

# Israel Hanukoglu

## List of Publications by Citations

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74  
papers

4,850  
citations

33  
h-index

69  
g-index

80  
ext. papers

5,338  
ext. citations

7.6  
avg, IF

5.71  
L-index

#	Paper	IF	Citations
74	Mutations in subunits of the epithelial sodium channel cause salt wasting with hyperkalaemic acidosis, pseudohypoaldosteronism type 1. <i>Nature Genetics</i> , <b>1996</b> , 12, 248-53	36.3	667
73	Steroidogenic enzymes: structure, function, and role in regulation of steroid hormone biosynthesis. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , <b>1992</b> , 43, 779-804	5.1	366
72	The cDNA sequence of a Type II cytoskeletal keratin reveals constant and variable structural domains among keratins. <i>Cell</i> , <b>1983</b> , 33, 915-24	56.2	318
71	The cDNA sequence of a human epidermal keratin: divergence of sequence but conservation of structure among intermediate filament proteins. <i>Cell</i> , <b>1982</b> , 31, 243-52	56.2	300
70	Epithelial sodium channel (ENaC) family: Phylogeny, structure-function, tissue distribution, and associated inherited diseases. <i>Gene</i> , <b>2016</b> , 579, 95-132	3.8	204
69	THE CONCISE GUIDE TO PHARMACOLOGY 2019/20: Ion channels. <i>British Journal of Pharmacology</i> , <b>2019</b> , 176 Suppl 1, S142-S228	8.6	200
68	Antioxidant protective mechanisms against reactive oxygen species (ROS) generated by mitochondrial P450 systems in steroidogenic cells. <i>Drug Metabolism Reviews</i> , <b>2006</b> , 38, 171-96	7	195
67	Simple and efficient site-directed mutagenesis using two single-primer reactions in parallel to generate mutants for protein structure-function studies. <i>BMC Biotechnology</i> , <b>2009</b> , 9, 61	3.5	192
66	cDNA sequence of adrenodoxin reductase. Identification of NADP-binding sites in oxidoreductases. <i>FEBS Journal</i> , <b>1989</b> , 180, 479-84		170
65	The structure of adrenodoxin reductase of mitochondrial P450 systems: electron transfer for steroid biosynthesis. <i>Journal of Molecular Biology</i> , <b>1999</b> , 289, 981-90	6.5	115
64	Complementary DNA sequence of a human cytoplasmic actin. Interspecies divergence of 3U non-coding regions. <i>Journal of Molecular Biology</i> , <b>1983</b> , 163, 673-8	6.5	113
63	Olfactory-specific cytochrome P-450. cDNA cloning of a novel neuroepithelial enzyme possibly involved in chemoreception. <i>Journal of Biological Chemistry</i> , <b>1989</b> , 264, 6780-5	5.4	109
62	Mitochondrial cytochrome P-450 <sub>scc</sub> . Mechanism of electron transport by adrenodoxin. <i>Journal of Biological Chemistry</i> , <b>1980</b> , 255, 3057-61	5.4	105
61	Electron leakage from the mitochondrial NADPH-adrenodoxin reductase-adrenodoxin-P450 <sub>scc</sub> (cholesterol side chain cleavage) system. <i>Archives of Biochemistry and Biophysics</i> , <b>1993</b> , 305, 489-98	4.1	102
60	Unraveling the structure of the intermediate filaments. <i>Cell</i> , <b>1983</b> , 34, 332-4	56.2	99
59	Human adrenodoxin reductase: two mRNAs encoded by a single gene on chromosome 17cen----q25 are expressed in steroidogenic tissues. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1988</b> , 85, 7104-8	11.5	81
58	Adrenal mitochondrial cytochrome P-450 <sub>scc</sub> . Cholesterol and adrenodoxin interactions at equilibrium and during turnover. <i>Journal of Biological Chemistry</i> , <b>1981</b> , 256, 4321-8	5.4	80

