Bon-chu Chung

List of Publications by Year
in descending order

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115 papers	6,379 citations	71102 41 h-index	69250 77 g-index
123 all docs	123 docs citations	123 times ranked	4827 citing authors

#	Article	IF	Citations
1	Cytochrome P450c17 (steroid 17 alpha-hydroxylase/17,20 lyase): cloning of human adrenal and testis cDNAs indicates the same gene is expressed in both tissues.. Proceedings of the National Academy of Sciences of the United States of America, 1987, 84, 407-411.	7.1	414
2	Human cholesterol side-chain cleavage enzyme, P450scc: cDNA cloning, assignment of the gene to chromosome 15, and expression in the placenta.. Proceedings of the National Academy of Sciences of the United States of America, 1986, 83, 8962-8966.	7.1	343
3	Two Sox9 Genes on Duplicated Zebrafish Chromosomes: Expression of Similar Transcription Activators in Distinct Sites. Developmental Biology, 2001, 231, 149-163.	2.0	303
4	Developmental expression of cytochrome P450 aromatase genes (CYP19a and CYP19b) in zebrafish fry (Danio rerio). The Journal of Experimental Zoology, 2001, 290, 475-483.	1.4	280
5	Aromatase in the brain of teleost fish: Expression, regulation and putative functions. Frontiers in Neuroendocrinology, 2010, 31, 172-192.	5.2	270
6	Hormonal Regulation of P450scc (20,22-desmolase) and P450cl7 (17Î±-hydroxylase/17,20-lyase) in Cultured Human Granulosa Cells*. Journal of Clinical Endocrinology and Metabolism, 1986, 63, 202-207.	3.6	257
7	A zebrafishsox9gene required for cartilage morphogenesis. Development (Cambridge), 2002, 129, 5065-5079.	2.5	252
8	Two Cyp19 (P450 Aromatase) Genes on Duplicated Zebrafish Chromosomes Are Expressed in Ovary or Brain. Molecular Biology and Evolution, 2001, 18, 542-550.	8.9	199
9	ASSIGNMENT OF THE GENE FOR ADRENAL P450cl7 (STEROID 17Î±-HYDROXYLASEâ,,17,20 LYASE) TO HUMAN CHROMOSOME 10.. Journal of Clinical Endocrinology and Metabolism, 1986, 63, 789-791.	3.6	172
10	Screening Estrogenic Activities of Chemicals or Mixtures In Vivo Using Transgenic (cyp19a1b-GFP) Zebrafish Embryos. PLoS ONE, 2012, 7, e36069.	2.5	164
11	Steroid Deficiency Syndromes in Mice with Targeted Disruption of Cyp11a1. Molecular Endocrinology, 2002, 16, 1943-1950.	3.7	141
12	A cyp19a1bâ€gfp (aromatase B) transgenic zebrafish line that expresses GFP in radial glial cells. Genesis, 2009, 47, 67-73.	1.6	118
13	Functions of the Upstream and Proximal Steroidogenic Factor 1 (SF-1)-Binding Sites in the CYP11A1 Promoter in Basal Transcription and Hormonal Response. Molecular Endocrinology, 2001, 15, 812-818.	3.7	109
14	Structure of a bovine gene for P-450c21 (steroid 21-hydroxylase) defines a novel cytochrome P-450 gene family.. Proceedings of the National Academy of Sciences of the United States of America, 1986, 83, 4243-4247.	7.1	102
15	Analysis of zebrafish cyp19 promoters. Journal of Steroid Biochemistry and Molecular Biology, 2003, 86, 381-386.	2.5	97
16	Parallel early development of zebrafish interrenal glands and pronephros:differential control by wt1 and ff1b. Development (Cambridge), 2003, 130, 2107-2116.	2.5	96
17	Pregnenolone stabilizes microtubules and promotes zebrafish embryonic cell movement. Nature, 2006, 439, 480-483.	27.8	94
18	SUMO Modification of Repression Domains Modulates Function of Nuclear Receptor 5A1 (Steroidogenic Factor-1). Journal of Biological Chemistry, 2004, 279, 38730-38735.	3.4	88

