocarbon Retene (1-Methyl-7-isopropyl-phenanthrene) Associated with the Deepwater Horizon Oil Spill in Human Hepatoma (HepG2) Cells. Chemical Research in Toxicology, 2017, 30, 1093-1101.	1.7	11
36	Potential Metabolic Activation of Representative Alkylated Polycyclic Aromatic Hydrocarbons 1-Methylphenanthrene and 9-Ethylphenanthrene Associated with the Deepwater Horizon Oil Spill in Human Hepatoma (HepG2) Cells. Chemical Research in Toxicology, 2017, 30, 2140-2150.	1.7	15

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37	Genotoxicity of ortho-quinones: reactive oxygen species versus covalent modification. Toxicology Research, 2017, 6, 740-754.	0.9	20
38	Aldo-Keto Reductase (AKR) 1C3 inhibitors: a patent review. Expert Opinion on Therapeutic Patents, 2017, 27, 1329-1340.	2.4	70
39	On metaâ€•and megaâ€analyses for geneâ€“environment interactions. Genetic Epidemiology, 2017, 41, 876-886.	0.6	2
40	Testicular vs adrenal sources of hydroxy-androgens in prostate cancer. Endocrine-Related Cancer, 2017, 24, 393-404.	1.6	10
41	Aldo-Keto Reductase Regulation by the Nrf2 System: Implications for Stress Response, Chemotherapy Drug Resistance, and Carcinogenesis. Chemical Research in Toxicology, 2017, 30, 162-176.	1.7	59
42	Simultaneous quantitation of nine hydroxy-androgens and their conjugates in human serum by stable isotope dilution liquid chromatography electrospray ionization tandem mass spectrometry. Journal of Steroid Biochemistry and Molecular Biology, 2017, 165, 342-355.	1.2	22
43	Current advances in intratumoral androgen metabolism in castration-resistant prostate cancer. Current Opinion in Endocrinology, Diabetes and Obesity, 2016, 23, 264-270.	1.2	1
44	Genome-wide association study confirms lung cancer susceptibility loci on chromosomes 5p15 and 15q25 in an African-American population. Lung Cancer, 2016, 98, 33-42.	0.9	49
45	Potential Metabolic Activation of a Representative C2-Alkylated Polycyclic Aromatic Hydrocarbon 6-Ethylchrysene Associated with the Deepwater Horizon Oil Spill in Human Hepatoma (HepG2) Cells. Chemical Research in Toxicology, 2016, 29, 991-1002.	1.7	6
46	Discovery of (R)-2-(6-Methoxynaphthalen-2-yl)butanoic Acid as a Potent and Selective Aldo-keto Reductase 1C3 Inhibitor. Journal of Medicinal Chemistry, 2016, 59, 7431-7444.	2.9	33
47	Selective AKR1C3 Inhibitors Potentiate Chemotherapeutic Activity in Multiple Acute Myeloid Leukemia (AML) Cell Lines. ACS Medicinal Chemistry Letters, 2016, 7, 774-779.	1.3	36
48	Single-molecule enzymology of steroid transforming enzymes: Transient kinetic studies and what they tell us. Journal of Steroid Biochemistry and Molecular Biology, 2016, 161, 5-12.	1.2	3
49	Unconventional Gas and Oil Drilling Is Associated with Increased Hospital Utilization Rates. PLoS ONE, 2015, 10, e0131093.	1.1	72
50	Mechanisms of drug resistance that target the androgen axis in castration resistant prostate cancer (CRPC). Journal of Steroid Biochemistry and Molecular Biology, 2015, 153, 105-113.	1.2	41
51	Screening baccharin analogs as selective inhibitors against type 5 17Î²-hydroxysteroid dehydrogenase (AKR1C3). Chemico-Biological Interactions, 2015, 234, 339-348.	1.7	24
52	Promiscuity and diversity in 3-ketosteroid reductases. Journal of Steroid Biochemistry and Molecular Biology, 2015, 151, 93-101.	1.2	35
