# Igor Adameyko

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/225087/publications.pdf

Version: 2024-02-01

| | | | |
|---|---|---|---|
| 85 papers | 7,183 citations | 126708 33 h-index | 76769 74 g-index |
| 101 all docs | 101 docs citations | 101 times ranked | 11683 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | RNA velocity of single cells. Nature, 2018, 560, 494-498. | 13.7 | 2,602 |
| 2 | Schwann Cell Precursors from Nerve Innervation Are a Cellular Origin of Melanocytes in Skin. Cell, 2009, 139, 366-379. | 13.5 | 477 |
| 3 | Glial origin of mesenchymal stem cells in a tooth model system. Nature, 2014, 513, 551-554. | 13.7 | 347 |
| 4 | Spatiotemporal structure of cell fate decisions in murine neural crest. Science, 2019, 364, . | 6.0 | 345 |
| 5 | Multipotent peripheral glial cells generate neuroendocrine cells of the adrenal medulla. Science, 2017, 357, . | 6.0 | 251 |
| 6 | Specialized cutaneous Schwann cells initiate pain sensation. Science, 2019, 365, 695-699. | 6.0 | 231 |
| 7 | Parasympathetic neurons originate from nerve-associated peripheral glial progenitors. Science, 2014, 345, 82-87. | 6.0 | 181 |
| 8 | Sox2 and Mitf cross-regulatory interactions consolidate progenitor and melanocyte lineages in the cranial neural crest. Development (Cambridge), 2012, 139, 397-410. | 1.2 | 154 |
| 9 | A radical switch in clonality reveals a stem cell niche in the epiphyseal growth plate. Nature, 2019, 567, 234-238. | 13.7 | 153 |
| 10 | Ribosome biogenesis during cell cycle arrest fuels EMT in development and disease. Nature Communications, 2019, 10, 2110. | 5.8 | 139 |
| 11 | Dental cell type atlas reveals stem and differentiated cell types in mouse and human teeth. Nature Communications, 2020, 11, 4816. | 5.8 | 126 |
| 12 | Schwann cell precursor: a neural crest cell in disguise?. Developmental Biology, 2018, 444, S25-S35. | 0.9 | 112 |
| 13 | Molecular design of hypothalamus development. Nature, 2020, 582, 246-252. | 13.7 | 105 |
| 14 | Superficial cells are selfâ€renewing chondrocyte progenitors, which form the articular cartilage in juvenile mice. FASEB Journal, 2017, 31, 1067-1084. | 0.2 | 92 |
| 15 | Single-cell transcriptomics of human embryos identifies multiple sympathoblast lineages with potential implications for neuroblastoma origin. Nature Genetics, 2021, 53, 694-706. | 9.4 | 90 |
| 16 | Chemical synapses without synaptic vesicles: Purinergic neurotransmission through a CALHM1 channel-mitochondrial signaling complex. Science Signaling, 2018, 11, . | 1.6 | 69 |
| 17 | Analysis of neural crestâ€“derived clones reveals novel aspects of facial development. Science Advances, 2016, 2, e1600060. | 4.7 | 68 |
| 18 | Schwann Cell Precursors Generate the Majority of Chromaffin Cells in Zuckerkandl Organ and Some Sympathetic Neurons in Paraganglia. Frontiers in Molecular Neuroscience, 2019, 12, 6. | 1.4 | 65 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Retrograde Signaling onto Ret during Motor Nerve Terminal Maturation. Journal of Neuroscience, 2008, 28, 963-975. | 1.7 | 59 |
| 20 | Specification, plasticity and evolutionary origin of peripheral glial cells. Current Opinion in Neurobiology, 2017, 47, 196-202. | 2.0 | 57 |
| 21 | Glial versus melanocyte cell fate choice: Schwann cell precursors as a cellular origin of melanocytes. Cellular and Molecular Life Sciences, 2010, 67, 3037-3055. | 2.4 | 56 |
