William E Rainey

List of Publications by Year
in descending order

125 papers	8,369 citations	50276 46 h-index	48315 88 g-index
147 all docs	147 docs citations	147 times ranked	6559 citing authors

#	Article	IF	Citations
1	Telomerase activity in human germline and embryonic tissues and cells. Genesis, 1996, 18, 173-179.	2.1	1,172
2	Comprehensive Pan-Genomic Characterization of Adrenocortical Carcinoma. Cancer Cell, 2016, 29, 723-736.	16.8	482
3	Adrenarche â€“ physiology, biochemistry and human disease. Clinical Endocrinology, 2004, 60, 288-296.	2.4	279
4	Dissecting human adrenal androgen production. Trends in Endocrinology and Metabolism, 2002, 13, 234-239.	7.1	260
5	Aldosterone-stimulating somatic gene mutations are common in normal adrenal glands. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E4591-9.	7.1	256
6	Acute and chronic regulation of aldosterone production. Molecular and Cellular Endocrinology, 2012, 350, 151-162.	3.2	244
7	Development of monoclonal antibodies against human CYP11B1 and CYP11B2. Molecular and Cellular Endocrinology, 2014, 383, 111-117.	3.2	225
8	Adrenocortical cell lines. Molecular and Cellular Endocrinology, 2004, 228, 23-38.	3.2	203
9	Liquid Chromatographyâ€“Tandem Mass Spectrometry Analysis of Human Adrenal Vein 19-Carbon Steroids Before and After ACTH Stimulation. Journal of Clinical Endocrinology and Metabolism, 2013, 98, 1182-1188.	3.6	193
10	Developmental changes in steroidogenic enzymes in human postnatal adrenal cortex: immunohistochemical studies. Clinical Endocrinology, 2000, 53, 739-747.	2.4	176
11	Adrenal-derived 11-oxygenated 19-carbon steroids are the dominant androgens in classic 21-hydroxylase deficiency. European Journal of Endocrinology, 2016, 174, 601-609.	3.7	168
12	The Rise in Adrenal Androgen Biosynthesis: Adrenarche. Seminars in Reproductive Medicine, 2004, 22, 337-347.	1.1	159
13	Cellular and Genetic Causes of Idiopathic Hyperaldosteronism. Hypertension, 2018, 72, 874-880.	2.7	137
14	Effect ofKCNJ5Mutations on Gene Expression in Aldosterone-Producing Adenomas and Adrenocortical Cells. Journal of Clinical Endocrinology and Metabolism, 2012, 97, E1567-E1572.	3.6	130
15	International Histopathology Consensus for Unilateral Primary Aldosteronism. Journal of Clinical Endocrinology and Metabolism, 2021, 106, 42-54.	3.6	127
16	Targeted Molecular Characterization of Aldosterone-Producing Adenomas in White Americans. Journal of Clinical Endocrinology and Metabolism, 2018, 103, 3869-3876.	3.6	122
17	Genetic Characteristics of Aldosterone-Producing Adenomas in Blacks. Hypertension, 2019, 73, 885-892.	2.7	121
18	Age-Related Autonomous Aldosteronism. Circulation, 2017, 136, 347-355.	1.6	117

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19	Development of Adrenal Cortex Zonation. Endocrinology and Metabolism Clinics of North America, 2015, 44, 243-274.	3.2	116
20	Adrenarche Results from Development of a 3Î²-Hydroxysteroid Dehydrogenase-Deficient Adrenal Reticularis1. Journal of Clinical Endocrinology and Metabolism, 1998, 83, 3695-3701.	3.6	111
21	Type 5 17Î²-Hydroxysteroid Dehydrogenase (AKR1C3) Contributes to Testosterone Production in the Adrenal Reticularis. Journal of Clinical Endocrinology and Metabolism, 2009, 94, 2192-2198.	3.6	108
