

Leslie C Griffith

List of Publications by Year in descending order

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Version: 2024-02-01

108
papers

7,528
citations

66343

42
h-index

58581

82
g-index

122
all docs

122
docs citations

122
times ranked

6069
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Regulatory Phosphorylation of AMPA-Type Glutamate Receptors by CaM-KII During Long-Term Potentiation. <i>Science</i> , 1997, 276, 2042-2045. | 12.6 | 978 |
| 2 | PDF Cells Are a GABA-Responsive Wake-Promoting Component of the <i>Drosophila</i> Sleep Circuit. <i>Neuron</i> , 2008, 60, 672-682. | 8.1 | 366 |
| 3 | Analysis of <i>Drosophila</i> TRPA1 reveals an ancient origin for human chemical nociception. <i>Nature</i> , 2010, 464, 597-600. | 27.8 | 299 |
| 4 | Light-arousal and circadian photoreception circuits intersect at the large PDF cells of the <i>Drosophila</i> brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 19587-19594. | 7.1 | 275 |
| 5 | Generalization of Courtship Learning in <i>Drosophila</i> Is Mediated by cis-Vaccenyl Acetate. <i>Current Biology</i> , 2007, 17, 599-605. | 3.9 | 257 |
| 6 | Circadian neuron feedback controls the <i>Drosophila</i> sleep activity profile. <i>Nature</i> , 2016, 536, 292-297. | 27.8 | 249 |
| 7 | Regulation of DLG Localization at Synapses by CaMKII-Dependent Phosphorylation. <i>Cell</i> , 1999, 98, 353-363. | 28.9 | 245 |
| 8 | Temporal Dynamics of Neuronal Activation by Channelrhodopsin-2 and TRPA1 Determine Behavioral Output in <i>Drosophila</i> Larvae. <i>Journal of Neurophysiology</i> , 2009, 101, 3075-3088. | 1.8 | 237 |
| 9 | Inhibition of calcium/calmodulin-dependent protein kinase in <i>drosophila</i> disrupts behavioral plasticity. <i>Neuron</i> , 1993, 10, 501-509. | 8.1 | 218 |
| 10 | A gustatory receptor paralogue controls rapid warmth avoidance in <i>Drosophila</i> . <i>Nature</i> , 2013, 500, 580-584. | 27.8 | 200 |
| 11 | High-Resolution Positional Tracking for Long-Term Analysis of <i>Drosophila</i> Sleep and Locomotion Using the "Tracker" Program. <i>PLoS ONE</i> , 2012, 7, e37250. | 2.5 | 180 |
| 12 | Modulation of GABAA receptor desensitization uncouples sleep onset and maintenance in <i>Drosophila</i> . <i>Nature Neuroscience</i> , 2008, 11, 354-359. | 14.8 | 171 |
| 13 | A single pair of neurons links sleep to memory consolidation in <i>Drosophila melanogaster</i> . <i>ELife</i> , 2015, 4, . | 6.0 | 133 |
| 14 | A Dynamically Regulated 14 ³ , Slob, and Slowpoke Potassium Channel Complex in <i>Drosophila</i> Presynaptic Nerve Terminals. <i>Neuron</i> , 1999, 22, 809-818. | 8.1 | 123 |
| 15 | Autonomous Circuitry for Substrate Exploration in Freely Moving <i>Drosophila</i> Larvae. <i>Current Biology</i> , 2012, 22, 1861-1870. | 3.9 | 123 |
| 16 | Electrophysiological and Morphological Characterization of Identified Motor Neurons in the <i>Drosophila</i> Third Instar Larva Central Nervous System. <i>Journal of Neurophysiology</i> , 2004, 91, 2353-2365. | 1.8 | 118 |
| 17 | Slob, a Novel Protein that Interacts with the Slowpoke Calcium-Dependent Potassium Channel. <i>Neuron</i> , 1998, 20, 565-573. | 8.1 | 110 |
| 18 | Short Neuropeptide F Is a Sleep-Promoting Inhibitory Modulator. <i>Neuron</i> , 2013, 80, 171-183. | 8.1 | 108 |