| 22 | <scp>MYC</scp> proteins promote neuronal differentiation by controlling the mode of progenitor cell division. EMBO Reports, 2014, 15, 383-391. | 2.0 | 53 |
| 23 | Schwann cell precursors contribute to skeletal formation during embryonic development in mice and zebrafish. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 15068-15073. | 3.3 | 51 |
| 24 | Non-canonical functions of the peripheral nerve. Experimental Cell Research, 2014, 321, 17-24. | 1.2 | 48 |
| 25 | Mutations in the Endothelin Receptor Type A Cause Mandibulofacial Dysostosis with Alopecia. American Journal of Human Genetics, 2015, 96, 519-531. | 2.6 | 47 |
| 26 | Prototypical pacemaker neurons interact with the resident microbiota. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 17854-17863. | 3.3 | 47 |
| 27 | Oriented clonal cell dynamics enables accurate growth and shaping of vertebrate cartilage. ELife, 2017, 6, . | 2.8 | 46 |
| 28 | Limited access to antigen drives generation of early B cell memory while restraining the plasmablast response. Immunity, 2021, 54, 2005-2023.e10. | 6.6 | 46 |
| 29 | The transcription factor Hmx1 and growth factor receptor activities control sympathetic neurons diversification. EMBO Journal, 2013, 32, 1613-1625. | 3.5 | 45 |
| 30 | Single cell RNA sequencing identifies early diversity of sensory neurons forming via bi-potential intermediates. Nature Communications, 2020, 11, 4175. | 5.8 | 45 |
| 31 | Stem cell contributions to cementoblast differentiation in healthy periodontal ligament and periodontitis. Stem Cells, 2021, 39, 92-102. | 1.4 | 45 |
| 32 | Nerve-associated neural crest: peripheral glial cells generate multiple fates in the body. Current Opinion in Genetics and Development, 2017, 45, 10-14. | 1.5 | 42 |
| 33 | PRDM12 Is Required for Initiation of the Nociceptive Neuron Lineage during Neurogenesis. Cell Reports, 2019, 26, 3484-3492.e4. | 2.9 | 40 |
| 34 | The Nervous System Orchestrates and Integrates Craniofacial Development: A Review. Frontiers in Physiology, 2016, 7, 49. | 1.3 | 39 |
| 35 | Single-nuclei transcriptomes from human adrenal gland reveal distinct cellular identities of low and high-risk neuroblastoma tumors. Nature Communications, 2021, 12, 5309. | 5.8 | 38 |
| 36 | Positional differences of axon growth rates between sensory neurons encoded by runx3. EMBO Journal, 2012, 31, 3718-3729. | 3.5 | 37 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Serotonin Mediates Maternal Effects and Directs Developmental and Behavioral Changes in the Progeny of Snails. Cell Reports, 2015, 12, 1144-1158. | 2.9 | 34 |
| 38 | Three-dimensional Imaging Reveals New Compartments and Structural Adaptations in Odontoblasts. Journal of Dental Research, 2015, 94, 945-954. | 2.5 | 32 |
| 39 | Heterogeneity and Developmental Connections between Cell Types Inhabiting Teeth. Frontiers in Physiology, 2017, 8, 376. | 1.3 | 31 |
| 40 | Single-cell RNA-sequencing analysis of the developing mouse inner ear identifies molecular logic of auditory neuron diversification. Nature Communications, 2022, 13, . | 5.8 | 30 |
| 41 | Secondary ossification center induces and protects growth plate structure. ELife, 2020, 9, . | 2.8 | 29 |
| 42 | Signals from the brain and olfactory epithelium control shaping of the mammalian nasal capsule cartilage. ELife, 2018, 7, . | 2.8 | 28 |
| 43 | Error-prone bypass of DNA lesions during lagging-strand replication is a common source of germline and cancer mutations. Nature Genetics, 2019, 51, 36-41. | 9.4 | 28 |
