

# Alexander G Obukhov

## List of Publications by Year in descending order

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Version: 2024-02-01

65  
papers

4,767  
citations

159525

30  
h-index

143943

57  
g-index

65  
all docs

65  
docs citations

65  
times ranked

4433  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Human microRNA (miR-20b-5p) modulates Alzheimer's disease pathways and neuronal function, and a specific polymorphism close to the MIR20B gene influences Alzheimer's biomarkers. <i>Molecular Psychiatry</i> , 2022, 27, 1256-1273. | 4.1 | 26        |
| 2  | Capsaicin and TRPV1 Channels in the Cardiovascular System: The Role of Inflammation. <i>Cells</i> , 2022, 11, 18.  | 1.8 | 23        |
| 3  | Transient Receptor Potential Canonical Channels in Health and Disease: A 2020 Update. <i>Cells</i> , 2021, 10, 496.  | 1.8 | 1         |
| 4  | SARS-CoV-2 Infections and ACE2: Clinical Outcomes Linked With Increased Morbidity and Mortality in Individuals With Diabetes. <i>Diabetes</i> , 2020, 69, 1875-1886.   | 0.3 | 61        |
| 5  | The Potential Role of Osteopontin and Furin in Worsening Disease Outcomes in COVID-19 Patients with Pre-Existing Diabetes. <i>Cells</i> , 2020, 9, 2528.   | 1.8 | 22        |
| 6  | Transient Receptor Potential Canonical (TRPC) Channels: Then and Now. <i>Cells</i> , 2020, 9, 1983.  | 1.8 | 88        |
| 7  | ACE2 (Angiotensin-Converting Enzyme 2) in Cardiopulmonary Diseases. <i>Hypertension</i> , 2020, 76, 651-661.   | 1.3 | 57        |
| 8  | Bone Marrow-Derived Cells Restore Functional Integrity of the Gut Epithelial and Vascular Barriers in a Model of Diabetes and ACE2 Deficiency. <i>Circulation Research</i> , 2019, 125, 969-988.                                     | 2.0 | 67        |
| 9  | HIV-Nef Protein Transfer to Endothelial Cells Requires Rac1 Activation and Leads to Endothelial Dysfunction Implications for Statin Treatment in HIV Patients. <i>Circulation Research</i> , 2019, 125, 805-820.                     | 2.0 | 20        |
| 10 | The TRPC6 inhibitor, larixyl acetate, is effective in protecting against traumatic brain injury-induced systemic endothelial dysfunction. <i>Journal of Neuroinflammation</i> , 2019, 16, 21.  | 3.1 | 22        |
| 11 | Long-Term Diabetic Microenvironment Augments the Decay Rate of Capsaicin-Induced Currents in Mouse Dorsal Root Ganglion Neurons. <i>Molecules</i> , 2019, 24, 775.   | 1.7 | 7         |
| 12 | Ex Vivo Method for Assessing the Mouse Reproductive Tract Spontaneous Motility and a MATLAB-based Uterus Motion Tracking Algorithm for Data Analysis. <i>Journal of Visualized Experiments</i> , 2019, , .                           | 0.2 | 1         |
| 13 | Catechol estrogens stimulate insulin secretion in pancreatic $\beta$ -cells via activation of the transient receptor potential A1 (TRPA1) channel. <i>Journal of Biological Chemistry</i> , 2019, 294, 2935-5880.                    | 1.6 | 19        |
| 14 | R125H, W240S, C386R, and V507I SLC4A11 mutations associated with corneal endothelial dystrophy affect the transporter function but not trafficking in PS120 cells. <i>Experimental Eye Research</i> , 2019, 180, 86-91.              | 1.2 | 18        |
| 15 | Small-molecule $\text{Ca}_v1$ antagonist suppresses neuronal voltage-gated calcium-channel trafficking. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E10566-E10575.           | 3.3 | 19        |
| 16 | Loss of Angiotensin-Converting Enzyme 2 Exacerbates Diabetic Retinopathy by Promoting Bone Marrow Dysfunction. <i>Stem Cells</i> , 2018, 36, 1430-1440.  | 1.4 | 43        |
| 17 | Phenylephrine, a common cold remedy active ingredient, suppresses uterine contractions through cAMP signalling. <i>Scientific Reports</i> , 2018, 8, 11666.  | 1.6 | 13        |
| 18 | Myosin Light Chain Kinase $\epsilon$ 210 Induces ER-PM Junctions and STIM1 Puncta Formation to Augment Store-Operated $\text{Ca}^{2+}$ Entry. <i>FASEB Journal</i> , 2018, 32, 865.1.  | 0.2 | 0         |