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|----|---|------|-----------|
| 19 | Imaging analysis of clock neurons reveals light buffers the wake-promoting effect of dopamine. <i>Nature Neuroscience</i> , 2011, 14, 889-895. | 14.8 | 106 |
| 20 | Regulation of Calcium/Calmodulin-Dependent Protein Kinase II Activation by Intramolecular and Intermolecular Interactions. <i>Journal of Neuroscience</i> , 2004, 24, 8394-8398. | 3.6 | 102 |
| 21 | Courtship learning in <i>Drosophila melanogaster</i> : Diverse plasticity of a reproductive behavior. <i>Learning and Memory</i> , 2009, 16, 743-750. | 1.3 | 102 |
| 22 | Mapping of the Anatomical Circuit of CaM Kinase-Dependent Courtship Conditioning in <i>Drosophila</i> . <i>Learning and Memory</i> , 1999, 6, 177-192. | 1.3 | 102 |
| 23 | Concomitant alterations of physiological and developmental plasticity in drosophila CaM kinase II-inhibited synapses. <i>Neuron</i> , 1994, 13, 1373-1384. | 8.1 | 101 |
| 24 | Regulation of the Ca ²⁺ /CaM-Responsive Pool of CaMKII by Scaffold-Dependent Autophosphorylation. <i>Neuron</i> , 2003, 40, 1185-1197. | 8.1 | 100 |
| 25 | Sequential Learning of Pheromonal Cues Modulates Memory Consolidation in Trainer-Specific Associative Courtship Conditioning. <i>Current Biology</i> , 2005, 15, 194-206. | 3.9 | 100 |
| 26 | Activity-Dependent Remodeling of Presynaptic Inputs by Postsynaptic Expression of Activated CaMKII. <i>Neuron</i> , 2003, 39, 269-281. | 8.1 | 93 |
| 27 | Spike integration and cellular memory in a rhythmic network from Na ⁺ /K ⁺ pump current dynamics. <i>Nature Neuroscience</i> , 2010, 13, 53-59. | 14.8 | 91 |
| 28 | The eag Potassium Channel Binds and Locally Activates Calcium/Calmodulin-dependent Protein Kinase II. <i>Journal of Biological Chemistry</i> , 2004, 279, 10206-10214. | 3.4 | 87 |
| 29 | CaM Kinase II and Visual Input Modulate Memory Formation in the Neuronal Circuit Controlling Courtship Conditioning. <i>Journal of Neuroscience</i> , 1997, 17, 9384-9391. | 3.6 | 83 |
| 30 | Reorganization of Sleep by Temperature in <i>Drosophila</i> Requires Light, the Homeostat, and the Circadian Clock. <i>Current Biology</i> , 2016, 26, 882-892. | 3.9 | 83 |
| 31 | Courtship Initiation Is Stimulated by Acoustic Signals in <i>Drosophila melanogaster</i> . <i>PLoS ONE</i> , 2008, 3, e3246. | 2.5 | 72 |
| 32 | Calcium/Calmodulin-dependent Protein Kinase II Phosphorylates and Regulates the <i>Drosophila</i> Eag Potassium Channel. <i>Journal of Biological Chemistry</i> , 2002, 277, 24022-24029. | 3.4 | 71 |
| 33 | A structural mechanism for maintaining the 'on-state' of the CaMKII memory switch in the post-synaptic density. <i>Journal of Neurochemistry</i> , 2007, 103, 070630082917009-??? | 3.9 | 66 |
| 34 | A Serotonin-Modulated Circuit Controls Sleep Architecture to Regulate Cognitive Function Independent of Total Sleep in <i>Drosophila</i> . <i>Current Biology</i> , 2019, 29, 3635-3646.e5. | 3.9 | 66 |
| 35 | Calcium/Calmodulin-Dependent Protein Kinase II: An Unforgettable Kinase. <i>Journal of Neuroscience</i> , 2004, 24, 8391-8393. | 3.6 | 64 |
| 36 | The <i>Drosophila</i> ARC homolog regulates behavioral responses to starvation. <i>Molecular and Cellular Neurosciences</i> , 2007, 36, 211-221. | 2.2 | 60 |

