# Jakob Balslev SÃ¸rensen

## List of Publications by Year
## in descending order

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77

papers

5,503

citations

101496

36

h-index

85498

71

g-index

87

all docs

87

docs citations

87

times ranked

4184

citing authors

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Synaptotagmin-7 places dense-core vesicles at the cell membrane to promote Munc13-2- and Ca2+-dependent priming. ELife, 2021, 10, . | 2.8 | 22 |
| 2 | Measurements of Exocytosis by Capacitance and Calcium Uncaging in Mouse Adrenal Chromaffin Cells. Methods in Molecular Biology, 2021, 2233, 233-251. | 0.4 | 6 |
| 3 | Introducing the special issue on â€œProteins and Circuits in Memoryâ€ European Journal of Neuroscience, 2021, 54, 6691-6695. | 1.2 | 0 |
| 4 | SNAP-25 phosphorylation at Ser187 is not involved in Ca2+ or phorbolester-dependent potentiation of synaptic release. Molecular and Cellular Neurosciences, 2020, 102, 103452. | 1.0 | 3 |
| 5 | The soluble neurexin-1Î² ectodomain causes calcium influx and augments dendritic outgrowth and synaptic transmission. Scientific Reports, 2020, 10, 18041. | 1.6 | 7 |
| 6 | SNAREopathies: Diversity in Mechanisms and Symptoms. Neuron, 2020, 107, 22-37. | 3.8 | 77 |
| 7 | Endophilin-A coordinates priming and fusion of neurosecretory vesicles via intersectin. Nature Communications, 2020, 11, 1266. | 5.8 | 26 |
| 8 | Rapid regulation of vesicle priming explains synaptic facilitation despite heterogeneous vesicle:Ca2+ channel distances. ELife, 2020, 9, . | 2.8 | 33 |
| 9 | MUNC18-1 regulates the submembrane F-actin network, independently of syntaxin1 targeting, via hydrophobicity in Î²-sheet 10. Journal of Cell Science, 2019, 132, . | 1.2 | 7 |
| 10 | An Electrostatic Energy Barrier for SNARE-Dependent Spontaneous and Evoked Synaptic Transmission. Cell Reports, 2019, 26, 2340-2352.e5. | 2.9 | 24 |
| 11 | The SNAP-25 Protein Family. Neuroscience, 2019, 420, 50-71. | 1.1 | 57 |
| 12 | Ride the wave: Retrograde trafficking becomes Ca2+ dependent with BAIAP3. Journal of Cell Biology, 2017, 216, 1887-1889. | 2.3 | 4 |
| 13 | The calcium sensor synaptotagmin 1 is expressed and regulated in hippocampal postsynaptic spines. Hippocampus, 2017, 27, 1168-1177. | 0.9 | 17 |
| 14 | Comment on â€œPenetration of Action Potentials During Collision in the Median and Lateral Giant Axons of Invertebratesâ€ Physical Review X, 2017, 7, . | 2.8 | 7 |
| 15 | Cover Image, Volume 27, Issue 11. Hippocampus, 2017, 27, C1. | 0.9 | 0 |
| 16 | Doc2B acts as a calcium sensor for vesicle priming requiring synaptotagmin-1, Munc13-2 and SNAREs. ELife, 2017, 6, . | 2.8 | 26 |
| 17 | Phosphatidylinositol 4,5-bisphosphate optical uncaging potentiates exocytosis. ELife, 2017, 6, . | 2.8 | 39 |
| 18 | Phosphorylation of synaptotagmin-1 controls a post-priming step in PKC-dependent presynaptic plasticity. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5095-5100. | 3.3 | 48 |

