Ivan Lopez

List of Publications by Year in descending order

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119 papers	3,267 citations	136950 32 h-index	197818 49 g-index
129 all docs	129 docs citations	129 times ranked	3111 citing authors

#	Article	IF	Citations
1	Blindness and auditory impairment caused by loss of the sodium bicarbonate cotransporter NBC3. Nature Genetics, 2003, 34, 313-319.	21.4	173
2	Can Migraine Damage the Inner Ear?. Archives of Neurology, 2000, 57, 1631-4.	4.5	105
3	Time course of inner ear degeneration and deafness in mice lacking the Kir4.1 potassium channel subunit. Hearing Research, 2003, 177, 71-80.	2.0	93
4	Anosmia in COVID-19: Mechanisms and Significance. Chemical Senses, 2020, 45, 423-428.	2.0	93
5	Age-related change in the number of neurons in the human vestibular ganglion. Journal of Comparative Neurology, 2001, 431, 437-443.	1.6	89
6	Quantification of the process of hair cell loss and recovery in the chinchilla crista ampullaris after gentamicin treatment. International Journal of Developmental Neuroscience, 1997, 15, 447-461.	1.6	85
7	Aging and the Human Vestibular Nucleus. Journal of Vestibular Research: Equilibrium and Orientation, 1997, 7, 77-85.	2.0	85
8	Vestibular neuritis: Clinical-pathologic correlation. Otolaryngology - Head and Neck Surgery, 1996, 114, 586-592.	1.9	81
9	Brain Volume Changes on Longitudinal Magnetic Resonance Imaging in Normal Older People. Journal of Neuroimaging, 2001, 11, 393-400.	2.0	81
10	Histological evidence for hair cell regeneration after ototoxic cell destruction with local application of gentamicin in the chinchilla crista ampullaris. Hearing Research, 1995, 89, 194-202.	2.0	79
11	Slc4a11 Gene Disruption in Mice. Journal of Biological Chemistry, 2009, 284, 26882-26896.	3.4	67
12	Immunohistochemical localization of aquaporins in the human inner ear. Cell and Tissue Research, 2007, 328, 453-460.	2.9	63
13	Age-related change of the neuronal number in the human medial vestibular nucleus: A stereological investigation. Journal of Vestibular Research: Equilibrium and Orientation, 2002, 11, 357-363.	2.0	62
14	Regional estimates of hair cells and supporting cells in the human crista ampullaris. Journal of Neuroscience Research, 2005, 82, 421-431.	2.9	60
15	Meniere's disease: histopathology, cytochemistry, and imaging. Annals of the New York Academy of Sciences, 2015, 1343, 49-57.	3.8	59
16	The blood labyrinthine barrier in the human normal and Meniereâ€™s disease macula utricle. Scientific Reports, 2017, 7, 253.	3.3	58
17	MUSCARINIC ACETYLCHOLINE RECEPTOR SUBTYPE mRNAs IN THE HUMAN AND RAT VESTIBULAR PERIPHERY. Cell Biology International, 1996, 20, 187-192.	3.0	55
18	Immunohistochemical techniques for the human inner ear. Histochemistry and Cell Biology, 2016, 146, 367-387.	1.7	54

