

Derek R Laver

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

2,804
citations

201575

27
h-index

175177

52
g-index

62
all docs

62
docs citations

62
times ranked

2765
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | RyR2 Channel Inhibition Is the Principal Mechanism of Flecainide Action in CPVT. <i>Circulation Research</i> , 2021, 128, 321-331. | 2.0 | 56 |
| 2 | A constricted opening in Kir channels does not impede potassium conduction. <i>Nature Communications</i> , 2020, 11, 3024. | 5.8 | 14 |
| 3 | Measures of maximal tactile pressures of a sustained grasp task using a TactArray device have satisfactory reliability and validity in healthy people. <i>Somatosensory & Motor Research</i> , 2019, 36, 249-261. | 0.4 | 1 |
| 4 | Calmodulin inhibition of human RyR2 channels requires phosphorylation of RyR2-S2808 or RyR2-S2814. <i>Journal of Molecular and Cellular Cardiology</i> , 2019, 130, 96-106. | 0.9 | 19 |
| 5 | Secretoneurin Is an Endogenous Calcium/Calmodulin-Dependent Protein Kinase II Inhibitor That Attenuates Ca ²⁺ -Dependent Arrhythmia. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2019, 12, e007045. | 2.1 | 12 |
| 6 | Mammalian TRP ion channels are insensitive to membrane stretch. <i>Journal of Cell Science</i> , 2019, 132, . | 1.2 | 105 |
| 7 | Simulation of Intracellular Calcium Release in Heart Cells. <i>IFAC-PapersOnLine</i> , 2019, 52, 238-243. | 0.5 | 1 |
| 8 | Functional Characterization of Native, High-Affinity GABA _A Receptors in Human Pancreatic \hat{I}^2 Cells. <i>EBioMedicine</i> , 2018, 30, 273-282. | 2.7 | 42 |
| 9 | Can K ⁺ be Conducted through a Narrow Pore? Investigating the role of Conformational Change in Gating Kir Channels. <i>Biophysical Journal</i> , 2018, 114, 35a. | 0.2 | 0 |
| 10 | Regulation of the RyR channel gating by Ca ²⁺ and Mg ²⁺ . <i>Biophysical Reviews</i> , 2018, 10, 1087-1095. | 1.5 | 47 |
| 11 | Modelling Calcium-Induced-Calcium-Release from Measurements of RyR Gating. <i>Biophysical Journal</i> , 2017, 112, 540a-541a. | 0.2 | 2 |
| 12 | Nerve-induced responses of mouse vaginal smooth muscle. <i>Pflugers Archiv European Journal of Physiology</i> , 2017, 469, 1373-1385. | 1.3 | 11 |
| 13 | Cardiac Calcium Release Channel (Ryanodine Receptor 2) Regulation by Halogenated Anesthetics. <i>Anesthesiology</i> , 2017, 126, 495-506. | 1.3 | 8 |
| 14 | Calmodulin Mutants Linked to Catecholaminergic Polymorphic Ventricular Tachycardia Fail to Inhibit Human RyR2 Channels. <i>Journal of the American College of Cardiology</i> , 2017, 70, 115-117. | 1.2 | 3 |
| 15 | The emerging role of calmodulin regulation of RyR2 in controlling heart rhythm, the progression of heart failure and the antiarrhythmic action of dantrolene. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2017, 44, 135-142. | 0.9 | 29 |
| 16 | Balancing SR Ca ²⁺ uptake and release in the cycle of heart rhythm. <i>Journal of Physiology</i> , 2016, 594, 2779-2780. | 1.3 | 0 |
| 17 | Calmodulin Regulation of Ryanodine Receptors (RyR2) Differs in Failing and Non-Failing Human Hearts due to Differences in RyR2 Phosphorylation. <i>Biophysical Journal</i> , 2016, 110, 269a. | 0.2 | 0 |
| 18 | Polarized and persistent Ca ²⁺ plumes define loci for formation of wall ingrowth papillae in transfer cells. <i>Journal of Experimental Botany</i> , 2015, 66, 1179-1190. | 2.4 | 15 |

