Israel Hanukoglu

List of Publications by Year
in descending order

80 papers	5,906 citations	101496 36 h-index	85498 71 g-index
80 all docs	80 docs citations	80 times ranked	6004 citing authors

#	Article	IF	Citations
1	Mutations in subunits of the epithelial sodium channel cause salt wasting with hyperkalaemic acidosis, pseudohypoaldosteronism type 1. Nature Genetics, 1996, 12, 248-253.	9.4	752
2	Steroidogenic enzymes: Structure, function, and role in regulation of steroid hormone biosynthesis. Journal of Steroid Biochemistry and Molecular Biology, 1992, 43, 779-804.	1.2	437
3	The cDNA sequence of a type II cytoskeletal keratin reveals constant and variable structural domains among keratins. Cell, 1983, 33, 915-924.	13.5	341
4	The cDNA sequence of a human epidermal keratin: Divergence of sequence but conservation of structure among intermediate filament proteins. Cell, 1982, 31, 243-252.	13.5	318
5	Epithelial sodium channel (ENaC) family: Phylogeny, structureâ€“function, tissue distribution, and associated inherited diseases. Gene, 2016, 579, 95-132.	1.0	310
6	Simple and efficient site-directed mutagenesis using two single-primer reactions in parallel to generate mutants for protein structure-function studies. BMC Biotechnology, 2009, 9, 61.	1.7	285
7	THE CONCISE GUIDE TO PHARMACOLOGY 2019/20: Ion channels. British Journal of Pharmacology, 2019, 176, S142-S228.	2.7	242
8	Antioxidant Protective Mechanisms against Reactive Oxygen Species (ROS) Generated by Mitochondrial P450 Systems in Steroidogenic Cells. Drug Metabolism Reviews, 2006, 38, 171-196.	1.5	228
9	cDNA sequence of adrenodoxin reductase. Identification of NADP-binding sites in oxidoreductases. FEBS Journal, 1989, 180, 479-484.	0.2	191
10	THE CONCISE GUIDE TO PHARMACOLOGY 2021/22: Ion channels. British Journal of Pharmacology, 2021, 178, S157-S245.	2.7	187
11	Complementary DNA sequence of a human cytoplasmic actin. Journal of Molecular Biology, 1983, 163, 673-678.	2.0	130
12	The Structure of Adrenodoxin Reductase of Mitochondrial P 450 Systems: Electron Transfer for Steroid Biosynthesis. Journal of Molecular Biology, 1999, 289, 981-990.	2.0	129
13	Olfactory-specific Cytochrome P-450. Journal of Biological Chemistry, 1989, 264, 6780-6785.	1.6	128
14	Mitochondrial cytochrome P-450sec. Mechanism of electron transport by adrenodoxin.. Journal of Biological Chemistry, 1980, 255, 3057-3061.	1.6	121
15	Electron Leakage from the Mitochondrial NADPH-Adrenodoxin Reductase-Adrenodoxin-P450scc (Cholesterol Side Chain Cleavage) System. Archives of Biochemistry and Biophysics, 1993, 305, 489-498.	1.4	107
16	Unraveling the structure of the intermediate filaments. Cell, 1983, 34, 332-334.	13.5	103
17	Proteopedia: Rossmann fold: A betaâ€alphaâ€beta fold at dinucleotide binding sites. Biochemistry and Molecular Biology Education, 2015, 43, 206-209.	0.5	102
18	Human adrenodoxin reductase: two mRNAs encoded by a single gene on chromosome 17cen---q25 are expressed in steroidogenic tissues.. Proceedings of the National Academy of Sciences of the United States of America, 1988, 85, 7104-7108.	3.3	93

