

# Lezanne Ooi

## List of Publications by Year in descending order

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95  
papers

4,814  
citations

117625

34  
h-index

98798

67  
g-index

102  
all docs

102  
docs citations

102  
times ranked

6913  
citing authors

#	ARTICLE	IF	CITATIONS
1	TRPV3 is a temperature-sensitive vanilloid receptor-like protein. <i>Nature</i> , 2002, 418, 186-190.	27.8	743
2	Chromatin crosstalk in development and disease: lessons from REST. <i>Nature Reviews Genetics</i> , 2007, 8, 544-554.	16.3	359
3	The acute nociceptive signals induced by bradykinin in rat sensory neurons are mediated by inhibition of M-type K <sup>+</sup> channels and activation of Ca <sup>2+</sup> -activated Cl <sup>-</sup> channels. <i>Journal of Clinical Investigation</i> , 2010, 120, 1240-1252.	8.2	264
4	Widespread Disruption of Repressor Element-1 Silencing Transcription Factor/Neuron-Restrictive Silencer Factor Occupancy at Its Target Genes in Huntington's Disease. <i>Journal of Neuroscience</i> , 2007, 27, 6972-6983.	3.6	257
5	Neuroprotective effects of apigenin against inflammation, neuronal excitability and apoptosis in an induced pluripotent stem cell model of Alzheimer's disease. <i>Scientific Reports</i> , 2016, 6, 31450.	3.3	186
6	A quick, convenient and economical method for the reliable determination of methylglyoxal in millimolar concentrations: the N-acetyl-L-cysteine assay. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 2577-2581.	3.7	180
7	Walking the tightrope: proteostasis and neurodegenerative disease. <i>Journal of Neurochemistry</i> , 2016, 137, 489-505.	3.9	176
8	PSEN1 <sup>E9</sup> , APP <sup>swe</sup> , and APOE4 Confer Disparate Phenotypes in Human iPSC-Derived Microglia. <i>Stem Cell Reports</i> , 2019, 13, 669-683.	4.8	132
9	Transcriptional repression of the M channel subunit Kv7.2 in chronic nerve injury. <i>Pain</i> , 2011, 152, 742-754.	4.2	130
10	Identification of the REST regulon reveals extensive transposable element-mediated binding site duplication. <i>Nucleic Acids Research</i> , 2006, 34, 3862-3877.	14.5	121
11	Effect of Nrf2 activators on release of glutathione, cysteinylglycine and homocysteine by human U373 astroglial cells. <i>Redox Biology</i> , 2013, 1, 441-445.	9.0	113
12	Understanding inflammatory pain: ion channels contributing to acute and chronic nociception. <i>Pflügers Archiv European Journal of Physiology</i> , 2010, 459, 657-669.	2.8	104
13	Getting to NO Alzheimer's Disease: Neuroprotection versus Neurotoxicity Mediated by Nitric Oxide. <i>Oxidative Medicine and Cellular Longevity</i> , 2016, 2016, 1-8.	4.0	98
14	BRG1 Chromatin Remodeling Activity Is Required for Efficient Chromatin Binding by Repressor Element 1-silencing Transcription Factor (REST) and Facilitates REST-mediated Repression. <i>Journal of Biological Chemistry</i> , 2006, 281, 38974-38980.	3.4	93
15	Transcriptional Control of <i>KCNQ</i> Channel Genes and the Regulation of Neuronal Excitability. <i>Journal of Neuroscience</i> , 2010, 30, 13235-13245.	3.6	93
16	Reactive oxygen species are second messengers of neurokinin signaling in peripheral sensory neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E1578-86.	7.1	83
17	SOD1 protein aggregates stimulate macropinocytosis in neurons to facilitate their propagation. <i>Molecular Neurodegeneration</i> , 2015, 10, 57.	10.8	68
18	Neuronal hyperexcitability in Alzheimer's disease: what are the drivers behind this aberrant phenotype?. <i>Translational Psychiatry</i> , 2022, 12, .	4.8	64