22	Measurement of Peripheral Plasma 18-Oxocortisol Can Discriminate Unilateral Adenoma From Bilateral Diseases in Patients With Primary Aldosteronism. Hypertension, 2015, 65, 1096-1102.	2.7	105
23	G-protein-coupled receptors in aldosterone-producing adenomas: a potential cause of hyperaldosteronism. Journal of Endocrinology, 2007, 195, 39-48.	2.6	101
24	11-Oxygenated androgens in health and disease. Nature Reviews Endocrinology, 2020, 16, 284-296.	9.6	99
25	Histopathological classification of cross-sectional image negative hyperaldosteronism. Journal of Clinical Endocrinology and Metabolism, 2017, 102, jc.2016-2986.	3.6	96
26	The Human Fetal Adrenal: Making Adrenal Androgens for Placental Estrogens. Seminars in Reproductive Medicine, 2004, 22, 327-336.	1.1	94
27	Elevated Expression of Luteinizing Hormone Receptor in Aldosterone-Producing Adenomas. Journal of Clinical Endocrinology and Metabolism, 2006, 91, 1136-1142.	3.6	89
28	Genetic, Cellular, and Molecular Heterogeneity in Adrenals With Aldosterone-Producing Adenoma. Hypertension, 2020, 75, 1034-1044.	2.7	89
29	Aldosterone-Producing Cell Clusters Frequently Harbor Somatic Mutations and Accumulate With Age in Normal Adrenals. Journal of the Endocrine Society, 2017, 1, 787-799.	0.2	87
30	A Novel Y152C KCNJ5 Mutation Responsible for Familial Hyperaldosteronism Type III. Journal of Clinical Endocrinology and Metabolism, 2013, 98, E1861-E1865.	3.6	86
31	Adrenal CYP11B1/2 expression in primary aldosteronism: Immunohistochemical analysis using novel monoclonal antibodies. Molecular and Cellular Endocrinology, 2014, 392, 73-79.	3.2	84
32	Corticotropin-Releasing Hormone Directly Stimulates Cortisol and the Cortisol Biosynthetic Pathway in Human Fetal Adrenal Cells. Journal of Clinical Endocrinology and Metabolism, 2005, 90, 279-285.	3.6	81
33	11Î²-Hydroxyandrostenedione, the product of androstenedione metabolism in the adrenal, is metabolized in LNCaP cells by 5Î±-reductase yielding 11Î²-hydroxy-5Î±-androstanedione. Journal of Steroid Biochemistry and Molecular Biology, 2013, 138, 132-142.	2.5	80
34	Adrenal Androgens and Androgen Precursorsâ€"Definition, Synthesis, Regulation and Physiologic Actions. , 2014, 4, 1369-1381.		80
35	Adrenal changes associated with adrenarche. Reviews in Endocrine and Metabolic Disorders, 2009, 10, 19-26.	5.7	74
36	Molecular Heterogeneity in Aldosterone-Producing Adenomas. Journal of Clinical Endocrinology and Metabolism, 2016, 101, 999-1007.	3.6	74

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37	11-Oxygenated C19 Steroids Do Not Decline With Age in Women. Journal of Clinical Endocrinology and Metabolism, 2019, 104, 2615-2622.	3.6	74
38	11-ketotestosterone is the dominant circulating bioactive androgen during normal and premature adrenarche. Journal of Clinical Endocrinology and Metabolism, 2018, 103, 4589-4598.	3.6	73
39	Development of the human adrenal zona reticularis: morphometric and immunohistochemical studies from birth to adolescence. Journal of Endocrinology, 2009, 203, 241-252.	2.6	71
40	Somatic CACNA1H Mutation As a Cause of Aldosterone-Producing Adenoma. Hypertension, 2020, 75, 645-649.	2.7	69
41	Ca²⁺-Regulated Expression of Aldosterone Synthase Is Mediated By Calmodulin and Calmodulin-Dependent Protein Kinases. Endocrinology, 1997, 138, 835-838.	2.8	65