| 44 | Schwann cell precursors represent a neural crestâ€like state with biased multipotency. EMBO Journal, 2022, 41, . | 3.5 | 28 |
| 45 | Use of micro computed-tomography and 3D printing for reverse engineering of mouse embryo nasal capsule. Journal of Instrumentation, 2016, 11, C03006-C03006. | 0.5 | 26 |
| 46 | Progenitors of the protochordate ocellus as an evolutionary origin of the neural crest. EvoDevo, 2013, 4, 12. | 1.3 | 24 |
| 47 | Striking parallels between carotid body glomus cell and adrenal chromaffin cell development. Developmental Biology, 2018, 444, S308-S324. | 0.9 | 22 |
| 48 | Evolution and development of the cartilaginous skull: From a lancelet towards a human face. Seminars in Cell and Developmental Biology, 2019, 91, 2-12. | 2.3 | 22 |
| 49 | Murine neural crest stem cells and embryonic stem cell-derived neuron precursors survive and differentiate after transplantation in a model of dorsal root avulsion. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 129-137. | 1.3 | 20 |
| 50 | Theory of branching morphogenesis by local interactions and global guidance. Nature Communications, 2021, 12, 6830. | 5.8 | 20 |
| 51 | Molecular differences between stromal cell populations from deciduous and permanent human teeth. Stem Cell Research and Therapy, 2015, 6, 59. | 2.4 | 19 |
| 52 | Stem cells, evolutionary aspects and pathology of the adrenal medulla: A new developmental paradigm. Molecular and Cellular Endocrinology, 2020, 518, 110998. | 1.6 | 19 |
| 53 | Transglutaminase Activity Determines Nuclear Localization of Serotonin Immunoreactivity in the Early Embryos of Invertebrates and Vertebrates. ACS Chemical Neuroscience, 2019, 10, 3888-3899. | 1.7 | 18 |
| 54 | Mesenchymal-Type Neuroblastoma Cells Escape ALK Inhibitors. Cancer Research, 2022, 82, 484-496. | 0.4 | 18 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Generation and characterization of DSPPâ€Cerulean/DMP1â€Cherry reporter mice. Genesis, 2019, 57, e23324. | 0.8 | 17 |
| 56 | Bhlhe40 function in activated B and TFH cells restrains the GC reaction and prevents lymphomagenesis. Journal of Experimental Medicine, 2022, 219, . | 4.2 | 17 |
| 57 | An interactive and intuitive visualisation method for X-ray computed tomography data of biological samples in 3D Portable Document Format. Scientific Reports, 2019, 9, 14896. | 1.6 | 13 |
| 58 | Nerve-associated Schwann cell precursors contribute extracutaneous melanocytes to the heart, inner ear, supraorbital locations and brain meninges. Cellular and Molecular Life Sciences, 2021, 78, 6033-6049. | 2.4 | 13 |
| 59 | Neural circuitry gets rewired. Science, 2016, 354, 833-834. | 6.0 | 12 |
| 60 | High-contrast differentiation resolution 3D imaging of rodent brain by X-ray computed microtomography. Journal of Instrumentation, 2018, 13, C02039-C02039. | 0.5 | 12 |
| 61 | Ablation of CNTN2+ Pyramidal Neurons During Development Results in Defects in Neocortical Size and Axonal Tract Formation. Frontiers in Cellular Neuroscience, 2019, 13, 454. | 1.8 | 12 |
| 62 | Neuronal lineages derived from the nerve-associated Schwann cell precursors. Cellular and Molecular Life Sciences, 2021, 78, 513-529. | 2.4 | 12 |
| 63 | Neural network learning defines glioblastoma features to be of neural crest perivascular or radial glia lineages. Science Advances, 2022, 8, . | 4.7 | 11 |