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|---|---|---|---|
| 19 | Regulation of Ca<sup>2+</sup> channels by SNAP-25 via recruitment of syntaxin-1 from plasma membrane clusters. Molecular Biology of the Cell, 2016, 27, 3329-3341. | 0.9 | 21 |
| 20 | Interactions Between SNAP-25 and Synaptotagmin-1 Are Involved in Vesicle Priming, Clamping Spontaneous and Stimulating Evoked Neurotransmission. Journal of Neuroscience, 2016, 36, 11865-11880. | 1.7 | 43 |
| 21 | C2â€domain containing calcium sensors in neuroendocrine secretion. Journal of Neurochemistry, 2016, 139, 943-958. | 2.1 | 52 |
| 22 | Extension of Helix 12 in Munc18-1 Induces Vesicle Priming. Journal of Neuroscience, 2016, 36, 6881-6891. | 1.7 | 47 |
| 23 | Spatial distribution and temporal evolution of DRONPA-fused SNAP25 clusters in adrenal chromaffin cells. Photochemical and Photobiological Sciences, 2015, 14, 1005-1012. | 1.6 | 5 |
| 24 | Probing the Interaction Between Synaptotagmin-1 and SNARES using Mutations in SNAP-25. Biophysical Journal, 2015, 108, 102a. | 0.2 | 0 |
| 25 | A Post-Docking Role of Synaptotagmin 1-C2B Domain Bottom Residues R398/399 in Mouse Chromaffin Cells. Journal of Neuroscience, 2015, 35, 14172-14182. | 1.7 | 24 |
| 26 | Fusion Machinery: SNARE Protein Complex. , 2015, , 87-127. |  | 2 |
| 27 | Additive effects on the energy barrier for synaptic vesicle fusion cause supralinear effects on the vesicle fusion rate. ELife, 2015, 4, e05531. | 2.8 | 50 |
| 28 | Identification of a Munc13-sensitive step in chromaffin cell large dense-core vesicle exocytosis. ELife, 2015, 4, . | 2.8 | 47 |
| 29 | The BAR Domain Protein PICK1 Controls Vesicle Number and Size in Adrenal Chromaffin Cells. Journal of Neuroscience, 2014, 34, 10688-10700. | 1.7 | 32 |
| 30 | Innervation by a GABAergic Neuron Depresses Spontaneous Release in Glutamatergic Neurons and Unveils the Clamping Phenotype of Synaptotagmin-1. Journal of Neuroscience, 2014, 34, 2100-2110. | 1.7 | 37 |
| 31 | The <scp>SNARE</scp> protein vti1a functions in denseâ€core vesicle biogenesis. EMBO Journal, 2014, 33, 1681-1697. | 3.5 | 34 |
| 32 | Synaptotagmin-7 Is an Asynchronous Calcium Sensor for Synaptic Transmission in Neurons Expressing SNAP-23. PLoS ONE, 2014, 9, e114033. | 1.1 | 51 |
| 33 | Synaptotagmin Interaction with SNAP-25 Governs Vesicle Docking, Priming, and Fusion Triggering. Journal of Neuroscience, 2013, 33, 14417-14430. | 1.7 | 68 |
| 34 | A Sequential Vesicle Pool Model with a Single Release Sensor and a Ca2+-Dependent Priming Catalyst Effectively Explains Ca2+-Dependent Properties of Neurosecretion. PLoS Computational Biology, 2013, 9, e1003362. | 1.5 | 35 |
| 35 | Doc2b Synchronizes Secretion from Chromaffin Cells by Stimulating Fast and Inhibiting Sustained Release. Journal of Neuroscience, 2013, 33, 16459-16470. | 1.7 | 15 |
| 36 | SNARE Requirements En Route to Exocytosis: from Many to Few. Journal of Molecular Neuroscience, 2012, 48, 387-394. | 1.1 | 31 |

