## Christopher J Lingle

## List of Publications by Citations

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| #  | Paper   | IF               | Citations |
|----|---|------------------|-----------|
| 80 | Multiple regulatory sites in large-conductance calcium-activated potassium channels. <i>Nature</i> , <b>2002</b> , 418, 880-4   | 50.4             | 310       |
| 79 | Pharmacological properties of T-type Ca2+ current in adult rat sensory neurons: effects of anticonvulsant and anesthetic agents. <i>Journal of Neurophysiology</i> , <b>1998</b> , 79, 240-52   | 3.2              | 277       |
| 78 | Molecular basis for the inactivation of Ca2+- and voltage-dependent BK channels in adrenal chromaffin cells and rat insulinoma tumor cells. <i>Journal of Neuroscience</i> , <b>1999</b> , 19, 5255-64  | 6.6              | 235       |
| 77 | Calcium sensitivity of BK-type KCa channels determined by a separable domain. <i>Neuron</i> , <b>1994</b> , 13, 671-8   | 3 <b>1</b> 13.9  | 234       |
| 76 | Rectification and rapid activation at low Ca2+ of Ca2+-activated, voltage-dependent BK currents: consequences of rapid inactivation by a novel beta subunit. <i>Journal of Neuroscience</i> , <b>2000</b> , 20, 4890-903                      | 6.6              | 146       |
| 75 | Deletion of the Slo3 gene abolishes alkalization-activated K+ current in mouse spermatozoa. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 5879-84                               | 11.5             | 137       |
| 74 | Allosteric regulation of BK channel gating by Ca(2+) and Mg(2+) through a nonselective, low affinity divalent cation site. <i>Journal of General Physiology</i> , <b>2001</b> , 118, 607-36   | 3.4              | 123       |
| 73 | A cysteine-rich domain defined by a novel exon in a slo variant in rat adrenal chromaffin cells and PC12 cells. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 11710-7   | 5.4              | 121       |
| 72 | Divalent cation sensitivity of BK channel activation supports the existence of three distinct binding sites. <i>Journal of General Physiology</i> , <b>2005</b> , 125, 273-86   | 3.4              | 113       |
| 71 | Consequences of the stoichiometry of Slo1 alpha and auxiliary beta subunits on functional properties of large-conductance Ca2+-activated K+ channels. <i>Journal of Neuroscience</i> , <b>2002</b> , 22, 1550-67                              | I <sup>6.6</sup> | 104       |
| 70 | Paxilline inhibits BK channels by an almost exclusively closed-channel block mechanism. <i>Journal of General Physiology</i> , <b>2014</b> , 144, 415-40  | 3.4              | 91        |
| 69 | Anticonvulsants but not general anesthetics have differential blocking effects on different T-type current variants. <i>Molecular Pharmacology</i> , <b>2000</b> , 58, 98-108   | 4.3              | 88        |
| 68 | BK channel activation by brief depolarizations requires Ca2+ influx through L- and Q-type Ca2+ channels in rat chromaffin cells. <i>Journal of Neurophysiology</i> , <b>1999</b> , 81, 2267-78  | 3.2              | 86        |
| 67 | Redox-sensitive extracellular gates formed by auxiliary beta subunits of calcium-activated potassium channels. <i>Nature Structural and Molecular Biology</i> , <b>2003</b> , 10, 448-54  | 17.6             | 81        |
| 66 | Inactivation of BK channels by the NH2 terminus of the beta2 auxiliary subunit: an essential role of a terminal peptide segment of three hydrophobic residues. <i>Journal of General Physiology</i> , <b>2003</b> , 121, 125-48               | 3.4              | 71        |
| 65 | Cysteine scanning and modification reveal major differences between BK channels and Kv channels in the inner pore region. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 12161-6 | 11.5             | 62        |
| 64 | The Ca2+-activated K+ current of human sperm is mediated by Slo3. <i>ELife</i> , <b>2014</b> , 3, e01438  | 8.9              | 62        |

| 63 | alkalization-activated Slo3 channel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 19419-24   | 11.5                             | 61 |
|----|---|----------------------------------|----|