42	Profiles of 21-Carbon Steroids in 21-hydroxylase Deficiency. Journal of Clinical Endocrinology and Metabolism, 2015, 100, 2283-2290.	3.6	65
43	ATR-101, a Selective and Potent Inhibitor of Acyl-CoA Acyltransferase 1, Induces Apoptosis in H295R Adrenocortical Cells and in the Adrenal Cortex of Dogs. Endocrinology, 2016, 157, 1775-1788.	2.8	65
44	Development of a novel cell based androgen screening model. Journal of Steroid Biochemistry and Molecular Biology, 2016, 156, 17-22.	2.5	60
45	Regulation of 3Î²-Hydroxysteroid Dehydrogenase in Adrenocortical Cells: Effects of Angiotensin-II and Transforming Growth Factor Beta. Endocrine Research, 1991, 17, 281-296.	1.2	51
46	Angiotensin II regulation of adrenocortical gene transcription. Molecular and Cellular Endocrinology, 2009, 302, 230-236.	3.2	51
47	Targeted Assessment of G0S2 Methylation Identifies a Rapidly Recurrent, Routinely Fatal Molecular Subtype of Adrenocortical Carcinoma. Clinical Cancer Research, 2019, 25, 3276-3288.	7.0	51
48	Fetal and maternal adrenals in human pregnancy. Obstetrics and Gynecology Clinics of North America, 2004, 31, 817-835.	1.9	50
49	Transcriptome Profiling Reveals Differentially Expressed Transcripts Between the Human Adrenal Zona Fasciculata and Zona Reticularis. Journal of Clinical Endocrinology and Metabolism, 2014, 99, E518-E527.	3.6	49
50	Sex Differences in 11-Oxygenated Androgen Patterns Across Adulthood. Journal of Clinical Endocrinology and Metabolism, 2020, 105, e2921-e2929.	3.6	48
51	The post-menopausal ovary displays a unique pattern of steroidogenic enzyme expression. Human Reproduction, 2006, 21, 309-317.	0.9	47
52	Aging and Adrenal Aldosterone Production. Hypertension, 2018, 71, 218-223.	2.7	47
53	Circulating 11-oxygenated androgens across species. Journal of Steroid Biochemistry and Molecular Biology, 2019, 190, 242-249.	2.5	46
54	Understanding primary aldosteronism: impact of next generation sequencing and expression profiling. Molecular and Cellular Endocrinology, 2015, 399, 311-320.	3.2	45

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55	Comprehensive Analysis of Steroid Biomarkers for Guiding Primary Aldosteronism Subtyping. Hypertension, 2020, 75, 183-192.	2.7	42
56	Transcriptome Analysis Reveals Differentially Expressed Transcripts in Rat Adrenal Zona Glomerulosa and Zona Fasciculata. Endocrinology, 2012, 153, 1755-1763.	2.8	41
57	Calcium regulates human CYP11B2 transcription. Endocrine Research, 1996, 22, 485-492.	1.2	39
58	Prevalence of Somatic Mutations in Aldosterone-Producing Adenomas in Japanese Patients. Journal of Clinical Endocrinology and Metabolism, 2020, 105, e4066-e4073.	3.6	38
59	Double adrenocortical adenomas harboring independent KCNJ5 and PRKACA somatic mutations. European Journal of Endocrinology, 2016, 175, K1-K6.	3.7	37
60	Aldosterone-Producing Cell Clusters in Normal and Pathological States. Hormone and Metabolic Research, 2017, 49, 951-956.	1.5	37
61	High-Resolution Tissue Mass Spectrometry Imaging Reveals a Refined Functional Anatomy of the Human Adult Adrenal Gland. Endocrinology, 2018, 159, 1511-1524.	2.8	37
62	Mutated KCNJ5 activates the acute and chronic regulatory steps in aldosterone production. Journal of Molecular Endocrinology, 2016, 57, 1-11.	2.5	35
63	Single-Center Prospective Cohort Study on the Histopathology, Genotype, and Postsurgical Outcomes of Patients With Primary Aldosteronism. Hypertension, 2021, 78, 738-746.	2.7	35
