

Celso E Gomez-Sanchez

List of Publications by Citations

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123
papers

6,613
citations

40
h-index

79
g-index

134
ext. papers

7,779
ext. citations

5.6
avg, IF

5.67
L-index

#	Paper	IF	Citations
123	Case detection, diagnosis, and treatment of patients with primary aldosteronism: an endocrine society clinical practice guideline. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2008 , 93, 3266-81	5.6	1231
122	Outcomes after adrenalectomy for unilateral primary aldosteronism: an international consensus on outcome measures and analysis of remission rates in an international cohort. <i>Lancet Diabetes and Endocrinology</i> , 2017 , 5, 689-699	18.1	355
121	Primary hyperaldosteronism in essential hypertensives: prevalence, biochemical profile, and molecular biology. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2000 , 85, 1863-7	5.6	333
120	Adipocytes produce aldosterone through calcineurin-dependent signaling pathways: implications in diabetes mellitus-associated obesity and vascular dysfunction. <i>Hypertension</i> , 2012 , 59, 1069-78	8.5	232
119	Aldosterone-stimulating somatic gene mutations are common in normal adrenal glands. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E4591-9	11.5	192
118	Adipocyte-Derived Hormone Leptin Is a Direct Regulator of Aldosterone Secretion, Which Promotes Endothelial Dysfunction and Cardiac Fibrosis. <i>Circulation</i> , 2015 , 132, 2134-45	16.7	187
117	Development of monoclonal antibodies against human CYP11B1 and CYP11B2. <i>Molecular and Cellular Endocrinology</i> , 2014 , 383, 111-7	4.4	181
116	Extra-adrenal glucocorticoids and mineralocorticoids: evidence for local synthesis, regulation, and function. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2011 , 301, E11-24	6	167
115	Development of a panel of monoclonal antibodies against the mineralocorticoid receptor. <i>Endocrinology</i> , 2006 , 147, 1343-8	4.8	154
114	The multifaceted mineralocorticoid receptor. <i>Comprehensive Physiology</i> , 2014 , 4, 965-94	7.7	150
113	Invalidation of TASK1 potassium channels disrupts adrenal gland zonation and mineralocorticoid homeostasis. <i>EMBO Journal</i> , 2008 , 27, 179-87	13	149
112	Potassium channel mutant KCNJ5 T158A expression in HAC-15 cells increases aldosterone synthesis. <i>Endocrinology</i> , 2012 , 153, 1774-82	4.8	139
111	The hsp90-FKBP52 complex links the mineralocorticoid receptor to motor proteins and persists bound to the receptor in early nuclear events. <i>Molecular and Cellular Biology</i> , 2010 , 30, 1285-98	4.8	119
110	Forebrain mineralocorticoid receptor overexpression enhances memory, reduces anxiety and attenuates neuronal loss in cerebral ischaemia. <i>European Journal of Neuroscience</i> , 2007 , 25, 1832-42	3.5	117
109	Elevated urinary excretion of 18-oxocortisol in glucocorticoid-suppressible aldosteronism. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1984 , 59, 1022-4	5.6	110
108	Activating mutations in CTNNB1 in aldosterone producing adenomas. <i>Scientific Reports</i> , 2016 , 6, 19546	4.9	106
107	Adrenocortical zonation results from lineage conversion of differentiated zona glomerulosa cells. <i>Developmental Cell</i> , 2013 , 26, 666-673	10.2	103