| 62 | Activation of BK channels in rat chromaffin cells requires summation of Ca(2+) influx from multiple Ca(2+) channels. <i>Journal of Neurophysiology</i> , <b>2000</b> , 84, 1123-35  | 3.2                              | 61 |
| 61 | Heterogeneous kinetic properties of acetylcholine receptor channels in Xenopus myocytes. <i>Journal of Physiology</i> , <b>1986</b> , 378, 119-40   | 3.9                              | 60 |
| 60 | Calcium-activated potassium channels in adrenal chromaffin cells. <i>Ion Channels</i> , <b>1996</b> , 4, 261-301  |                                  | 56 |
| 59 | [Ca2+]i elevations detected by BK channels during Ca2+ influx and muscarine-mediated release of Ca2+ from intracellular stores in rat chromaffin cells. <i>Journal of Neuroscience</i> , <b>1996</b> , 16, 4344-59          | 6.6                              | 53 |
| 58 | Blockade of cholinergic channels by chlorisondamine on a crustacean muscle. <i>Journal of Physiology</i> , <b>1983</b> , 339, 395-417   | 3.9                              | 53 |
| 57 | Regulation of BK Channels by Beta and Gamma Subunits. <i>Annual Review of Physiology</i> , <b>2019</b> , 81, 113-13   | 723.1                            | 50 |
| 56 | Ligand-dependent activation of Slo family channels is defined by interchangeable cytosolic domains. <i>Journal of Neuroscience</i> , <b>2004</b> , 24, 5585-91  | 6.6                              | 47 |
| 55 | Block of mouse Slo1 and Slo3 K+ channels by CTX, IbTX, TEA, 4-AP and quinidine. <i>Channels</i> , <b>2010</b> , 4, 22-4   | <b>1</b> 3                       | 45 |
| 54 | Enantioselective blockade of T-type Ca2+ current in adult rat sensory neurons by a steroid that lacks gamma-aminobutyric acid-modulatory activity. <i>Molecular Pharmacology</i> , <b>1998</b> , 54, 918-27                 | 4.3                              | 44 |
| 53 | A glutamate-activated chloride conductance on a crustacean muscle. <i>Brain Research</i> , <b>1981</b> , 212, 481-8   | 3.7                              | 44 |
| 52 | Knockout of the BK I subunit abolishes inactivation of BK currents in mouse adrenal chromaffin cells and results in slow-wave burst activity. <i>Journal of General Physiology</i> , <b>2014</b> , 144, 275-95              | 3.4                              | 43 |
| 51 | The sensitivity of decapod foregut muscles to acetylcholine and glutamate. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , <b>1980</b> , 138, 187-199               | 2.3                              | 43 |
| 50 | Slo3 K+ channels: voltage and pH dependence of macroscopic currents. <i>Journal of General Physiology</i> , <b>2006</b> , 128, 317-36   | 3.4                              | 42 |
| 49 | Functional regulation of BK potassium channels by 🛽 auxiliary subunits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 4868-73                                 | 11.5                             | 39 |
| 48 | SLO3 auxiliary subunit LRRC52 controls gating of sperm KSPER currents and is critical for normal fertility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 259 | 9 <sup>1</sup> 60 <sup>5</sup> 4 | 39 |
| 47 | Simultaneous knockout of Slo3 and CatSper1 abolishes all alkalization- and voltage-activated current in mouse spermatozoa. <i>Journal of General Physiology</i> , <b>2013</b> , 142, 305-13                                 | 3.4                              | 39 |
| 46 | Activation of skeletal muscle nicotinic acetylcholine receptors. <i>Journal of Membrane Biology</i> , <b>1992</b> , 126, 195-217  | 2.3                              | 38 |

| 45 | Properties of Ba2+ currents arising from human alpha1E and alpha1Ebeta3 constructs expressed in HEK293 cells: physiology, pharmacology, and comparison to native T-type Ba2+ currents. <i>Neuropharmacology</i> , <b>1998</b> , 37, 957-72   | 5.5  | 37 |
|----|--|------|----|
| 44 | Barium ions selectively activate BK channels via the Ca2+-bowl site. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 11413-8   | 11.5 | 35 |
| 43 | Inactivation of BK channels mediated by the NH(2) terminus of the beta3b auxiliary subunit involves a two-step mechanism: possible separation of binding and blockade. <i>Journal of General Physiology</i> , <b>2001</b> , 117, 583-606   | 3.4  | 34 |