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|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Essential Role of Calmodulin in RyR Inhibition by Dantrolene. <i>Molecular Pharmacology</i> , 2015, 88, 57-63. | 1.0 | 64 |
| 20 | Single mechanically-gated cation channel currents can trigger action potentials in neocortical and hippocampal pyramidal neurons. <i>Brain Research</i> , 2015, 1608, 1-13. | 1.1 | 20 |
| 21 | Mechanisms of SR calcium release in healthy and failing human hearts. <i>Biophysical Reviews</i> , 2015, 7, 33-41. | 1.5 | 9 |
| 22 | Pharmacological Approaches That Slow Lymphatic Flow As a Snakebite First Aid. <i>PLoS Neglected Tropical Diseases</i> , 2014, 8, e2722. | 1.3 | 25 |
| 23 | Multiple Modes of Ryanodine Receptor 2 Inhibition by Flecainide. <i>Molecular Pharmacology</i> , 2014, 86, 696-706. | 1.0 | 35 |
| 24 | Divergent Regulation of Ryanodine Receptor 2 Calcium Release Channels by Arrhythmogenic Human Calmodulin Missense Mutants. <i>Circulation Research</i> , 2014, 114, 1114-1124. | 2.0 | 126 |
| 25 | Differences in the regulation of RyR2 from human, sheep, and rat by Ca ²⁺ and Mg ²⁺ in the cytoplasm and in the lumen of the sarcoplasmic reticulum. <i>Journal of General Physiology</i> , 2014, 144, 263-271. | 0.9 | 20 |
| 26 | Extraction of Sub-microscopic Ca Fluxes from Blurred and Noisy Fluorescent Indicator Images with a Detailed Model Fitting Approach. <i>PLoS Computational Biology</i> , 2013, 9, e1002931. | 1.5 | 27 |
| 27 | ÅŸ-Adrenergic Stimulation Increases RyR2 Activity via Intracellular Ca ²⁺ and Mg ²⁺ Regulation. <i>PLoS ONE</i> , 2013, 8, e58334. | 1.1 | 37 |
| 28 | Selective modulation of different GABA _A receptor isoforms by diazepam and etomidate in hippocampal neurons. <i>International Journal of Biochemistry and Cell Biology</i> , 2012, 44, 1491-1500. | 1.2 | 7 |
| 29 | Three independent mechanisms contribute to tetracaine inhibition of cardiac calcium release channels. <i>Journal of Molecular and Cellular Cardiology</i> , 2011, 51, 357-369. | 0.9 | 18 |
| 30 | Inhibition of Cardiac Ca ²⁺ Release Channels (RyR2) Determines Efficacy of Class I Antiarrhythmic Drugs in Catecholaminergic Polymorphic Ventricular Tachycardia. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2011, 4, 128-135. | 2.1 | 137 |
| 31 | Generation and propagation of gastric slow waves. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2010, 37, 516-524. | 0.9 | 62 |
| 32 | Regulation of RyR Channel Gating by Ca ²⁺ , Mg ²⁺ and ATP. <i>Current Topics in Membranes</i> , 2010, 66, 69-89. | 0.5 | 11 |
| 33 | Amyloid- β protein impairs Ca ²⁺ release and contractility in skeletal muscle. <i>Neurobiology of Aging</i> , 2010, 31, 2080-2090. | 1.5 | 52 |
| 34 | Flecainide inhibits arrhythmogenic Ca ²⁺ waves by open state block of ryanodine receptor Ca ²⁺ release channels and reduction of Ca ²⁺ spark mass. <i>Journal of Molecular and Cellular Cardiology</i> , 2010, 48, 293-301. | 0.9 | 209 |
| 35 | SR Ca ²⁺ store refill is a key factor in cardiac pacemaking. <i>Journal of Molecular and Cellular Cardiology</i> , 2010, 49, 412-426. | 0.9 | 26 |
| 36 | Protein interactions involving the β 2 large cytoplasmic loop of GABA _A receptors modulate conductance. <i>FASEB Journal</i> , 2009, 23, 4361-4369. | 0.2 | 17 |

