

# Durga P Mohapatra

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

4,374  
citations

147801

31  
h-index

197818

49  
g-index

52  
all docs

52  
docs citations

52  
times ranked

5490  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Localization and Targeting of Voltage-Dependent Ion Channels in Mammalian Central Neurons. <i>Physiological Reviews</i> , 2008, 88, 1407-1447.  | 28.8 | 447       |
| 2  | Regulation of ion channel localization and phosphorylation by neuronal activity. <i>Nature Neuroscience</i> , 2004, 7, 711-718.   | 14.8 | 407       |
| 3  | Neuropathic Pain: Central vs. Peripheral Mechanisms. <i>Current Pain and Headache Reports</i> , 2017, 21, 28.   | 2.9  | 290       |
| 4  | Graded Regulation of the Kv2.1 Potassium Channel by Variable Phosphorylation. <i>Science</i> , 2006, 313, 976-979.  | 12.6 | 259       |
| 5  | Regulation of Ca <sup>2+</sup> -dependent Desensitization in the Vanilloid Receptor TRPV1 by Calcineurin and cAMP-dependent Protein Kinase. <i>Journal of Biological Chemistry</i> , 2005, 280, 13424-13432.                      | 3.4  | 254       |
| 6  | Desensitization of Capsaicin-activated Currents in the Vanilloid Receptor TRPV1 Is Decreased by the Cyclic AMP-dependent Protein Kinase Pathway. <i>Journal of Biological Chemistry</i> , 2003, 278, 50080-50090.                 | 3.4  | 226       |
| 7  | Kv2.1: A Voltage-Gated K <sup>+</sup> Channel Critical to Dynamic Control of Neuronal Excitability. <i>NeuroToxicology</i> , 2005, 26, 743-752.   | 3.0  | 178       |
| 8  | Calcium- and Metabolic State-Dependent Modulation of the Voltage-Dependent Kv2.1 Channel Regulates Neuronal Excitability in Response to Ischemia. <i>Journal of Neuroscience</i> , 2005, 25, 11184-11193.                         | 3.6  | 171       |
| 9  | SynDIG1: An Activity-Regulated, AMPA- Receptor-Interacting Transmembrane Protein that Regulates Excitatory Synapse Development. <i>Neuron</i> , 2010, 65, 80-93.  | 8.1  | 128       |
| 10 | Sensory TRP Channels. <i>Progress in Molecular Biology and Translational Science</i> , 2015, 131, 73-118.   | 1.7  | 117       |
| 11 | Macrophage angiotensin II type 2 receptor triggers neuropathic pain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E8057-E8066.   | 7.1  | 107       |
| 12 | RGS6, a Modulator of Parasympathetic Activation in Heart. <i>Circulation Research</i> , 2010, 107, 1345-1349.   | 4.5  | 104       |
| 13 | Bidirectional Activity-Dependent Regulation of Neuronal Ion Channel Phosphorylation. <i>Journal of Neuroscience</i> , 2006, 26, 13505-13514.  | 3.6  | 102       |
| 14 | The Kv2.1 C Terminus Can Autonomously Transfer Kv2.1-Like Phosphorylation-Dependent Localization, Voltage-Dependent Gating, and Muscarinic Modulation to Diverse Kv Channels. <i>Journal of Neuroscience</i> , 2006, 26, 685-695. | 3.6  | 97        |
| 15 | Competition between F-actin and Ca <sup>2+</sup> -Calmodulin Controls Surface Retention of the L-type Ca <sup>2+</sup> Channel CaV1.2. <i>Neuron</i> , 2013, 78, 483-497.   | 8.1  | 97        |
| 16 | Nociceptive TRP Channels: Sensory Detectors and Transducers in Multiple Pain Pathologies. <i>Pharmaceuticals</i> , 2016, 9, 72.   | 3.8  | 92        |
| 17 | Angiotensin II Triggers Peripheral Macrophage-to-Sensory Neuron Redox Crosstalk to Elicit Pain. <i>Journal of Neuroscience</i> , 2018, 38, 7032-7057.   | 3.6  | 92        |
| 18 | Regulation of intrinsic excitability in hippocampal neurons by activity-dependent modulation of the K <sub>v</sub> 2.1 potassium channel. <i>Channels</i> , 2009, 3, 46-56.   | 2.8  | 85        |