| 42 | Different types of blockade of crustacean acetylcholine-induced currents. <i>Journal of Physiology</i> , <b>1983</b> , 339, 419-37   | 3.9  | 34 |
| 41 | Knockout of Slo2.2 enhances itch, abolishes KNa current, and increases action potential firing frequency in DRG neurons. <i>ELife</i> , <b>2015</b> , 4,   | 8.9  | 34 |
| 40 | Closed-channel block of BK potassium channels by bbTBA requires partial activation. <i>Journal of General Physiology</i> , <b>2009</b> , 134, 409-36   | 3.4  | 33 |
| 39 | RINm5f cells express inactivating BK channels whereas HIT cells express noninactivating BK channels. <i>Journal of Neurophysiology</i> , <b>1999</b> , 81, 611-24  | 3.2  | 32 |
| 38 | Differential regulation of action potentials by inactivating and noninactivating BK channels in rat adrenal chromaffin cells. <i>Biophysical Journal</i> , <b>2009</b> , 97, 1832-42   | 2.9  | 31 |
| 37 | Gating properties conferred on BK channels by the beta3b auxiliary subunit in the absence of its NH(2)- and COOH termini. <i>Journal of General Physiology</i> , <b>2001</b> , 117, 607-28   | 3.4  | 28 |
| 36 | Neuromuscular blocking agents. International Anesthesiology Clinics, 1988, 26, 288-301   | 0.6  | 28 |
| 35 | The cytosolic inactivation domains of BKi channels in rat chromaffin cells do not behave like simple, open-channel blockers. <i>Biophysical Journal</i> , <b>1997</b> , 73, 819-30   | 2.9  | 27 |
| 34 | Two classes of regulatory subunits coassemble in the same BK channel and independently regulate gating. <i>Nature Communications</i> , <b>2015</b> , 6, 8341   | 17.4 | 26 |
| 33 | Interactions between beta subunits of the KCNMB family and Slo3: beta4 selectively modulates Slo3 expression and function. <i>PLoS ONE</i> , <b>2009</b> , 4, e6135  | 3.7  | 26 |
| 32 | Gating rings formed by RCK domains: keys to gate opening. <i>Journal of General Physiology</i> , <b>2007</b> , 129, 101-7  | 3.4  | 26 |
| 31 | The anesthetic steroid (+)-3alpha-hydroxy-5alpha-androstane-17beta-carbonitrile blocks N-, Q-, and R-type, but not L- and P-type, high voltage-activated Ca2+ current in hippocampal and dorsal root ganglion neurons of the rat. <i>Molecular Pharmacology</i> , <b>1998</b> , 54, 559-68 | 4.3  | 26 |
| 30 | A GABA-activated chloride-conductance not blocked by picrotoxin on spiny lobster neuromuscular preparations. <i>British Journal of Pharmacology</i> , <b>1986</b> , 87, 771-9  | 8.6  | 26 |
| 29 | pH-regulated Slo3 K+ channels: properties of unitary currents. <i>Journal of General Physiology</i> , <b>2006</b> , 128, 301-15  | 3.4  | 24 |
| 28 | Knockout of the LRRC26 subunit reveals a primary role of LRRC26-containing BK channels in secretory epithelial cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E3739-E3747  | 11.5 | 23 |

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| 27 | Cadmium-cysteine coordination in the BK inner pore region and its structural and functional implications. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 5237-42 | 11.5              | 23 |
|----|---|-------------------|----|
| 26 | Glycine311, a determinant of paxilline block in BK channels: a novel bend in the BK S6 helix. <i>Journal of General Physiology</i> , <b>2010</b> , 135, 481-94  | 3.4               | 22 |
| 25 | Direct observation of a preinactivated, open state in BK channels with beta2 subunits. <i>Journal of General Physiology</i> , <b>2006</b> , 127, 119-31   | 3.4               | 22 |
| 24 | Threading the biophysics of mammalian Slo1 channels onto structures of an invertebrate Slo1 channel. <i>Journal of General Physiology</i> , <b>2017</b> , 149, 985-1007   | 3.4               | 21 |
| 23 | Steady-state and closed-state inactivation properties of inactivating BK channels. <i>Biophysical Journal</i> , <b>2002</b> , 82, 2448-65   | 2.9               | 21 |
| 22 | Species-specific Differences among KCNMB3 BK beta3 auxiliary subunits: some beta3 N-terminal variants may be primate-specific subunits. <i>Journal of General Physiology</i> , <b>2008</b> , 132, 115-29                      | 3.4               | 19 |