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|----|---|------|-----------|
| 37 | CaMKII, an Enzyme on the Move: Regulation of Temporospacial Localization. <i>Molecular Interventions: Pharmacological Perspectives From Biology, Chemistry and Genomics</i> , 2003, 3, 386-403. | 3.4 | 60 |
| 38 | Electrophysiological and Anatomical Characterization of PDF-Positive Clock Neurons in the Intact Adult <i>Drosophila</i> Brain. <i>Journal of Neurophysiology</i> , 2006, 95, 3955-3960. | 1.8 | 53 |
| 39 | Covert sleep-related biological processes are revealed by probabilistic analysis in <i>Drosophila</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 10024-10034. | 7.1 | 53 |
| 40 | Unconventional sex: fresh approaches to courtship learning. <i>Current Opinion in Neurobiology</i> , 2004, 14, 745-750. | 4.2 | 52 |
| 41 | Availability of food determines the need for sleep in memory consolidation. <i>Nature</i> , 2021, 589, 582-585. | 27.8 | 51 |
| 42 | The Diversity of Calcium/Calmodulin-Dependent Protein Kinase II Isoforms in <i>Drosophila</i> Is Generated by Alternative Splicing of a Single Gene. <i>Journal of Neurochemistry</i> , 1993, 61, 1534-1537. | 3.9 | 47 |
| 43 | Identification and Characterization of a SUMO-1 Conjugation System That Modifies Neuronal Calcium/Calmodulin-dependent Protein Kinase II in <i>Drosophila melanogaster</i> . <i>Journal of Biological Chemistry</i> , 2000, 275, 40765-40776. | 3.4 | 47 |
| 44 | Neuromodulatory control of sleep in <i>Drosophila melanogaster</i> : integration of competing and complementary behaviors. <i>Current Opinion in Neurobiology</i> , 2013, 23, 819-823. | 4.2 | 47 |
| 45 | Presynaptic Calcium/Calmodulin-Dependent Protein Kinase II Regulates Habituation of a Simple Reflex in Adult <i>Drosophila</i> . <i>Journal of Neuroscience</i> , 1998, 18, 8955-8964. | 3.6 | 46 |
| 46 | Visual Input Regulates Circuit Configuration in Courtship Conditioning of <i>Drosophila melanogaster</i> . <i>Learning and Memory</i> , 2000, 7, 32-42. | 1.3 | 45 |
| 47 | Measurement of Courtship Behavior in <i>Drosophila melanogaster</i> . <i>Cold Spring Harbor Protocols</i> , 2007, 2007, pdb.prot4847. | 0.3 | 45 |
| 48 | Activity-Dependent Gating of CaMKII Autonomous Activity by <i>Drosophila</i> CASK. <i>Neuron</i> , 2006, 51, 327-337. | 8.1 | 42 |
| 49 | Regulation of neuronal excitability in <i>Drosophila</i> by constitutively active CaMKII. <i>Journal of Neurobiology</i> , 2002, 52, 24-42. | 3.6 | 41 |
| 50 | Shaw potassium channel genes in <i>Drosophila</i> . <i>Journal of Neurobiology</i> , 2005, 63, 235-254. | 3.6 | 41 |
| 51 | Regulation of <i>Drosophila</i> Ca ²⁺ /Calmodulin-Dependent Protein Kinase II by Autophosphorylation Analyzed by Site-Directed Mutagenesis. <i>Journal of Neurochemistry</i> , 1998, 71, 378-387. | 3.9 | 40 |
| 52 | Multimodal Sensory Integration of Courtship Stimulating Cues in <i>Drosophila melanogaster</i> . <i>Annals of the New York Academy of Sciences</i> , 2009, 1170, 394-398. | 3.8 | 39 |
| 53 | Central Regulation of Locomotor Behavior of <i>Drosophila melanogaster</i> Depends on a CASK Isoform Containing CaMK-Like and L27 Domains. <i>Genetics</i> , 2011, 187, 171-184. | 2.9 | 38 |
| 54 | Neuroendocrine effects of caffeine in normal subjects. <i>Clinical Pharmacology and Therapeutics</i> , 1984, 36, 402-407. | 4.7 | 36 |

