

# 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  | 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       |
| 2  | Systematic functional profiling of transcription factor networks in <i>Cryptococcus neoformans</i> . <i>Nature Communications</i> , 2015, 6, 6757.  | 5.8  | 155       |
| 3  | Behaviorally consequential astrocytic regulation of neural circuits. <i>Neuron</i> , 2021, 109, 576-596.  | 3.8  | 150       |
| 4  | Multiscale, Hierarchically Patterned Topography for Directing Human Neural Stem Cells into Functional Neurons. <i>ACS Nano</i> , 2014, 8, 7809-7822.  | 7.3  | 132       |
| 5  | T-Type Ca <sup>2+</sup> Channels in Normal and Abnormal Brain Functions. <i>Physiological Reviews</i> , 2013, 93, 961-992.  | 13.1 | 114       |
| 6  | Systematic functional analysis of kinases in the fungal pathogen <i>Cryptococcus neoformans</i> . <i>Nature Communications</i> , 2016, 7, 12766.  | 5.8  | 112       |
| 7  | 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       |
| 8  | 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       |
| 9  | 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        |
| 10 | 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        |
| 11 | 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        |
| 12 | Astrocytes Control Sensory Acuity via Tonic Inhibition in the Thalamus. <i>Neuron</i> , 2020, 108, 691-706.e10.   | 3.8  | 79        |
| 13 | 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        |
| 14 | Spike Frequency Adaptation in Neurons of the Central Nervous System. <i>Experimental Neurobiology</i> , 2017, 26, 179-185.  | 0.7  | 74        |
| 15 | 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        |
| 16 | Recapitulation of in vivo-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        |
| 17 | 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        |
| 18 | Identification of disulfide cross-linked tau dimer responsible for tau propagation. <i>Scientific Reports</i> , 2015, 5, 15231.   | 1.6  | 51        |

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|----|--|-----|-----------|
| 19 | 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        |
| 20 | 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        |
| 21 | 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        |
| 22 | <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        |
| 23 | Deletion of phospholipase C $\beta$ 4 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        |
| 24 | Fungal kinases and transcription factors regulating brain infection in <i>Cryptococcus neoformans</i> . <i>Nature Communications</i> , 2020, 11, 1521.   | 5.8 | 41        |
| 25 | 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        |
| 26 | 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        |
| 27 | 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        |
| 28 | 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        |
| 29 | 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        |
| 30 | 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        |
| 31 | T-type Ca <sup>2+</sup> channels in absence epilepsy. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013, 1828, 1560-1571.   | 1.4 | 26        |
| 32 | 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        |
| 33 | 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        |
| 34 | 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        |
| 35 | CXXC5 plays a role as a transcription activator for myelin genes on oligodendrocyte differentiation. <i>Glia</i> , 2016, 64, 350-362.  | 2.5 | 23        |
| 36 | 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        |

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|----|---|-----|-----------|
| 37 | 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        |
| 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 | 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        |
| 40 | Genome-wide functional analysis of phosphatases in the pathogenic fungus <i>Cryptococcus neoformans</i> . <i>Nature Communications</i> , 2020, 11, 4212.  | 5.8 | 22        |
| 41 | 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        |
| 42 | Biosynthesis of Nonimmunosuppressive FK506 Analogues with Antifungal Activity. <i>Journal of Natural Products</i> , 2019, 82, 2078-2086.  | 1.5 | 18        |
| 43 | 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        |
| 44 | 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        |
| 45 | 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        |
| 46 | Orthopedic surgery-induced cognitive dysfunction is mediated by CX3CL1/R1 signaling. <i>Journal of Neuroinflammation</i> , 2021, 18, 93.  | 3.1 | 16        |
| 47 | Suppression of Sin3A activity promotes differentiation of pluripotent cells into functional neurons. <i>Scientific Reports</i> , 2017, 7, 44818.  | 1.6 | 15        |
| 48 | 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        |
| 49 | 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        |
| 50 | 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        |
| 51 | 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        |
| 52 | Npas4 regulates IQSEC3 expression in hippocampal somatostatin interneurons to mediate anxiety-like behavior. <i>Cell Reports</i> , 2021, 36, 109417.  | 2.9 | 10        |
| 53 | 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         |
| 54 | Real-Time Detection of Markers in Blood. <i>Nano Letters</i> , 2019, 19, 2291-2298.   | 4.5 | 9         |

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|----|--|-----|-----------|
| 55 | 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         |
| 56 | Neuroanatomical Visualization of the Impaired Striatal Connectivity in Huntington's Disease Mouse Model. <i>Molecular Neurobiology</i> , 2016, 53, 2276-2286.  | 1.9 | 8         |
| 57 | 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         |
| 58 | The Possible Role of Neurobeachin in Extinction of Contextual Fear Memory. <i>Scientific Reports</i> , 2018, 8, 13752.   | 1.6 | 8         |
| 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 | 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         |
| 61 | 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         |
| 62 | The thalamic mGluR1-PLC $\beta$ 24 pathway is critical in sleep architecture. <i>Molecular Brain</i> , 2016, 9, 100.   | 1.3 | 6         |
| 63 | 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         |
| 64 | 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         |
| 65 | 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         |
| 66 | Overcoming Depression by Inhibition of Neural Burst Firing. <i>Neuron</i> , 2018, 98, 878-879.   | 3.8 | 5         |
| 67 | 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         |
| 68 | 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         |
| 69 | 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         |
| 70 | ZnO nanotube waveguide arrays on graphene films for local optical excitation on biological cells. <i>APL Materials</i> , 2017, 5, .  | 2.2 | 4         |
| 71 | 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         |
| 72 | Biosynthesis of Nonimmunosuppressive ProlylFK506 Analogues with Neurite Outgrowth and Synaptogenic Activity. <i>Journal of Natural Products</i> , 2021, 84, 195-203.   | 1.5 | 1         |

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| 73 | ZnO nanotube waveguide arrays on graphene films for local optical excitation on biological cells. , 2017, , .   |     | 1         |
| 74 | Combined Method of Neuronal Cell-Inducible Vector and Valproic Acid for Enhanced Gene Expression under Hypoxic Conditions. Tissue Engineering and Regenerative Medicine, 2020, 17, 55-66. | 1.6 | 0         |
| 75 | Deletion of Phospholipase C $\beta$ 1 in the Thalamic Reticular Nucleus Induces Absence Seizures. Experimental Neurobiology, 2022, 31, 116-130.   | 0.7 | 0         |