

# Eunji Cheong

## List of Publications by Year in descending order

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Version: 2024-02-01

75  
papers

2,760  
citations

201575

27  
h-index

197736

49  
g-index

78  
all docs

78  
docs citations

78  
times ranked

4448  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Discovery of Novel Sphingosine-1-Phosphate-1 Receptor Agonists for the Treatment of Multiple Sclerosis. <i>Journal of Medicinal Chemistry</i> , 2022, 65, 3539-3562.  | 2.9 | 5         |
| 2  | Deletion of Phospholipase C $\beta$ 21 in the Thalamic Reticular Nucleus Induces Absence Seizures. <i>Experimental Neurobiology</i> , 2022, 31, 116-130.  | 0.7 | 0         |
| 3  | Biosynthesis of Nonimmunosuppressive ProlylFK506 Analogues with Neurite Outgrowth and Synaptogenic Activity. <i>Journal of Natural Products</i> , 2021, 84, 195-203.  | 1.5 | 1         |
| 4  | Behaviorally consequential astrocytic regulation of neural circuits. <i>Neuron</i> , 2021, 109, 576-596.  | 3.8 | 150       |
| 5  | Orthopedic surgery-induced cognitive dysfunction is mediated by CX3CL1/R1 signaling. <i>Journal of Neuroinflammation</i> , 2021, 18, 93.  | 3.1 | 16        |
| 6  | Vertical Nanowire Electrode Array for Enhanced Neurogenesis of Human Neural Stem Cells via Intracellular Electrical Stimulation. <i>Nano Letters</i> , 2021, 21, 6343-6351.                                   | 4.5 | 15        |
| 7  | Npas4 regulates IQSEC3 expression in hippocampal somatostatin interneurons to mediate anxiety-like behavior. <i>Cell Reports</i> , 2021, 36, 109417.  | 2.9 | 10        |
| 8  | Fine-tuning of dual SMAD inhibition to differentiate human pluripotent stem cells into neural crest stem cells. <i>Cell Proliferation</i> , 2021, 54, e13103.   | 2.4 | 7         |
| 9  | Microfluidic device with brain extracellular matrix promotes structural and functional maturation of human brain organoids. <i>Nature Communications</i> , 2021, 12, 4730.                                    | 5.8 | 164       |
| 10 | Optimization and Evaluation of Novel Antifungal Agents for the Treatment of Fungal Infection. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 15912-15935.  | 2.9 | 9         |
| 11 | Adenylyl Cyclase and Protein Kinase A Play Redundant and Distinct Roles in Growth, Differentiation, Antifungal Drug Resistance, and Pathogenicity of <i>Candida auris</i> . <i>MBio</i> , 2021, 12, e0272921. | 1.8 | 11        |
| 12 | Chronic Restraint Stress Decreases the Excitability of Hypothalamic POMC Neuron and Increases Food Intake. <i>Experimental Neurobiology</i> , 2021, 30, 375-386.  | 0.7 | 6         |
| 13 | A novel chalcone derivative as Nrf2 activator attenuates learning and memory impairment in a scopolamine-induced mouse model. <i>European Journal of Medicinal Chemistry</i> , 2020, 185, 111777.             | 2.6 | 22        |
| 14 | Combined Method of Neuronal Cell-Inducible Vector and Valproic Acid for Enhanced Gene Expression under Hypoxic Conditions. <i>Tissue Engineering and Regenerative Medicine</i> , 2020, 17, 55-66.             | 1.6 | 0         |
| 15 | Astrocytes Control Sensory Acuity via Tonic Inhibition in the Thalamus. <i>Neuron</i> , 2020, 108, 691-706.e10.   | 3.8 | 79        |
| 16 | Destabilization of light NREM sleep by thalamic PLC $\beta$ 24 deletion impairs sleep-dependent memory consolidation. <i>Scientific Reports</i> , 2020, 10, 8813.   | 1.6 | 5         |
| 17 | Genome-wide functional analysis of phosphatases in the pathogenic fungus <i>Cryptococcus neoformans</i> . <i>Nature Communications</i> , 2020, 11, 4212.  | 5.8 | 22        |
| 18 | Long-term Intracellular Recording of Optogenetically-induced Electrical Activities using Vertical Nanowire Multi Electrode Array. <i>Scientific Reports</i> , 2020, 10, 4279.                                 | 1.6 | 27        |