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19	Post Hybrid Cochlear Implant Hearing Loss and Endolymphatic Hydrops. Otology and Neurotology, 2016, 37, 1516-1521.	1.3	53
20	Histopathological and ultrastructural analysis of vestibular endorgans in Meniere's disease reveals basement membrane pathology. BMC Ear, Nose and Throat Disorders, 2009, 9, 4.	2.6	51
21	Structural changes in thestrial bloodâ€“labyrinth barrier of aged C57BL/6 mice. Cell and Tissue Research, 2015, 361, 685-696.	2.9	47
22	Unbiased Stereological Estimation of the Spiral Ligament and Stria Vascularis Volumes in Aging and MÃ©niÃ¨reâ€™s Disease Using Archival Human Temporal Bones. JARO - Journal of the Association for Research in Otolaryngology, 2007, 8, 8-17.	1.8	44
23	Characterizing Adult Cochlear Supporting Cell Transcriptional Diversity Using Single-Cell RNA-Seq: Validation in the Adult Mouse and Translational Implications for the Adult Human Cochlea. Frontiers in Molecular Neuroscience, 2020, 13, 13.	2.9	44
24	Stem/progenitor cells in the postnatal inner ear of the GFPâ€•nestin transgenic mouse. International Journal of Developmental Neuroscience, 2004, 22, 205-213.	1.6	43
25	Distribution of GABA-like immunorreactivity in guinea pig vestibular cristae ampullaris. Brain Research, 1990, 530, 170-175.	2.2	42
26	Temporal Bone Histopathology and Immunoglobulin Deposition in Sjogrenâ€™s Syndrome. Otology and Neurotology, 2012, 33, 258-266.	1.3	40
27	Estimation of the number of nerve fibers in the human vestibular endorgans using unbiased stereology and immunohistochemistry. Journal of Neuroscience Methods, 2005, 145, 37-46.	2.5	39
28	Acid-Sensing Ionic Channels in the Rat Vestibular Endorgans and Ganglia. Journal of Neurophysiology, 2006, 96, 1615-1624.	1.8	38
29	Otolithic Membrane Damage in Patients With Endolymphatic Hydrops and Drop Attacks. Otology and Neurotology, 2012, 33, 1593-1598.	1.3	38
30	Brainwide Genetic Sparse Cell Labeling to Illuminate the Morphology of Neurons and Glia with Cre-Dependent MORF Mice. Neuron, 2020, 108, 111-127.e6.	8.1	37
31	Expression of Î±4 and Î²2 nicotinic acetylcholine receptor subunit mRNA and localization of Î±-bungarotoxin binding proteins in the rat vestibular periphery. Cell Biology International, 1995, 19, 291-300.	3.0	35
32	Immunocytochemical evidence for an afferent GABAergic neurotransmission in the guinea pig vestibular system. Brain Research, 1992, 589, 341-348.	2.2	34
33	Aquaporins and Meniere's disease. Current Opinion in Otolaryngology and Head and Neck Surgery, 2006, 14, 332-336.	1.8	34
34	Neural crest cell deficiency ofc-myc causes skull and hearing defects. Genesis, 2007, 45, 382-390.	1.6	33
35	Immunohistochemical distribution of basement membrane proteins in the human inner ear from older subjects. Hearing Research, 2009, 254, 1-14.	2.0	32
36	Cochlear implant histopathology. World Journal of Otorhinolaryngology - Head and Neck Surgery, 2017, 3, 211-213.	1.6	30

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37	Hair Cell Recovery in the Chinchilla Crista Ampullaris after Gentamicin Treatment: A Quantitative Approach. Otolaryngology - Head and Neck Surgery, 1998, 119, 255-262.	1.9	29
38	Unbiased Stereologic Type I and Type II Hair Cell Counts in Human Utricular Macula. Laryngoscope, 2003, 113, 1132-1138.	2.0	29
39	Gene expression analysis of distinct populations of cells isolated from mouse and human inner ear FFPE tissue using laser capture microdissection â€“ a Technical report based on preliminary findings. Brain Research, 2006, 1091, 289-299.	2.2	28
40	Immunohistochemical localization and mRNA expression of aquaporins in the macula utriculi of patients with Menieréâ€™s disease and acoustic neuroma. Cell and Tissue Research, 2010, 340, 407-419.	2.9	28
41	Immunolocalization of voltage-gated calcium channel ?1ï¿½subunits in the chinchilla cochlea. Cell and Tissue Research, 2003, 313, 177-186.	2.9	27
42	Evidence for oxidative stress in the developing cerebellum of the rat after chronic mild carbon monoxide exposure (0.0025% in air). BMC Neuroscience, 2009, 10, 53.	1.9	27
43	Cochlin expression in vestibular endorgans obtained from patients with Menieréâ€™s disease. Cell and Tissue Research, 2012, 350, 373-384.	2.9	26
44	Differential subcellular immunolocalization of voltage-gated calcium channel Î±1 subunits in the chinchilla cristae ampullaris. Neuroscience, 1999, 92, 773-782.	2.3	25
45	Expression of the AMPA-selective receptor subunits in the vestibular nuclei of the chinchilla. Molecular Brain Research, 1997, 44, 21-30.	2.3	24
46	Time course of auditory impairment in mice lacking the electroneutral sodium bicarbonate cotransporter NBC3 (slc4a7). Developmental Brain Research, 2005, 160, 63-77.	1.7	24
47	Opsoclonus: Clinical and immunological features. Journal of the Neurological Sciences, 2012, 320, 61-65.	0.6	24
48	Oxidative Stress in the Blood Labyrinthine Barrier in the Macula Utricle of Menieréâ€™s Disease Patients. Frontiers in Physiology, 2018, 9, 1068.	2.8	24
49	Distribution of efferent cholinergic terminals and Î±-bungarotoxin binding to putative nicotinic acetylcholine receptors in the human vestibular end-organs. Laryngoscope, 1995, 105, 1167-1172.	2.0	23
50	Cellular Target of Streptomycin in the Internal Ear. Acta Oto-Laryngologica, 1989, 107, 406-411.	0.9	22
51	Choline acetyltransferase immunoreactivity in the human vestibular end-organs. Cell Biology International, 1994, 18, 979-984.	3.0	22
52	Second Place â€” Resident Basic Science Award 1994: Subcellular Innervation Patterns of the Calcitonin Gene-Related Peptidergic Efferent Terminals in the Chinchilla Vestibular Periphery. Otolaryngology - Head and Neck Surgery, 1994, 111, 385-395.	1.9	22
53	Temporal Bone Histopathology of First-Generation Cochlear Implant Electrode Translocation. Otology and Neurotology, 2019, 40, e581-e591.	1.3	22
54	Immunocytochemical Localization of the Translocase of the Outer Mitochondrial Membrane (Tom20) in the Human Cochlea. Anatomical Record, 2013, 296, 326-332.	1.4	21