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|----|---|-----|-----------|
| 19 | A tyrosine residue in TM6 of the Vanilloid Receptor TRPV1 involved in desensitization and calcium permeability of capsaicin-activated currents. <i>Molecular and Cellular Neurosciences</i> , 2003, 23, 314-324.                                    | 2.2 | 84        |
| 20 | Use-Dependent Block by Lidocaine but Not Amitriptyline Is More Pronounced in Tetrodotoxin (TTX)-Resistant Nav1.8 Than in TTX-Sensitive Na <sup>+</sup> Channels. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2007, 320, 354-364. | 2.5 | 76        |
| 21 | Disruption of the non-canonical Wnt gene PRICKLE2 leads to autism-like behaviors with evidence for hippocampal synaptic dysfunction. <i>Molecular Psychiatry</i> , 2013, 18, 1077-1089.   | 7.9 | 74        |
| 22 | The Complement System Component C5a Produces Thermal Hyperalgesia via Macrophage-to-Nociceptor Signaling That Requires NGF and TRPV1. <i>Journal of Neuroscience</i> , 2016, 36, 5055-5070.   | 3.6 | 64        |
| 23 | Dynamic regulation of the voltage-gated Kv2.1 potassium channel by multisite phosphorylation. <i>Biochemical Society Transactions</i> , 2007, 35, 1064-1068.  | 3.4 | 60        |
| 24 | Inflammation and nerve injury minimally affect mouse voluntary behaviors proposed as indicators of pain. <i>Neurobiology of Pain (Cambridge, Mass )</i> , 2017, 2, 1-12.  | 2.5 | 59        |
| 25 | Î±-Actinin Anchors PSD-95 at Postsynaptic Sites. <i>Neuron</i> , 2018, 97, 1094-1109.e9.  | 8.1 | 53        |
| 26 | Pharmacological validation of voluntary gait and mechanical sensitivity assays associated with inflammatory and neuropathic pain in mice. <i>Neuropharmacology</i> , 2018, 130, 18-29.  | 4.1 | 51        |
| 27 | Interdomain Cytoplasmic Interactions Govern the Intracellular Trafficking, Gating, and Modulation of the Kv2.1 Channel. <i>Journal of Neuroscience</i> , 2008, 28, 4982-4994.   | 3.6 | 47        |
| 28 | The C-Type Natriuretic Peptide Induces Thermal Hyperalgesia through a Noncanonical GÎ²Î³-dependent Modulation of TRPV1 Channel. <i>Journal of Neuroscience</i> , 2012, 32, 11942-11955.   | 3.6 | 44        |
| 29 | TRPV1 is important for mechanical and heat sensitivity in uninjured animals and development of heat hypersensitivity after muscle inflammation. <i>Pain</i> , 2012, 153, 1664-1672.   | 4.2 | 44        |
| 30 | Regulator of G Protein Signaling 6 (RGS6) Protein Ensures Coordination of Motor Movement by Modulating GABAB Receptor Signaling. <i>Journal of Biological Chemistry</i> , 2012, 287, 4972-4981.   | 3.4 | 43        |
| 31 | Distinct Activation Properties of the Nuclear Factor of Activated T-cells (NFAT) Isoforms NFATc3 and NFATc4 in Neurons. <i>Journal of Biological Chemistry</i> , 2012, 287, 37594-37609.  | 3.4 | 40        |
| 32 | Mechanisms underlying mechanical sensitization induced by complement C5a: the roles of macrophages, TRPV1, and calcitonin gene-related peptide receptors. <i>Pain</i> , 2019, 160, 702-711.   | 4.2 | 35        |
| 33 | Regulation of Kvl channel trafficking by the mamba snake neurotoxin dendrotoxin K. <i>FASEB Journal</i> , 2007, 21, 906-914.  | 0.5 | 33        |
| 34 | Distinct Modifications in Kv2.1 Channel via Chemokine Receptor CXCR4 Regulate Neuronal Survival-Death Dynamics. <i>Journal of Neuroscience</i> , 2012, 32, 17725-17739.   | 3.6 | 33        |
| 35 | Abnormal differentiation of dopaminergic neurons in zebrafish trpm7 mutant larvae impairs development of the motor pattern. <i>Developmental Biology</i> , 2014, 386, 428-439.  | 2.0 | 31        |
| 36 | Deficits in Burrowing Behaviors Are Associated With Mouse Models of Neuropathic but Not Inflammatory Pain or Migraine. <i>Frontiers in Behavioral Neuroscience</i> , 2018, 12, 124.   | 2.0 | 28        |