57	Stoichiometry of mitochondrial cytochromes P-450, adrenodoxin and adrenodoxin reductase in adrenal cortex and corpus luteum. Implications for membrane organization and gene regulation. <i>FEBS Journal</i> , <b>1986</b> , 157, 27-31		78
56	Epithelial sodium channels (ENaC) are uniformly distributed on motile cilia in the oviduct and the respiratory airways. <i>Histochemistry and Cell Biology</i> , <b>2012</b> , 137, 339-53	2.4	72
55	Induction and mitochondrial localization of cytochrome P450 <sub>scc</sub> system enzymes in normal and transformed ovarian granulosa cells. <i>Journal of Cell Biology</i> , <b>1990</b> , 111, 1373-81	7.3	72
54	Proteopedia: Rossmann fold: A beta-alpha-beta fold at dinucleotide binding sites. <i>Biochemistry and Molecular Biology Education</i> , <b>2015</b> , 43, 206-9	1.3	67
53	Mechanism of corticotropin and cAMP induction of mitochondrial cytochrome P450 system enzymes in adrenal cortex cells. <i>Journal of Biological Chemistry</i> , <b>1990</b> , 265, 20602-8	5.4	63
52	Localisation of pseudohypoaldosteronism genes to chromosome 16p12.2-13.11 and 12p13.1-pter by homozygosity mapping. <i>Human Molecular Genetics</i> , <b>1996</b> , 5, 293-9	5.6	62
51	Novel mutations in epithelial sodium channel (ENaC) subunit genes and phenotypic expression of multisystem pseudohypoaldosteronism. <i>Clinical Endocrinology</i> , <b>2005</b> , 62, 547-53	3.4	61
50	Electron leakage from the adrenal cortex mitochondrial P450 <sub>scc</sub> and P450 <sub>c11</sub> systems: NADPH and steroid dependence. <i>Archives of Biochemistry and Biophysics</i> , <b>1995</b> , 317, 412-6	4.1	49
49	Renin-aldosterone response, urinary Na/K ratio and growth in pseudohypoaldosteronism patients with mutations in epithelial sodium channel (ENaC) subunit genes. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , <b>2008</b> , 111, 268-74	5.1	48
48	Routes and regulation of NADPH production in steroidogenic mitochondria. <i>Endocrine Research</i> , <b>1995</b> , 21, 231-41	1.9	46
47	ASIC and ENaC type sodium channels: conformational states and the structures of the ion selectivity filters. <i>FEBS Journal</i> , <b>2017</b> , 284, 525-545	5.7	45
46	Antioxidant capacity is correlated with steroidogenic status of the corpus luteum during the bovine estrous cycle. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>1998</b> , 1380, 133-40	4	45
45	Mechanisms of ionic activation of adrenal mitochondrial cytochromes P-450 <sub>scc</sub> and P-450 <sub>11β</sub> . <i>Journal of Biological Chemistry</i> , <b>1981</b> , 256, 4329-35	5.4	45
44	Progesterone metabolism in the pineal, brain stem, thalamus and corpus callosum of the female rat. <i>Brain Research</i> , <b>1977</b> , 125, 313-24	3.7	40
43	Novel mutations responsible for autosomal recessive multisystem pseudohypoaldosteronism and sequence variants in epithelial sodium channel alpha-, beta-, and gamma-subunit genes. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2002</b> , 87, 3344-50	5.6	37
42	A fluorimetric assay for hydrogen peroxide, suitable for NAD(P)H-dependent superoxide generating redox systems. <i>Analytical Biochemistry</i> , <b>1994</b> , 218, 309-13	3.1	37
41	Electron Transfer Proteins of Cytochrome P450 Systems. <i>Advances in Molecular and Cell Biology</i> , <b>1996</b> , 14, 29-56		33
40	cDNA cloning and sequence analysis of the bovine adrenocorticotrophic hormone (ACTH) receptor. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>1994</b> , 1220, 329-32	4.9	31

39	Expression of epithelial sodium channel (ENaC) and CFTR in the human epidermis and epidermal appendages. <i>Histochemistry and Cell Biology</i> , <b>2017</b> , 147, 733-748	2.4	30
38	Autosomal recessive hyponatremia due to isolated salt wasting in sweat associated with a mutation in the active site of Carbonic Anhydrase 12. <i>Human Genetics</i> , <b>2011</b> , 129, 397-405	6.3	29
37	Isolation of a cDNA for adrenodoxin reductase (ferredoxin-NADP+ reductase). Implications for mitochondrial cytochrome P-450 systems. <i>FEBS Journal</i> , <b>1987</b> , 169, 449-55		29
36	Mitochondrial-genome-encoded RNAs: differential regulation by corticotropin in bovine adrenocortical cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1993</b> , 90, 10509-13	11.5	28
35	Truncated beta epithelial sodium channel (ENaC) subunits responsible for multi-system pseudohypoaldosteronism support partial activity of ENaC. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , <b>2010</b> , 119, 84-8	5.1	25
34	Gene structure of the human amiloride-sensitive epithelial sodium channel beta subunit. <i>Biochemical and Biophysical Research Communications</i> , <b>1998</b> , 252, 208-13	3.4	23
33	Identification of the roles of conserved charged residues in the extracellular domain of an epithelial sodium channel (ENaC) subunit by alanine mutagenesis. <i>American Journal of Physiology - Renal Physiology</i> , <b>2011</b> , 300, F887-97	4.3	21
32	THE CONCISE GUIDE TO PHARMACOLOGY 2021/22: Ion channels. <i>British Journal of Pharmacology</i> , <b>2021</b> , 178 Suppl 1, S157-S245	8.6	21
31	Chaperone-assisted expression of authentic bovine adrenodoxin reductase in Escherichia coli. <i>FEBS Letters</i> , <b>1999</b> , 443, 167-9	3.8	20
30	The nature and significance of differential keratin gene expression. <i>Annals of the New York Academy of Sciences</i> , <b>1985</b> , 455, 436-50	6.5	19
29	In situ localization of ACTH receptor-like mRNA in molluscan and human immunocytes. <i>Cellular and Molecular Life Sciences</i> , <b>1998</b> , 54, 139-42	10.3	18
28	Conserved charged residues at the surface and interface of epithelial sodium channel subunits--roles in cell surface expression and the sodium self-inhibition response. <i>FEBS Journal</i> , <b>2014</b> , 281, 2097-111	5.7	17
27	Clinical improvement in patients with autosomal recessive pseudohypoaldosteronism and the necessity for salt supplementation. <i>Clinical and Experimental Nephrology</i> , <b>2010</b> , 14, 518-9	2.5	17
26	Conservation of the Enzyme-Coenzyme Interfaces in FAD and NADP Binding Adrenodoxin Reductase-A Ubiquitous Enzyme. <i>Journal of Molecular Evolution</i> , <b>2017</b> , 85, 205-218	3.1	16
25	Localization of epithelial sodium channel (ENaC) and CFTR in the germinal epithelium of the testis, Sertoli cells, and spermatozoa. <i>Journal of Molecular Histology</i> , <b>2018</b> , 49, 195-208	3.3	14
24	Pseudohypoaldosteronism due to renal and multisystem resistance to mineralocorticoids respond differently to carbenoxolone. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , <b>1997</b> , 60, 105-12	5.1	14
23	Identification and classification of epithelial cells in nephron segments by actin cytoskeleton patterns. <i>FEBS Journal</i> , <b>2020</b> , 287, 1176-1194	5.7	14
22	Oncogene-transformed granulosa cells as a model system for the study of steroidogenic processes. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , <b>1992</b> , 43, 875-84	5.1	13