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55	Histopathology of the vestibular end organs after intratympanic gentamicin failure for Meniere's disease. Acta Oto-Laryngologica, 2007, 127, 34-40.	0.9	20
56	Murine auditory brainstem evoked response: Putative two-channel differentiation of peripheral and central neural pathways. Journal of Neuroscience Methods, 2006, 153, 214-220.	2.5	19
57	Oxidative stress and the deleterious consequences to the rat cochlea after prenatal chronic mild exposure to carbon monoxide in air. Neuroscience, 2008, 151, 854-867.	2.3	19
58	Mu-opioid receptor (MOR) expression in the human spiral ganglia. Brain Research, 2014, 1590, 10-19.	2.2	19
59	Intraotic Administration of Gentamicin: A New Method to Study Ototoxicity in the Crista Ampullaris of the Bullfrog. Laryngoscope, 1997, 107, 137-143.	2.0	18
60	Calcitonin Gene-Related Peptide and Choline Acetyltransferase Colocalization in the Human Vestibular Periphery. Audiology and Neuro-Otology, 2002, 7, 298-302.	1.3	18
61	Human Temporal Bone Consortium for Research Resource Enhancement. JARO - Journal of the Association for Research in Otolaryngology, 2008, 9, 1-4.	1.8	18
62	Spiral and vestibular ganglion estimates in archival temporal bones obtained by design based stereology and Abercrombie methods. Journal of Neuroscience Methods, 2011, 196, 76-80.	2.5	18
63	Subcellular immunolocalization of NMDA receptor subunit NR1, 2A, 2B in the rat vestibular periphery. Brain Research, 2002, 935, 16-23.	2.2	17
64	Endolymphatic Hydrops in Otologic Syphilis. Otology and Neurotology, 2010, 31, 681-686.	1.3	17
65	Cochlear implants: Causes, effects and mitigation strategies for the foreign body response and inflammation. Hearing Research, 2022, 422, 108536.	2.0	17
66	Histopathology of Idiopathic Chronic Recurrent Vertigo. Laryngoscope, 1996, 106, 1340-1346.	2.0	16
67	Neuroglobin, cytoglobin, and transcriptional profiling of hypoxia-related genes in the rat cerebellum after prenatal chronic very mild carbon monoxide exposure (25 ppm). Brain Research, 2010, 1330, 61-71.	2.2	16
68	The expression of glutamate aspartate transporter (GLAST) within the human cochlea and its distribution in various patient populations. Brain Research, 2013, 1529, 134-142.	2.2	16
69	Acid-Sensing Ion Channels Expression, Identity and Role in the Excitability of the Cochlear Afferent Neurons. Frontiers in Cellular Neuroscience, 2015, 9, 483.	3.7	16
70	Microvascular networks in the area of the auditory peripheral nervous system. Hearing Research, 2019, 371, 105-116.	2.0	16
71	Expression of BDNF and TrkB mRNAs in the crista neurosensory epithelium and vestibular ganglia following ototoxic damage. Brain Research, 1999, 846, 40-51.	2.2	15
72	Immunohistochemical localization of Nrf2 in the human cochlea. Brain Research, 2018, 1700, 1-8.	2.2	15