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|----|--|-----|-----------|
| 19 | Molecular Determinants of the Sensitivity to Gq/11-Phospholipase C-dependent Gating, Gd <sup>3+</sup> Potentiation, and Ca <sup>2+</sup> Permeability in the Transient Receptor Potential Canonical Type 5 (TRPC5) Channel. <i>Journal of Biological Chemistry</i> , 2017, 292, 898-911. | 1.6 | 24        |
| 20 | Long-term spironolactone treatment reduces coronary TRPC expression, vasoconstriction, and atherosclerosis in metabolic syndrome pigs. <i>Basic Research in Cardiology</i> , 2017, 112, 54.  | 2.5 | 33        |
| 21 | Endothelial Cell-Specific Deletion of P2Y <sub>2</sub> Receptor Promotes Plaque Stability in Atherosclerosis-Susceptible ApoE-Null Mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017, 37, 75-83.  | 1.1 | 47        |
| 22 | Novel Roles for Kv7 Channels in Shaping Histamine-Induced Contractions and Bradykinin-Dependent Relaxations in Pig Coronary Arteries. <i>PLoS ONE</i> , 2016, 11, e0148569.  | 1.1 | 14        |
| 23 | Transient Receptor Potential Channels in Metabolic Syndrome-Induced Coronary Artery Disease. , 2016, , 381-396.  |     | 0         |
| 24 | Human SLC4A11 Is a Novel NH <sub>3</sub> /H <sup>+</sup> Co-transporter. <i>Journal of Biological Chemistry</i> , 2015, 290, 16894-16905.  | 1.6 | 64        |
| 25 | Primary cilia signaling mediates intraocular pressure sensation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 12871-12876.  | 3.3 | 102       |
| 26 | PKC-dependent Phosphorylation of the H1 Histamine Receptor Modulates TRPC6 Activity. <i>Cells</i> , 2014, 3, 247-257.  | 1.8 | 15        |
| 27 | Mechanisms underlying capsaicin effects in canine coronary artery: implications for coronary spasm. <i>Cardiovascular Research</i> , 2014, 103, 607-618.   | 1.8 | 14        |
| 28 | Furanocoumarins Are a Novel Class of Modulators for the Transient Receptor Potential Vanilloid Type 1 (TRPV1) Channel. <i>Journal of Biological Chemistry</i> , 2014, 289, 9600-9610.  | 1.6 | 37        |
| 29 | Contribution of electromechanical coupling between KV and CaV1.2 channels to coronary dysfunction in obesity. <i>Basic Research in Cardiology</i> , 2013, 108, 370.  | 2.5 | 19        |
| 30 | Altered calcium signaling in colonic smooth muscle of type 1 diabetic mice. <i>American Journal of Physiology - Renal Physiology</i> , 2012, 302, G66-G76.   | 1.6 | 27        |
| 31 | TLR4 activation of TRPC6-dependent calcium signaling mediates endotoxin-induced lung vascular permeability and inflammation. <i>Journal of Experimental Medicine</i> , 2012, 209, 1953-1968.   | 4.2 | 191       |
| 32 | Constitutive Activity of TRPML2 and TRPML3 Channels versus Activation by Low Extracellular Sodium and Small Molecules. <i>Journal of Biological Chemistry</i> , 2012, 287, 22701-22708.  | 1.6 | 29        |
| 33 | Constitutive Activity of TRPML2 and TRPML3 Channels versus Activation by Low Extracellular Sodium and Small Molecules. <i>Journal of Biological Chemistry</i> , 2012, 287, 22701-22708.  | 1.6 | 26        |
| 34 | Mechanisms controlling neurite outgrowth in a pheochromocytoma cell line: The role of TRPC channels. <i>Journal of Cellular Physiology</i> , 2012, 227, 1408-1419.   | 2.0 | 30        |
| 35 | Contribution of Cav1.2 Channels to Coronary Microvascular Dysfunction in Metabolic Syndrome. <i>FASEB Journal</i> , 2012, 26, 860.16.  | 0.2 | 0         |
| 36 | TLR4 activation of TRPC6-dependent calcium signaling mediates endotoxin-induced lung vascular permeability and inflammation. <i>Journal of General Physiology</i> , 2012, 140, i9-i9.  | 0.9 | 0         |