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19	Study of Cholesterol Side-Chain Cleavage (20,22 Desmolase) Deficiency Causing Congenital Lipoid Adrenal Hyperplasia Using Bovine-Sequence P450scc Oligodeoxyribonucleotide Probes*. Endocrinology, 1986, 118, 1296-1305.	2.8	87
20	Function of Steroidogenic Factor 1 Domains in Nuclear Localization, Transactivation, and Interaction with Transcription Factor TFIIB and c-Jun. Molecular Endocrinology, 1999, 13, 1588-1598.	3.7	80
21	Estradiol rapidly modulates synaptic plasticity of hippocampal neurons: Involvement of kinase networks. Brain Research, 2015, 1621, 147-161.	2.2	78
22	17Î±-Ethinylestradiol disrupts the ontogeny of the forebrain GnRH system and the expression of brain aromatase during early development of zebrafish. Aquatic Toxicology, 2010, 99, 479-491.	4.0	77
23	Regulation of steroid production: Analysis of Cyp11a1 promoter. Molecular and Cellular Endocrinology, 2011, 336, 80-84.	3.2	77
24	Characterization of duplicated zebrafishcyp19 genes. The Journal of Experimental Zoology, 2001, 290, 709-714.	1.4	73
25	SF-1 (Nuclear Receptor 5A1) Activity Is Activated by Cyclic AMP via p300-Mediated Recruitment to Active Foci, Acetylation, and Increased DNA Binding. Molecular and Cellular Biology, 2005, 25, 10442-10453.	2.3	73
26	Cyclic AMP Stimulates SF-1-Dependent CYP11A1 Expression through Homeodomain-Interacting Protein Kinase 3-Mediated Jun N-Terminal Kinase and c-Jun Phosphorylation. Molecular and Cellular Biology, 2007, 27, 2027-2036.	2.3	73
27	Zebrafish monosex population reveals female dominance in sex determination and earliest events of gonad differentiation. Developmental Biology, 2010, 344, 849-856.	2.0	70
28	Expression of zebrafish cyp11a1 as a maternal transcript and in yolk syncytial layer. Gene Expression Patterns, 2002, 2, 219-222.	0.8	68
29	Function of Cyp11a1 in animal models. Molecular and Cellular Endocrinology, 2004, 215, 95-100.	3.2	61
30	Variegated expression of a mouse steroid 21-hydroxylase/beta- galactosidase transgene suggests centripetal migration of adrenocortical cells. Molecular Endocrinology, 1996, 10, 585-598.	3.7	60
31	Glycolytic genes are targets of the nuclear receptor Ad4BP/SF-1. Nature Communications, 2014, 5, 3634.	12.8	57
32	Cloning and Structure of the Human Adrenodoxin Gene. DNA and Cell Biology, 1988, 7, 609-615.	5.2	55
33	Tissue-Specific, Hormonal, and Developmental Regulation ofSCC-LacZExpression in Transgenic Mice Leads to Adrenocortical Zone Characterization¹. Endocrinology, 1999, 140, 5609-5618.	2.8	55
34	Cloning and Characterization of the Bovine Gene for Steroid 21-Hydroxylase (P-450_{c21}). DNA and Cell Biology, 1985, 4, 211-219.	5.2	51
35	The Roles of Circulating High-Density Lipoproteins and Trophic Hormones in the Phenotype of Knockout Mice Lacking the Steroidogenic Acute Regulatory Protein. Molecular Endocrinology, 2002, 16, 2297-2309.	3.7	51
36	Transcriptional regulation of the CYP11A1 and ferredoxin genes. Steroids, 1997, 62, 37-42.	1.8	50

