# Mikael Simons

List of Publications by Year
in descending order



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|---|---|---|---|
| 52 papers | 7,481 citations | 109137 35 h-index | 189595 50 g-index |
| 58 all docs | 58 docs citations | 58 times ranked | 13539 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A fluorescence microscopy-based protocol for volumetric measurement of lysolecithin lesion-associated de- and re-myelination in mouse brain. STAR Protocols, 2022, 3, 101141. | 0.5 | 1 |
| 2 | Reparative inflammation in multiple sclerosis. Seminars in Immunology, 2022, 59, 101630. | 2.7 | 2 |
| 3 | Microglia facilitate repair of demyelinated lesions via post-squalene sterol synthesis. Nature Neuroscience, 2021, 24, 47-60. | 7.1 | 134 |
| 4 | Diet-dependent regulation of TGFÎ² impairs reparative innate immune responses after demyelination. Nature Metabolism, 2021, 3, 211-227. | 5.1 | 41 |
| 5 | Loss of NPC1 enhances phagocytic uptake and impairs lipid trafficking in microglia. Nature Communications, 2021, 12, 1158. | 5.8 | 58 |
| 6 | White matter aging drives microglial diversity. Neuron, 2021, 109, 1100-1117.e10. | 3.8 | 208 |
| 7 | Dissociation of microdissected mouse brain tissue for artifact free single-cell RNA sequencing. STAR Protocols, 2021, 2, 100590. | 0.5 | 14 |
| 8 | TREM2-dependent lipid droplet biogenesis in phagocytes is required for remyelination. Journal of Experimental Medicine, 2021, 218, . | 4.2 | 68 |
| 9 | Proteomic and lipidomic profiling of demyelinating lesions identifies fatty acids as modulators of lesion recovery. Cell Reports, 2021, 37, 109898. | 2.9 | 11 |
| 10 | Associations between sex, body mass index, and the individual microglial response in Alzheimerâ€™s disease. Alzheimer's and Dementia, 2021, 17, . | 0.4 | 0 |
| 11 | Neuropilin-1 facilitates SARS-CoV-2 cell entry and infectivity. Science, 2020, 370, 856-860. | 6.0 | 1,441 |
| 12 | Plasma lipidomics of monozygotic twins discordant for multiple sclerosis. Annals of Clinical and Translational Neurology, 2020, 7, 2461-2466. | 1.7 | 11 |
| 13 | Multiscale ATUM-FIB Microscopy Enables Targeted Ultrastructural Analysis at Isotropic Resolution. IScience, 2020, 23, 101290. | 1.9 | 13 |
| 14 | Pro-inflammatory activation following demyelination is required for myelin clearance and oligodendrogenesis. Journal of Experimental Medicine, 2020, 217, . | 4.2 | 87 |
| 15 | Cell-Type- and Brain-Region-Resolved Mouse Brain Lipidome. Cell Reports, 2020, 32, 108132. | 2.9 | 147 |
| 16 | In vivo identification of apoptotic and extracellular vesicleâ€bound live cells using imageâ€based deep learning. Journal of Extracellular Vesicles, 2020, 9, 1792683. | 5.5 | 18 |
| 17 | Oligodendrocytes Provide Antioxidant Defense Function for Neurons by Secreting Ferritin Heavy Chain. Cell Metabolism, 2020, 32, 259-272.e10. | 7.2 | 98 |
| 18 | Enhancing protective microglial activities with a dual function <scp>TREM</scp> 2 antibody to the stalk region. EMBO Molecular Medicine, 2020, 12, e11227. | 3.3 | 155 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Two adhesive systems cooperatively regulate axon ensheathment and myelin growth in the CNS. Nature Communications, 2019, 10, 4794. | 5.8 | 45 |
| 20 | Polygenic burden associated to oligodendrocyte precursor cells and radial glia influences the hippocampal volume changes induced by aerobic exercise in schizophrenia patients. Translational Psychiatry, 2019, 9, 284. | 2.4 | 14 |
| 21 | Myelin in the Central Nervous System: Structure, Function, and Pathology. Physiological Reviews, 2019, 99, 1381-1431. | 13.1 | 336 |
| 22 | Grey matter myelination. Glia, 2019, 67, 2063-2070. | 2.5 | 54 |
| 23 | Oligodendrocytes as A New Therapeutic Target in Schizophrenia: From Histopathological Findings to Neuron-Oligodendrocyte Interaction. Cells, 2019, 8, 1496. | 1.8 | 49 |
| 24 | Phase Separation of FUS Is Suppressed by Its Nuclear Import Receptor and Arginine Methylation. Cell, 2018, 173, 706-719.e13. | 13.5 | 484 |
| 25 | Defective cholesterol clearance limits remyelination in the aged central nervous system. Science, 2018, 359, 684-688. | 6.0 | 349 |
| 26 | Disease Modification in Multiple Sclerosis by Flupirtineâ€"Results of a Randomized Placebo Controlled Phase II Trial. Frontiers in Neurology, 2018, 9, 842. | 1.1 | 6 |
| 27 | Expression of the DNA-Binding Factor TOX Promotes the Encephalitogenic Potential of Microbe-Induced Autoreactive CD8+ T Cells. Immunity, 2018, 48, 937-950.e8. | 6.6 | 60 |
| 28 | Mononuclear phagocytes locally specify and adapt their phenotype in a multiple sclerosis model. Nature Neuroscience, 2018, 21, 1196-1208. | 7.1 | 132 |
| 29 | Antagonistic Functions of MBP and CNP Establish Cytosolic Channels in CNS Myelin. Cell Reports, 2017, 18, 314-323. | 2.9 | 145 |
| 30 | The logistics of myelin biogenesis in the central nervous system. Glia, 2017, 65, 1021-1031. | 2.5 | 69 |
| 31 | Diversity of oligodendrocytes and their progenitors. Current Opinion in Neurobiology, 2017, 47, 73-79. | 2.0 | 55 |
| 32 | BCAS1 expression defines a population of early myelinating oligodendrocytes in multiple sclerosis lesions. Science Translational Medicine, 2017, 9, . | 5.8 | 138 |
| 33 | Prox1 Is Required for Oligodendrocyte Cell Identity in Adult Neural Stem Cells of the Subventricular Zone. Stem Cells, 2016, 34, 2115-2129. | 1.4 | 21 |
| 34 | Loss of Myelin Basic Protein Function Triggers Myelin Breakdown in Models of Demyelinating Diseases. Cell Reports, 2016, 16, 314-322. | 2.9 | 93 |
| 35 | Catching filopodia: Exosomes surf on fast highways to enter cells. Journal of Cell Biology, 2016, 213, 143-145. | 2.3 | 9 |
| 36 | Editorial overview: Cellular neuroscience. Current Opinion in Neurobiology, 2016, 39, v-vii. | 2.0 | 0 |