106	Immunohistochemical, genetic and clinical characterization of sporadic aldosterone-producing adenomas. <i>Molecular and Cellular Endocrinology</i> , 2015 , 411, 146-54	4.4	96
105	Measurement of peripheral plasma 18-oxocortisol can discriminate unilateral adenoma from bilateral diseases in patients with primary aldosteronism. <i>Hypertension</i> , 2015 , 65, 1096-102	8.5	83
104	Central interactions of aldosterone and angiotensin II in aldosterone- and angiotensin II-induced hypertension. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011 , 300, H555-64	5.2	82
103	18-hydroxycorticosterone, 18-hydroxycortisol, and 18-oxocortisol in the diagnosis of primary aldosteronism and its subtypes. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2012 , 97, 881-9	5.6	82
102	In vivo nuclear translocation of mineralocorticoid and glucocorticoid receptors in rat kidney: differential effect of corticosteroids along the distal tubule. <i>American Journal of Physiology - Renal Physiology</i> , 2010 , 299, F1473-85	4.3	81
101	Genetic Characteristics of Aldosterone-Producing Adenomas in Blacks. <i>Hypertension</i> , 2019 , 73, 885-892	8.5	78
100	Histopathological Classification of Cross-Sectional Image-Negative Hyperaldosteronism. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2017 , 102, 1182-1192	5.6	73
99	Adrenal CYP11B1/2 expression in primary aldosteronism: immunohistochemical analysis using novel monoclonal antibodies. <i>Molecular and Cellular Endocrinology</i> , 2014 , 392, 73-9	4.4	66
98	Development of adrenal zonation in fetal rats defined by expression of aldosterone synthase and 11beta-hydroxylase. <i>Endocrinology</i> , 1998 , 139, 4397-403	4.8	66
97	Aldosterone synthesis in the brain contributes to Dahl salt-sensitive rat hypertension. <i>Experimental Physiology</i> , 2010 , 95, 120-30	2.4	63
96	The ubiquitous mineralocorticoid receptor: clinical implications. <i>Current Hypertension Reports</i> , 2012 , 14, 573-80	4.7	62
95	Disabled-2 is expressed in adrenal zona glomerulosa and is involved in aldosterone secretion. <i>Endocrinology</i> , 2007 , 148, 2644-52	4.8	60
94	18-oxocortisol measurement in adrenal vein sampling as a biomarker for subclassifying primary aldosteronism. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2011 , 96, E1272-8	5.6	57
93	PKA inhibits WNT signalling in adrenal cortex zonation and prevents malignant tumour development. <i>Nature Communications</i> , 2016 , 7, 12751	17.4	55
92	The potassium channel, Kir3.4 participates in angiotensin II-stimulated aldosterone production by a human adrenocortical cell line. <i>Endocrinology</i> , 2012 , 153, 4328-35	4.8	51
91	Development of a novel cell based androgen screening model. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2016 , 156, 17-22	5.1	50
90	A novel KCNJ5-insT149 somatic mutation close to, but outside, the selectivity filter causes resistant hypertension by loss of selectivity for potassium. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2014 , 99, E1765-73	5.6	49
89	Different Somatic Mutations in Multinodular Adrenals With Aldosterone-Producing Adenoma. <i>Hypertension</i> , 2015 , 66, 1014-22	8.5	48

