

# Tim J C Jacob

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8618774/publications.pdf>

Version: 2024-02-01

60  
papers

1,710  
citations

218677

26  
h-index

289244

40  
g-index

60  
all docs

60  
docs citations

60  
times ranked

1223  
citing authors

#	ARTICLE	IF	CITATIONS
1	The role of ClC-3 in volume-activated chloride currents and volume regulation in bovine epithelial cells demonstrated by antisense inhibition. <i>Journal of Physiology</i> , 2000, 524, 63-75.	2.9	109
2	Evidence for peripheral plasticity in human odour response. <i>Journal of Physiology</i> , 2004, 554, 236-244.	2.9	107
3	Cell cycle-dependent expression of volume-activated chloride currents in nasopharyngeal carcinoma cells. <i>American Journal of Physiology - Cell Physiology</i> , 2002, 283, C1313-C1323.	4.6	77
4	Suppression of ClC-3 channel expression reduces migration of nasopharyngeal carcinoma cells. <i>Biochemical Pharmacology</i> , 2008, 75, 1706-1716.	4.4	71
5	Association of intrinsic $Cl_{in}$ with volume-activated $Cl^{sup}$ current and volume regulation in a native epithelial cell. <i>American Journal of Physiology - Cell Physiology</i> , 1999, 276, C182-C192.	4.6	70
6	Psychophysical evaluation of responses to pleasant and mal-odour stimulation in human subjects; adaptation, dose response and gender differences. <i>International Journal of Psychophysiology</i> , 2003, 48, 67-80.	1.0	64
7	Roles of volume-activated $Cl$ currents and regulatory volume decrease in the cell cycle and proliferation in nasopharyngeal carcinoma cells. <i>Cell Proliferation</i> , 2007, 40, 253-267.	5.3	63
8	The human anterior lens capsule: Cell density, morphology and mitotic index in normal and cataractous lenses. <i>Experimental Eye Research</i> , 1987, 45, 865-874.	2.6	61
9	Calcium and the Physiology of Cataract. <i>Novartis Foundation Symposium</i> , 1984, 106, 132-162.	1.1	54
10	The correlation between physiological and psychological responses to odour stimulation in human subjects. <i>Clinical Neurophysiology</i> , 2002, 113, 542-551.	1.5	46
11	Volume-activated chloride channels contribute to cell-cycle-dependent regulation of HeLa cell migration. <i>Biochemical Pharmacology</i> , 2009, 77, 159-168.	4.4	46
12	Regulatory volume decrease is actively modulated during the cell cycle. <i>Journal of Cellular Physiology</i> , 2002, 193, 110-119.	4.1	45
13	Blockage of Volume-Activated Chloride Channels Inhibits Migration of Nasopharyngeal Carcinoma Cells. <i>Cellular Physiology and Biochemistry</i> , 2007, 19, 249-258.	1.6	45
14	Involvement of regulatory volume decrease in the migration of nasopharyngeal carcinoma cells. <i>Cell Research</i> , 2005, 15, 371-378.	12.0	38
15	A Large-Conductance Chloride Channel in Pigmented Ciliary Epithelial Cells Activated by GTP $\gamma$ S. <i>Journal of Membrane Biology</i> , 1997, 158, 167-175.	2.1	37
16	The relationship between cataract, cell swelling and volume regulation. <i>Progress in Retinal and Eye Research</i> , 1999, 18, 223-233.	15.5	37
17	CHARACTERIZATION OF A CATION CHANNEL ON THE APICAL SURFACE OF THE FROG LENS EPITHELIUM. <i>Quarterly Journal of Experimental Physiology (Cambridge, England)</i> , 1985, 70, 403-421.	1.0	34
18	Human lens epithelial cells in culture: a quantitative evaluation of growth rate and proliferative capacity. <i>Experimental Eye Research</i> , 1987, 45, 93-104.	2.6	34