| 21 | A limited access compartment between the pore domain and cytosolic domain of the BK channel.<br>Journal of Neuroscience, <b>2006</b> , 26, 11833-43   | 6.6               | 18 |
| 20 | Roles of Na, Ca, and K channels in the generation of repetitive firing and rhythmic bursting in adrenal chromaffin cells. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2018</b> , 470, 39-52                    | 4.6               | 18 |
| 19 | Stereospecific binding of a disordered peptide segment mediates BK channel inactivation. <i>Nature</i> , <b>2012</b> , 485, 133-6   | 50.4              | 16 |
| 18 | Empirical considerations regarding the use of ensemble-variance analysis of macroscopic currents.<br>Journal of Neuroscience Methods, <b>2006</b> , 158, 121-32   | 3                 | 16 |
| 17 | LRRC52 regulates BK channel function and localization in mouse cochlear inner hair cells.  Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 18397-18403                            | 3 <sup>11.5</sup> | 15 |
| 16 | BK channels with beta3a subunits generate use-dependent slow afterhyperpolarizing currents by an inactivation-coupled mechanism. <i>Journal of Neuroscience</i> , <b>2007</b> , 27, 4707-15                                   | 6.6               | 11 |
| 15 | Setting the stage for molecular dissection of the regulatory components of BK channels. <i>Journal of General Physiology</i> , <b>2002</b> , 120, 261-5   | 3.4               | 11 |
| 14 | Blockade of Ba2+ current through human alpha1E channels by two steroid analogs, (+)-ACN and (+)-ECN. <i>Neuropharmacology</i> , <b>1999</b> , 38, 843-55  | 5.5               | 10 |
| 13 | N-terminal inactivation domains of beta subunits are protected from trypsin digestion by binding within the antechamber of BK channels. <i>Journal of General Physiology</i> , <b>2009</b> , 133, 263-82                      | 3.4               | 9  |
| 12 | Comparison of excitatory currents activated by different transmitters on crustacean muscle. I. Acetylcholine-activated channels. <i>Journal of General Physiology</i> , <b>1983</b> , 81, 547-69                              | 3.4               | 8  |
| 11 | Regulatory <b>1</b> subunits defy symmetry in functional modulation of BK channels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 9923-9928                     | 11.5              | 8  |
| 10 | The functionally relevant site for paxilline inhibition of BK channels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 1021-1026                                 | 11.5              | 6  |

| 9 | BK channel inhibition by strong extracellular acidification. <i>ELife</i> , <b>2018</b> , 7,   | 8.9  | 6 |  |
|---|--|------|---|--|
| 8 | Mg2+-dependent regulation of BK channels: importance of electrostatics. <i>Journal of General Physiology</i> , <b>2008</b> , 131, 5-11   | 3.4  | 5 |  |
| 7 | Halothane reduces calcium currents in clonal (GH3) pituitary cells. <i>Annals of the New York Academy of Sciences</i> , <b>1991</b> , 625, 290-2   | 6.5  | 5 |  |
| 6 | Inhibition of large-conductance Ca2+-activated K+ channels by nanomolar concentrations of Ag+. <i>Molecular Pharmacology</i> , <b>2010</b> , 78, 952-60  | 4.3  | 4 |  |
| 5 | Goblet cell LRRC26 regulates BK channel activation and protects against colitis in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,   | 11.5 | 4 |  |
| 4 | Fast inactivation of Nav current in rat adrenal chromaffin cells involves two independent inactivation pathways. <i>Journal of General Physiology</i> , <b>2021</b> , 153,                             | 3.4  | 2 |  |
| 3 | Nav1.3 and FGF14 are primary determinants of the TTX-sensitive sodium current in mouse adrenal chromaffin cells. <i>Journal of General Physiology</i> , <b>2021</b> , 153,                             | 3.4  | 2 |  |
| 2 | NAVigating a transition from single action potential firing to bursting in chromaffin cells. <i>Journal of Physiology</i> , <b>2015</b> , 593, 761-2   | 3.9  | 1 |  |
| 1 | Engineering differential charge selectivity from a single structural template. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 12610-12612 | 11.5 |   |  |