53	The aldo-keto reductases (AKRs): Overview. Chemico-Biological Interactions, 2015, 234, 236-246.	1.7	348
54	Electron transfer by human wild-type and A287P mutant P450 oxidoreductase assessed by transient kinetics: functional basis of P450 oxidoreductase deficiency. Biochemical Journal, 2015, 468, 25-31.	1.7	5

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55	Mechanisms of activation of the transcription factor Nrf2 by redox stressors, nutrient cues, and energy status and the pathways through which it attenuates degenerative disease. Free Radical Biology and Medicine, 2015, 88, 108-146.	1.3	661
56	The DHEA-sulfate depot following P450c17 inhibition supports the case for AKR1C3 inhibition in high risk localized and advanced castration resistant prostate cancer. Chemico-Biological Interactions, 2015, 234, 332-338.	1.7	57
57	Pentafluorosulfanyl-containing flufenamic acid analogs: Syntheses, properties and biological activities. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 4437-4440.	1.0	30
58	In-Depth Dissection of the P133R Mutation in Steroid 5Î²-Reductase (AKR1D1): A Molecular Basis of Bile Acid Deficiency. Biochemistry, 2015, 54, 6343-6351.	1.2	10
59	Metabolism of an Alkylated Polycyclic Aromatic Hydrocarbon 5-Methylchrysene in Human Hepatoma (HepG2) Cells. Chemical Research in Toxicology, 2015, 28, 2045-2058.	1.7	8
60	The rate-determining steps of aldoâ€“keto reductases (AKRs), a study on human steroid 5Î²-reductase (AKR1D1). Chemico-Biological Interactions, 2015, 234, 360-365.	1.7	6
61	Environmental Health Research Recommendations from the Inter-Environmental Health Sciences Core Center Working Group on Unconventional Natural Gas Drilling Operations. Environmental Health Perspectives, 2014, 122, 1155-1159.	2.8	19
62	Rate of steroid double-bond reduction catalysed by the human steroid 5Î²-reductase (AKR1D1) is sensitive to steroid structure: implications for steroid metabolism and bile acid synthesis. Biochemical Journal, 2014, 462, 163-171.	1.7	16
63	Role of aldoâ€“keto reductase family 1 (AKR1) enzymes in human steroid metabolism. Steroids, 2014, 79, 49-63.	0.8	159
64	5Î²-Reduced steroids and human Î”4-3-ketosteroid 5Î²-reductase (AKR1D1). Steroids, 2014, 83, 17-26.	0.8	37
65	Androgen biosynthesis in castration-resistant prostate cancer. Endocrine-Related Cancer, 2014, 21, T67-T78.	1.6	35
66	Human Aldo-Keto Reductases and the Metabolic Activation of Polycyclic Aromatic Hydrocarbons. Chemical Research in Toxicology, 2014, 27, 1901-1917.	1.7	85
67	Intense Androgen-Deprivation Therapy With Abiraterone Acetate Plus Leuprolide Acetate in Patients With Localized High-Risk Prostate Cancer: Results of a Randomized Phase II Neoadjuvant Study. Journal of Clinical Oncology, 2014, 32, 3705-3715.	0.8	220
68	Metabolism of a Representative Oxygenated Polycyclic Aromatic Hydrocarbon (PAH) Phenanthrene-9,10-quinone in Human Hepatoma (HepG2) Cells. Chemical Research in Toxicology, 2014, 27, 852-863.	1.7	21
69	Targeted Androgen Pathway Suppression in Localized Prostate Cancer: A Pilot Study. Journal of Clinical Oncology, 2014, 32, 229-237.	0.8	70
70	Development, validation and application of a stable isotope dilution liquid chromatography electrospray ionization/selected reaction monitoring/mass spectrometry (SID-LC/ESI/SRM/MS) method for quantification of keto-androgens in human serum. Journal of Steroid Biochemistry and Molecular Biology, 2013, 138, 281-289.	1.2	45