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|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 37 | Amitriptyline Activates Cardiac Ryanodine Channels and Causes Spontaneous Sarcoplasmic Reticulum Calcium Release. <i>Molecular Pharmacology</i> , 2009, 75, 183-195. | 1.0 | 24 |
| 38 | Luminal Ca ²⁺ activation of cardiac ryanodine receptors by luminal and cytoplasmic domains. <i>European Biophysics Journal</i> , 2009, 39, 19-26. | 1.2 | 29 |
| 39 | Flecainide prevents catecholaminergic polymorphic ventricular tachycardia in mice and humans. <i>Nature Medicine</i> , 2009, 15, 380-383. | 15.2 | 539 |
| 40 | Flecainide Inhibits Cardiac Ryanodine Channels And Spontaneous Sarcoplasmic Reticulum Calcium Release In Casq2 Null Myocytes. <i>Biophysical Journal</i> , 2009, 96, 11a. | 0.2 | 0 |
| 41 | Chapter 4 Electrical Methods for Determining Surface Charge Density and Electrolyte Composition at the Lipid Bilayerâ€”Solution Interface. <i>Behavior Research Methods</i> , 2009, , 87-105. | 2.3 | 2 |
| 42 | Amyloid-Î² protein impairs Ca ²⁺ release and contractility in skeletal muscle from Inclusion Body Myositis mice. <i>Biophysical Journal</i> , 2009, 96, 280a. | 0.2 | 0 |
| 43 | A domain peptide of the cardiac ryanodine receptor regulates channel sensitivity to luminal Ca ²⁺ via cytoplasmic Ca ²⁺ sites. <i>European Biophysics Journal</i> , 2008, 37, 455-467. | 1.2 | 12 |
| 44 | Luminal Mg ²⁺ , A Key Factor Controlling RYR2-mediated Ca ²⁺ Release: Cytoplasmic and Luminal Regulation Modeled in a Tetrameric Channel. <i>Journal of General Physiology</i> , 2008, 132, 429-446. | 0.9 | 63 |
| 45 | Ca ²⁺ Stores Regulate Ryanodine Receptor Ca ²⁺ Release Channels via Luminal and Cytosolic Ca ²⁺ Sites. <i>Biophysical Journal</i> , 2007, 92, 3541-3555. | 0.2 | 126 |
| 46 | Ca ²⁺ STORES REGULATE RYANODINE RECEPTOR Ca ²⁺ RELEASE CHANNELS VIA LUMINAL AND CYTOSOLIC Ca ²⁺ SITES. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2007, 34, 889-896. | 0.9 | 62 |
| 47 | The Ryanodine Receptor Pore Blocker Neomycin also Inhibits Channel Activity via a Previously Undescribed High-Affinity Ca ²⁺ Binding Site. <i>Journal of Membrane Biology</i> , 2007, 220, 11-20. | 1.0 | 9 |
| 48 | REGULATION OF RYANODINE RECEPTORS FROM SKELETAL AND CARDIAC MUSCLE DURING REST AND EXCITATION. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2006, 33, 1107-1113. | 0.9 | 20 |
| 49 | Disulfonic stilbene permeation and block of the anion channel from the sarcoplasmic reticulum of rabbit skeletal muscle. <i>American Journal of Physiology - Cell Physiology</i> , 2006, 290, C1666-C1677. | 2.1 | 8 |
| 50 | Regulation of skeletal ryanodine receptors by dihydropyridine receptor IIâ€™III loop C-region peptides: relief of Mg ²⁺ inhibition. <i>Biochemical Journal</i> , 2005, 387, 429-436. | 1.7 | 16 |
| 51 | The mechanism of SR95531 inhibition at GABAA receptors examined in human Î±1Î²1 and Î±1Î²1Î²2S receptors. <i>Journal of Neurochemistry</i> , 2005, 94, 491-501. | 2.1 | 14 |
| 52 | Coupled calcium release channels and their regulation by luminal and cytosolic ions. <i>European Biophysics Journal</i> , 2005, 34, 359-368. | 1.2 | 24 |
| 53 | Regulation of Ryanodine Receptors by Calsequestrin: Effect of High Luminal Ca ²⁺ and Phosphorylation. <i>Biophysical Journal</i> , 2005, 88, 3444-3454. | 0.2 | 100 |
| 54 | Luminal Ca ²⁺ â€”regulated Mg ²⁺ Inhibition of Skeletal RyRs Reconstituted as Isolated Channels or Coupled Clusters. <i>Journal of General Physiology</i> , 2004, 124, 741-758. | 0.9 | 65 |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | Regulation of the Calcium Release Channel from Skeletal Muscle by Suramin and the Disulfonated Stilbene Derivatives DIDS, DBDS, and DNDS. <i>Biophysical Journal</i> , 2003, 84, 1674-1689. | 0.2 | 34 |
| 56 | Calsequestrin Is an Inhibitor of Skeletal Muscle Ryanodine Receptor Calcium Release Channels. <i>Biophysical Journal</i> , 2002, 82, 310-320. | 0.2 | 145 |
| 57 | Characteristics of Irreversible ATP Activation Suggest that Native Skeletal Ryanodine Receptors Can Be Phosphorylated via an Endogenous CaMKII. <i>Biophysical Journal</i> , 2001, 81, 3240-3252. | 0.2 | 47 |
| 58 | Phosphate ion channels in sarcoplasmic reticulum of rabbit skeletal muscle. <i>Journal of Physiology</i> , 2001, 535, 715-728. | 1.3 | 30 |
| 59 | Activation and Inhibition of Skeletal RyR Channels by a Part of the Skeletal DHPR II-III Loop: Effects of DHPR Ser 687 and FKBP12. <i>Biophysical Journal</i> , 1999, 77, 189-203. | 0.2 | 82 |
| 60 | ATP Inhibition and Rectification of a Ca ²⁺ -Activated Anion Channel in Sarcoplasmic Reticulum of Skeletal Muscle. <i>Biophysical Journal</i> , 1998, 74, 2335-2351. | 0.2 | 27 |
| 61 | Interpretation of substates in ion channels: Unipores or multipores?. <i>Progress in Biophysics and Molecular Biology</i> , 1997, 67, 99-140. | 1.4 | 21 |
| 62 | Whole-cell and single-channel currents across the plasmalemma of corn shoot suspension cells. <i>Journal of Membrane Biology</i> , 1991, 121, 11-22. | 1.0 | 38 |