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|----|--|------|-----------|
| 55 | Interaction of the K Channel \hat{I}^2 Subunit, Hyperkinetic, with eag Family Members. Journal of Biological Chemistry, 1998, 273, 6389-6394. | 3.4 | 35 |
| 56 | Calcium-Independent Calcium/Calmodulin-Dependent Protein Kinase II in the Adult Drosophila CNS Enhances the Training of Pheromonal Cues. Journal of Neuroscience, 2004, 24, 10584-10593. | 3.6 | 35 |
| 57 | MicroRNAs Regulate Sleep and Sleep Homeostasis in Drosophila. Cell Reports, 2018, 23, 3776-3786. | 6.4 | 34 |
| 58 | The Role of Dopamine in Associative Learning in Drosophila: An Updated Unified Model. Neuroscience Bulletin, 2021, 37, 831-852. | 2.9 | 33 |
| 59 | The <i>Drosophila</i> neuropeptides PDF and sNPF have opposing electrophysiological and molecular effects on central neurons. Journal of Neurophysiology, 2014, 111, 1033-1045. | 1.8 | 32 |
| 60 | Identifying behavioral circuits in Drosophila melanogaster: moving targets in a flying insect. Current Opinion in Neurobiology, 2012, 22, 609-614. | 4.2 | 31 |
| 61 | Daily rhythms in locomotor circuits in <i>Drosophila</i> involve PDF. Journal of Neurophysiology, 2013, 110, 700-708. | 1.8 | 31 |
| 62 | Functional Diversity of Alternatively Spliced Isoforms of Drosophila Ca ²⁺ /Calmodulin-dependent Protein Kinase II. Journal of Biological Chemistry, 1996, 271, 19846-19851. | 3.4 | 26 |
| 63 | Alternative splicing of Drosophila calcium/calmodulin-dependent protein kinase II regulates substrate specificity and activation. Molecular Brain Research, 2000, 80, 26-34. | 2.3 | 25 |
| 64 | Plasticity and Second Messengers During Synapse Development. International Review of Neurobiology, 2006, 75, 237-265. | 2.0 | 24 |
| 65 | The Long 3'UTR mRNA of CaMKII Is Essential for Translation-Dependent Plasticity of Spontaneous Release in Drosophila melanogaster. Journal of Neuroscience, 2017, 37, 10554-10566. | 3.6 | 24 |
| 66 | The conserved microRNA miR-34 regulates synaptogenesis via coordination of distinct mechanisms in presynaptic and postsynaptic cells. Nature Communications, 2020, 11, 1092. | 12.8 | 24 |
| 67 | Cholinergic neurons mediate CaMKII-dependent enhancement of courtship suppression. Learning and Memory, 2006, 13, 686-689. | 1.3 | 23 |
| 68 | Functional Heterogeneity of Alternatively Spliced Isoforms of <i>Drosophila</i> Ca ²⁺ /Calmodulin-Dependent Protein Kinase II. Journal of Neurochemistry, 1996, 66, 1282-1288. | 3.9 | 22 |
| 69 | High-Resolution Video Tracking of Locomotion in Adult Drosophila Melanogaster.. Journal of Visualized Experiments, 2009, , . | 0.3 | 22 |
| 70 | Assay for Courtship Suppression in <i>Drosophila</i> . Cold Spring Harbor Protocols, 2011, 2011, pdb.prot5575. | 0.3 | 22 |
| 71 | Model Organisms in G Protein-Coupled Receptor Research. Molecular Pharmacology, 2015, 88, 596-603. | 2.3 | 21 |
| 72 | Role for calcium/calmodulin-dependent protein kinase II in the p75-mediated regulation of sympathetic cholinergic transmission. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 2915-2919. | 7.1 | 20 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 73 | Song Choice Is Modulated by Female Movement in <i>Drosophila</i> Males. <i>PLoS ONE</i> , 2012, 7, e46025. | 2.5 | 20 |