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19	Regulation of gene expression in the nervous system. <i>Biochemical Journal</i> , 2008, 414, 327-341.	3.7	60
20	Electrochemical biosensing strategies for DNA methylation analysis. <i>Biosensors and Bioelectronics</i> , 2017, 94, 63-73.	10.1	60
21	The heat shock response in neurons and astroglia and its role in neurodegenerative diseases. <i>Molecular Neurodegeneration</i> , 2017, 12, 65.	10.8	60
22	Redox and Nitric Oxide-Mediated Regulation of Sensory Neuron Ion Channel Function. <i>Antioxidants and Redox Signaling</i> , 2015, 22, 486-504.	5.4	58
23	Impairments in Motor Neurons, Interneurons and Astrocytes Contribute to Hyperexcitability in ALS: Underlying Mechanisms and Paths to Therapy. <i>Molecular Neurobiology</i> , 2018, 55, 1410-1418.	4.0	58
24	Common pitfalls of stem cell differentiation: a guide to improving protocols for neurodegenerative disease models and research. <i>Cellular and Molecular Life Sciences</i> , 2016, 73, 3693-3709.	5.4	57
25	Understanding the Role of ApoE Fragments in Alzheimer's Disease. <i>Neurochemical Research</i> , 2019, 44, 1297-1305.	3.3	51
26	The Repressor Element 1-Silencing Transcription Factor Regulates Heart-Specific Gene Expression Using Multiple Chromatin-Modifying Complexes. <i>Molecular and Cellular Biology</i> , 2007, 27, 4082-4092.	2.3	50
27	Anti-inflammatory effects of five commercially available mushroom species determined in lipopolysaccharide and interferon- $\gamma$ activated murine macrophages. <i>Food Chemistry</i> , 2014, 148, 92-96.	8.2	49
28	Astrocytic modulation of cortical oscillations. <i>Scientific Reports</i> , 2018, 8, 11565.	3.3	48
29	Induced pluripotent stem cells as tools for disease modelling and drug discovery in Alzheimer's disease. <i>Journal of Neural Transmission</i> , 2013, 120, 103-111.	2.8	47
30	Consumption of pomegranates improves synaptic function in a transgenic mice model of Alzheimer's disease. <i>Oncotarget</i> , 2016, 7, 64589-64604.	1.8	46
31	Chronic Inflammation Alters Production and Release of Glutathione and Related Thiols in Human U373 Astroglial Cells. <i>Cellular and Molecular Neurobiology</i> , 2013, 33, 19-30.	3.3	45
32	Triple Cysteine Module within M-Type $K^{+}$ Channels Mediates Reciprocal Channel Modulation by Nitric Oxide and Reactive Oxygen Species. <i>Journal of Neuroscience</i> , 2013, 33, 6041-6046.	3.6	44
33	Neuroprotection of Neuro2a cells and the cytokine suppressive and anti-inflammatory mode of action of resveratrol in activated RAW264.7 macrophages and C8B4 microglia. <i>Neurochemistry International</i> , 2016, 95, 46-54.	3.8	44
34	The transcriptional repressor REST is a critical regulator of the neurosecretory phenotype. <i>Journal of Neurochemistry</i> , 2006, 98, 1828-1840.	3.9	42
35	Dynamic interplay between H-current and M-current controls motoneuron hyperexcitability in amyotrophic lateral sclerosis. <i>Cell Death and Disease</i> , 2019, 10, 310.	6.3	38
36	The role of amyloid oligomers in neurodegenerative pathologies. <i>International Journal of Biological Macromolecules</i> , 2021, 181, 582-604.	7.5	38