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|----|---|-----|-----------|
| 37 | Chemokine Co-Receptor CCR5/CXCR4-Dependent Modulation of Kv2.1 Channel Confers Acute Neuroprotection to HIV-1 Glycoprotein gp120 Exposure. PLoS ONE, 2013, 8, e76698.   | 2.5 | 28        |
| 38 | Convergent phosphomodulation of the major neuronal dendritic potassium channel Kv4.2 by pituitary adenylate cyclase-activating polypeptide. Neuropharmacology, 2016, 101, 291-308.                              | 4.1 | 27        |
| 39 | Induction of thermal and mechanical hypersensitivity by parathyroid hormone-related peptide through upregulation of TRPV1 function and trafficking. Pain, 2015, 156, 1620-1636.                                 | 4.2 | 24        |
| 40 | Proteomic Analyses of Kv2.1 Channel Phosphorylation Sites Determining Cell Background-Specific Differences in Function. Channels, 2007, 1, 59-61.   | 2.8 | 21        |
| 41 | The Electrically Silent Kv6.4 Subunit Confers Hyperpolarized Gating Charge Movement in Kv2.1/Kv6.4 Heterotetrameric Channels. PLoS ONE, 2012, 7, e37143.  | 2.5 | 21        |
| 42 | Abnormal trigeminal sensory processing in obese mice. Pain, 2016, 157, 235-246.   | 4.2 | 20        |
| 43 | Parathyroid Hormone-Related Peptide Elicits Peripheral TRPV1-dependent Mechanical Hypersensitivity. Frontiers in Cellular Neuroscience, 2018, 12, 38.   | 3.7 | 20        |
| 44 | Attenuation of Unevoked Mechanical and Cold Pain Hypersensitivities Associated With Experimental Neuropathy in Mice by Angiotensin II Type-2 Receptor Antagonism. Anesthesia and Analgesia, 2019, 128, e84-e87. | 2.2 | 15        |
| 45 | Tissue Preparation and Immunostaining of Mouse Sensory Nerve Fibers Innervating Skin and Limb Bones. Journal of Visualized Experiments, 2012, , e3485.  | 0.3 | 13        |
| 46 | Interference With Peroxisome Proliferator-Activated Receptor- $\beta$ in Vascular Smooth Muscle Causes Baroreflex Impairment and Autonomic Dysfunction. Hypertension, 2014, 64, 590-596.                        | 2.7 | 13        |
| 47 | Parathyroid hormone-related peptide activates and modulates TRPV1 channel in human DRG neurons. European Journal of Pain, 2018, 22, 1685-1690.  | 2.8 | 8         |
| 48 | The non-canonical Wnt ligand Wnt5a rescues morphological deficits in Prickle2-deficient hippocampal neurons. Molecular Psychiatry, 2013, 18, 1049-1049.   | 7.9 | 7         |
| 49 | The Surprising Catch of a Voltage-Gated Potassium Channel in a Neuronal SNARE. Science's STKE: Signal Transduction Knowledge Environment, 2007, 2007, pe37.   | 3.9 | 5         |
| 50 | The Silent K <sup>+</sup> Channel Subunit, KV6.4. Influences the Gating Charge Movement of KV2.1 in a Heterotetrameric Channel Complex. Biophysical Journal, 2012, 102, 532a.                                   | 0.5 | 0         |
| 51 | Regulator of G Protein Signaling 6 (RGS6) ensures coordination of motor movement by modulating GABA B Receptor (GABA B R) signaling. FASEB Journal, 2012, 26, 972.8.  | 0.5 | 0         |