



Manitoba Neuroscience Network

2015/2016 Seminar & Visiting Speaker Series

Tuesday, October 13th, 2015 - 3:00 pm



Tomoaki Shirao

Professor and Chairman,
Graduate School of Medicine
Gunma University, Japan

TOPIC: Novel actin-dependent mechanism of synaptic plasticity.

Location: Theatre C, Basic Med. Sci. Bldg.

POSITIONS/EMPLOYMENT:

- 1984 Research Associate at the Dept of Pharmacology, Gunma University School of Medicine
- 1988 Research Associate at the Laboratory of Neurochemistry, Natl Inst for Physiol Sci
- 1991 Associate Professor at the Department of Physiology, Keio University School of Medicine
- 1993-present -Professor, Dept of Neurobiol and Behavior, Gunma Univ Sch of Med,
- 2001-2006 Director, Inst of Exp Animal Res, Gunma Univ Sch of Med, Maebashi, Japan
- 2004-present Vice-chairman, ERSC, Gunma Univ Grad Sch of Med

RECENT PUBLICATIONS:

- Yamazaki H, Kojima N, Kato K, Hirose H, Iwasaki T, Mizui T, Takahashi H, Hanamura K, Roppongi RT, Koibuchi N, Sekino Y, Mori N, Shirao T. "Spikar, a novel drebrin-binding protein, regulates the formation and stabilization of dendritic spines." *J Neurochem.* 128: 507-522 (2014)
- Mizui T, Sekino Y, Yamazaki H, Yuta Ishizuka H, Takahashi H, Kojima N, Kojima M and Shirao T. "Myosin II ATPase activity mediates the long-term potentiation-induced exodus of stable F-actin bound by drebrin A from dendritic spines" *PLoS One.* 9(1):e85367. (2014)
- Tanabe K, Yamazaki H, Inaguma Y, Asada A, Kimura T, Takahashi J, Taoka M, Ohshima T, Furuichi T, Isobe T, Nagata K, Shirao T, Hisanaga S. "Phosphorylation of drebrin by cyclin-dependent kinase 5 and its role in neuronal migration." *PLoS One.* 9:e92291 (2014)
- Yuta Ishizuka, Hideo Shimizu, Eiko Takagi, Mai Kato, Hirotaka Yamagata, Masahiko Mikuni, Tomoaki Shirao. "Histone deacetylase mediates the decrease in drebrin cluster density induced by amyloid beta oligomers" *Neurochem. Int.* 76:114-121 (2014)
- Kudo S, Suzuki Y, Noda S, Mizui T, Shirai K, Okamoto M, Kaminuma T, Yoshida Y, Shirao T and Nakano T. "Comparison of the radiosensitivities of neurons and glial cells derived from the same rat brain." *Exp. Ther. Med.* 8: 754-758, 2014

For more information, contact the MNN Office at
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Partners:



Hôpital St-Boniface Hospital
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