| 64 | A cell fitness selection model for neuronal survival during development. Nature Communications, 2019, 10, 4137. | 5.8 | 10 |
| 65 | Surface flow for colonial integration in reef-building corals. Current Biology, 2022, 32, 2596-2609.e7. | 1.8 | 10 |
| 66 | The transcriptional portraits of the neural crest at the individual cell level. Seminars in Cell and Developmental Biology, 2023, 138, 68-80. | 2.3 | 9 |
| 67 | Serotonin limits generation of chromaffin cells during adrenal organ development. Nature Communications, 2022, 13, . | 5.8 | 8 |
| 68 | A paradigm shift in neurobiology: peripheral nerves deliver cellular material and control development. Zoology, 2014, 117, 293-294. | 0.6 | 7 |
| 69 | A quantitative analysis of 3D-cell distribution in regenerative muscle-skeletal system with synchrotron X-ray computed microtomography. Scientific Reports, 2018, 8, 14145. | 1.6 | 7 |
| 70 | Nerves Do It Again: Donation of Mesenchymal Cells for Tissue Regeneration. Cell Stem Cell, 2019, 24, 195-197. | 5.2 | 7 |
| 71 | Contribution of neural crest and GLAST<sup>+</sup> Wnt1<sup>+</sup> bone marrow pericytes with liver fibrogenesis and/or regeneration. Liver International, 2020, 40, 977-987. | 1.9 | 7 |
| 72 | Epiphyseal Cartilage Formation Involves Differential Dynamics of Various Cellular Populations During Embryogenesis. Frontiers in Cell and Developmental Biology, 2020, 8, 122. | 1.8 | 7 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Evolutionary switch in expression of key markers between mouse and human leads to mis-assignment of cell types in developing adrenal medulla. Cancer Cell, 2021, 39, 590-591. | 7.7 | 7 |
| 74 | Recent advances in our understanding of central and peripheral nervous system progenitors. Current Opinion in Cell Biology, 2019, 61, 24-30. | 2.6 | 6 |
| 75 | X-ray microtomographyâ€“based atlas of mouse cranial development. GigaScience, 2021, 10, . | 3.3 | 6 |
| 76 | Schwann cell precursors generate sympathoadrenal system during zebrafish development. Journal of Neuroscience Research, 2021, 99, 2540-2557. | 1.3 | 6 |
| 77 | Cruciate ligament, patellar tendon, and patella formation involves differential cellular sources and dynamics as joint cavitation proceeds. Developmental Dynamics, 2020, 249, 711-722. | 0.8 | 4 |
| 78 | Nerves transport stem-like cells generating parasympathetic neurons. Cell Cycle, 2014, 13, 2805-2806. | 1.3 | 2 |
| 79 | Spotlight on the Schwann cells during the regeneration. Stem Cell Investigation, 2016, 3, 74-74. | 1.3 | 2 |
| 80 | Rapid Isolation of Single Cells from Mouse and Human Teeth. Journal of Visualized Experiments, 2021, , . | 0.2 | 2 |
| 81 | Living in darkness: Exploring adaptation of Proteus anguinus in 3 dimensions by X-ray imaging. GigaScience, 2022, 11, . | 3.3 | 2 |
| 82 | Supracellular contractions propel migration. Science, 2018, 362, 290-291. | 6.0 | 1 |
| 83 | Resolving complex cartilage structures in developmental biology via deep learning-based automatic segmentation of X-ray computed microtomography images. Scientific Reports, 2022, 12, . | 1.6 | 1 |
| 84 | BET and CDK Inhibition Reveal Differences in the Proliferation Control of Sympathetic Ganglion Neuroblasts and Adrenal Chromaffin Cells. Cancers, 2022, 14, 2755. | 1.7 | 1 |
| 85 | Singleâ€Cell Level Identification Of Cephalic Epithelial Transcriptomic Signatures To Elucidate The Pathogenesis Of Cleft Lip/Palate. FASEB Journal, 2021, 35, . | 0.2 | 0 |