71	Interception of Benzo[a]pyrene-7,8-dione by UDP Glucuronosyltransferases (UGTs) in Human Lung Cells. Chemical Research in Toxicology, 2013, 26, 1570-1578.	1.7	22
72	Alternative splicing in the aldoâ€“keto reductase superfamily: Implications for protein nomenclature. Chemico-Biological Interactions, 2013, 202, 153-158.	1.7	11

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73	AKR1C3 as a target in castrate resistant prostate cancer. Journal of Steroid Biochemistry and Molecular Biology, 2013, 137, 136-149.	1.2	117
74	Development of Potent and Selective Indomethacin Analogues for the Inhibition of AKR1C3 (Type 5) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Journal of Medicinal Chemistry, 2013, 56, 2429-2446.	2.9	78
75	Identification of Stable Benzo[a]pyrene-7,8-dione-DNA Adducts in Human Lung Cells. Chemical Research in Toxicology, 2013, 26, 685-692.	1.7	32
76	Development of a Genotyping Microarray for Studying the Role of Gene-Environment Interactions in Risk for Lung Cancer. Journal of Biomolecular Techniques, 2013, 24, jbt.13-2404-004.	0.8	7
77	Detoxication of Benzo[a]pyrene-7,8-dione by Sulfotransferases (SULTs) in Human Lung Cells. Journal of Biological Chemistry, 2012, 287, 29909-29920.	1.6	34
78	Metabolism of the synthetic progestogen norethynodrel by human ketosteroid reductases of the aldoâ€“keto reductase superfamily. Journal of Steroid Biochemistry and Molecular Biology, 2012, 129, 139-144.	1.2	15
79	Overexpression of aldo-keto reductase 1C3 (AKR1C3) in LNCaP cells diverts androgen metabolism towards testosterone resulting in resistance to the 5Î±-reductase inhibitor finasteride. Journal of Steroid Biochemistry and Molecular Biology, 2012, 130, 7-15.	1.2	51
80	Conversion of Human Steroid 5Î²-Reductase (AKR1D1) into 3Î²-Hydroxysteroid Dehydrogenase by Single Point Mutation E120H. Journal of Biological Chemistry, 2012, 287, 16609-16622.	1.6	18
81	Development of Potent and Selective Inhibitors of Aldoâ€“Keto Reductase 1C3 (Type 5 17Î²-Hydroxysteroid) Tj ETQq1 1 0.784314 rgBT Journal of Medicinal Chemistry, 2012, 55, 2311-2323.	2.9	93
82	Metabolism and Distribution of Benzo[a]pyrene-7,8-dione (B[a]P-7,8-dione) in Human Lung Cells by Liquid Chromatography Tandem Mass Spectrometry: Detection of an Adenine B[a]P-7,8-dione Adduct. Chemical Research in Toxicology, 2012, 25, 993-1003.	1.7	20
83	Crystal structures of AKR1C3 containing an N-(aryl)amino-benzoate inhibitor and a bifunctional AKR1C3 inhibitor and androgen receptor antagonist. Therapeutic leads for castrate resistant prostate cancer. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 3492-3497.	1.0	52
84	Specificity of Human Aldo-Keto Reductases, NAD(P)H:Quinone Oxidoreductase, and Carbonyl Reductases to Redox-Cycle Polycyclic Aromatic Hydrocarbon Diones and 4-Hydroxyequilenin-o-quinone. Chemical Research in Toxicology, 2011, 24, 2153-2166.	1.7	43
85	Inhibitors of type 5 17Î²-hydroxysteroid dehydrogenase (AKR1C3): Overview and structural insights. Journal of Steroid Biochemistry and Molecular Biology, 2011, 125, 95-104.	1.2	105
86	Human hydroxysteroid dehydrogenases and pre-receptor regulation: Insights into inhibitor design and evaluation. Journal of Steroid Biochemistry and Molecular Biology, 2011, 125, 46-56.	1.2	43
