

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
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123
all docs

123
docs citations

123
times ranked

4827
citing authors

#	ARTICLE	IF	CITATIONS
1	Zebrafish Establish Female Germ Cell Identity by Advancing Cell Proliferation and Meiosis. <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, 866267.	3.7	3
2	High-fat diet-induced increases in glucocorticoids contribute to the development of non-alcoholic fatty liver disease in mice. <i>FASEB Journal</i> , 2022, 36, e22130.	0.5	5
3	Evolution, Expression, and Function of Gonadal Somatic Cell-Derived Factor. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 684352.	3.7	13
4	Fish as a model for endocrine systems. <i>Molecular and Cellular Endocrinology</i> , 2021, 531, 111316.	3.2	1
5	Embryonic Steroids Control Developmental Programming of Energy Balance. <i>Endocrinology</i> , 2021, 162, .	2.8	3
6	Revisiting Classical 3 β -hydroxysteroid Dehydrogenase 2 Deficiency: Lessons from 31 Pediatric Cases. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2020, 105, e1718-e1728.	3.6	20
7	Lis1 dysfunction leads to traction force reduction and cytoskeletal disorganization during cell migration. <i>Biochemical and Biophysical Research Communications</i> , 2018, 497, 869-875.	2.1	27
8	Changes in the morphology and gene expression of developing zebrafish gonads. <i>General and Comparative Endocrinology</i> , 2018, 265, 154-159.	1.8	13
9	Function of CYP11A1 in the mitochondria. <i>Molecular and Cellular Endocrinology</i> , 2017, 441, 55-61.	3.2	45
10	The First Defect in Electron Transfer to Mitochondrial P450 Enzymes. <i>Endocrinology</i> , 2016, 157, 1003-1006.	2.8	5
11	Chemical Inhibition of Human Thymidylate Kinase and Structural Insights into the Phosphate Binding Loop and Ligand-Induced Degradation. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 9906-9918.	6.4	15
12	Nongenomic actions of neurosteroid pregnenolone and its metabolites. <i>Steroids</i> , 2016, 111, 54-59.	1.8	41
13	Estradiol rapidly modulates synaptic plasticity of hippocampal neurons: Involvement of kinase networks. <i>Brain Research</i> , 2015, 1621, 147-161.	2.2	78
14	Exposures of zebrafish through diet to three environmentally relevant mixtures of PAHs produce behavioral disruptions in unexposed F1 and F2 descendant. <i>Environmental Science and Pollution Research</i> , 2015, 22, 16371-16383.	5.3	34
15	Two Zebrafish hsd3b Genes Are Distinct in Function, Expression, and Evolution. <i>Endocrinology</i> , 2015, 156, 2854-2862.	2.8	23
16	Hedgehog-PKA Signaling and gnrh3 Regulate the Development of Zebrafish gnrh3 Neurons. <i>PLoS ONE</i> , 2014, 9, e95545.	2.5	6
17	Tumor Necrosis Factor Suppresses NR5A2 Activity and Intestinal Glucocorticoid Synthesis to Sustain Chronic Colitis. <i>Science Signaling</i> , 2014, 7, ra20.	3.6	32
18	Glycolytic genes are targets of the nuclear receptor Ad4BP/SF-1. <i>Nature Communications</i> , 2014, 5, 3634.	12.8	57

