

## Journal Club Schedule 2008

28.11.08	Natarajan R, Huys QJ, Dayan P, Zemel RS. Encoding and decoding spikes for dynamic stimuli. Neural Comput. 2008 Sep;20(9):2325-60 (Sarah)
21.11.08	Teramae & Fukai Local cortical circuit model inferred from power-law distributed neuronal avalanches J Comput Neurosci (2007) 22:301–312 (Samora)
14.11.08	Schummers et al. Tuned Responses of Astrocytes and Their Influence on Hemodynamic Signals in the Visual Cortex Science. 2008 Jun 20;320(5883):1638-43 (Steffen)
07.11.08	Chiappalone, Massobrio and Martinoia Network plasticity in cortical assemblies European Journal of Neuroscience, Vol. 28, 221-237, 2008 (Sebastian)
31.10.08	DeLaine D. Larsen, Ian R. Wickersham and Edward M. Callaway Retrograde tracing with recombinant rabies virus reveals correlations between projection targets and dendritic architecture in layer 5 of mouse barrel cortex Frontiers in Neural Circuits 1 (2008): article 5. (Florian)
24.10.08	Andrei Belitski, Arthur Gretton, Cesare Magri, Yusuke Murayama, Marcelo A. Montemurro, Nikos K. Logothetis and Stefano Panzeri Low-Frequency Local Field Potentials and Spikes in Primary Visual Cortex Convey Independent Visual Information The Journal of Neuroscience, May 28, 2008, 28(22):5696 –5709 (Sebastien)
17.10.08	Poulet & Petersen Internal brain state regulates membrane potential synchrony in barrel cortex of behaving mice Nature. 2008 Aug 14;454(7206):881-5 (Julian)
16.05.08	<i>cancelled (BCCN-meeting Berlin)</i>
03.10.08	<i>cancelled (Tag d. deutschen Einheit)</i>
26.09.08	Izhikevich Solving the Distal Reward Problem through Linkage of STDP and Dopamine Signaling Cerebral Cortex, October 2007; 17:2443-2452 (Tayfun)

19.09.08	<p>Winship &amp; Murphy  In Vivo Calcium Imaging Reveals Functional Rewiring of Single Somatosensory Neurons after Stroke  The Journal of Neuroscience 2008, 28(26):6592-6606  (Uli F.)</p>
22.08.08 - 12.09.08	<i>Summer break</i>
25.07.08	<i>Short Presentations</i>
18.07.08	<i>Short Presentations</i>
11.07.08	<p>Wang et al.  High-speed mapping of synaptic connectivity using photostimulation in Channelrhodopsin-2 transgenic mice.  Proc Natl Acad Sci USA (2007) vol. 104 (19) pp. 8143-8  (Florian)</p>
04.07.08	<p>A. Clauset, C. Moore, and M.E.J. Newman.  Hierarchical structure and the prediction of missing links in networks.  Nature 453, 98 - 101 (2008)</p> <p>A. Clauset, C. Moore, and M.E.J. Newman.  Structural Inference of Hierarchies in Networks.  In E. M. Airoldi et al. (Eds.): ICML 2006 Ws, Lecture Notes in Computer Science 4503, 1 - 13. Springer-Verlag, Berlin Heidelberg (2007)  (Sarah)</p>
27.06.08	<p>Huxter, JR, Senior, TJ, Allen, K, Csicsvari, J  Theta phase-specific codes for two-dimensional position, trajectory and heading in the hippocampus.  Nature Neurosci.11(5): 587-594 2008  (Thomas)</p>
20.06.08	<p>Michael Okun &amp; Ilan Lampl  Instantaneous correlation of excitation and inhibition during ongoing and sensory-evoked activities.  Nature Neurosci.11(5): 535-537, 2008  (Clemens)</p>
30.05.08	<i>Short Presentations</i>
23.05.08	<i>Short Presentations</i>
16.05.08	<i>cancelled (Pfingsten/Pentecost holidays)</i>
09.05.08	<i>cancelled</i>
02.05.08	<i>cancelled (Himmelfahrt/ascendence day)</i>
25.04.08	<p>Greg Stuart et al.  Action potential initiation requires high density of sodium channels  Nature 2008</p>

	(Steffen)
18.04.08	T. Tateno and H.P.C. Robinson Rate Coding and Spike-Time Variability in Cortical Neurons With Two Types of Threshold Dynamics J Neurophysiol 95: 2650–2663, 2006 (Julian)
11.04.08	Seung-Tae KIM, Songhee JEON, Wu Byung JEONG, Jang-Hyun KIM, Mee-Sook HONG, Hae Jeong PARK, Yeonjung KIM, Hye-Jung LEE, Hi-Joon PARK, and Joo-Ho CHUNG Acupuncture Inhibits Kainic Acid–Induced Hippocampal Cell Death in Mice Journal of Physiological Sciences 58(1), 2008 (Christian Garbers)
04.04.08	Dominic Standage • Sajjya Jalil • Thomas Trappenberg Computational consequences of experimentally derived spike-time and weight dependent plasticity rules Biol Cybern (2007) 96:615–623 (Moritz)
21.03.08 - 28.03.08	<i>cancelled (Easter holidays)</i>
14.03.08	William E. Vinje and Jack L. Gallant Sparse Coding and Decorrelation in Primary Visual Cortex During Natural Vision Science 287, 1273 (2000) (Henriette)
07.03.08	<i>cancelled</i>
29.02.08	Xiaohai Wang, Nanhong Lou, Qiwu Xu, Guo-Feng Tian, Wei Guo Peng, Xiaoning Han, Jian Kang, Takahiro Takano & Maiken Nedergaard Astrocytic Ca <sup>2+</sup> signaling evoked by sensory stimulation in vivo Nature neuroscience, 2006  Pascal Jourdain, Linda H Bergersen, Khaleel Bhaukaurally, Paola Bezzi, Mirko Santello, Maria Domercq, Carlos Matute, Fiorella Tonello, Vidar Gundersen & Andrea Volterra Glutamate exocytosis from astrocytes controls synaptic strength Nature neuroscience, 2007 (Samora)
22.02.08	Jing-ming Zhang, Hui-kun Wang, Chang-quan Ye, Wooping Ge, Yiren Chen, Zheng-lin Jiang, Chien-ping Wu, Mu-ming Poo, and Shumin Duan ATP Released by Astrocytes Mediates Glutamatergic Activity-Dependent Heterosynaptic Suppression Neuron, Vol. 40, 971–982, December 4, 2003 (Oliver)
15.02.08	Audrey Mercer, A. Peter Bannister and Alex M. Thomson Electrical coupling between pyramidal cells in adult cortical regions Brain Cell Biology Volume 35, 13–27, 2006 (Uli)

08.02.08	<i>Short Presentations</i>
01.02.08	<i>Short Presentations</i>
22.12.07 - 25.01.08	<i>Christmas break</i>

---