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|----|--|------|-----------|
| 19 | Fungal kinases and transcription factors regulating brain infection in <i>Cryptococcus neoformans</i> . <i>Nature Communications</i> , 2020, 11, 1521.   | 5.8  | 41        |
| 20 | Loss of IQSEC3 Disrupts GABAergic Synapse Maintenance and Decreases Somatostatin Expression in the Hippocampus. <i>Cell Reports</i> , 2020, 30, 1995-2005.e5.  | 2.9  | 16        |
| 21 | CRISPR-mediated gene correction links the ATP7A M1311V mutations with amyotrophic lateral sclerosis pathogenesis in one individual. <i>Communications Biology</i> , 2020, 3, 33.                                       | 2.0  | 6         |
| 22 | Biosynthesis of Nonimmunosuppressive FK506 Analogues with Antifungal Activity. <i>Journal of Natural Products</i> , 2019, 82, 2078-2086.   | 1.5  | 18        |
| 23 | Enhanced surface plasmon microscopy based on multi-channel spatial light switching for label-free neuronal imaging. <i>Biosensors and Bioelectronics</i> , 2019, 146, 111738.  | 5.3  | 14        |
| 24 | Endothelial-neurosphere crosstalk in microwell arrays regulates self-renewal and differentiation of human neural stem cells. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 74, 148-157.               | 2.9  | 6         |
| 25 | Real-Time Detection of Markers in Blood. <i>Nano Letters</i> , 2019, 19, 2291-2298.  | 4.5  | 9         |
| 26 | Superlocalized Three-Dimensional Live Imaging of Mitochondrial Dynamics in Neurons Using Plasmonic Nanohole Arrays. <i>ACS Nano</i> , 2019, 13, 3063-3074.   | 7.3  | 45        |
| 27 | Differential effects on sodium current impairments by distinct SCN1A mutations in GABAergic neurons derived from Dravet syndrome patients. <i>Brain and Development</i> , 2018, 40, 287-298.                           | 0.6  | 27        |
| 28 | The Possible Role of Neurobeachin in Extinction of Contextual Fear Memory. <i>Scientific Reports</i> , 2018, 8, 13752.   | 1.6  | 8         |
| 29 | <i>In Vitro</i> and <i>In Vivo</i> Assessment of FK506 Analogs as Novel Antifungal Drug Candidates. <i>Antimicrobial Agents and Chemotherapy</i> , 2018, 62, .   | 1.4  | 44        |
| 30 | Three-dimensional brain-like microenvironments facilitate the direct reprogramming of fibroblasts into therapeutic neurons. <i>Nature Biomedical Engineering</i> , 2018, 2, 522-539.                                   | 11.6 | 86        |
| 31 | Overcoming Depression by Inhibition of Neural Burst Firing. <i>Neuron</i> , 2018, 98, 878-879.   | 3.8  | 5         |
| 32 | The water channel protein aquaporin 1 regulates cellular metabolism and competitive fitness in a global fungal pathogen <i>Cryptococcus neoformans</i> . <i>Environmental Microbiology Reports</i> , 2017, 9, 268-278. | 1.0  | 8         |
| 33 | ZnO nanotube waveguide arrays on graphene films for local optical excitation on biological cells. <i>APL Materials</i> , 2017, 5, .  | 2.2  | 4         |
| 34 | Suppression of Sin3A activity promotes differentiation of pluripotent cells into functional neurons. <i>Scientific Reports</i> , 2017, 7, 44818.   | 1.6  | 15        |
| 35 | A conserved neuronal DAF-16/FoxO plays an important role in conveying pheromone signals to elicit repulsion behavior in <i>Caenorhabditis elegans</i> . <i>Scientific Reports</i> , 2017, 7, 7260.                     | 1.6  | 17        |
| 36 | Electroconductive nanoscale topography for enhanced neuronal differentiation and electrophysiological maturation of human neural stem cells. <i>Nanoscale</i> , 2017, 9, 18737-18752.                                  | 2.8  | 72        |