| 74 | DlgS97/SAP97, a Neuronal Isoform of Discs Large, Regulates Ethanol Tolerance. <i>PLoS ONE</i> , 2012, 7, e48967. | 2.5 | 19 |
| 75 | Sleep in Populations of <i>Drosophila Melanogaster</i> . <i>ENeuro</i> , 2015, 2, ENEURO.0071-15.2015. | 1.9 | 18 |
| 76 | Potassium channels: The importance of transport signals. <i>Current Biology</i> , 2001, 11, R226-R228. | 3.9 | 17 |
| 77 | Alternative splicing of the <i>eag</i> potassium channel gene in <i>Drosophila</i> generates a novel signal transduction scaffolding protein. <i>Molecular and Cellular Neurosciences</i> , 2009, 40, 338-343. | 2.2 | 17 |
| 78 | Channelrhodopsin2 Mediated Stimulation of Synaptic Potentials at <i>Drosophila</i> Neuromuscular Junctions. <i>Journal of Visualized Experiments</i> , 2009, , . | 0.3 | 17 |
| 79 | Regulation of <i>Eag</i> by Ca^{2+} /calmodulin controls presynaptic excitability in <i>Drosophila</i> . <i>Journal of Neurophysiology</i> , 2018, 119, 1665-1680. | 1.8 | 17 |
| 80 | Nonreciprocal homeostatic compensation in <i>Drosophila</i> potassium channel mutants. <i>Journal of Neurophysiology</i> , 2017, 117, 2125-2136. | 1.8 | 16 |
| 81 | Regulation of Olfactory Associative Memory by the Circadian Clock Output Signal Pigment-Dispersing Factor (PDF). <i>Journal of Neuroscience</i> , 2020, 40, 9066-9077. | 3.6 | 16 |
| 82 | <i>Drosophila melanogaster</i> as a model system for the study of the function of calcium/calmodulin-dependent protein kinase II in synaptic plasticity. <i>Invertebrate Neuroscience</i> , 1997, 3, 93-102. | 1.8 | 15 |
| 83 | CaMKII uses GTP as a phosphate donor for both substrate and autophosphorylation. <i>Biochemical and Biophysical Research Communications</i> , 2009, 390, 1154-1159. | 2.1 | 15 |
| 84 | Neuron-specific protein interactions of <i>Drosophila</i> CASK- Δ^2 are revealed by mass spectrometry. <i>Frontiers in Molecular Neuroscience</i> , 2014, 7, 58. | 2.9 | 13 |
| 85 | Sleep: hitting the reset button. <i>Nature Neuroscience</i> , 2008, 11, 123-124. | 14.8 | 10 |
| 86 | Larval Population Density Alters Adult Sleep in Wild-Type <i>Drosophila melanogaster</i> but Not in Amnesiac Mutant Flies. <i>Brain Sciences</i> , 2014, 4, 453-470. | 2.3 | 10 |
| 87 | CaMKII: New Tricks for an Old Dog. <i>Cell</i> , 2008, 133, 397-399. | 28.9 | 7 |
| 88 | Characterization of calcium/calmodulin-dependent protein kinase II activity in the nervous system of the lobster, <i>Panulirus interruptus</i> . <i>Invertebrate Neuroscience</i> , 1998, 3, 335-345. | 1.8 | 6 |
| 89 | Local translation provides the asymmetric distribution of CaMKII required for associative memory formation. <i>Current Biology</i> , 2022, 32, 2730-2738.e5. | 3.9 | 6 |
| 90 | In vivo and in vitro phosphorylation of murine lymphocyte differentiation antigen CD5. <i>Biochemical and Biophysical Research Communications</i> , 1989, 159, 536-541. | 2.1 | 4 |