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|---|---|---|---|
| 37 | Reorganization of Lipid Diffusion by Myelin Basic Protein as Revealed by STED Nanoscopy. Biophysical Journal, 2016, 110, 2441-2450. | 0.2 | 23 |
| 38 | Age-related myelin degradation burdens the clearance function of microglia during aging. Nature Neuroscience, 2016, 19, 995-998. | 7.1 | 399 |
| 39 | The leukodystrophy protein FAM126A (hyccin) regulates PtdIns(4)P synthesis at the plasmaÂmembrane. Nature Cell Biology, 2016, 18, 132-138. | 4.6 | 91 |
| 40 | Oligodendrocytes: Myelination and Axonal Support. Cold Spring Harbor Perspectives in Biology, 2016, 8, a020479. | 2.3 | 515 |
| 41 | Myelinophagy: Schwann cells dine in. Journal of Cell Biology, 2015, 210, 9-10. | 2.3 | 14 |
| 42 | Metabolism and functions of lipids in myelin. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2015, 1851, 999-1005. | 1.2 | 191 |
| 43 | The emerging functions of oligodendrocytes in regulating neuronal network behaviour. BioEssays, 2015, 37, 60-69. | 1.2 | 54 |
| 44 | Actin Filament Turnover Drives Leading Edge Growth during Myelin Sheath Formation in the Central Nervous System. Developmental Cell, 2015, 34, 139-151. | 3.1 | 183 |
| 45 | Cell typeâ€“ and brain regionâ€“resolved mouse brain proteome. Nature Neuroscience, 2015, 18, 1819-1831. | 7.1 | 672 |
| 46 | Dynamics of the Peripheral Membrane Protein P2 from Human Myelin Measured by Neutron Scatteringâ€”A Comparison between Wild-Type Protein and a Hinge Mutant. PLoS ONE, 2015, 10, e0128954. | 1.1 | 17 |
| 47 | Atomic resolution view into the structureâ€“function relationships of the human myelin peripheral membrane protein P2. Acta Crystallographica Section D: Biological Crystallography, 2014, 70, 165-176. | 2.5 | 41 |
| 48 | Myelin Membrane Wrapping of CNS Axons by PI(3,4,5)P3-Dependent Polarized Growth at the Inner Tongue. Cell, 2014, 156, 277-290. | 13.5 | 326 |
| 49 | A unified cell biological perspective on axonâ€“myelin injury. Journal of Cell Biology, 2014, 206, 335-345. | 2.3 | 73 |
| 50 | Myelination at a glance. Journal of Cell Science, 2014, 127, 2999-3004. | 1.2 | 129 |
| 51 | A Paired RNAi and RabGAP Overexpression Screen Identifies Rab11 as a Regulator of Î²-Amyloid Production. Cell Reports, 2013, 5, 1536-1551. | 2.9 | 120 |
| 52 | A Global In Vivo Drosophila RNAi Screen Identifies a Key Role of Ceramide Phosphoethanolamine for Glial Ensheathment of Axons. PLoS Genetics, 2013, 9, e1003980. | 1.5 | 44 |