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37	Comparison of effects of anandamide at recombinant and endogenous rat vanilloid receptors. <i>British Journal of Anaesthesia</i> , 2002, 89, 882-887.	3.4	35
38	Development of a high-performance liquid chromatography method for the simultaneous quantitation of glutathione and related thiols. <i>Analytical Biochemistry</i> , 2012, 429, 45-52.	2.4	32
39	Selective ferroptosis vulnerability due to familial Alzheimer's disease presenilin mutations. <i>Cell Death and Differentiation</i> , 2022, 29, 2123-2136.	11.2	32
40	Determination of anti-inflammatory activities of standardised preparations of plant- and mushroom-based foods. <i>European Journal of Nutrition</i> , 2014, 53, 335-343.	3.9	31
41	The Ubiquitin Proteasome System Is a Key Regulator of Pluripotent Stem Cell Survival and Motor Neuron Differentiation. <i>Cells</i> , 2019, 8, 581.	4.1	31
42	Evaluation of Skin Fibroblasts from Amyotrophic Lateral Sclerosis Patients for the Rapid Study of Pathological Features. <i>Neurotoxicity Research</i> , 2015, 28, 138-146.	2.7	30
43	A Simple Differentiation Protocol for Generation of Induced Pluripotent Stem Cell-Derived Basal Forebrain-Like Cholinergic Neurons for Alzheimer's Disease and Frontotemporal Dementia Disease Modeling. <i>Cells</i> , 2020, 9, 2018.	4.1	27
44	Neurodevelopmental Expression Profile of Dimeric and Monomeric Group 1 mGluRs: Relevance to Schizophrenia Pathogenesis and Treatment. <i>Scientific Reports</i> , 2016, 6, 34391.	3.3	23
45	If Human Brain Organoids Are the Answer to Understanding Dementia, What Are the Questions?. <i>Neuroscientist</i> , 2020, 26, 438-454.	3.5	23
46	The metastability of the proteome of spinal motor neurons underlies their selective vulnerability in ALS. <i>Neuroscience Letters</i> , 2019, 704, 89-94.	2.1	22
47	More than a Corepressor: The Role of CoREST Proteins in Neurodevelopment. <i>ENeuro</i> , 2020, 7, ENEURO.0337-19.2020.	1.9	20
48	Cytoprotective properties of traditional Chinese medicinal herbal extracts in hydrogen peroxide challenged human U373 astroglia cells. <i>Neurochemistry International</i> , 2013, 62, 522-529.	3.8	19
49	Nitric Oxide: A Regulator of Cellular Function in Health and Disease. <i>Oxidative Medicine and Cellular Longevity</i> , 2016, 2016, 1-2.	4.0	19
50	The serine protease HtrA1 contributes to the formation of an extracellular 25-kDa apolipoprotein E fragment that stimulates neuritogenesis. <i>Journal of Biological Chemistry</i> , 2018, 293, 4071-4084.	3.4	19
51	Increased Tau Phosphorylation in Motor Neurons From Clinically Pure Sporadic Amyotrophic Lateral Sclerosis Patients. <i>Journal of Neuropathology and Experimental Neurology</i> , 2019, 78, 605-614.	1.7	19
52	P2Y2 and P2X4 Receptors Mediate Ca <sup>2+</sup> Mobilization in DH82 Canine Macrophage Cells. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8572.	4.1	18
53	A Simple Microplate Assay for Reactive Oxygen Species Generation and Rapid Cellular Protein Normalization. <i>Bio-protocol</i> , 2021, 11, e3877.	0.4	18
54	Identification and High-Resolution Imaging of Î±-Tocopherol from Human Cells to Whole Animals by TOF-SIMS Tandem Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 1571-1581.	2.8	17