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19	NR5A1 prevents centriole splitting by inhibiting centrosomal DNA-PK activation and β -catenin accumulation. Cell Communication and Signaling, 2014, 12, 55.	6.5	7
20	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 000rgBT /Overlock 10		
21	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
22	Distinct functions of steroidogenic factor-1 (NR5A1) in the nucleus and the centrosome. Molecular and Cellular Endocrinology, 2013, 371, 148-153.	3.2	11
23	Misregulated Progesterone Secretion and Impaired Pregnancy in Cyp11a1 Transgenic Mice1. Biology of Reproduction, 2013, 89, 91.	2.7	41
24	Pregnenolone activates CLIP-170 to promote microtubule growth and cell migration. Nature Chemical Biology, 2013, 9, 636-642.	8.0	49
25	Fetal Glucocorticoid Synthesis Is Required for Development of Fetal Adrenal Medulla and Hypothalamus Feedback Suppression. Endocrinology, 2012, 153, 4749-4756.	2.8	38
26	Death-associated Protein 6 (Daxx) Mediates cAMP-dependent Stimulation of Cyp11a1 (P450 _{scc}) Transcription. Journal of Biological Chemistry, 2012, 287, 5910-5916.	3.4	15
27	Screening Estrogenic Activities of Chemicals or Mixtures In Vivo Using Transgenic (cyp19a1b-GFP) Zebrafish Embryos. PLoS ONE, 2012, 7, e36069.	2.5	164
28	Cyp11a1 Overexpression in Transgenic Mice Leads to Misregulated Progesterone Production and Impaired Pregnancy.. Biology of Reproduction, 2012, 87, 176-176.	2.7	0
29	Fluorescent Nanodiamond â€“ A Novel Nanomaterial for<i>In Vivo</i>Applications. Materials Research Society Symposia Proceedings, 2011, 1362, 1.	0.1	8
30	Regulation of steroid production: Analysis of Cyp11a1 promoter. Molecular and Cellular Endocrinology, 2011, 336, 80-84.	3.2	77
31	Transcriptional activation of endoplasmic reticulum chaperone GRP78 by HCMV IE1-72 protein. Cell Research, 2011, 21, 642-653.	12.0	22
32	Aromatase in the brain of teleost fish: Expression, regulation and putative functions. Frontiers in Neuroendocrinology, 2010, 31, 172-192.	5.2	270
33	Zebrafish monosex population reveals female dominance in sex determination and earliest events of gonad differentiation. Developmental Biology, 2010, 344, 849-856.	2.0	70
34	17 β -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
35	A <i>cyp19a1bâ€“gfp</i> (aromatase B) transgenic zebrafish line that expresses GFP in radial glial cells. Genesis, 2009, 47, 67-73.	1.6	118
36	Zebrafish cyp11a1 and hsd3b genes: Structure, expression and steroidogenic development during embryogenesis. Molecular and Cellular Endocrinology, 2009, 312, 31-34.	3.2	34