87	Substrate specificity and inhibitor analyses of human steroid 5Î²-reductase (AKR1D1). Steroids, 2011, 76, 484-490.	0.8	40
88	Stereospecific reduction of 5Î²-reduced steroids by human ketosteroid reductases of the AKR (aldo-keto) Tj ETQq0 0 0 rgBT /Overlock 10 via the 5Î²-reductase pathway. Biochemical Journal, 2011, 437, 53-61.	1.7	34
89	The effect of disease associated point mutations on 5Î²-reductase (AKR1D1) enzyme function. Chemico-Biological Interactions, 2011, 191, 250-254.	1.7	16
90	Quantitation of Benzo[a]pyrene Metabolic Profiles in Human Bronchoalveolar (H358) Cells by Stable Isotope Dilution Liquid Chromatographyâ€“Atmospheric Pressure Chemical Ionization Mass Spectrometry. Chemical Research in Toxicology, 2011, 24, 1905-1914.	1.7	28

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91	Discovery of substituted 3-(phenylamino)benzoic acids as potent and selective inhibitors of type 5 17Î²-hydroxysteroid dehydrogenase (AKR1C3). Bioorganic and Medicinal Chemistry Letters, 2011, 21, 1464-1468.	1.0	40
92	Detoxication of Structurally Diverse Polycyclic Aromatic Hydrocarbon (PAH) o-Quinones by Human Recombinant Catechol-O-methyltransferase (COMT) via O-Methylation of PAH Catechols. Journal of Biological Chemistry, 2011, 286, 25644-25654.	1.6	26
93	New frontiers in androgen biosynthesis and metabolism. Current Opinion in Endocrinology, Diabetes and Obesity, 2010, 17, 233-239.	1.2	39
94	Characterization of Disease-related 5Î²-Reductase (AKR1D1) Mutations Reveals Their Potential to Cause Bile Acid Deficiency. Journal of Biological Chemistry, 2010, 285, 24529-24537.	1.6	45
95	Aldo-keto reductase 1C3 expression in MCF-7 cells reveals roles in steroid hormone and prostaglandin metabolism that may explain its over-expression in breast cancer. Journal of Steroid Biochemistry and Molecular Biology, 2010, 118, 177-187.	1.2	97
96	Liquid chromatographyâ€“mass spectrometry (LCâ€“MS) of steroid hormone metabolites and its applications. Journal of Steroid Biochemistry and Molecular Biology, 2010, 121, 546-555.	1.2	78
97	Partners in crime: deregulation of AR activity and androgen synthesis in prostate cancer. Trends in Endocrinology and Metabolism, 2010, 21, 315-324.	3.1	248
98	Aryl Hydrocarbon Receptor Facilitates DNA Strand Breaks and 8-Oxo-2â€²-deoxyguanosine Formation by the Aldo-Keto Reductase Product Benzo[a]pyrene-7,8-dione. Journal of Biological Chemistry, 2009, 284, 29725-29734.	1.6	68
99	Characterization of the cancer chemopreventive NRF2-dependent gene battery in human keratinocytes: demonstration that the KEAP1â€“NRF2 pathway, and not the BACH1â€“NRF2 pathway, controls cytoprotection against electrophiles as well as redox-cycling compounds. Carcinogenesis, 2009, 30, 1571-1580.	1.3	273
100	Type 5 17Î²-hydroxysteroid dehydrogenase/prostaglandin F synthase (AKR1C3): Role in breast cancer and inhibition by non-steroidal anti-inflammatory drug analogs. Chemico-Biological Interactions, 2009, 178, 221-227.	1.7	65
101	The SDR (short-chain dehydrogenase/reductase and related enzymes) nomenclature initiative. Chemico-Biological Interactions, 2009, 178, 94-98.	1.7	329
102	Steroid Hormone Transforming Aldoâ€Keto Reductases and Cancer. Annals of the New York Academy of Sciences, 2009, 1155, 33-42.	1.8	138
103	Analysis of 7,8-Dihydro-8-oxo-2â€²-deoxyguanosine in Cellular DNA during Oxidative Stress. Chemical Research in Toxicology, 2009, 22, 788-797.	1.7	117
