

## Publications

### Journal Articles

1. Bucurenciu, I., Bischofberger, J. & Jonas, P., 2010. A small number of open  $\text{Ca}^{2+}$  channels trigger transmitter release at a central GABAergic synapse. *Nature Neuroscience*, 13(1), 19-21
2. Guzman, S.J. & Jonas, P., 2010. Beyond TARPs: the growing list of auxiliary AMPAR subunits (Review). *Neuron*, 66(1), 8-10
3. Hu, H., Martina, M. & Jonas, P., 2010. Dendritic mechanisms underlying rapid synaptic activation of fast-spiking hippocampal interneurons. *Science*, 327(5961), 52-8
4. Jonas, P. & Hefft, S., 2010. GABA release at terminals of CCK-interneurons: synchrony, asynchrony and modulation by cannabinoid receptors (Review). *The European Journal of Neuroscience*, 31(7), 1194-5
5. Nörenberg, A., Hu, H., Vida, I., Bartos, M. & Jonas, P., 2010. Distinct nonuniform cable properties optimize rapid and efficient activation of fast-spiking GABAergic interneurons. *Proceedings of the National Academy of Sciences USA*, 107(2), 894-9
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7. Aponte, Y., Bischofberger, J. & Jonas, P., 2008. Efficient  $\text{Ca}^{2+}$  buffering in fast-spiking basket cells of rat hippocampus. *Journal of Physiology*, 586(8), 2061-75
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10. Schmidt-Hieber, C., Jonas, P. & Bischofberger, J., 2008. Action potential initiation and propagation in hippocampal mossy fibre axons. *Journal of Physiology*, 586(7), 1849-57
11. Bucurenciu, I., Kulik, A., Schwaller, B., Frotscher, M. & Jonas, P., 2008. Nanodomain coupling between  $\text{Ca}^{2+}$  channels and  $\text{Ca}^{2+}$  sensors promotes fast and efficient transmitter release at a cortical GABAergic synapse. *Neuron*, 57(4), 536-45
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14. Bartos, M., Vida, I. & Jonas, P., 2007. Synaptic mechanisms of synchronized gamma oscillations in inhibitory interneuron networks (Review). *Nature Reviews Neuroscience*, 8(1), 45-56
15. Jonas, P. & Buzsaki, G., 2007. Neural inhibition. *Scholarpedia*, 2, 3286
16. Li, L., Bischofberger, J. & Jonas, P., 2007. Differential gating and recruitment of P/Q-, N-, and R-type  $\text{Ca}^{2+}$  channels in hippocampal mossy fiber boutons. *Journal of Neuroscience*, 27(49), 13420-9

17. Schmidt-Hieber, C., Jonas, P. & Bischofberger, J., 2007. Subthreshold dendritic signal processing and coincidence detection in dentate gyrus granule cells. *Journal of Neuroscience*, 27(31), 8430-41
18. Aponte, Y., Lien, C., Reisinger, E. & Jonas, P., 2006. Hyperpolarization-activated cation channels in fast-spiking interneurons of rat hippocampus. *Journal of Physiology*, 574(Pt 1), 229-43
19. Frotscher, M., Jonas, P. & Sloviter, R.S., 2006. Synapses formed by normal and abnormal hippocampal mossy fibers. (Review) *Cell and Tissue Research*, 326(2), 361-7
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#### Book Chapters

75. Fakler, B. & Jonas, P., 2010. Grundlagen zellulärer Erregbarkeit. In: R. F. Schmidt, M. Heckmann, & F. Lang. *Physiologie des Menschen*.
76. Jonas, P. & Unsicker, K., 2003. Molekulare und zelluläre Grundlagen des Nervensystems. In: R. F. Schmidt. *Lehrbuch Vorklinische Medizin*.
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#### Other

84. Frotscher, M., Gundelfinger, E., Jonas, P., Neher, E. & Seeburg, P., 2006. The most important recent advances in synapse research from my point of view--and what remains to be done. In: *Cell and Tissue Research*, 326(2), 203-4.