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37	Mutation of Mouse <i>Cyp11a1</i> Promoter Caused Tissue-Specific Reduction of Gene Expression and Blunted Stress Response without Affecting Reproduction. <i>Molecular Endocrinology</i> , 2008, 22, 915-923.	3.7	30
38	Activating Protein-1 Cooperates with Steroidogenic Factor-1 to Regulate 3 β ,5 β -Cyclic Adenosine 5 β -Monophosphate-Dependent Human CYP11A1 Transcription in Vitro and in Vivo. <i>Endocrinology</i> , 2007, 148, 1804-1812.	2.8	34
39	Histone Deacetylase Inhibitors Reduce Steroidogenesis through SCF-Mediated Ubiquitination and Degradation of Steroidogenic Factor 1 (NR5A1). <i>Molecular and Cellular Biology</i> , 2007, 27, 7284-7290.	2.3	46
40	Cyclic AMP Stimulates SF-1-Dependent CYP11A1 Expression through Homeodomain-Interacting Protein Kinase 3-Mediated Jun N-Terminal Kinase and c-Jun Phosphorylation. <i>Molecular and Cellular Biology</i> , 2007, 27, 2027-2036.	2.3	73
41	Transcriptional regulation of human CYP11A1 in gonads and adrenals. <i>Journal of Biomedical Science</i> , 2007, 14, 509-515.	7.0	42
42	Steroidogenesis in zebrafish and mouse models. <i>Molecular and Cellular Endocrinology</i> , 2006, 248, 160-163.	3.2	38
43	A novel compound heterozygous mutation of K494_V495 deletion plus R496L and D487_F489 deletion in extreme C-terminus of cytochrome P450c17 causes 17 β -hydroxylase deficiency. <i>Molecular and Cellular Endocrinology</i> , 2006, 249, 16-20.	3.2	13
44	Pregnenolone stabilizes microtubules and promotes zebrafish embryonic cell movement. <i>Nature</i> , 2006, 439, 480-483.	27.8	94
45	Gene duplication, gene loss and evolution of expression domains in the vertebrate nuclear receptor NR5A (Ftz-F1) family. <i>Biochemical Journal</i> , 2005, 389, 19-26.	3.7	47
46	Novel missense mutations, GCC [Ala306] \rightarrow GTC [Val] and ACG [Thr318] \rightarrow ACCG [Pro], in the <i>CYP11B1</i> gene cause steroid 11 β -hydroxylase deficiency in the Chinese. <i>Clinical Endocrinology</i> , 2005, 62, 418-422.	2.4	12
47	Chromosomal Organization, Evolutionary Relationship, and Expression of Zebrafish GnRH Family Members. <i>Journal of Biomedical Science</i> , 2005, 12, 629-639.	7.0	49
48	SF-1 (Nuclear Receptor 5A1) Activity Is Activated by Cyclic AMP via p300-Mediated Recruitment to Active Foci, Acetylation, and Increased DNA Binding. <i>Molecular and Cellular Biology</i> , 2005, 25, 10442-10453.	2.3	73
49	Zebrafish <i>ftz-f1a</i> (nuclear receptor 5a2) functions in skeletal muscle organization. <i>Developmental Biology</i> , 2005, 286, 377-390.	2.0	30
50	SUMO Modification of Repression Domains Modulates Function of Nuclear Receptor 5A1 (Steroidogenic Factor-1). <i>Journal of Biological Chemistry</i> , 2004, 279, 38730-38735.	3.4	88
51	Function and Regulation of Steroidogenic Genes in Development. <i>Endocrine Research</i> , 2004, 30, 521-521.	1.2	0
52	Study of the Function of Proximal SF-1 Binding Sites on <i>CYP11A1</i> Promoter. <i>Endocrine Research</i> , 2004, 30, 813-814.	1.2	3
53	Function of <i>Cyp11a1</i> in animal models. <i>Molecular and Cellular Endocrinology</i> , 2004, 215, 95-100.	3.2	61
54	Steroidogenic factor 1 differentially regulates basal and inducible steroidogenic gene expression and steroid synthesis in human adrenocortical H295R cells. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2004, 91, 11-20.	2.5	22

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55	Transcriptional regulation of CYP11A1. Journal of Biomedical Science, 2003, 10, 593-598.	7.0	4
56	Analysis of zebrafish cyp19 promoters. Journal of Steroid Biochemistry and Molecular Biology, 2003, 86, 381-386.	2.5	97
57	Parallel early development of zebrafish interrenal glands and pronephros: differential control by wt1 and ff1b. Development (Cambridge), 2003, 130, 2107-2116.	2.5	96
58	Transcriptional Regulation of CYP11A1. Journal of Biomedical Science, 2003, 10, 593-598.	7.0	33
59	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
60	Steroid Deficiency Syndromes in Mice with Targeted Disruption of Cyp11a1. Molecular Endocrinology, 2002, 16, 1943-1950.	3.7	141
61	STEROID DEFICIENCY SYNDROMES IN MICE WITH TARGETED DISRUPTION OF Cyp11a1. Endocrine Research, 2002, 28, 575-575.	1.2	2
62	Expression of zebrafish cyp11a1 as a maternal transcript and in yolk syncytial layer. Gene Expression Patterns, 2002, 2, 219-222.	0.8	68
63	A zebrafish <i>sox9</i> gene required for cartilage morphogenesis. Development (Cambridge), 2002, 129, 5065-5079.	2.5	252
64	Two Sox9 Genes on Duplicated Zebrafish Chromosomes: Expression of Similar Transcription Activators in Distinct Sites. Developmental Biology, 2001, 231, 149-163.	2.0	303
65	Regulation of steroidogenesis in transgenic mice and zebrafish. Molecular and Cellular Endocrinology, 2001, 171, 9-14.	3.2	42
66	Action of hormone responsive sequence in 2.3 kb promoter of CYP11A1. Molecular and Cellular Endocrinology, 2001, 175, 205-210.	3.2	19
67	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
68	Differential inhibition of progesterone synthesis in bovine luteal cells by estrogens and androgens. Life Sciences, 2001, 68, 1851-1865.	4.3	21
69	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
70	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
71	Characterization of duplicated zebrafish cyp19 genes. The Journal of Experimental Zoology, 2001, 290, 709-714.	1.4	73
72	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