104	Structure and catalytic mechanism of human steroid 5Î²-reductase (AKR1D1). Molecular and Cellular Endocrinology, 2009, 301, 191-198.	1.6	31
105	Inhibition of Human Steroid 5Î²-Reductase (AKR1D1) by Finasteride and Structure of the Enzyme-Inhibitor Complex. Journal of Biological Chemistry, 2009, 284, 19786-19790.	1.6	50
106	Aldo-keto reductase (AKR) superfamily: Genomics and annotation. Human Genomics, 2009, 3, 362-70.	1.4	115
107	Synthesis of 13C2-benzo[a]pyrene and its 7,8-dihydrodiol and 7,8-dione implicated as carcinogenic metabolites. Tetrahedron Letters, 2008, 49, 4531-4533.	0.7	17
108	An indomethacin analogue, N-(4-chlorobenzoyl)-melatonin, is a selective inhibitor of aldo-keto reductase 1C3 (type 2 3Î±-HSD, type 5 17Î²-HSD, and prostaglandin F synthase), a potential target for the treatment of hormone dependent and hormone independent malignancies. Biochemical Pharmacology, 2008, 75, 484-493.	2.0	121

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109	Pre-receptor regulation of the androgen receptor. Molecular and Cellular Endocrinology, 2008, 281, 1-8.	1.6	54
110	The Pattern of p53 Mutations Caused by PAH o-Quinones is Driven by 8-oxo-dGuo Formation while the Spectrum of Mutations is Determined by Biological Selection for Dominance. Chemical Research in Toxicology, 2008, 21, 1039-1049.	1.7	44
111	Genomics of Smoking Exposure and Cessation: Lessons for Cancer Prevention and Treatment: Fig. 1. Cancer Prevention Research, 2008, 1, 80-83.	0.7	27
112	Oxidation of PAH trans-Dihydrodiols by Human Aldo-Keto Reductase AKR1B10. Chemical Research in Toxicology, 2008, 21, 2207-2215.	1.7	73
113	Evidence for the aldo-keto reductase pathway of polycyclic aromatic trans -dihydrodiol activation in human lung A549 cells. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 6846-6851.	3.3	103
114	Crystal Structure of Human Liver Î”4-3-Ketosteroid 5Î²-Reductase (AKR1D1) and Implications for Substrate Binding and Catalysis. Journal of Biological Chemistry, 2008, 283, 16830-16839.	1.6	67
115	Elucidation of a Complete Kinetic Mechanism for a Mammalian Hydroxysteroid Dehydrogenase (HSD) and Identification of All Enzyme Forms on the Reaction Coordinate. Journal of Biological Chemistry, 2007, 282, 33484-33493.	1.6	53
116	Human aldoâ€“keto reductases: Function, gene regulation, and single nucleotide polymorphisms. Archives of Biochemistry and Biophysics, 2007, 464, 241-250.	1.4	235
117	Identification of the molecular switch that regulates access of 5Î±-DHT to the androgen receptor. Molecular and Cellular Endocrinology, 2007, 265-266, 77-82.	1.6	46
118	Aldo-Keto Reductases and Bioactivation/Detoxication. Annual Review of Pharmacology and Toxicology, 2007, 47, 263-292.	4.2	334
119	Abstracts, American Chemical Society Division of Chemical Toxicology, 232nd ACS National Meeting, San Francisco CA, September 10â^'September 14, 2006. Chemical Research in Toxicology, 2006, 19, 1677-1701.	1.7	2
120	Polycyclic Aromatic Hydrocarbon (PAH) o-Quinones Produced by the Aldo-Keto-Reductases (AKRs) Generate Abasic Sites, Oxidized Pyrimidines, and 8-Oxo-dGuo via Reactive Oxygen Species. Chemical Research in Toxicology, 2006, 19, 719-728.	1.7	97
121	Increased Expression of Genes Converting Adrenal Androgens to Testosterone in Androgen-Independent Prostate Cancer. Cancer Research, 2006, 66, 2815-2825.	0.4	967