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55	Sensitive Detection of Motor Neuron Disease Derived Exosomal miRNA Using Electrocatalytic Activity of Gold-Loaded Superparamagnetic Ferric Oxide Nanocubes. <i>ChemElectroChem</i> , 2020, 7, 3459-3467.	3.4	16
56	Molecular and Functional Characterization of Neurogenin-2 Induced Human Sensory Neurons. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 600895.	3.7	16
57	Unbiased Label-Free Quantitative Proteomics of Cells Expressing Amyotrophic Lateral Sclerosis (ALS) Mutations in CcNF Reveals Activation of the Apoptosis Pathway: A Workflow to Screen Pathogenic Gene Mutations. <i>Frontiers in Molecular Neuroscience</i> , 2021, 14, 627740.	2.9	12
58	The P2X4 Receptor: Cellular and Molecular Characteristics of a Promising Neuroinflammatory Target. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5739.	4.1	12
59	Generation and characterization of human induced pluripotent stem cell lines from a familial Alzheimer's disease PSEN1 A246E patient and a non-demented family member bearing wild-type PSEN1. <i>Stem Cell Research</i> , 2018, 31, 227-230.	0.7	11
60	Novel dual-action prodrug triggers apoptosis in glioblastoma cells by releasing a glutathione quencher and lysine-specific histone demethylase 1A inhibitor. <i>Journal of Neurochemistry</i> , 2019, 149, 535-550.	3.9	11
61	Pharmacological and genetic characterisation of the canine P2X4 receptor. <i>British Journal of Pharmacology</i> , 2020, 177, 2812-2829.	5.4	11
62	Viral-free generation and characterization of a human induced pluripotent stem cell line from dermal fibroblasts. <i>Stem Cell Research</i> , 2018, 32, 135-138.	0.7	9
63	Loss of Cln5 leads to altered Gad1 expression and deficits in interneuron development in mice. <i>Human Molecular Genetics</i> , 2019, 28, 3309-3322.	2.9	9
64	A postmortem analysis of NMDA ionotropic and group 1 metabotropic glutamate receptors in the nucleus accumbens in schizophrenia. <i>Journal of Psychiatry and Neuroscience</i> , 2018, 43, 102-110.	2.4	9
65	Proenergetic effects of resveratrol in the murine neuronal cell line Neuro2a. <i>Molecular Nutrition and Food Research</i> , 2013, 57, 1901-1907.	3.3	8
66	Nanotechnology and its medical applications: revisiting public policies from a regulatory perspective in Australia. <i>Nanotechnology Reviews</i> , 2017, 6, 255-269.	5.8	8
67	Identification of repurposable cytoprotective drugs in vanishing white matter disease patient-derived cells. <i>Translational Medicine Communications</i> , 2020, 5, .	1.4	7
68	Multiple chromatin modifications important for gene expression changes in cardiac hypertrophy. <i>Biochemical Society Transactions</i> , 2006, 34, 1138-1140.	3.4	6
69	Wnt is here! Could Wnt signalling be promoted to protect against Alzheimer disease?. <i>Journal of Neurochemistry</i> , 2018, 144, 356-359.	3.9	6
70	Generation and characterization of a human induced pluripotent stem cell line UOWi005-A from dermal fibroblasts derived from a CcNF familial amyotrophic lateral sclerosis patient using mRNA reprogramming. <i>Stem Cell Research</i> , 2019, 40, 101530.	0.7	6
71	Neurodegenerative disease-associated protein aggregates are poor inducers of the heat shock response in neuronal cells. <i>Journal of Cell Science</i> , 2020, 133, .	2.0	6
72	Role of EphA4 in Mediating Motor Neuron Death in MND. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9430.	4.1	6