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73	Functions of the Upstream and Proximal Steroidogenic Factor 1 (SF-1)-Binding Sites in the CYP11A1 Promoter in Basal Transcription and Hormonal Response. <i>Molecular Endocrinology</i> , 2001, 15, 812-818.	3.7	26
74	Zebrafish ftz-f1 gene has two promoters, is alternatively spliced, and is expressed in digestive organs. <i>Biochemical Journal</i> , 2000, 348, 439-446.	3.7	37
75	Zebrafish ftz-f1 gene has two promoters, is alternatively spliced, and is expressed in digestive organs. <i>Biochemical Journal</i> , 2000, 348, 439.	3.7	18
76	Sp1-like proteins function in the transcription of human ferredoxin genes. <i>Journal of Biomedical Science</i> , 2000, 7, 144-151.	7.0	5
77	Analysis of the Chimeric CYP21P/CYP21 Gene in Steroid 21-Hydroxylase Deficiency. <i>Clinical Chemistry</i> , 2000, 46, 606-611.	3.2	27
78	Carrier Analysis and Prenatal Diagnosis of Congenital Adrenal Hyperplasia Caused by 21-Hydroxylase Deficiency in Chinese1. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2000, 85, 597-600.	3.6	26
79	Function of Steroidogenic Factor 1 Domains in Nuclear Localization, Transactivation, and Interaction with Transcription Factor TFIIB and c-Jun. <i>Molecular Endocrinology</i> , 1999, 13, 1588-1598.	3.7	80
80	Tissue-Specific, Hormonal, and Developmental Regulation of SCC-LacZ Expression in Transgenic Mice Leads to Adrenocortical Zone Characterization ¹ . <i>Endocrinology</i> , 1999, 140, 5609-5618.	2.8	55
81	Characterization of the consequence of a novel Glu-380 to Asp mutation by expression of functional P450c21 in <i>Escherichia coli</i> . <i>BBA - Proteins and Proteomics</i> , 1999, 1430, 95-102.	2.1	5
82	Cell-type specificity of human CYP11A1 TATA box. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 1999, 69, 329-334.	2.5	28
83	Tissue-Specific, Hormonal, and Developmental Regulation of SCC-LacZ Expression in Transgenic Mice Leads to Adrenocortical Zone Characterization. <i>Endocrinology</i> , 1999, 140, 5609-5618.	2.8	14
84	Function of Steroidogenic Factor 1 Domains in Nuclear Localization, Transactivation, and Interaction with Transcription Factor TFIIB and c-Jun. <i>Molecular Endocrinology</i> , 1999, 13, 1588-1598.	3.7	23
85	Cloning of zebrafish cDNA for 3 β -hydroxysteroid dehydrogenase and P450 _{scc} . <i>Endocrine Research</i> , 1998, 24, 927-931.	1.2	34
86	Function of Steroidogenic Factor 1 (SF1) Ligand-Binding Domain in Gene Activation and Interaction with AP1. <i>Biochemical and Biophysical Research Communications</i> , 1998, 250, 318-320.	2.1	14
87	Transcriptional regulation of the CYP11A1 and ferredoxin genes. <i>Steroids</i> , 1997, 62, 37-42.	1.8	50
88	Physiology and Molecular Biology of P450c21 and P450c17. <i>Advances in Molecular and Cell Biology</i> , 1996, 14, 203-223.	0.1	5
89	Function and membrane topology of wild-type and mutated cytochrome <i>c</i> -P450c21. <i>Biochemical Journal</i> , 1996, 316, 325-329.	3.7	21
90	Characterization of the Upstream Sequence of the Human CYP11A1 Gene for Cell Type-specific Expression. <i>Journal of Biological Chemistry</i> , 1996, 271, 22125-22129.	3.4	27