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| 37 | Multiple Ca2+ sensors in secretion: teammates, competitors or autocrats?. Trends in Neurosciences, 2011, 34, 487-497. | 4.2 | 64 |
| 38 | Rab3 Proteins Involved in Vesicle Biogenesis and Priming in Embryonic Mouse Chromaffin Cells. Traffic, 2010, 11, 1415-1428. | 1.3 | 28 |
| 39 | Opposing functions of two sub-domains of the SNARE-complex in neurotransmission. EMBO Journal, 2010, 29, 2477-2490. | 3.5 | 44 |
| 40 | A Coiled Coil Trigger Site Is Essential for Rapid Binding of Synaptobrevin to the SNARE Acceptor Complex. Journal of Biological Chemistry, 2010, 285, 21549-21559. | 1.6 | 25 |
| 41 | Role of the synaptobrevin C terminus in fusion pore formation. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 18463-18468. | 3.3 | 84 |
| 42 | Synaptobrevin N-terminally bound to syntaxinâ€“SNAP-25 defines the primed vesicle state in regulated exocytosis. Journal of Cell Biology, 2010, 188, 401-413. | 2.3 | 115 |
| 43 | Fast Vesicle Fusion in Living Cells Requires at Least Three SNARE Complexes. Science, 2010, 330, 502-505. | 6.0 | 278 |
| 44 | Synaptobrevin N-terminally bound to syntaxinâ€“SNAP-25 defines the primed vesicle state in regulated exocytosis. Journal of General Physiology, 2010, 135, i2-i2. | 0.9 | 0 |
| 45 | Conflicting Views on the Membrane Fusion Machinery and the Fusion Pore. Annual Review of Cell and Developmental Biology, 2009, 25, 513-537. | 4.0 | 97 |
| 46 | Synaptotagmin-1 Docks Secretory Vesicles to Syntaxin-1/SNAP-25 Acceptor Complexes. Cell, 2009, 138, 935-946. | 13.5 | 242 |
| 47 | Vesicle Docking in Regulated Exocytosis. Traffic, 2008, 9, 1414-1424. | 1.3 | 175 |
| 48 | Synaptotagmin-1 and -7 are functionally overlapping Ca <sup>2+</sup> sensors for exocytosis in adrenal chromaffin cells. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 3998-4003. | 3.3 | 167 |
| 49 | The role of the C terminus of the SNARE protein SNAP-25 in fusion pore opening and a model for fusion pore mechanics. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 15388-15392. | 3.3 | 101 |
| 50 | Genetic analysis of synaptotagmin-7 function in synaptic vesicle exocytosis. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 3986-3991. | 3.3 | 95 |
| 51 | The SNAP-25 Linker as an Adaptation Toward Fast Exocytosis. Molecular Biology of the Cell, 2008, 19, 3769-3781. | 0.9 | 32 |
| 52 | Complexin II plays a positive role in Ca <sup>2+</sup> -triggered exocytosis by facilitating vesicle priming. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 19538-19543. | 3.3 | 64 |
| 53 | Munc18-1: Sequential Interactions with the Fusion Machinery Stimulate Vesicle Docking and Priming. Journal of Neuroscience, 2007, 27, 8676-8686. | 1.7 | 110 |
| 54 | Differential Abilities of SNAP-25 Homologs to Support Neuronal Function. Journal of Neuroscience, 2007, 27, 9380-9391. | 1.7 | 121 |