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|----|--|------|-----------|
| 37 | Spike Frequency Adaptation in Neurons of the Central Nervous System. <i>Experimental Neurobiology</i> , 2017, 26, 179-185.   | 0.7  | 74        |
| 38 | Regulation of cAMP and GSK3 signaling pathways contributes to the neuronal conversion of glioma. <i>PLoS ONE</i> , 2017, 12, e0178881.   | 1.1  | 22        |
| 39 | Photoactive Poly(3-hexylthiophene) Nanoweb for Optoelectrical Stimulation to Enhance Neurogenesis of Human Stem Cells. <i>Theranostics</i> , 2017, 7, 4591-4604.   | 4.6  | 31        |
| 40 | ZnO nanotube waveguide arrays on graphene films for local optical excitation on biological cells. , 2017, , .  |      | 1         |
| 41 | Calcium-activated chloride channels: a new target to control the spiking pattern of neurons. <i>BMB Reports</i> , 2017, 50, 109-110.   | 1.1  | 7         |
| 42 | Triboelectric Nanogenerator Accelerates Highly Efficient Nonviral Direct Conversion and In Vivo Reprogramming of Fibroblasts to Functional Neuronal Cells. <i>Advanced Materials</i> , 2016, 28, 7365-7374.        | 11.1 | 90        |
| 43 | Screening, Synthesis, and In Vitro Evaluation of Vinyl Sulfones as Inhibitors of Complement-Dependent Cytotoxicity in Neuromyelitis Optica. <i>ChemMedChem</i> , 2016, 11, 377-381.                                | 1.6  | 2         |
| 44 | The Ca <sup>2+</sup> -activated chloride channel anoctamin-2 mediates spike-frequency adaptation and regulates sensory transmission in thalamocortical neurons. <i>Nature Communications</i> , 2016, 7, 13791.     | 5.8  | 51        |
| 45 | Photoactivation of Noncovalently Assembled Peptide Ligands on Carbon Nanotubes Enables the Dynamic Regulation of Stem Cell Differentiation. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 26470-26481.  | 4.0  | 22        |
| 46 | Systematic functional analysis of kinases in the fungal pathogen <i>Cryptococcus neoformans</i> . <i>Nature Communications</i> , 2016, 7, 12766.   | 5.8  | 112       |
| 47 | A potent and selective small molecule inhibitor of sirtuin 1 promotes differentiation of pluripotent P19 cells into functional neurons. <i>Scientific Reports</i> , 2016, 6, 34324.                                | 1.6  | 25        |
| 48 | The thalamic mGluR1-PLC $\beta$ 24 pathway is critical in sleep architecture. <i>Molecular Brain</i> , 2016, 9, 100.   | 1.3  | 6         |
| 49 | Graphene Oxide Hierarchical Patterns for the Derivation of Electrophysiologically Functional Neuron-like Cells from Human Neural Stem Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 17763-17774. | 4.0  | 81        |
| 50 | Neuroanatomical Visualization of the Impaired Striatal Connectivity in Huntington's Disease Mouse Model. <i>Molecular Neurobiology</i> , 2016, 53, 2276-2286.  | 1.9  | 8         |
| 51 | CXXC5 plays a role as a transcription activator for myelin genes on oligodendrocyte differentiation. <i>Glia</i> , 2016, 64, 350-362.  | 2.5  | 23        |
| 52 | Identification of disulfide cross-linked tau dimer responsible for tau propagation. <i>Scientific Reports</i> , 2015, 5, 15231.  | 1.6  | 51        |
| 53 | Human-induced pluripotent stem cells generated from intervertebral disc cells improve neurologic functions in spinal cord injury. <i>Stem Cell Research and Therapy</i> , 2015, 6, 125.                            | 2.4  | 24        |
| 54 | In-vivo and label-free imaging of cellular and tissue structures in mouse ear skin by using second- and third-harmonic generation microscopy. <i>Journal of the Korean Physical Society</i> , 2015, 66, 597-601.   | 0.3  | 4         |

