

# Publications

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## Recent Publications

Binotti B, Pavlos NJ, Riedel D, Wenzel D, Vorbrüggen G, Schalk AM, Kühnel K, Boyken J, Erck C, Martens H, \*Chua JJ, \*Jahn R. (2015)

The GTPase Rab26 links synaptic vesicles to the autophagy pathway.

***Elife.*** 4:e0559

\*Co-corresponding authors

Chua JJ. (2014)

Macromolecular complexes at active zones: integrated nano-machineries for neurotransmitter release.

***Cell Mol Life Sci.*** 71: 3903-1

Behrens C, Binotti B, Schmidt C, Robinson CV, Chua JJ, Kühnel K. (2013)

Crystal structure of the human short coiled coil protein and insights into SCOC-FEZ1 complex formation.

***PLoS One.*** 8: e7635

Boyken J, Grønborg M, Riedel D, Urlaub H, Jahn R, Chua JJ. (2013)

Molecular profiling of synaptic vesicle docking sites reveals novel proteins but few differences between glutamatergic and GABAergic synapses.

***Neuron.*** 78: 285-29

Article selected by Faculty of 1000 (<http://f1000.com/prime/718002648>)

Chua JJ, Jahn R, Klopfenstein DR. (2013)

Managing Intracellular Transport.

***Worm.*** 2: e21564.

Chua JJ, Schob C, Rehbein M, Gkogkas CG, Richter D, Kindler S. (2012)

Synthesis of two distinct SAPAP3 isoforms from a single mRNA is mediated via an upstream open reading frame and alternative translational initiation.

***Sci. Rep.*** 2, 484; DOI:11038/ srep0048

Chua JJ, Butkevich E, Worseck JM, Kittelmann M, Grønborg M, Behrmann E, Stelzl U, Pavlos NJ, Lalowski M, Eimer S, Wanker EE, Klopfenstein D, Jahn R. (2012)

Phosphorylation-regulated axonal dependent transport of syntaxin 1 is mediated by a

Kinesin-1 adapter.

***Proc Natl Acad Sci U S A.*** 109: 5862- 586

Chua JJ, Kindler S, Boyken J, Jahn R. (2010)

The architecture of an excitatory synapse.

***J Cell Sci.*** 123: 819-92

Pavlos NJ, Grønborg M, Riedel D, Chua JJ, Boyken J, Kloepper TH, Urlaub H, Rizzoli, SO, Jahn R. (2010)

Quantitative analysis of synaptic vesicle Rabs uncovers distinct yet overlapping roles of Rab3a and Rab27b in Ca<sup>2+</sup>-triggered exocytosis.

***J Neurosci.*** 30: 13441-1345

Grønborg M, Pavlos NJ, Brunk I, Chua JJ, Münster-Wandowski A, Riedel D, Ahnert-Hilger G, Urlaub H, Jahn R. (2010)

Quantitative comparison of glutamatergic and GABAergic synaptic vesicles unveils selectivity for few proteins including MAL2, a novel synaptic vesicle protein.

***J Neurosci.*** 30: 2- 12.

Barszczewski M, Chua JJ, Stein A, Winter U, Heintzmann R, Zilly FE, Fasshauer D, Lang T, Jahn R. (2008)

A novel site of action for  $\alpha$ -SNAP in the SNARE conformational cycle controlling membrane fusion.

***Mol Biol Cell.*** 19: 776-784.