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19	Adrenal mitochondrial cytochrome P-450scc. Cholesterol and adrenodoxin interactions at equilibrium and during turnover.. Journal of Biological Chemistry, 1981, 256, 4321-4328.	1.6	92
20	Stoichiometry of mitochondrial cytochromes P-450, adrenodoxin and adrenodoxin reductase in adrenal cortex and corpus luteum. Implications for membrane organization and gene regulation. FEBS Journal, 1986, 157, 27-31.	0.2	91
21	Epithelial sodium channels (ENaC) are uniformly distributed on motile cilia in the oviduct and the respiratory airways. Histochemistry and Cell Biology, 2012, 137, 339-353.	0.8	89
22	Induction and mitochondrial localization of cytochrome P450scc system enzymes in normal and transformed ovarian granulosa cells.. Journal of Cell Biology, 1990, 111, 1373-1381.	2.3	78
23	Localisation of Pseudohypoaldosteronism Genes to Chromosome 16p12.2â€“13.11 and 12p13.1-Pter by Homozygosity Mapping. Human Molecular Genetics, 1996, 5, 293-299.	1.4	73
24	Novel mutations in epithelial sodium channel (ENaC) subunit genes and phenotypic expression of multisystem pseudohypoaldosteronism. Clinical Endocrinology, 2005, 62, 547-553.	1.2	71
25	Mechanism of corticotropin and cAMP induction of mitochondrial cytochrome P450 system enzymes in adrenal cortex cells. Journal of Biological Chemistry, 1990, 265, 20602-20608.	1.6	70
26	ASIC and ENaC type sodium channels: conformational states and the structures of the ion selectivity filters. FEBS Journal, 2017, 284, 525-545.	2.2	69
27	Antioxidant capacity is correlated with steroidogenic status of the corpus luteum during the bovine estrous cycle. Biochimica Et Biophysica Acta - General Subjects, 1998, 1380, 133-140.	1.1	56
28	Mechanisms of ionic activation of adrenal mitochondrial cytochromes P-450scc and P-45011 beta.. Journal of Biological Chemistry, 1981, 256, 4329-4335.	1.6	55
29	Routes and regulation of NADPH production in steroidogenic mitochondria. Endocrine Research, 1995, 21, 231-241.	0.6	54
30	Reninâ€“aldosterone response, urinary Na/K ratio and growth in pseudohypoaldosteronism patients with mutations in epithelial sodium channel (ENaC) subunit genes. Journal of Steroid Biochemistry and Molecular Biology, 2008, 111, 268-274.	1.2	54
31	Electron Leakage from the Adrenal-Cortex Mitochondrial P450Scc and P450C11 Systems: NADPH and Steroid Dependence. Archives of Biochemistry and Biophysics, 1995, 317, 412-416.	1.4	51
32	Novel Mutations Responsible for Autosomal Recessive Multisystem Pseudohypoaldosteronism and Sequence Variants in Epithelial Sodium Channel Î±-, Î²-, and Î³-Subunit Genes. Journal of Clinical Endocrinology and Metabolism, 2002, 87, 3344-3350.	1.8	48
33	Expression of epithelial sodium channel (ENaC) and CFTR in the human epidermis and epidermal appendages. Histochemistry and Cell Biology, 2017, 147, 733-748.	0.8	46
34	Progesterone metabolism in the pineal, brain stem, thalamus and corpus callosum of the female rat. Brain Research, 1977, 125, 313-324.	1.1	45
35	A Fluorometric Assay for Hydrogen Peroxide, Suitable for NAD(P)H-Dependent Superoxide Generating Redox Systems. Analytical Biochemistry, 1994, 218, 309-313.	1.1	42
36	Electron Transfer Proteins of Cytochrome P450 Systems. Advances in Molecular and Cell Biology, 1996, 14, 29-56.	0.1	37