21	Pregnenolone separation from cholesterol using Sephadex LH-20 mini-columns. <i>Journal of Chromatography A</i> , <b>1980</b> , 190, 256-262	4.5	13
20	Selective increases in adrenal steroidogenic capacity during acute respiratory disease in infants. <i>European Journal of Endocrinology</i> , <b>1995</b> , 133, 552-6	6.5	12
19	ACTH induces TIMP-1 expression and inhibits collagenase in adrenal cortex cells. <i>Molecular and Cellular Endocrinology</i> , <b>2004</b> , 215, 109-14	4.4	11
18	Exclusion of the locus for autosomal recessive pseudohypoaldosteronism type 1 from the mineralocorticoid receptor gene region on human chromosome 4q by linkage analysis. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>1995</b> , 80, 3341-5	5.6	11
17	Mapping the sites of localization of epithelial sodium channel (ENaC) and CFTR in segments of the mammalian epididymis. <i>Journal of Molecular Histology</i> , <b>2019</b> , 50, 141-154	3.3	9
16	Amiloride-sensitive epithelial sodium channel subunits are expressed in human and mussel immunocytes. <i>Developmental and Comparative Immunology</i> , <b>2002</b> , 26, 395-402	3.2	9
15	Cloning of LL5, a novel protein encoding cDNA from a rat pituitary library. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , <b>1993</b> , 1216, 342-4		9
14	Proteopedia entry: coiled-coil structure of keratins. <i>Biochemistry and Molecular Biology Education</i> , <b>2014</b> , 42, 93-4	1.3	8
13	Cloning of ACTH-regulated genes in the adrenal cortex. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , <b>1994</b> , 49, 257-60	5.1	8
12	Elimination of non-specific binding in western blots from non-reducing gels. <i>Journal of Proteomics</i> , <b>1990</b> , 21, 65-8		7
11	The evolution and complexity of the genes encoding the cytoskeletal proteins of human epidermal cells. <i>Current Problems in Dermatology</i> , <b>1983</b> , 11, 27-44		7
10	Expression of the epithelial sodium channel (ENaC) in the endometrium - Implications for fertility in a patient with pseudohypoaldosteronism. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , <b>2018</b> , 183, 137-141	5.1	6
9	Prostaglandins as first mediators of stress. <i>Lancet, The</i> , <b>1977</b> , 1, 193	4.0	5
8	High-resolution imaging of the actin cytoskeleton and epithelial sodium channel, CFTR, and aquaporin-9 localization in the vas deferens. <i>Molecular Reproduction and Development</i> , <b>2020</b> , 87, 305-319 <sup>2.6</sup>		4
7	Epidermal Keratins: Structural Diversity and Changes During Tissue Differentiation <b>1986</b> , 644-665		4
6	Current research on steroid metabolism: transition from biochemistry to molecular-cell biology. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , <b>1992</b> , 43, 745-9	5.1	3
5	In systemic pseudohypoaldosteronism type 1 skin manifestations are not rare and the disease is not transient. <i>Clinical Endocrinology</i> , <b>2018</b> , 89, 240-241	3.4	2
4	STRUCTURAL DIVERSITY AND EVOLUTION OF INTERMEDIATE FILAMENT PROTEINS Our 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. <b>1981</b> , 69-98		2

- 3 Structures of Mitochondrial P450 System Proteins **1999**, 41-54 1
- 2 ADRENODOXIN REDUCTASE OF MITOCHONDRIAL CYTOCHROME P450 SYSTEMS: STRUCTURE AND REGULATION OF EXPRESSION **1991**, 859-864
- 1 Conserved charged residues in the extracellular domain of epithelial sodium channel (ENaC) essential for cell-surface expression. *FASEB Journal*, **2011**, 25, lb126 0.9