88	The prevalence of CTNNB1 mutations in primary aldosteronism and consequences for clinical outcomes. <i>Scientific Reports</i> , 2017 , 7, 39121	4.9	47
87	Regulation of 11 beta-hydroxysteroid dehydrogenase enzymes in the rat kidney by estradiol. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2003 , 285, E272-9	6	47
86	Targeting CXCR4 (CXC Chemokine Receptor Type 4) for Molecular Imaging of Aldosterone-Producing Adenoma. <i>Hypertension</i> , 2018 , 71, 317-325	8.5	46
85	Different expression of 11 β hydroxylase and aldosterone synthase between aldosterone-producing microadenomas and macroadenomas. <i>Hypertension</i> , 2014 , 64, 438-44	8.5	44
84	International Histopathology Consensus for Unilateral Primary Aldosteronism. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2021 , 106, 42-54	5.6	42
83	Cardiomyocyte glucocorticoid and mineralocorticoid receptors directly and antagonistically regulate heart disease in mice. <i>Science Signaling</i> , 2019 , 12,	8.8	40
82	Central regulation of blood pressure by the mineralocorticoid receptor. <i>Molecular and Cellular Endocrinology</i> , 2012 , 350, 289-98	4.4	39
81	The 11beta hydroxysteroid dehydrogenase 2 exists as an inactive dimer. <i>Steroids</i> , 2001 , 66, 845-8	2.8	38
80	Immunohistopathology and Steroid Profiles Associated With Biochemical Outcomes After Adrenalectomy for Unilateral Primary Aldosteronism. <i>Hypertension</i> , 2018 , 72, 650-657	8.5	36
79	Immunohistochemistry of aldosterone synthase leads the way to the pathogenesis of primary aldosteronism. <i>Molecular and Cellular Endocrinology</i> , 2017 , 441, 124-133	4.4	36
78	A ZNRF3-dependent Wnt/ β catenin signaling gradient is required for adrenal homeostasis. <i>Genes and Development</i> , 2019 , 33, 209-220	12.6	35
77	Adrenal histopathology in primary aldosteronism: is it time for a change?. <i>Hypertension</i> , 2015 , 66, 724-308.5	3.5	33
76	Expression of mineralocorticoid and glucocorticoid receptors in preautonomic neurons of the rat paraventricular nucleus. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2014 , 306, R328-40	3.2	32
75	Mineralocorticoid receptors are present in skeletal muscle and represent a potential therapeutic target. <i>FASEB Journal</i> , 2015 , 29, 4544-54	0.9	31
74	3 β Hydroxysteroid dehydrogenase isoforms in human aldosterone-producing adenoma. <i>Molecular and Cellular Endocrinology</i> , 2015 , 408, 205-12	4.4	31
73	18-Oxocortisol Synthesis in Aldosterone-Producing Adrenocortical Adenoma and Significance of KCNJ5 Mutation Status. <i>Hypertension</i> , 2019 , 73, 1283-1290	8.5	30
72	PRKACA Somatic Mutations Are Rare Findings in Aldosterone-Producing Adenomas. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2016 , 101, 3010-7	5.6	30
71	Glucocorticoid receptor plays an indispensable role in mineralocorticoid receptor-dependent transcription in GR-deficient BE(2)C and T84 cells in vitro. <i>Molecular and Cellular Endocrinology</i> , 2009 , 302, 18-25	4.4	29