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37	cDNA cloning and sequence analysis of the bovine adrenocorticotropic hormone (ACTH) receptor. Biochimica Et Biophysica Acta - Molecular Cell Research, 1994, 1220, 329-332.	1.9	35
38	Autosomal recessive hyponatremia due to isolated salt wasting in sweat associated with a mutation in the active site of Carbonic Anhydrase 12. Human Genetics, 2011, 129, 397-405.	1.8	35
39	Isolation of a cDNA for adrenodoxin reductase (ferredoxin -NADP+ reductase). Implications for mitochondrial cytochrome P-450 systems. FEBS Journal, 1987, 169, 449-455.	0.2	33
40	Mitochondrial-genome-encoded RNAs: differential regulation by corticotropin in bovine adrenocortical cells.. Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 10509-10513.	3.3	31
41	Gene Structure of the Human Amiloride-Sensitive Epithelial Sodium Channel Beta Subunit. Biochemical and Biophysical Research Communications, 1998, 252, 208-213.	1.0	29
42	Truncated beta epithelial sodium channel (ENaC) subunits responsible for multi-system pseudohypoaldosteronism support partial activity of ENaC. Journal of Steroid Biochemistry and Molecular Biology, 2010, 119, 84-88.	1.2	28
43	Localization of epithelial sodium channel (ENaC) and CFTR in the germinal epithelium of the testis, Sertoli cells, and spermatozoa. Journal of Molecular Histology, 2018, 49, 195-208.	1.0	28
44	Conservation of the Enzymeâ€“Coenzyme Interfaces in FAD and NADP Binding Adrenodoxin Reductaseâ€”A Ubiquitous Enzyme. Journal of Molecular Evolution, 2017, 85, 205-218.	0.8	25
45	Chaperone-assisted expression of authentic bovine adrenodoxin reductase inEscherichia coli. FEBS Letters, 1999, 443, 167-169.	1.3	24
46	The Nature and Significance of Differential Keratin Gene Expression. Annals of the New York Academy of Sciences, 1985, 455, 436-450.	1.8	23
47	Identification of the roles of conserved charged residues in the extracellular domain of an epithelial sodium channel (ENaC) subunit by alanine mutagenesis. American Journal of Physiology - Renal Physiology, 2011, 300, F887-F897.	1.3	23
48	Clinical improvement in patients with autosomal recessive pseudohypoaldosteronism and the necessity for salt supplementation. Clinical and Experimental Nephrology, 2010, 14, 518-519.	0.7	20
49	In situ localization of ACTH receptor-like mRNA in molluscan and human immunocytes. Cellular and Molecular Life Sciences, 1998, 54, 139-142.	2.4	19
50	Conserved charged residues at the surface and interface of epithelial sodium channel subunitsÂâ€“Âroles in cell surface expression and the sodium selfâ€inhibition response. FEBS Journal, 2014, 281, 2097-2111.	2.2	19
51	Identification and classification of epithelial cells in nephron segments by actin cytoskeleton patterns. FEBS Journal, 2020, 287, 1176-1194.	2.2	19
52	Oncogene-transformed granulosa cells as a model system for the study of steroidogenic processes. Journal of Steroid Biochemistry and Molecular Biology, 1992, 43, 875-884.	1.2	16
53	Pregnenolone separation from cholesterol using Sephadex LH-20 mini-columns. Journal of Chromatography A, 1980, 190, 256-262.	1.8	14
54	Exclusion of the locus for autosomal recessive pseudohypoaldosteronism type 1 from the mineralocorticoid receptor gene region on human chromosome 4q by linkage analysis.. Journal of Clinical Endocrinology and Metabolism, 1995, 80, 3341-3345.	1.8	14