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|----|--|------|-----------|
| 55 | Bulk Switching Instrumentation Amplifier for a High-Impedance Source in Neural Signal Recording. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2015, 62, 194-198.  | 2.2  | 28        |
| 56 | A non-immunosuppressive FK506 analogue with neuroregenerative activity produced from a genetically engineered <i>Streptomyces</i> strain. <i>RSC Advances</i> , 2015, 5, 6823-6828.  | 1.7  | 9         |
| 57 | Recapitulation of inÂvivo-like paracrine signals of human mesenchymal stem cells for functional neuronal differentiation of human neural stem cells in a 3D microfluidic system. <i>Biomaterials</i> , 2015, 63, 177-188.                              | 5.7  | 67        |
| 58 | Systematic functional profiling of transcription factor networks in <i>Cryptococcus neoformans</i> . <i>Nature Communications</i> , 2015, 6, 6757.   | 5.8  | 155       |
| 59 | Combining Suppression of Stemness with Lineage-Specific Induction Leads to Conversion of Pluripotent Cells into Functional Neurons. <i>Chemistry and Biology</i> , 2015, 22, 1512-1520.  | 6.2  | 7         |
| 60 | Rebound burst firing in the reticular thalamus is not essential for pharmacological absence seizures in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 11828-11833.                         | 3.3  | 48        |
| 61 | Distinct and Redundant Roles of Protein Tyrosine Phosphatases Ptp1 and Ptp2 in Governing the Differentiation and Pathogenicity of <i>Cryptococcus neoformans</i> . <i>Eukaryotic Cell</i> , 2014, 13, 796-812.   | 3.4  | 26        |
| 62 | T-type Ca <sup>2+</sup> channels in absence epilepsy. <i>Pflugers Archiv European Journal of Physiology</i> , 2014, 466, 719-734.  | 1.3  | 20        |
| 63 | Multiscale, Hierarchically Patterned Topography for Directing Human Neural Stem Cells into Functional Neurons. <i>ACS Nano</i> , 2014, 8, 7809-7822.   | 7.3  | 132       |
| 64 | T-Type Ca <sup>2+</sup> Channels in Normal and Abnormal Brain Functions. <i>Physiological Reviews</i> , 2013, 93, 961-992.   | 13.1 | 114       |
| 65 | Amelioration of neurodegenerative diseases by cell death-induced cytoplasmic delivery of humanin. <i>Journal of Controlled Release</i> , 2013, 166, 307-315.   | 4.8  | 16        |
| 66 | T-type Ca <sup>2+</sup> channels in absence epilepsy. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013, 1828, 1560-1571.   | 1.4  | 26        |
| 67 | Sleep spindles are generated in the absence of T-type calcium channel-mediated low-threshold burst firing of thalamocortical neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 20266-20271. | 3.3  | 31        |
| 68 | Optogenetically induced sleep spindle rhythms alter sleep architectures in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 20673-20678.  | 3.3  | 100       |
| 69 | CaV2.3 Channels Are Critical for Oscillatory Burst Discharges in the Reticular Thalamus and Absence Epilepsy. <i>Neuron</i> , 2011, 70, 95-108.  | 3.8  | 78        |
| 70 | Thalamic Ryanodine Receptors Are Involved in Controlling the Tonic Firing of Thalamocortical Neurons and Inflammatory Pain Signal Processing. <i>Journal of Neuroscience</i> , 2011, 31, 1213-1218.  | 1.7  | 22        |
| 71 | Deletion of phospholipase C Î²4 in thalamocortical relay nucleus leads to absence seizures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 21912-21917.   | 3.3  | 42        |
| 72 | Tuning Thalamic Firing Modes via Simultaneous Modulation of T- and L-Type Ca <sup>2+</sup> Channels Controls Pain Sensory Gating in the Thalamus. <i>Journal of Neuroscience</i> , 2008, 28, 13331-13340.  | 1.7  | 62        |

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|----|--|-----|-----------|
| 73 | Nitroxyl triggers Ca <sup>2+</sup> release from skeletal and cardiac sarcoplasmic reticulum by oxidizing ryanodine receptors. <i>Cell Calcium</i> , 2005, 37, 87-96.                                 | 1.1 | 105       |
| 74 | Effects of pO <sub>2</sub> on the activation of skeletal muscle ryanodine receptors by NO: A cautionary note. <i>Cell Calcium</i> , 2005, 38, 481-488.   | 1.1 | 33        |
| 75 | Low N-Ethylmaleimide Concentrations Activate Ryanodine Receptors by a Reversible Interaction, Not an Alkylation of Critical Thiols. <i>Journal of Biological Chemistry</i> , 2000, 275, 36775-36780. | 1.6 | 14        |