70	DIAGNOSIS OF ENDOCRINE DISEASE: 18-Oxocortisol and 18-hydroxycortisol: is there clinical utility of these steroids?. <i>European Journal of Endocrinology</i> , 2018 , 178, R1-R9	6.5	28
69	Disordered CYP11B2 Expression in Primary Aldosteronism. <i>Hormone and Metabolic Research</i> , 2017 , 49, 957-962	3.1	27
68	Calneuron 1 Increased Ca in the Endoplasmic Reticulum and Aldosterone Production in Aldosterone-Producing Adenoma. <i>Hypertension</i> , 2018 , 71, 125-133	8.5	27
67	Intratumoral heterogeneity of steroidogenesis in aldosterone-producing adenoma revealed by intensive double- and triple-immunostaining for CYP11B2/B1 and CYP17. <i>Molecular and Cellular Endocrinology</i> , 2016 , 422, 57-63	4.4	23
66	Somatic KCNJ5 mutation occurring early in adrenal development may cause a novel form of juvenile primary aldosteronism. <i>Molecular and Cellular Endocrinology</i> , 2017 , 441, 134-139	4.4	23
65	The Biology of Normal Zona Glomerulosa and Aldosterone-Producing Adenoma: Pathological Implications. <i>Endocrine Reviews</i> , 2018 , 39, 1029-1056	27.2	23
64	Hypomethylation of CYP11B2 in Aldosterone-Producing Adenoma. <i>Hypertension</i> , 2016 , 68, 1432-1437	8.5	22
63	Minireview: potassium channels and aldosterone dysregulation: is primary aldosteronism a potassium channelopathy?. <i>Endocrinology</i> , 2014 , 155, 47-55	4.8	22
62	Genome-wide analysis of murine renal distal convoluted tubular cells for the target genes of mineralocorticoid receptor. <i>Biochemical and Biophysical Research Communications</i> , 2014 , 445, 132-7	3.4	21
61	Diverse immunostaining patterns of mineralocorticoid receptor monoclonal antibodies. <i>Steroids</i> , 2011 , 76, 1541-5	2.8	21
60	Disordered zonal and cellular CYP11B2 enzyme expression in familial hyperaldosteronism type 3. <i>Molecular and Cellular Endocrinology</i> , 2017 , 439, 74-80	4.4	19
59	Immunohistochemical demonstration of the mineralocorticoid receptor, 11beta-hydroxysteroid dehydrogenase-1 and -2, and hexose-6-phosphate dehydrogenase in rat ovary. <i>Journal of Histochemistry and Cytochemistry</i> , 2009 , 57, 633-41	3.4	19
58	Tumor Cell Subtypes Based on the Intracellular Hormonal Activity in KCNJ5-Mutated Aldosterone-Producing Adenoma. <i>Hypertension</i> , 2018 , 72, 632-640	8.5	19
57	Primary Aldosteronism: KCNJ5 Mutations and Adrenocortical Cell Growth. <i>Hypertension</i> , 2019 , 74, 809-816	8.5	18
56	Rapid Screening of Primary Aldosteronism by a Novel Chemiluminescent Immunoassay. <i>Hypertension</i> , 2017 , 70, 334-341	8.5	18
55	Mouse Models of Primary Aldosteronism: From Physiology to Pathophysiology. <i>Endocrinology</i> , 2017 , 158, 4129-4138	4.8	15
54	Non-islet Cell Hypoglycemia: Case Series and Review of the Literature. <i>Frontiers in Endocrinology</i> , 2019 , 10, 316	5.7	15
53	Gonadotropin-Releasing Hormone Stimulate Aldosterone Production in a Subset of Aldosterone-Producing Adenoma. <i>Medicine (United States)</i> , 2016 , 95, e3659	1.8	15

52	Temporal and spatial distribution of mast cells and steroidogenic enzymes in the human fetal adrenal. <i>Molecular and Cellular Endocrinology</i> , 2016 , 434, 69-80	4.4	15
51	Histopathological and genetic characterization of aldosterone-producing adenomas with concurrent subclinical cortisol hypersecretion: a case series. <i>Endocrine</i> , 2017 , 58, 503-512	4	14
50	Development of monoclonal antibodies against the human 3 β hydroxysteroid dehydrogenase/isomerase isozymes. <i>Steroids</i> , 2017 , 127, 56-61	2.8	14
49	Cortisol overproduction results from DNA methylation of CYP11B1 in hypercortisolemia. <i>Scientific Reports</i> , 2017 , 7, 11205	4.9	14
48	A time-resolved fluoroimmunoassay for 18-oxocortisol and 18-hydroxycortisol. Development of a monoclonal antibody to 18-oxocortisol. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2002 , 82, 83-8	5.1	13
47	Functional imaging with ¹¹ C-metomidate PET for subtype diagnosis in primary aldosteronism. <i>European Journal of Endocrinology</i> , 2020 , 183, 539-550	6.5	13
46	Gene expression effects of glucocorticoid and mineralocorticoid receptor agonists and antagonists on normal human skeletal muscle. <i>Physiological Genomics</i> , 2017 , 49, 277-286	3.6	12
45	Immunohistochemistry of the adrenal in primary aldosteronism. <i>Current Opinion in Endocrinology, Diabetes and Obesity</i> , 2016 , 23, 242-8	4	12
44	Regulation of aldosterone biosynthesis by the Kir3.4 (KCNJ5) potassium channel. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2013 , 40, 895-901	3	12
43	Myeloid cells are capable of synthesizing aldosterone to exacerbate damage in muscular dystrophy. <i>Human Molecular Genetics</i> , 2016 , 25, 5167-5177	5.6	11
42	Role of cAMP/PKA pathway and T-type calcium channels in the mechanism of action of serotonin in human adrenocortical cells. <i>Molecular and Cellular Endocrinology</i> , 2017 , 441, 99-107	4.4	11
41	In situ metabolomics of aldosterone-producing adenomas. <i>JCI Insight</i> , 2019 , 4,	9.9	11
40	Endoplasmic Reticulum Chaperone Calmegin Is Upregulated in Aldosterone-Producing Adenoma and Associates With Aldosterone Production. <i>Hypertension</i> , 2020 , 75, 492-499	8.5	11
39	Measurement of 11-dehydrocorticosterone in mice, rats and songbirds: Effects of age, sex and stress. <i>General and Comparative Endocrinology</i> , 2019 , 281, 173-182	3	10
38	11 β hydroxysteroid dehydrogenases: A growing multi-tasking family. <i>Molecular and Cellular Endocrinology</i> , 2021 , 526, 111210	4.4	10
37	Similar efficacy from specific and non-specific mineralocorticoid receptor antagonist treatment of muscular dystrophy mice. <i>Journal of Neuromuscular Diseases</i> , 2016 , 3, 395-404	5	10
36	Normoaldosteronemic aldosterone-producing adenoma: immunochemical characterization and diagnostic implications. <i>Journal of Hypertension</i> , 2015 , 33, 2546-9	1.9	9
35	Review of Markers of Zona Glomerulosa and Aldosterone-Producing Adenoma Cells. <i>Hypertension</i> , 2017 , 70, 867-874	8.5	8