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55	Pseudohypoaldosteronism due to renal and multisystem resistance to mineralocorticoids respond differently to carbenoxolone. Journal of Steroid Biochemistry and Molecular Biology, 1997, 60, 105-112.	1.2	14
56	ACTH induces TIMP-1 expression and inhibits collagenase in adrenal cortex cells. Molecular and Cellular Endocrinology, 2004, 215, 109-114.	1.6	14
57	Selective increases in adrenal steroidogenic capacity during acute respiratory disease in infants. European Journal of Endocrinology, 1995, 133, 552-556.	1.9	13
58	Amiloride-sensitive epithelial sodium channel subunits are expressed in human and mussel immunocytes. Developmental and Comparative Immunology, 2002, 26, 395-402.	1.0	11
59	Mapping the sites of localization of epithelial sodium channel (ENaC) and CFTR in segments of the mammalian epididymis. Journal of Molecular Histology, 2019, 50, 141-154.	1.0	11
60	Cloning of LL5, a novel protein encoding cDNA from a rat pituitary library. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1993, 1216, 342-344.	2.4	10
61	Cloning of ACTH-regulated genes in the adrenal cortex. Journal of Steroid Biochemistry and Molecular Biology, 1994, 49, 257-260.	1.2	10
62	Proteopedia entry: Coiledâ€coil structure of keratins. Biochemistry and Molecular Biology Education, 2014, 42, 93-94.	0.5	8
63	Elimination of non-specific binding in Western blots from non-reducing gels. Journal of Proteomics, 1990, 21, 65-68.	2.4	7
64	Expression of the epithelial sodium channel (ENaC) in the endometrium â€“ Implications for fertility in a patient with pseudohypoaldosteronism. Journal of Steroid Biochemistry and Molecular Biology, 2018, 183, 137-141.	1.2	7
65	The Evolution and Complexity of the Genes Encoding the Cytoskeletal Proteins of Human Epidermal Cells. Current Problems in Dermatology, 1983, 11, 27-44.	0.8	7
66	Epidermal Î±-Keratins: Structural Diversity and Changes During Tissue Differentiation. , 1986, , 644-665.		6
67	Highâ€resolution imaging of the actin cytoskeleton and epithelial sodium channel, CFTR, and aquaporinâ€9 localization in the vas deferens. Molecular Reproduction and Development, 2020, 87, 305-319.	1.0	6
68	PROSTAGLANDINS AS FIRST MEDIATORS OF STRESS?. Lancet, The, 1977, 309, 193.	6.3	5
69	Gene Wiki Reviewsâ€"Raising the quality and accessibility of information about the human genome. Gene, 2016, 592, 235-238.	1.0	5
70	Current research on steroid metabolism: Transition from biochemistry to molecular-cell biology. Journal of Steroid Biochemistry and Molecular Biology, 1992, 43, 745-749.	1.2	3
71	In systemic pseudohypoaldosteronism type 1 skin manifestations are not rare and the disease is not transient. Clinical Endocrinology, 2018, 89, 240-241.	1.2	3
72	STRUCTURAL DIVERSITY AND EVOLUTION OF INTERMEDIATE FILAMENT PROTEINS11Our work reviewed here was supported by a U.S. National Institutes of Health grant. I. H. was the recipient of a U.S. National Cancer Institute National Research Service Award. E. F. is the recipient of a National Institutes of Health Career Development Award and a Presidential Young Investigator Award.. , 1986, , 69-98.		3

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73	Structures of Mitochondrial P450 System Proteins. , 1999, , 41-54.		2
74	Molecular Models of Anesthetic Drug Actionâ€"Variations on a Theme. Anesthesiology, 1977, 47, 532-533.	1.3	1
75	ADRENODOXIN REDUCTASE OF MITOCHONDRIAL CYTOCHROME P450 SYSTEMS: STRUCTURE AND REGULATION OF EXPRESSION. , 1991, , 859-864.		0
76	Front Cover Image, Volume 87, Issue 2, February 2020. Molecular Reproduction and Development, 2020, 87, i.	1.0	0
77	Epithelial sodium channel (ENaC) in GtoPdb v.2021.2. IUPHAR/BPS Guide To Pharmacology CITE, 2021, 2021, .	0.2	0
78	Conserved charged residues in the extracellular domain of epithelial sodium channel (ENaC) essential for cellâ€surface expression. FASEB Journal, 2011, 25, lb126.	0.2	0
79	Epithelial sodium channel (ENaC) (version 2019.4) in the IUPHAR/BPS Guide to Pharmacology Database. IUPHAR/BPS Guide To Pharmacology CITE, 2019, 2019, .	0.2	0
80	A retrospective evaluation of a decade of Gene Wiki Reviews and their impact. Gene, 2022, 830, 146534.	1.0	0