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73	Immune Response of Macrophage Population to Cochlear Implantation: Cochlea Immune Cells. Otology and Neurotology, 2020, 41, 1288-1295.	1.3	15
74	Unbiased Estimation of Human Vestibular Ganglion Neurons. Annals of the New York Academy of Sciences, 2001, 942, 475-478.	3.8	14
75	Unbiased stereological quantification of neurons in the human spiral ganglion. Neuroscience Letters, 2001, 304, 93-96.	2.1	13
76	Mild carbon monoxide exposure diminishes selectively the integrity of the cochlea of the developing rat. Journal of Neuroscience Research, 2003, 74, 666-675.	2.9	12
77	Neuroglobin immunoreactivity in the human cochlea. Brain Research, 2016, 1630, 56-63.	2.2	12
78	Mouse Models of Human Pathogenic Variants of TBC1D24 Associated with Non-Syndromic Deafness DFNB86 and DFNA65 and Syndromes Involving Deafness. Genes, 2020, 11, 1122.	2.4	12
79	Predictors of Fibrotic and Bone Tissue Formation With 3-D Reconstructions of Post-implantation Human Temporal Bones. Otology and Neurotology, 2021, 42, e942-e948.	1.3	12
80	Possible cholinergic neurotransmission in the cristae ampullares of the chick inner ear. Neuroscience Letters, 1984, 49, 93-97.	2.1	11
81	Limiting iron availability confers neuroprotection from chronic mild carbon monoxide exposure in the developing auditory system of the rat. Journal of Neuroscience Research, 2005, 80, 620-633.	2.9	11
82	Acoustic Trauma Causes Cochlear Pericyte-to-Myofibroblastâ€“Like Cell Transformation and Vascular Degeneration, and Transplantation of New Pericytes Prevents Vascular Atrophy. American Journal of Pathology, 2020, 190, 1943-1959.	3.8	11
83	Comparative studies on glutamate decarboxylase and choline acetyltransferase activities in the vertebrate vestibule. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1990, 95, 375-379.	0.2	10
84	Subcellular immunolocalization of NMDA receptor subunit NR-1 in the chinchilla vestibular periphery. Brain Research, 1999, 851, 270-276.	2.2	10
85	In vivo and in vitro localization of brain-derived neurotrophic factor, fibroblast growth factor-2 and their receptors in the bullfrog vestibular end organs. Molecular Brain Research, 2002, 102, 83-99.	2.3	10
86	Canavanâ€™s leukodystrophy is associated with defects in cochlear neurodevelopment and deafness. Neurology, 2003, 60, 1702-1704.	1.1	10
87	Immunocytochemical distribution of WARP (von Willebrand A domain-related protein) in the inner ear. Brain Research, 2011, 1367, 50-61.	2.2	10
88	Sudden Sensorineural Hearing Loss Due to Drug Abuse. Seminars in Hearing, 2012, 33, 251-260.	1.2	10
89	Immunohistochemical localization of megalin and cubilin in the human inner ear. Brain Research, 2018, 1701, 153-160.	2.2	10
90	Morphometric linear and angular measurements of the human cochlea in implant patients using 3-dimensional reconstruction. Hearing Research, 2020, 386, 107874.	2.0	10