34	Mineralocorticoid Receptor Antagonists in Muscular Dystrophy Mice During Aging and Exercise. <i>Journal of Neuromuscular Diseases</i> , 2018 , 5, 295-306	5	8
33	Calf adrenocortical fasciculata cells secrete aldosterone when placed in primary culture. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 1993 , 45, 493-500	5.1	8
32	Chemogenetic activation of adrenocortical Gq signaling causes hyperaldosteronism and disrupts functional zonation. <i>Journal of Clinical Investigation</i> , 2020 , 130, 83-93	15.9	8
31	Interaction of the Mineralocorticoid Receptor With RACK1 and Its Role in Aldosterone Signaling. <i>Endocrinology</i> , 2017 , 158, 2367-2375	4.8	7
30	Expression of aldosterone synthase CYP11B2 was inversely correlated with longevity. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2019 , 191, 105361	5.1	7
29	Somatic mutations of the ATP1A1 gene and aldosterone-producing adenomas. <i>Molecular and Cellular Endocrinology</i> , 2015 , 408, 213-9	4.4	7
28	Disorganized Steroidogenesis in Adrenocortical Carcinoma, a Case Study. <i>Endocrine Pathology</i> , 2017 , 28, 27-35	4.2	7
27	The landscape of molecular mechanism for aldosterone production in aldosterone-producing adenoma. <i>Endocrine Journal</i> , 2020 , 67, 989-995	2.9	7
26	Purkinje Cell Protein 4 Expression Is Associated With DNA Methylation Status in Aldosterone-Producing Adenoma. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2018 , 103, 965-971	5.6	6
25	DLK1/PREF1 marks a novel cell population in the human adrenal cortex. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2019 , 193, 105422	5.1	6
24	The protective side of the mineralocorticoid receptor. <i>Endocrinology</i> , 2012 , 153, 1565-7	4.8	6
23	Immunohistochemistry of the Human Adrenal CYP11B2 in Normal Individuals and in Patients with Primary Aldosteronism. <i>Hormone and Metabolic Research</i> , 2020 , 52, 421-426	3.1	6
22	Corticotroph tumor progression after bilateral adrenalectomy (Nelson's syndrome): systematic review and expert consensus recommendations. <i>European Journal of Endocrinology</i> , 2021 , 184, P1-P16	6.5	6
21	Utilization of a mutagenesis screen to generate mouse models of hyperaldosteronism. <i>Endocrinology</i> , 2011 , 152, 326-31	4.8	5
20	Renal Injuries in Primary Aldosteronism: Quantitative Histopathological Analysis of 19 Patients With Primary Adosteronism. <i>Hypertension</i> , 2021 , 78, 411-421	8.5	5
19	Incomplete Pattern of Steroidogenic Protein Expression in Functioning Adrenocortical Carcinomas. <i>Biomedicines</i> , 2020 , 8,	4.8	4
18	YPEL4 modulates HAC15 adrenal cell proliferation and is associated with tumor diameter. <i>Molecular and Cellular Endocrinology</i> , 2016 , 434, 93-8	4.4	4
17	Mineralocorticoid Receptor Signaling Contributes to Normal Muscle Repair After Acute Injury. <i>Frontiers in Physiology</i> , 2019 , 10, 1324	4.6	3