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|-----|--|------|-----------|
| 91 | Intracellular Regions of the Eag Potassium Channel Play a Critical Role in Generation of Voltage-dependent Currents. <i>Journal of Biological Chemistry</i> , 2011, 286, 1389-1399. | 3.4 | 4 |
| 92 | MicroRNAs Regulate Multiple Aspects of Locomotor Behavior in <i>Drosophila</i> . <i>G3: Genes, Genomes, Genetics</i> , 2020, 10, 43-55. | 1.8 | 4 |
| 93 | Rest Is Required to Learn an Appetitively-Reinforced Operant Task in <i>Drosophila</i> . <i>Frontiers in Behavioral Neuroscience</i> , 2021, 15, 681593. | 2.0 | 4 |
| 94 | Pairing-Dependent Plasticity in a Dissected Fly Brain Is Input-Specific and Requires Synaptic CaMKII Enrichment and Nighttime Sleep. <i>Journal of Neuroscience</i> , 2022, 42, 4297-4310. | 3.6 | 4 |
| 95 | Receptor Clustering: Nothing Succeeds Like Success. <i>Current Biology</i> , 2004, 14, R413-R415. | 3.9 | 3 |
| 96 | Regulation of dopamine release by CASK- α^2 modulates locomotor initiation in <i>Drosophila melanogaster</i> . <i>Frontiers in Behavioral Neuroscience</i> , 2014, 8, 394. | 2.0 | 3 |
| 97 | Love hangover. <i>Nature</i> , 2008, 451, 24-25. | 27.8 | 2 |
| 98 | PDF Cells Are a GABA-Responsive Wake-Promoting Component of the <i>Drosophila</i> Sleep Circuit. <i>Neuron</i> , 2009, 61, 152. | 8.1 | 2 |
| 99 | A big picture of a small brain. <i>ELife</i> , 2014, 3, e05580. | 6.0 | 2 |
| 100 | Murine T-cell differentiation antigen CD8 is a direct substrate of protein kinase C. <i>Biochemical and Biophysical Research Communications</i> , 1990, 170, 10-16. | 2.1 | 1 |
| 101 | Circadian Biology: The Supporting Cast Takes On a Starring Role. <i>Current Biology</i> , 2011, 21, R313-R314. | 3.9 | 1 |
| 102 | Courtship learning. , 0, , 116-124. | | 1 |
| 103 | What females really want. <i>Nature</i> , 2014, 512, 138-139. | 27.8 | 1 |
| 104 | Memories of John Lisman. <i>Frontiers in Neural Circuits</i> , 2018, 12, . | 2.8 | 1 |
| 105 | Watching the Fly Brain Learn. <i>Neuron</i> , 2006, 49, 171-174. | 8.1 | 0 |
| 106 | Attention K-Mart Shoppers: Blowout on Aisle 7!. <i>Neuron</i> , 2009, 64, 443-445. | 8.1 | 0 |
| 107 | Editorial overview: Neurobiology of learning and plasticity 2017. <i>Current Opinion in Neurobiology</i> , 2017, 43, A1-A5. | 4.2 | 0 |
| 108 | Up all night on a redeye flight. <i>ELife</i> , 2014, 3, e02087. | 6.0 | 0 |