122	Multiple Steps Determine the Overall Rate of the Reduction of 5Î±-Dihydrotestosterone Catalyzed by Human Type 3 3Î±-Hydroxysteroid Dehydrogenase:Â Implications for the Elimination of Androgensâ€. Biochemistry, 2006, 45, 13054-13063.	1.2	54
123	AKR1C1 and AKR1C3 may determine progesterone and estrogen ratios in endometrial cancer. Molecular and Cellular Endocrinology, 2006, 248, 126-135.	1.6	139
124	Deoxycorticosterone inactivation by AKR1C3 in human mineralocorticoid target tissues. Molecular and Cellular Endocrinology, 2006, 248, 79-86.	1.6	49
125	Aldo-keto reductase (AKR) 1C3: Role in prostate disease and the development of specific inhibitors. Molecular and Cellular Endocrinology, 2006, 248, 182-191.	1.6	108
126	Molecular docking simulations of steroid substrates into human cytosolic hydroxysteroid dehydrogenases (AKR1C1 and AKR1C2): Insights into positional and stereochemical preferences. Steroids, 2006, 71, 380-391.	0.8	29

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127	Identification of the Major Oxidative 3Î±-Hydroxysteroid Dehydrogenase in Human Prostate That Converts 5Î±-Androstane-3Î±,17Î²-diol to 5Î±-Dihydrotestosterone: A Potential Therapeutic Target for Androgen-Dependent Disease. Molecular Endocrinology, 2006, 20, 444-458.	3.7	109
128	Transcript Profiling of the Androgen Signal in Normal Prostate, Benign Prostatic Hyperplasia, and Prostate Cancer. Endocrinology, 2006, 147, 5806-5816.	1.4	69
129	Tibolone Metabolism in Human Liver Is Catalyzed by 3Î±/3Î²-Hydroxysteroid Dehydrogenase Activities of the Four Isoforms of the Aldo-Keto Reductase (AKR)1C Subfamily. Journal of Pharmacology and Experimental Therapeutics, 2006, 316, 1300-1309.	1.3	63
130	A Complete Kinetic Mechanism of Rat 3Î±â€Hydroxysteroid Dehydrogenase. FASEB Journal, 2006, 20, A480.	0.2	0
131	SYNTHESES OF ADDUCTS OF ACTIVE METABOLITES OF CARCINOGENIC POLYCYCLIC AROMATIC HYDROCARBONS WITH 2â€²-DEOXYRIBONUCLEOSIDES. Polycyclic Aromatic Compounds, 2005, 25, 371-391.	1.4	13
132	AKR1B10: A New Diagnostic Marker of Nonâ€“Small Cell Lung Carcinoma in Smokers: Fig. 1. Clinical Cancer Research, 2005, 11, 1687-1690.	3.2	86
133	Development of Nonsteroidal Anti-Inflammatory Drug Analogs and Steroid Carboxylates Selective for Human Aldo-Keto Reductase Isoforms: Potential Antineoplastic Agents That Work Independently of Cyclooxygenase Isozymes. Molecular Pharmacology, 2005, 67, 60-68.	1.0	114
134	Formation of 8-Oxo-7,8-dihydro-2â€˜-deoxyguanosine (8-Oxo-dGuo) by PAH o-Quinones:â€‰Involvement of Reactive Oxygen Species and Copper(II)/Copper(I) Redox Cycling. Chemical Research in Toxicology, 2005, 18, 1026-1037.	1.7	73
135	Abstracts, American Chemical Society Division of Chemical Toxicology, 230th ACS National Meeting, Washington, DC, August 28â˜September 1, 2005. Chemical Research in Toxicology, 2005, 18, 1967-1991.	1.7	3
136	EFFICIENT NEW SYNTHESES OF POLYCYCLIC AROMATIC HYDROCARBON ORTHO-QUINONES AND THEIR 2â€²-DEOXYRIBONUCLEOSIDE ADDUCTS. Polycyclic Aromatic Compounds, 2004, 24, 257-269.	1.4	2
137	Tibolone Is Metabolized by the 3Î±/3Î²-Hydroxysteroid Dehydrogenase Activities of the Four Human Isozymes of the Aldo-Keto Reductase 1C Subfamily: Inversion of Stereospecificity with a Î”5(10)-3-Ketosteroid. Molecular Pharmacology, 2004, 66, 1702-1711.	1.0	61
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