64	Age-dependent Increases in Adrenal Cytochrome b5 and Serum 5-Androstenediol-3-sulfate. Journal of Clinical Endocrinology and Metabolism, 2016, 101, 4585-4593.	3.6	34
65	Corticotroph tumor progression after bilateral adrenalectomy (Nelsonâ€™s syndrome): systematic review and expert consensus recommendations. European Journal of Endocrinology, 2021, 184, P1-P16.	3.7	32
66	Telomerase activity in human germline and embryonic tissues and cells. Genesis, 1996, 18, 173-179.	2.1	32
67	Potassium channels related to primary aldosteronism: Expression similarities and differences between human and rat adrenals. Molecular and Cellular Endocrinology, 2015, 417, 141-148.	3.2	29
68	Histological Characterization of Aldosterone-producing Adrenocortical Adenomas with Different Somatic Mutations. Journal of Clinical Endocrinology and Metabolism, 2020, 105, e282-e289.	3.6	29
69	Sodium Deficiency Regulates Rat Adrenal Zona Glomerulosa Gene Expression. Endocrinology, 2014, 155, 1363-1372.	2.8	27
70	Steroid biomarkers in human adrenal disease. Journal of Steroid Biochemistry and Molecular Biology, 2019, 190, 273-280.	2.5	27
71	Potassium Negatively Regulates Angiotensin II Type 1 Receptor Expression in Human Adrenocortical H295R Cells. Hypertension, 1995, 25, 1129-1134.	2.7	27
72	Identification of Somatic Mutations in CLCN2 in Aldosterone-Producing Adenomas. Journal of the Endocrine Society, 2020, 4, bvaa123.	0.2	27

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73	THE ADRENAL GENETIC PUZZLE: HOW DO THE FETAL AND ADULT PIECES DIFFER?. Endocrine Research, 2002, 28, 611-622.	1.2	26
74	Human Urinary mRNA as a Biomarker of Cardiovascular Disease. Circulation Genomic and Precision Medicine, 2018, 11, e002213.	3.6	25
75	Adrenocorticotropin Acutely Regulates Pregnenolone Sulfate Production by the Human Adrenal In Vivo and In Vitro. Journal of Clinical Endocrinology and Metabolism, 2018, 103, 320-327.	3.6	24
76	GENETICS IN ENDOCRINOLOGY: Impact of race and sex on genetic causes of aldosterone-producing adenomas. European Journal of Endocrinology, 2021, 185, R1-R11.	3.7	23
77	Genetic and Histopathologic Intertumor Heterogeneity in Primary Aldosteronism. Journal of Clinical Endocrinology and Metabolism, 2017, 102, 1792-1796.	3.6	22
78	Biochemical, Histopathological, and Genetic Characterization of Posture-Responsive and Unresponsive APAs. Journal of Clinical Endocrinology and Metabolism, 2020, 105, e3224-e3235.	3.6	21
79	Bone Morphogenetic Protein-4 (BMP4): A Paracrine Regulator of Human Adrenal C19 Steroid Synthesis. Endocrinology, 2015, 156, 2530-2540.	2.8	20
80	Ca2+-Regulated Expression of Aldosterone Synthase Is Mediated By Calmodulin and Calmodulin-Dependent Protein Kinases. Endocrinology, 1997, 138, 835-838.	2.8	19
81	Cell-Based Assays for Screening Androgen Receptor Ligands. Seminars in Reproductive Medicine, 2015, 33, 225-234.	1.1	18
82	Development of monoclonal antibodies against the human 3Î²-hydroxysteroid dehydrogenase/isomerase isozymes. Steroids, 2017, 127, 56-61.	1.8	18
83	Bone Morphogenetic Protein Inhibits Ovarian Androgen Production. Journal of Clinical Endocrinology and Metabolism, 2000, 85, 3331-3337.	3.6	17