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73	Generation of hydrogen peroxide-resistant murine neuroblastoma cells: a target discovery platform for novel neuroprotective genes. <i>Journal of Neural Transmission</i> , 2013, 120, 1171-1178.	2.8	5
74	The Thiol Antioxidant Lipoic Acid and Alzheimer's Disease. , 2014, , 2275-2288.		4
75	Automated Liquid Handling for Microplate Assays: a Simplified User Interface for the Hamilton Microlab STAR. <i>Journal of Applied Bioanalysis</i> , 2021, 7, 11-18.	0.2	4
76	Generation of <i>APOE</i> knock-down SK-N-SH human neuroblastoma cells using CRISPR/Cas9: a novel cellular model relevant to Alzheimer's disease research. <i>Bioscience Reports</i> , 2021, 41, .	2.4	4
77	The mRNA-based reprogramming of fibroblasts from a SOD1E101G familial amyotrophic lateral sclerosis patient to induced pluripotent stem cell line UOWi007. <i>Stem Cell Research</i> , 2020, 42, 101701.	0.7	4
78	Chronic Adolescent CDPPB Treatment Alters Short-Term, but not Long-Term, Glutamatergic Receptor Expression. <i>Neurochemical Research</i> , 2018, 43, 1683-1691.	3.3	3
79	Modeling Emergent Properties in the Brain Using Tissue Models to Investigate Neurodegenerative Disease. <i>Neuroscientist</i> , 2020, 26, 224-230.	3.5	3
80	Understanding the pathology of psychiatric disorders in refugees. <i>Psychiatry Research</i> , 2021, 296, 113661.	3.3	3
81	Cross-Linking Cellular Prion Protein Induces Neuronal Type 2-Like Hypersensitivity. <i>Frontiers in Immunology</i> , 2021, 12, 639008.	4.8	3
82	Chromatin switching and transcriptional regulation in disease. <i>Biochemical Society Transactions</i> , 2008, 36, 599-602.	3.4	2
83	Effects of short- and long-term aripiprazole treatment on Group I mGluRs in the nucleus accumbens: Comparison with haloperidol. <i>Psychiatry Research</i> , 2018, 260, 152-157.	3.3	2
84	DC and AC magnetic fields increase neurite outgrowth of SH-SY5Y neuroblastoma cells with and without retinoic acid. <i>RSC Advances</i> , 2019, 9, 17717-17725.	3.6	2
85	Treatment of microglia with Anti-PrP monoclonal antibodies induces neuronal apoptosis in vitro. <i>Heliyon</i> , 2021, 7, e08644.	3.2	2
86	An Optimized Direct Lysis Gene Expression Microplate Assay and Applications for Disease, Differentiation, and Pharmacological Cell-Based Studies. <i>Biosensors</i> , 2022, 12, 364.	4.7	2
87	Mammalian Expression Systems and Transfection Techniques. <i>Methods in Molecular Biology</i> , 2013, 998, 21-32.	0.9	1
88	Identifying Transcriptional Regulatory Regions Using Reporter Genes and DNA-Protein Interactions by Chromatin Immunoprecipitation. <i>Methods in Molecular Biology</i> , 2008, 491, 3-17.	0.9	1
89	Regulation Of Kcnq2/3 Channels By The Transcriptional Repressor REST In Nociception. <i>Biophysical Journal</i> , 2009, 96, 175a-176a.	0.5	0
90	Substance P and Bradykinin Activate Alternative Gq/11-Coupled Signalling Cascades and Impose Opposite Effects on M Current in DRG Neurons. <i>Biophysical Journal</i> , 2010, 98, 135a-136a.	0.5	0

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91	M-Type K <sup>+</sup> Channel as Plasma Membrane Nitric Oxide and Reactive Oxygen Species Sensor. Biophysical Journal, 2013, 104, 268a-269a.	0.5	0
92	Investigating chromatin regulation by the repressor element 1 silencing transcription factor (REST) and its effect in cardiac hypertrophy. FASEB Journal, 2007, 21, A654.	0.5	0
93	Substance P triggers two different signaling pathways with opposing actions on M current mediated by intracellular Ca <sup>2+</sup> rises and oxidative modification. FASEB Journal, 2010, 24, lb25.	0.5	0
94	Potent Suppressive Effect of Resveratrol and Apigenin on Pro-inflammatory Responses in Lipopolysaccharide and IFN- $\gamma$ -activated Microglia and Macrophages: Implications for Alzheimer's disease therapies. FASEB Journal, 2012, 26, 921.2.	0.5	0
95	Induced pluripotent stem cells as tools for disease modelling and drug discovery in Alzheimer's disease. FASEB Journal, 2013, 27, 78.3.	0.5	0