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| 37 | TLR4 activation of TRPC6-dependent calcium signaling mediates endotoxin-induced lung vascular permeability and inflammation. <i>Journal of Cell Biology</i> , 2012, 199, i2-i2.   | 2.3 | 0         |
| 38 | Expression of GPR30 and GPR43 in oral tissues: deriving new hypotheses on the role of diet in animal physiology and the development of oral cancers. <i>Journal of Animal Physiology and Animal Nutrition</i> , 2011, 95, 280-285.  | 1.0 | 7         |
| 39 | Bromo-enol Lactone Inhibits Voltage-Gated Ca <sup>2+</sup> and Transient Receptor Potential Canonical Channels. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2011, 339, 329-340.                                  | 1.3 | 26        |
| 40 | Small Molecule Activators of TRPML3. <i>Chemistry and Biology</i> , 2010, 17, 135-148.  | 6.2 | 105       |
| 41 | Exercise training decreases store-operated Ca <sup>2+</sup> entry associated with metabolic syndrome and coronary atherosclerosis. <i>Cardiovascular Research</i> , 2010, 85, 631-640.  | 1.8 | 80        |
| 42 | CFTR Regulation of Intracellular pH and Ceramides Is Required for Lung Endothelial Cell Apoptosis. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2009, 41, 314-323.   | 1.4 | 45        |
| 43 | Canonical Transient Receptor Potential Channels Expression Is Elevated in a Porcine Model of Metabolic Syndrome. <i>Molecular Endocrinology</i> , 2009, 23, 689-699.  | 3.7 | 42        |
| 44 | TRPC5 channels undergo changes in gating properties during the activation-deactivation cycle. <i>Journal of Cellular Physiology</i> , 2008, 216, 162-171.   | 2.0 | 31        |
| 45 | Expression Level of Canonical Transient Receptor Potential (TRPC) Channels is Increased in the Adrenal Medulla of Ossabaw Miniature Pigs Manifesting the Metabolic Syndrome. <i>FASEB Journal</i> , 2008, 22, 1201.14.              | 0.2 | 1         |
| 46 | Induction of Calcium Influx through TRPC5 Channels by Cross-Linking of GM1 Ganglioside Associated with $\alpha 5 \beta 1$ Integrin Initiates Neurite Outgrowth. <i>Journal of Neuroscience</i> , 2007, 27, 7447-7458.               | 1.7 | 100       |
| 47 | In Vivo Identification and Manipulation of the Ca <sup>2+</sup> Selectivity Filter in the Drosophila Transient Receptor Potential Channel. <i>Journal of Neuroscience</i> , 2007, 27, 604-615.                                      | 1.7 | 52        |
| 48 | Voltage-gated K <sup>+</sup> (KV) channels expressed in canine coronary artery. <i>Journal of Molecular and Cellular Cardiology</i> , 2007, 42, S16.  | 0.9 | 0         |
| 49 | New insights into the function and regulation of vitamin D target proteins. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2007, 103, 405-410.  | 1.2 | 31        |
| 50 | Calbindin-D28k decreases L-type calcium channel activity and modulates intracellular calcium homeostasis in response to K <sup>+</sup> depolarization in a rat beta cell line RINr1046-38. <i>Cell Calcium</i> , 2006, 39, 475-485. | 1.1 | 45        |
| 51 | A Cytosolic Residue Mediates Mg <sup>2+</sup> Block and Regulates Inward Current Amplitude of a Transient Receptor Potential Channel. <i>Journal of Neuroscience</i> , 2005, 25, 1234-1239.   | 1.7 | 69        |
| 52 | Protein kinase C $\delta$ modulates depolarization-evoked changes of intracellular Ca <sup>2+</sup> concentration in a rat pheochromocytoma cell line. <i>Neuroscience</i> , 2005, 133, 393-403.                                    | 1.1 | 9         |
| 53 | TRPC5 activation kinetics are modulated by the scaffolding protein ezrin/radixin/moesin-binding phosphoprotein-50 (EBP50). <i>Journal of Cellular Physiology</i> , 2004, 201, 227-235.  | 2.0 | 77        |
| 54 | TRPC4 Can Be Activated by G-protein-coupled Receptors and Provides Sufficient Ca <sup>2+</sup> to Trigger Exocytosis in Neuroendocrine Cells. <i>Journal of Biological Chemistry</i> , 2002, 277, 16172-16178.                      | 1.6 | 68        |