84	The effects of KN62, A Ca2+/Calmodulin-dependent protein kinase II inhibitor, on adrenocortical cell aldosterone production. Endocrine Research, 1995, 21, 259-265.	1.2	16
85	H295R expression of melanocortin 2 receptor accessory protein results in ACTH responsiveness. Journal of Molecular Endocrinology, 2016, 56, 69-76.	2.5	16
86	Chemogenetic activation of adrenocortical Gq signaling causes hyperaldosteronism and disrupts functional zonation. Journal of Clinical Investigation, 2019, 130, 83-93.	8.2	16
87	Transcriptional Regulation of Human 11Â-Hydroxylase (hCYP11B1). Endocrinology, 2000, 141, 3587-3594.	2.8	16
88	Aberrant gonadotropin-releasing hormone receptor (GnRHR) expression and its regulation of CYP11B2 expression and aldosterone production in adrenal aldosterone-producing adenoma (APA). Molecular and Cellular Endocrinology, 2014, 384, 102-108.	3.2	15
89	The Concordance Between Imaging and Adrenal Vein Sampling Varies With Aldosterone-Driver Somatic Mutation. Journal of Clinical Endocrinology and Metabolism, 2020, 105, e3628-e3637.	3.6	14
90	Targeted Mutational Analysis of Cortisol-Producing Adenomas. Journal of Clinical Endocrinology and Metabolism, 2022, 107, e594-e603.	3.6	13

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91	Circadian rhythms of 11-oxygenated C19 steroids and âˆ†5-steroid sulfates in healthy men. European Journal of Endocrinology, 2021, 185, K1-K6.	3.7	12
92	The Age-Dependent Changes of the Human Adrenal Cortical Zones Are Not Congruent. Journal of Clinical Endocrinology and Metabolism, 2021, 106, 1389-1397.	3.6	11
93	Aldosterone-Regulating Receptors and Aldosterone-Driver Somatic Mutations. Frontiers in Endocrinology, 2021, 12, 644382.	3.5	11
94	Concomitant Pheochromocytoma and Primary Aldosteronism: A Case Series and Literature Review. Journal of the Endocrine Society, 2021, 5, bvab107.	0.2	11
95	Somatic mutations in adrenocortical carcinoma with primary aldosteronism or hyperreninemic hyperaldosteronism. Endocrine-Related Cancer, 2019, 26, 217-225.	3.1	10
96	Targeted RNAseq of Formalin-Fixed Paraffin-Embedded Tissue to Differentiate Among Benign and Malignant Adrenal Cortical Tumors. Hormone and Metabolic Research, 2020, 52, 607-613.	1.5	9
97	Primary Cultures and Cell Lines for <i>In Vitro</i> Modeling of the Human Adrenal Cortex. Tohoku Journal of Experimental Medicine, 2021, 253, 217-232.	1.2	9
98	Suppressive effects of RXR agonist PA024 on adrenal CYP11B2 expression, aldosterone secretion and blood pressure. PLoS ONE, 2017, 12, e0181055.	2.5	9
99	Angiotensin II receptor blockers differentially affect CYP11B2 expression in human adrenal H295R cells. Molecular and Cellular Endocrinology, 2014, 383, 60-68.	3.2	8
100	Molecular and Electrophysiological Analyses of ATP2B4 Gene Variants in Bilateral Adrenal Hyperaldosteronism. Hormones and Cancer, 2020, 11, 52-62.	4.9	8
101	Approaches to Gene Mutation Analysis Using Formalin-Fixed Paraffin-Embedded Adrenal Tumor Tissue From Patients With Primary Aldosteronism. Frontiers in Endocrinology, 2021, 12, 683588.	3.5	8
102	Primary aldosteronism diagnostics: KCNJ5 mutations and hybrid steroid synthesis in aldosterone-producing adenomas. Gland Surgery, 2020, 9, 3-13.	1.1	7
103	The Potential Role of Aldosterone-Producing Cell Clusters in Adrenal Disease. Hormone and Metabolic Research, 2020, 52, 427-434.	1.5	7