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91	The Common I172N Mutation Causes Conformational Change of Cytochrome P450c21 Revealed by Systematic Mutation, Kinetic, and Structural Studies. <i>Journal of Biological Chemistry</i> , 1996, 271, 3306-3310.	3.4	35
92	Variegated expression of a mouse steroid 21-hydroxylase/beta- galactosidase transgene suggests centripetal migration of adrenocortical cells. <i>Molecular Endocrinology</i> , 1996, 10, 585-598.	3.7	60
93	Regulation of Cholesterol Side-Chain Cleavage Cytochrome P450 in Mouse Testis Leydig Cell Line I-10. <i>DNA and Cell Biology</i> , 1995, 14, 803-810.	1.9	19
94	Structure and expression of the CYP21 (P450c21, steroid 21-hydroxylase) gene with respect to its deficiency. <i>Endocrine Research</i> , 1995, 21, 343-352.	1.2	11
95	Regulation of ferredoxin gene in steroidogenic and nonsteroidogenic cells. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 1995, 53, 47-51.	2.5	6
96	Differential Regulation of the CYP11A1 (P450scc) and Ferredoxin Genes in Adrenal and Placental Cells. <i>DNA and Cell Biology</i> , 1993, 12, 849-860.	1.9	36
97	Amplification of P450c21 expression in cultured mammalian cells. <i>Biochemical and Biophysical Research Communications</i> , 1992, 186, 426-431.	2.1	7
98	Evolution of Alu repeats surrounding the human ferredoxin gene. <i>Biochemical and Biophysical Research Communications</i> , 1991, 177, 120-124.	2.1	3
99	Characterization of Alu repeats surrounding the human ferredoxin-encoding gene. <i>Gene</i> , 1991, 104, 283-284.	2.2	1
100	Expression and Functional Study of Wild-Type and Mutant Human Cytochrome P450c21 in <i>Saccharomyces cerevisiae</i> . <i>DNA and Cell Biology</i> , 1991, 10, 201-209.	1.9	29
101	Expression of Human 21-Hydroxylase (P450c21) in Bacterial and Mammalian Cells: A System to Characterize Normal and Mutant Enzymes. <i>Molecular Endocrinology</i> , 1990, 4, 893-898.	3.7	41
102	Structure, Sequence, Chromosomal Location, and Evolution of the Human Ferredoxin Gene Family. <i>DNA and Cell Biology</i> , 1990, 9, 205-212.	1.9	27
103	The 5' region of the P450XIA1 (P450scc) gene contains a basal promoter and an adrenal-specific activating domain. <i>Biochemical and Biophysical Research Communications</i> , 1989, 160, 276-281.	2.1	30
104	Analysis of the human adrenodoxin promoter: Evidence for its activity. <i>Biochemical and Biophysical Research Communications</i> , 1989, 159, 343-348.	2.1	8
105	Cloning and Structure of the Human Adrenodoxin Gene. <i>DNA and Cell Biology</i> , 1988, 7, 609-615.	5.2	55
106	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.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1987, 84, 407-411.	7.1	414
107	Human cholesterol side-chain cleavage enzyme, P450scc: cDNA cloning, assignment of the gene to chromosome 15, and expression in the placenta.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1986, 83, 8962-8966.	7.1	343
108	Structure of a bovine gene for P-450c21 (steroid 21-hydroxylase) defines a novel cytochrome P-450 gene family.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1986, 83, 4243-4247.	7.1	102

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109	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
110	Hormonal Regulation of P450scc (20,22-desmolase) and P450cl7 (17 β -hydroxylase/17,20-lyase) in Cultured Human Granulosa Cells*. Journal of Clinical Endocrinology and Metabolism, 1986, 63, 202-207.	3.6	257
111	ASSIGNMENT OF THE GENE FOR ADRENAL P450cl7 (STEROID 17 β -HYDROXYLASE, 17,20 LYASE) TO HUMAN CHROMOSOME 10.. Journal of Clinical Endocrinology and Metabolism, 1986, 63, 789-791.	3.6	172
112	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
113	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
114	Molecular cloning of DNA complementary to bovine adrenal P450scc mRNA. Biochemical and Biophysical Research Communications, 1984, 120, 264-270.	2.1	20
115	The specific uptake of cloned Haemophilus DNA. Biochemical and Biophysical Research Communications, 1979, 88, 208-214.	2.1	18