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|----|--|------|-----------|
| 55 | Receptor-mediated Regulation of the Nonselective Cation Channels TRPC4 and TRPC5. <i>Journal of Biological Chemistry</i> , 2000, 275, 17517-17526.                                     | 1.6  | 372       |
| 56 | Direct activation of human TRPC6 and TRPC3 channels by diacylglycerol. <i>Nature</i> , 1999, 397, 259-263.   | 13.7 | 1,375     |
| 57 | Regulation of heterologously expressed transient receptor potential-like channels by calcium ions. <i>Neuroscience</i> , 1998, 85, 487-495.  | 1.1  | 31        |
| 58 | Expression of TRPC3 in Chinese Hamster Ovary Cells Results in Calcium-activated Cation Currents Not Related to Store Depletion. <i>Journal of Cell Biology</i> , 1997, 138, 1333-1341. | 2.3  | 249       |
| 59 | Cloning and Functional Expression of a Human Ca <sup>2+</sup> -Permeable Cation Channel Activated by Calcium Store Depletion. <i>Neuron</i> , 1996, 16, 1189-1196.                     | 3.8  | 382       |
| 60 | The Drosophila cation channel trp expressed in insect Sf9 cells is stimulated by agonists of G-protein-coupled receptors. <i>FEBS Letters</i> , 1995, 358, 297-300.                    | 1.3  | 80        |
| 61 | NMDA receptor agonists selectively block N-type calcium channels in hippocampal neurons. <i>Nature</i> , 1991, 349, 418-420.   | 13.7 | 65        |
| 62 | Effect of adenosine-5'-O-( $\gamma$ -dichloromethane) triphosphate on ATP receptors in rat sensory neurons. <i>Bulletin of Experimental Biology and Medicine</i> , 1988, 106, 947-948. | 0.3  | 0         |
| 63 | Bis(adenosyl-5'- $\gamma$ )tetrphosphate as a partial agonist of ATP receptors in rat sensory neurons. <i>Neurophysiology</i> , 1988, 20, 305-308.                                     | 0.2  | 1         |
| 64 | Receptors for ATP in rat sensory neurones: the structure-function relationship for ligands. <i>British Journal of Pharmacology</i> , 1988, 95, 1057-1062.                              | 2.7  | 85        |
| 65 | Cationic channels activated by extracellular atp in rat sensory neurons. <i>Neuroscience</i> , 1988, 27, 995-1000.   | 1.1  | 160       |