104	Telomerase activity in human germline and embryonic tissues and cells. , 1996, 18, 173.		7
105	Transcriptomic Response Dynamics of Human Primary and Immortalized Adrenocortical Cells to Steroidogenic Stimuli. Cells, 2021, 10, 2376.	4.1	6
106	GPER-independent inhibition of adrenocortical cancer growth by G-1 involves ROS/Egr-1/BAX pathway. Oncotarget, 2017, 8, 115609-115619.	1.8	6
107	The Application of High Density Microarray for Analysis of Mitogenic Signaling and Cell-Cycle in the Adrenal. Endocrine Research, 2000, 26, 807-823.	1.2	5
108	Synthetic High-Density Lipoprotein (sHDL) Inhibits Steroid Production in HAC15 Adrenal Cells. Endocrinology, 2016, 157, 3122-3129.	2.8	5

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109	RNA-binding proteins regulate aldosterone homeostasis in human steroidogenic cells. Rna, 2021, 27, 933-945.	3.5	5
110	Pathophysiology of bilateral hyperaldosteronism. Current Opinion in Endocrinology, Diabetes and Obesity, 2022, 29, 233-242.	2.3	5
111	Targeted RNA sequencing of adrenal zones using immunohistochemistry-guided capture of formalin-fixed paraffin-embedded tissue. Molecular and Cellular Endocrinology, 2021, 530, 111296.	3.2	4
112	Histopathology and Genetic Causes of Primary Aldosteronism in Young Adults. Journal of Clinical Endocrinology and Metabolism, 2022, 107, 2473-2482.	3.6	4
113	Intratumoral steroid profiling of adrenal cortisol-producing adenomas by liquid chromatography-mass spectrometry. Journal of Steroid Biochemistry and Molecular Biology, 2021, 212, 105924.	2.5	3
114	Introduction to the 2014 Adrenal Cortex Conference Keith L. Parker Memorial Lecturer: Bernard Schimmer, Ph.D.. Molecular and Cellular Endocrinology, 2015, 408, 2-4.	3.2	1
115	Masking by hypokalemiaâ€"primary aldosteronism with undetectable aldosterone. CKJ: Clinical Kidney Journal, 2021, 14, 1269-1271.	2.9	1
116	SAT-010 Adrenal Androgen Synthesis in Aging Men. Journal of the Endocrine Society, 2019, 3, .	0.2	1
117	A functional analysis of angiotensin II targets through genome wide surveys. American Journal of Hypertension, 2001, 14, A147-A148.	2.0	0
118	SAT-345 11-oxygenated Adrenal Androgens Are Produced In Several Mammalian Species. Journal of the Endocrine Society, 2019, 3, .	0.2	0
119	OR29-3 Targeted Assessment of G0S2 Methylation Identifies a Rapidly Recurrent, Routinely Fatal Molecular Subtype of Adrenocortical Carcinoma. Journal of the Endocrine Society, 2019, 3, .	0.2	0
120	SUN-387 ACTH-Independent Cushing Syndrome from Pregnancy-Induced Micronodular Hyperplasia. Journal of the Endocrine Society, 2019, 3, .	0.2	0
121	SUN-364 In Search of Predictors of Concordance between Imaging and Adrenal Vein Sampling in Unilateral Primary Aldosteronism. Journal of the Endocrine Society, 2019, 3, .	0.2	0
122	SAT-061 Determinants of Cosyntropin Effect on Adrenal Vein Sampling Lateralization in Primary Aldosteronism. Journal of the Endocrine Society, 2019, 3, .	0.2	0
123	SAT-LB062 Adrenal Sexual Dimorphism Is Abolished by Tissue-Targeted Deletion of the Androgen Receptor. Journal of the Endocrine Society, 2019, 3, .	0.2	0
124	SAT-352 Comprehensive Genetic Analysis of Cortisol-Producing Adenomas. Journal of the Endocrine Society, 2019, 3, .	0.2	0
125	SAT-554 Genetic Profile of Early-Onset Aldosterone-Producing Adenomas. Journal of the Endocrine Society, 2020, 4, .	0.2	0