16	Mutant in Aldosterone-Producing Adenoma Leads to Cell Proliferation. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	2
15	Non-neoplastic/hyperplastic primary aldosteronism ¶ts histopathology and genotype. <i>Current Opinion in Endocrine and Metabolic Research</i> , 2019 , 8, 122-131	1.7	1
14	Genotype-specific cortisol production associated with Cushing¶ syndrome adenoma with PRKACA mutations. <i>Molecular and Cellular Endocrinology</i> , 2021 , 538, 111456	4.4	1
13	Familial Hyperaldosteronism Type 3 with a Rapidly Growing Adrenal Tumor: An In Situ Aldosterone Imaging Study. <i>Current Issues in Molecular Biology</i> , 2022 , 44, 128-138	2.9	1
12	Creation of a quick and sensitive fluorescent immunosensor for detecting the mineralocorticoid steroid hormone aldosterone.. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2022 , 221, 106118	5.1	1
11	Aldosterone/Mineralocorticoid Receptors and Their Renal Effects: Molecular Biology and Gene Regulation 2018 , 493-515		0
10	Response to Letter on use of functional imaging by 11C-metomidate PET for primary aldosteronism subtyping. <i>European Journal of Endocrinology</i> , 2021 , 184, L11-L12	6.5	0
9	11¶SD2 Efficacy in Preventing Transcriptional Activation of the Mineralocorticoid Receptor by Corticosterone. <i>Journal of the Endocrine Society</i> , 2021 , 5, bvab146	0.4	0
8	Hypomethylation associated vitamin D receptor expression in ATP1A1 mutant aldosterone-producing adenoma.. <i>Molecular and Cellular Endocrinology</i> , 2022 , 548, 111613	4.4	0
7	Testosterone and Renal Renin Angiotensin System in salt sensitive hypertension.. <i>FASEB Journal</i> , 2006 , 20, A1193	0.9	
6	MicroRNA-21 Increases Aldosterone Secretion and Proliferation in H295R Human Adrenocortical Cells. <i>FASEB Journal</i> , 2008 , 22, 736.6	0.9	
5	Aldosterone (ALDO)-Salt induced activation of the Lamina Terminalis (LT) and paraventricular nucleus (PVN) neurons that express mineralocorticoid receptors (MR) in rats. <i>FASEB Journal</i> , 2008 , 22, 73-73	0.9	
4	Synthesis of aldosterone in the brain contributes to the hypertension in the Dahl salt sensitive rat. <i>FASEB Journal</i> , 2009 , 23, 1017.27	0.9	
3	Drosha-dependent miRNA regulate aldosterone synthesis by increasing StAR and HSD3B2 expression. <i>FASEB Journal</i> , 2012 , 26, 1093.14	0.9	
2	Brain 11¶hydroxysteroid dehydrogenase activity: which enzyme?. <i>FASEB Journal</i> , 2012 , 26, 706.6	0.9	
1	Expression of Mineralocorticoid and Glucocorticoid receptors in Pre-autonomic Neurons of the Rat Paraventricular Nucleus. <i>FASEB Journal</i> , 2013 , 27, 535.4	0.9	