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37	Chromosomal Organization, Evolutionary Relationship, and Expression of Zebrafish GnRH Family Members. Journal of Biomedical Science, 2005, 12, 629-639.	7.0	49
38	Pregnenolone activates CLIP-170 to promote microtubule growth and cell migration. Nature Chemical Biology, 2013, 9, 636-642.	8.0	49
39	Gene duplication, gene loss and evolution of expression domains in the vertebrate nuclear receptor NR5A (Ftz-F1) family. Biochemical Journal, 2005, 389, 19-26.	3.7	47
40	Histone Deacetylase Inhibitors Reduce Steroidogenesis through SCF-Mediated Ubiquitination and Degradation of Steroidogenic Factor 1 (NR5A1). Molecular and Cellular Biology, 2007, 27, 7284-7290.	2.3	46
41	Function of CYP11A1 in the mitochondria. Molecular and Cellular Endocrinology, 2017, 441, 55-61.	3.2	45
42	Regulation of steroidogenesis in transgenic mice and zebrafish. Molecular and Cellular Endocrinology, 2001, 171, 9-14.	3.2	42
43	Transcriptional regulation of human CYP11A1 in gonads and adrenals. Journal of Biomedical Science, 2007, 14, 509-515.	7.0	42
44	Expression of Human 21-Hydroxylase (P450c21) in Bacterial and Mammalian Cells: A System to Characterize Normal and Mutant Enzymes. Molecular Endocrinology, 1990, 4, 893-898.	3.7	41
45	Misregulated Progesterone Secretion and Impaired Pregnancy in Cyp11a1 Transgenic Mice1. Biology of Reproduction, 2013, 89, 91.	2.7	41
46	Nongenomic actions of neurosteroid pregnenolone and its metabolites. Steroids, 2016, 111, 54-59.	1.8	41
47	Steroidogenesis in zebrafish and mouse models. Molecular and Cellular Endocrinology, 2006, 248, 160-163.	3.2	38
48	Fetal Glucocorticoid Synthesis Is Required for Development of Fetal Adrenal Medulla and Hypothalamus Feedback Suppression. Endocrinology, 2012, 153, 4749-4756.	2.8	38
49	Zebrafish ftz-f1 gene has two promoters, is alternatively spliced, and is expressed in digestive organs. Biochemical Journal, 2000, 348, 439-446.	3.7	37
50	Phylogeny, expression and enzyme activity of zebrafish cyp19 (P450 aromatase) genes. Journal of Steroid Biochemistry and Molecular Biology, 2001, 79, 299-303.	2.5	37
51	Differential Regulation of the CYP11A1 (P450scc) and Ferredoxin Genes in Adrenal and Placental Cells. DNA and Cell Biology, 1993, 12, 849-860.	1.9	36
52	The Common I172N Mutation Causes Conformational Change of Cytochrome P450c21 Revealed by Systematic Mutation, Kinetic, and Structural Studies. Journal of Biological Chemistry, 1996, 271, 3306-3310.	3.4	35
53	Cloning of zebrafish cdna for 3Î²-hydroxysteroid dehydrogenase and P450scc. Endocrine Research, 1998, 24, 927-931.	1.2	34
54	Activating Protein-1 Cooperates with Steroidogenic Factor-1 to Regulate 3â€²,5â€²-Cyclic Adenosine 5â€²-Monophosphate-Dependent HumanCYP11A1Transcriptionin Vitroandin Vivo. Endocrinology, 2007, 148, 1804-1812.	2.8	34

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55	Zebrafish cyp11a1 and hsd3b genes: Structure, expression and steroidogenic development during embryogenesis. Molecular and Cellular Endocrinology, 2009, 312, 31-34.	3.2	34
56	Exposures of zebrafish through diet to three environmentally relevant mixtures of PAHs produce behavioral disruptions in unexposed F1 and F2 descendant. Environmental Science and Pollution Research, 2015, 22, 16371-16383.	5.3	34
57	Transcriptional Regulation of CYP11A1. Journal of Biomedical Science, 2003, 10, 593-598.	7.0	33
58	Tumor Necrosis Factor Suppresses NR5A2 Activity and Intestinal Glucocorticoid Synthesis to Sustain Chronic Colitis. Science Signaling, 2014, 7, ra20.	3.6	32
59	The 5â€²-region of the P450XIA1 (P450scc) gene contains a basal promoter and an adrenal-specific activating domain. Biochemical and Biophysical Research Communications, 1989, 160, 276-281.	2.1	30
60	Zebrafish ftz-f1a (nuclear receptor 5a2) functions in skeletal muscle organization. Developmental Biology, 2005, 286, 377-390.	2.0	30
61	Mutation of MouseCyp11a1Promoter Caused Tissue-Specific Reduction of Gene Expression and Blunted Stress Response without Affecting Reproduction. Molecular Endocrinology, 2008, 22, 915-923.	3.7	30
62	Expression and Functional Study of Wild-Type and Mutant Human Cytochrome P450c21 inSaccharomyces cerevisiae. DNA and Cell Biology, 1991, 10, 201-209.	1.9	29
63	Cell-type specificity of human CYP11A1 TATA box. Journal of Steroid Biochemistry and Molecular Biology, 1999, 69, 329-334.	2.5	28
64	Structure, Sequence, Chromosomal Location, and Evolution of the Human Ferredoxin Gene Family. DNA and Cell Biology, 1990, 9, 205-212.	1.9	27
65	Characterization of the Upstream Sequence of the Human CYP11A1 Gene for Cell Type-specific Expression. Journal of Biological Chemistry, 1996, 271, 22125-22129.	3.4	27
66	Analysis of the Chimeric CYP21P/CYP21 Gene in Steroid 21-Hydroxylase Deficiency. Clinical Chemistry, 2000, 46, 606-611.	3.2	27
67	Lis1 dysfunction leads to traction force reduction and cytoskeletal disorganization during cell migration. Biochemical and Biophysical Research Communications, 2018, 497, 869-875.	2.1	27
68	Carrier Analysis and Prenatal Diagnosis of Congenital Adrenal Hyperplasia Caused by 21-Hydroxylase Deficiency in Chinese1. Journal of Clinical Endocrinology and Metabolism, 2000, 85, 597-600.	3.6	26
69	Steroidogenic Factor 1 (NR5A1) Maintains Centrosome Homeostasis in Steroidogenic Cells by Restricting Centrosomal DNA-Dependent Protein Kinase Activation. Molecular and Cellular Biology, 2013, 33, 476-484.	2.3	26
70	Functions of the Upstream and Proximal Steroidogenic Factor 1 (SF-1)-Binding Sites in the CYP11A1 Promoter in Basal Transcription and Hormonal Response. Molecular Endocrinology, 2001, 15, 812-818.	3.7	26
71	Two Zebrafish hsd3b Genes Are Distinct in Function, Expression, and Evolution. Endocrinology, 2015, 156, 2854-2862.	2.8	23
72	Function of Steroidogenic Factor 1 Domains in Nuclear Localization, Transactivation, and Interaction with Transcription Factor TFIIB and c-Jun. Molecular Endocrinology, 1999, 13, 1588-1598.	3.7	23