#	ARTICLE	IF	CITATIONS
19	ClC-3 Chloride Channel Proteins Regulate the Cell Cycle by Up-regulating cyclin D1-CDK4/6 through Suppressing p21/p27 Expression in Nasopharyngeal Carcinoma Cells. <i>Scientific Reports</i> , 2016, 6, 30276.	3.3	34
20	Estradiol activates chloride channels via estrogen receptor- $\alpha$ in the cell membranes of osteoblasts. <i>American Journal of Physiology - Cell Physiology</i> , 2017, 313, C162-C172.	4.6	32
21	Repetitive Olfactory Exposure to the Biologically Significant Steroid Androstadienone Causes a Hedonic Shift and Gender Dimorphic Changes in Olfactory-Evoked Potentials. <i>Neuropsychopharmacology</i> , 2007, 32, 1822-1829.	5.4	31
22	Osmotic influences on lens membrane characteristics. <i>Experimental Eye Research</i> , 1980, 31, 505-512.	2.6	29
23	A new method for measuring reaction times for odour detection at iso-intensity: Comparison between an unpleasant and pleasant odour. <i>Physiology and Behavior</i> , 2006, 87, 500-505.	2.1	29
24	Effects and after-effects of chewing gum on vigilance, heart rate, EEG and mood. <i>Physiology and Behavior</i> , 2014, 133, 244-251.	2.1	29
25	Calcium controls both sodium and potassium permeability of lens membranes. <i>Experimental Eye Research</i> , 1981, 33, 85-93.	2.6	28
26	The human lens epithelium; Morphological and ultrastructural changes associated with steroid therapy. <i>Experimental Eye Research</i> , 1989, 48, 215-224.	2.6	28
27	Antisense toMDR1mRNA reduces P-glycoprotein expression, swelling-activated Cl <sup>-</sup> current and volume regulation in bovine ciliary epithelial cells. <i>Journal of Physiology</i> , 1998, 511, 33-44.	2.9	26
28	Glucose-induced membrane permeability changes in the lens. <i>Experimental Eye Research</i> , 1982, 34, 445-453.	2.6	24
29	Raised intracellular free calcium within the lens causes opacification and cellular uncoupling in the frog. <i>Journal of Physiology</i> , 1983, 341, 595-601.	2.9	24
30	Changes in the Odor Quality of Androstadienone During Exposure-Induced Sensitization. <i>Chemical Senses</i> , 2006, 31, 3-8.	2.0	24
31	Influence of external calcium and glucose on internal total and ionized calcium in the rat lens. <i>Journal of Physiology</i> , 1984, 357, 485-493.	2.9	23
32	ClC $\epsilon$ 3 is a main component of background chloride channels activated under isotonic conditions by autocrine ATP in nasopharyngeal carcinoma cells. <i>Journal of Cellular Physiology</i> , 2011, 226, 2516-2526.	4.1	23
33	Combined non-adaptive light and smell stimuli lowered blood pressure, reduced heart rate and reduced negative affect. <i>Physiology and Behavior</i> , 2016, 156, 94-105.	2.1	23
34	A direct measurement of intracellular free calcium within the lens. <i>Experimental Eye Research</i> , 1983, 36, 451-453.	2.6	19
35	Effect of 8-methoxypsoralen on rat lens cations, membrane potential and protein levels. <i>Experimental Eye Research</i> , 1984, 38, 509-513.	2.6	18
36	Lens opacification by antioestrogens: tamoxifen vs ICI 182, 780. <i>British Journal of Pharmacology</i> , 1995, 115, 1347-1348.	5.4	18