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| 55 | CAPS-1 and CAPS-2 Are Essential Synaptic Vesicle Priming Proteins. Cell, 2007, 131, 796-808. | 13.5 | 176 |
| 56 | Munc18-1 phosphorylation by protein kinase C potentiates vesicle pool replenishment in bovine chromaffin cells. Neuroscience, 2006, 143, 487-500. | 1.1 | 57 |
| 57 | Sequential N- to C-terminal SNARE complex assembly drives priming and fusion of secretory vesicles. EMBO Journal, 2006, 25, 955-966. | 3.5 | 251 |
| 58 | Dissecting docking and tethering of secretory vesicles at the target membrane. EMBO Journal, 2006, 25, 3725-3737. | 3.5 | 156 |
| 59 | Different Effects on Fast Exocytosis Induced by Synaptotagmin 1 and 2 Isoforms and Abundance But Not by Phosphorylation. Journal of Neuroscience, 2006, 26, 632-643. | 1.7 | 108 |
| 60 | Munc18-Bound Syntaxin Readily Forms SNARE Complexes with Synaptobrevin in Native Plasma Membranes. PLoS Biology, 2006, 4, e330. | 2.6 | 113 |
| 61 | Plasmalemmal Phosphatidylinositol-4,5-Bisphosphate Level Regulates the Releasable Vesicle Pool Size in Chromaffin Cells. Journal of Neuroscience, 2005, 25, 2557-2565. | 1.7 | 208 |
| 62 | Alternative Splicing of SNAP-25 Regulates Secretion through Nonconservative Substitutions in the SNARE Domain. Molecular Biology of the Cell, 2005, 16, 5675-5685. | 0.9 | 61 |
| 63 | SNARE complexes prepare for membrane fusion. Trends in Neurosciences, 2005, 28, 453-455. | 4.2 | 88 |
| 64 | Formation, stabilisation and fusion of the readily releasable pool of secretory vesicles. Pflugers Archiv European Journal of Physiology, 2004, 448, 347-62. | 1.3 | 142 |
| 65 | Regulation of Releasable Vesicle Pool Sizes by Protein Kinase A-Dependent Phosphorylation of SNAP-25. Neuron, 2004, 41, 417-429. | 3.8 | 204 |
| 66 | Differential Control of the Releasable Vesicle Pools by SNAP-25 Splice Variants and SNAP-23. Cell, 2003, 114, 75-86. | 13.5 | 316 |
| 67 | Examining Synaptotagmin 1 Function in Dense Core Vesicle Exocytosis under Direct Control of Ca2+. Journal of General Physiology, 2003, 122, 265-276. | 0.9 | 100 |
| 68 | Differential Control of Adrenal and Sympathetic Catecholamine Release by Î±2-Adrenoceptor Subtypes. Molecular Endocrinology, 2003, 17, 1640-1646. | 3.7 | 147 |
| 69 | The SNARE protein SNAP-25 is linked to fast calcium triggering of exocytosis. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 1627-1632. | 3.3 | 156 |
| 70 | Protein Kinase C-Dependent Phosphorylation of Synaptosome-Associated Protein of 25 kDa at Ser<sup>187</sup>Potentiates Vesicle Recruitment. Journal of Neuroscience, 2002, 22, 9278-9286. | 1.7 | 167 |
| 71 | Analysis of the sodium recirculation theory of soluteâ€•coupled water transport in small intestine. Journal of Physiology, 2002, 542, 33-50. | 1.3 | 46 |
| 72 | Maxi K+ channels co-localised with CFTR in the apical membrane of an exocrine gland acinus: possible involvement in secretion. Pflugers Archiv European Journal of Physiology, 2001, 442, 1-11. | 1.3 | 33 |

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| 73 | Deletion of the S3â€“S4 Linker in theShaker Potassium Channel Reveals Two Quenching Groups near the outside of S4. Journal of General Physiology, 2000, 115, 209-222. | 0.9 | 35 |
| 74 | A Mathematical Model of Solute Coupled Water Transport in Toad Intestine Incorporating Recirculation of the Actively Transported Solute. Journal of General Physiology, 2000, 116, 101-124. | 0.9 | 34 |
| 75 | Patch Clamp on the Luminal Membrane of Exocrine Gland Acini from Frog Skin (Rana esculenta) Reveals the Presence of Cystic Fibrosis Transmembrane Conductance Regulatorâ€“like Clâˆ’ Channels Activated by Cyclic AMP. Journal of General Physiology, 1998, 112, 19-31. | 0.9 | 22 |
| 76 | Heterogeneity of chloride channels in the apical membrane of isolated mitochondria-rich cells from toad skin.. Journal of General Physiology, 1996, 108, 421-433. | 0.9 | 29 |
| 77 | A method of modelling time dependent data: swimming in guppies (Poecilia Reticulata) under threat of a predator. Behavioural Processes, 1994, 31, 75-96. | 0.5 | 1 |