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73	Steroidogenic factor 1 differentially regulates basal and inducible steroidogenic gene expression and steroid synthesis in human adrenocortical H295R cells. Journal of Steroid Biochemistry and Molecular Biology, 2004, 91, 11-20.	2.5	22
74	Transcriptional activation of endoplasmic reticulum chaperone GRP78 by HCMV IE1-72 protein. Cell Research, 2011, 21, 642-653.	12.0	22
75	Function and membrane topology of wild-type and mutated cytochrome P-450c21. Biochemical Journal, 1996, 316, 325-329.	3.7	21
76	Differential inhibition of progesterone synthesis in bovine luteal cells by estrogens and androgens. Life Sciences, 2001, 68, 1851-1865.	4.3	21
77	Molecular cloning of DNA complementary to bovine adrenal P450scc mRNA. Biochemical and Biophysical Research Communications, 1984, 120, 264-270.	2.1	20
78	Revisiting Classical 3Î²-hydroxysteroid Dehydrogenase 2 Deficiency: Lessons from 31 Pediatric Cases. Journal of Clinical Endocrinology and Metabolism, 2020, 105, e1718-e1728.	3.6	20
79	Regulation of Cholesterol Side-Chain Cleavage Cytochrome P450 in Mouse Testis Leydig Cell Line I-10. DNA and Cell Biology, 1995, 14, 803-810.	1.9	19
80	Action of hormone responsive sequence in 2.3 kb promoter of CYP11A1. Molecular and Cellular Endocrinology, 2001, 175, 205-210.	3.2	19
81	The specific uptake of cloned Haemophilus DNA. Biochemical and Biophysical Research Communications, 1979, 88, 208-214.	2.1	18
82	Zebrafish ftz-f1 gene has two promoters, is alternatively spliced, and is expressed in digestive organs. Biochemical Journal, 2000, 348, 439.	3.7	18
83	Death-associated Protein 6 (Daxx) Mediates cAMP-dependent Stimulation of Cyp11a1 (P450scc) Transcription. Journal of Biological Chemistry, 2012, 287, 5910-5916.	3.4	15
84	Chemical Inhibition of Human Thymidylate Kinase and Structural Insights into the Phosphate Binding Loop and Ligand-Induced Degradation. Journal of Medicinal Chemistry, 2016, 59, 9906-9918.	6.4	15
85	Function of Steroidogenic Factor 1 (SF1) Ligand-Binding Domain in Gene Activation and Interaction with AP1. Biochemical and Biophysical Research Communications, 1998, 250, 318-320.	2.1	14
86	Tissue-Specific, Hormonal, and Developmental Regulation of SCC-LacZ Expression in Transgenic Mice Leads to Adrenocortical Zone Characterization. Endocrinology, 1999, 140, 5609-5618.	2.8	14
87	A novel compound heterozygous mutation of K494_V495 deletion plus R496L and D487_F489 deletion in extreme C-terminus of cytochrome P450c17 causes 17Î±-hydroxylase deficiency. Molecular and Cellular Endocrinology, 2006, 249, 16-20.	3.2	13
88	Changes in the morphology and gene expression of developing zebrafish gonads. General and Comparative Endocrinology, 2018, 265, 154-159.	1.8	13
89	Evolution, Expression, and Function of Gonadal Somatic Cell-Derived Factor. Frontiers in Cell and Developmental Biology, 2021, 9, 684352.	3.7	13
90	Novel missense mutations, GCC [Ala306]â€“Â>ÂGTC [Val] and ACG [Thr318]â€“Â>ÂCCG [Pro], in the CYP11B1 gene cause steroid 11Î²â€hydroxylase deficiency in the Chinese. Clinical Endocrinology, 2005, 62, 418-422.	2.4	12