#	ARTICLE	IF	CITATIONS
37	Neuropharmacology of the Olfactory Bulb. <i>Current Molecular Pharmacology</i> , 2008, 1, 181-190.	1.5	18
38	Electrical coupling between fibre cells in amphibian and cephalopod lenses. <i>Nature</i> , 1981, 290, 704-706.	27.8	17
39	The role of divalent cations in controlling amphibian lens membrane permeability; The mechanisms of toxic cataracts. <i>Experimental Eye Research</i> , 1983, 36, 595-605.	2.6	16
40	The effects of steroids on the human lens epithelium. <i>Eye</i> , 1987, 1, 722-727.	2.1	16
41	A new non-invasive method for recording the electro-olfactogram using external electrodes. <i>Clinical Neurophysiology</i> , 2004, 115, 1631-1640.	1.5	14
42	pH-Dependent channel activity of heterologously-expressed main intrinsic protein (MIP) from rat lens. <i>FEBS Letters</i> , 2002, 512, 199-204.	2.8	13
43	The apoptotic effect of Zoledronic acid on the nasopharyngeal carcinoma cells via ROS-mediated chloride channel activation. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2018, 45, 1019-1027.	1.9	13
44	Putative Anticataract Properties of Honey Studied by the Action of Flavonoids on a Lens Culture Model. <i>Journal of Health Science</i> , 2008, 54, 196-202.	0.9	12
45	Fresh and cultured human lens epithelial cells: An electrophysiological study of cell coupling and membrane properties. <i>Experimental Eye Research</i> , 1988, 47, 489-506.	2.6	10
46	Synaptogenesis and distribution of presynaptic axonal varicosities in low density primary cultures of neocortex: an immunocytochemical study utilizing synaptic vesicle-specific antibodies, and an electrophysiological examination utilizing whole cell recording. <i>Journal of Neurocytology</i> , 1995, 24, 301-317.	1.5	9
47	A Nonselective High Conductance Channel in Bovine Pigmented Ciliary Epithelial Cells. <i>Journal of Membrane Biology</i> , 1996, 150, 105-111.	2.1	9
48	The Lens as a Physicochemical System. , 1984, , 159-206.		9
49	Control of cellular proliferation in the bovine cornea: An in vitro study. <i>Eye</i> , 1989, 3, 618-625.	2.1	8
50	Three types of channel activity in frog lens epithelial cells. <i>Experimental Eye Research</i> , 1984, 38, 657-660.	2.6	7
51	Burst firing versus synchrony in a gap junction connected olfactory bulb mitral cell network model. <i>Frontiers in Computational Neuroscience</i> , 2012, 6, 75.	2.1	7
52	Light and smell stimulus protocol reduced negative frontal EEG asymmetry and improved mood. <i>Open Life Sciences</i> , 2017, 12, 51-61.	1.4	7
53	Starvation-induced autophagy is up-regulated via ROS-mediated CIC-3 chloride channel activation in the nasopharyngeal carcinoma cell line CNE-2Z. <i>Biochemical Journal</i> , 2019, 476, 1323-1333.	3.7	7
54	A comparative study of the membrane permeability properties of amphibian and cephalopod mollusc lenses. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 1984, 154, 333-341.	1.5	6

#	ARTICLE	IF	CITATIONS
55	Human retinal extract stimulates the proliferation of human lens epithelial cells. <i>Eye</i> , 1988, 2, 304-308.	2.1	5
56	Ethanol Promotes Cell Migration via Activation of Chloride Channels in Nasopharyngeal Carcinoma Cells. <i>Alcoholism: Clinical and Experimental Research</i> , 2015, 39, 1341-1351.	2.4	5
57	An improved method for investigating the electrical characteristics of the lens. <i>Experimental Eye Research</i> , 1981, 33, 463-465.	2.6	1
58	Effect of lidocaine on olfactory perception in humans. <i>International Journal of Applied &amp; Basic Medical Research</i> , 2018, 8, 164.	0.5	1
59	Chapter 3 Chloride Channels in the Ciliary Epithelium. <i>Current Topics in Membranes</i> , 1997, , 55-68.	0.9	0
60	Corrigendum to: pH-Dependent channel activity of heterologously-expressed main intrinsic protein (MIP) from rat lens (FEBS 25772). <i>FEBS Letters</i> , 2002, 516, 287-287.	2.8	0