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91	Human Temporal Bone Study of Vestibular Histopathology in Cochlear Implant Patients With Cochlear Hydrops. Otology and Neurotology, 2020, 41, e607-e614.	1.3	10
92	Application of Unbiased Stereology on Archival Human Temporal Bone. Laryngoscope, 2002, 112, 526-533.	2.0	9
93	Unbiased Quantification of the Microdissected Human Scarpa???s Ganglion Neurons. Laryngoscope, 2004, 114, 1496-1499.	2.0	9
94	Neuroglobin expression in the cochlea of rat pups exposed to chronic very mild carbon monoxide (25) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.2	9
95	Unbiased stereological quantification of neurons in the human vestibular ganglion. NeuroReport, 2000, 11, 853-857.	1.2	8
96	Synaptophysin Immunohistochemistry during Vestibular Hair Cell Recovery after Gentamicin Treatment. Audiology and Neuro-Otology, 2003, 8, 80-90.	1.3	8
97	Lack of Evidence for Nonotosclerotic Stapes Fixation in Human Temporal Bone Histopathology. Otology and Neurotology, 2016, 37, 316-320.	1.3	7
98	Immunohistochemical location of Na+, K+-ATPase Î±1 subunit in the human inner ear. Hearing Research, 2021, 400, 108113.	2.0	7
99	Histopathologic Characteristics of Internal Auditory Canal Diverticula. Otology and Neurotology, 2019, 40, e653-e656.	1.3	6
100	Supporting cell survival after cochlear implant surgery. Laryngoscope, 2019, 129, E36-E40.	2.0	6
101	Quantitative Proteomics Using Formalin-fixed, Paraffin-embedded Biopsy Tissues in Inflammatory Disease. , 2019, 12, 104-112.		6
102	Immunolocalization of orphanin FQ in rat cochlea. Brain Research, 2006, 1113, 146-152.	2.2	5
103	Human Temporal Bone Consortium for Research Resource Enhancement. Otology and Neurotology, 2008, 29, 271-274.	1.3	5
104	Investigations of the Microvasculature of the Human Macula Utricle in Menereâ€™s Disease. Frontiers in Cellular Neuroscience, 2019, 13, 445.	3.7	5
105	A Histopathologic Comparison of Eustachian Tube Anatomy in Pediatric and Adult Temporal Bones. Otology and Neurotology, 2019, 40, e233-e239.	1.3	5
106	Histopathologic Analysis of Temporal Bones With Otosclerosis Following Cochlear Implantation. Otology and Neurotology, 2021, 42, 1492-1498.	1.3	5
107	FMRFamide-related peptide expression in the vestibular-afferent neurons. Neuroscience Letters, 2012, 513, 12-16.	2.1	4
108	Cisplatin ototoxicity histopathology. Laryngoscope Investigative Otolaryngology, 2021, 6, 852-856.	1.5	4

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109	Unbiased quantification of Scarpa's ganglion neurons in aminoglycoside ototoxicity. Journal of Vestibular Research: Equilibrium and Orientation, 2005, 15, 197-202.	2.0	4
110	Some properties of frog vestibular choline acetyltransferase and acetylcholinesterase. Neurochemical Research, 1989, 14, 113-118.	3.3	3
111	Glutamate-like Immunoreactivity During Hair Cell Recovery After Gentamicin Exposure in the Chinchilla Vestibular Sensory Periphery. Laryngoscope, 1999, 109, 1037-1044.	2.0	3
112	Evidence for water-permeable channels in auditory hair cells in the leopard frog. Hearing Research, 2012, 292, 64-70.	2.0	3
113	Connexin 26 Immunohistochemistry in Temporal Bones With Cochlear Otosclerosis. Annals of Otology, Rhinology and Laryngology, 2018, 127, 536-542.	1.1	3
114	Histology of the Cochlear Outer Sulcus Cells in Normal Human Ears, Presbycusis, and MeniÃ¨re's Disease. Otology and Neurotology, 2020, 41, e507-e515.	1.3	3
115	Otopetrin-2 Immunolocalization in the Human Macula Utricle. Annals of Otology, Rhinology and Laryngology, 2019, 128, 96S-102S.	1.1	2
116	Identification of a genetic variant underlying familial cases of recurrent benign paroxysmal positional vertigo. PLoS ONE, 2021, 16, e0251386.	2.5	2
117	Unbiased quantification of Scarpa's ganglion neurons in aminoglycoside ototoxicity. Journal of Vestibular Research: Equilibrium and Orientation, 2005, 15, 197-202.	2.0	2
118	Temporal bone histopathology in dominantly inherited audiovestibular syndrome. Neurology, 2004, 63, 1859-1862.	1.1	1
119	Modulatory Effects of Mild Carbon Monoxide Exposure in the Developing Mouse Cochlea. Neurochemical Research, 2017, 42, 151-165.	3.3	1