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91	Structure and expression of the CYP21 (P450c21, steroid 21-hydroxylase) gene with respect to its deficiency. Endocrine Research, 1995, 21, 343-352.	1.2	11
92	Distinct functions of steroidogenic factor-1 (NR5A1) in the nucleus and the centrosome. Molecular and Cellular Endocrinology, 2013, 371, 148-153.	3.2	11
93	Analysis of the human adrenodoxin promoter: Evidence for its activity. Biochemical and Biophysical Research Communications, 1989, 159, 343-348.	2.1	8
94	Fluorescent Nanodiamond â€“ A Novel Nanomaterial forIn VivoApplications. Materials Research Society Symposia Proceedings, 2011, 1362, 1.	0.1	8
95	Amplification of P450c21 expression in cultured mammalian cells. Biochemical and Biophysical Research Communications, 1992, 186, 426-431.	2.1	7
96	NR5A1 prevents centriole splitting by inhibiting centrosomal DNA-PK activation and Î²-catenin accumulation. Cell Communication and Signaling, 2014, 12, 55.	6.5	7
97	Regulation of ferredoxin gene in steroidogenic and nonsteroidogenic cells. Journal of Steroid Biochemistry and Molecular Biology, 1995, 53, 47-51.	2.5	6
98	Hedgehog-PKA Signaling and gnrh3 Regulate the Development of Zebrafish gnrh3 Neurons. PLoS ONE, 2014, 9, e95545.	2.5	6
99	Physiology and Molecular Biology of P450c21 and P450c17. Advances in Molecular and Cell Biology, 1996, 14, 203-223.	0.1	5
100	Characterization of the consequence of a novel Glu-380 to Asp mutation by expression of functional P450c21 in Escherichia coli. BBA - Proteins and Proteomics, 1999, 1430, 95-102.	2.1	5
101	Sp1-like proteins function in the transcription of human ferredoxin genes. Journal of Biomedical Science, 2000, 7, 144-151.	7.0	5
102	The First Defect in Electron Transfer to Mitochondrial P450 Enzymes. Endocrinology, 2016, 157, 1003-1006.	2.8	5
103	Highâ€fat dietâ€induced increases in glucocorticoids contribute to the development of nonâ€alcoholic fatty liver disease in mice. FASEB Journal, 2022, 36, e22130.	0.5	5
104	Transcriptional regulation ofCYP11A1. Journal of Biomedical Science, 2003, 10, 593-598.	7.0	4
105	An Approach to the Molecular Biology of Congenital Adrenal Hyperplasia. Annals of the New York Academy of Sciences, 1985, 458, 238-251.	3.8	3
106	Evolution of Alu repeats surrounding the human ferredoxin gene. Biochemical and Biophysical Research Communications, 1991, 177, 120-124.	2.1	3
107	Study of the Function of Proximal SFâ€1 Binding Sites onCYP11A1Promoter. Endocrine Research, 2004, 30, 813-814.	1.2	3
108	Embryonic Steroids Control Developmental Programming of Energy Balance. Endocrinology, 2021, 162, .	2.8	3

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109	Zebrafish Establish Female Germ Cell Identity by Advancing Cell Proliferation and Meiosis. Frontiers in Cell and Developmental Biology, 2022, 10, 866267.	3.7	3
110	STEROID DEFICIENCY SYNDROMES IN MICE WITH TARGETED DISRUPTION OFCyp11a1. Endocrine Research, 2002, 28, 575-575.	1.2	2
111	Characterization of Alu repeats surrounding the human ferredoxin-encoding gene. Gene, 1991, 104, 283-284.	2.2	1
112	Fish as a model for endocrine systems. Molecular and Cellular Endocrinology, 2021, 531, 111316.	3.2	1
113	Function and Regulation of Steroidogenic Genes in Development. Endocrine Research, 2004, 30, 521-521.	1.2	0
114	1P229 Analysis of neurosteroid effects on hippocampal neural circuits using novel multi-electrode probe methods(16. Neuronal circuit & Information processing,Poster,The 52nd Annual Meeting of) Tj ETQq0 0 0 rgBT /Overlock 10	0	0
115	Cyp11a1 Overexpression in Transgenic Mice Leads to Misregulated Progesterone Production and Impaired Pregnancy.. Biology of Reproduction, 2012, 87, 176-176.	2.7	0