平野　丈夫　（Tomoo Hirano）

[原著]

1. Yamashita, M., Kawaguchi, S. and Hirano, T. (2013). Contribution of postsynaptic GluD2 to presynaptic R-type Ca^{2+} channel function, glutamate release and long-term potentiation at parallel fiber to Purkinje cell synapses. ***Cerebellum.*** 12: 657-666. doi: 10.1007/s12311-013-0474-y.
2. Tanaka, S., Kawaguchi, S., Shioi, G. and Hirano, T. (2013). Long-term potentiation of inhibitory synaptic transmission onto cerebellar Purkinje neurons contributes to adaptation of vestibulo-ocular reflex. ***J Neurosci.*** 33: 17209-17220. doi: 10.1523/JNEUROSCI.0793-13.2013.
3. Tanaka, H., Fujii, S. and Hirano, T. (2014). Live-cell imaging of receptors around postsynaptic membrane formed on adhesion-protein-coated glass. ***Nature Protocols.*** 9: 76-89. doi: 10.1038/nprot.2013.171.

[著書・総説]

1. Hirano, T. (2013). Long-term depression and other synaptic plasticity in the cerebellum. ***Proc Japan Acad Series B.*** 89: 183-195. doi: 10.2183/pjab.89.183
2. Hirano, T. and Kawaguchi, S. (2014). Regulation and functional roles of rebound potentiation at cerebellar stellate cell - Purkinje cell synapse. ***Front Cell Neurosci.*** 8: 42, 1-8. doi: 10.3389/fncel.2014.00042.

[国際学会]

1. Tanaka, S., Kawaguchi, S. and Hirano, T. Cerebellar inhibitory synaptic plasticity, rebound potentiation, contributes to adaptation of vestibulo-ocular reflex. The 43rd Annual Meeting, Society for Neuroscience. San Diego, USA. 2013.11.11
2. Bando, Y., Irie, K., Kushida, Y., Shimomura, T., Fujiysohi, Y., Hirano, T. and Tagawa, Y. Regulation of neural activity is critical for the control of neural migration and dendrite formation of cortical layer 2/3 neurons in vivo. The 43rd Annual Meeting, Society for Neuroscience. San Diego, USA. 2013.11.13

[国内学会]

1. Fujii, S., Tanaka, H. and Hirano, T. Subtype-specific trafficking of AMPA receptors during hippocampal LTD. The 36th Annual Meeting of the Japan Neuroscience Society. Kyoto. 2013.6.20
2. Bando, Y., Irie, K., Kushida, Y., Shimomura, T., Fujiysohi, Y., Hirano, T. and Tagawa,

Y. Regulation of excitability is critical for the control of migration and dendrite formation in the developing cerebral cortex. The 36th Annual Meeting of the Japan Neuroscience Society. Kyoto. 2013.6.21

[招待講演・セミナー]

1. 平野丈夫　「学習と記憶」のメカニズム。　千里ライフサイエンスフォーラム。　大阪 2013.9.19
2. Hirano, T., Tanaka, H. and Fujii, S. Visualized dynamics of glutamate receptors around postsynaptic membrane. Workshop “Molecular architecture and regulation mechanism of synapses” in the 36th Annual Meeting of the Molecular Biology Society of Japan, Kobe　2013.12.4
3. Hirano, T. Visualization of glutamate receptors around postsynaptic membrane during synaptic plasticity. The 2nd Kyoto-Bristol Symposium 2014, Neuroscience Section. Kyoto 2014.1.9
4. Hirano, T. “Regulation mechanism and functional role of inhibitory synaptic plasticity in a cerebellar Purkinje neuron”, Symposium “Mechanism and role of inhibitory synaptic plasticity” in the 91st Annual Meeting of the Physiological Society of Japan, Kagoshima　2014, 3, 17

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平成 25-26 年度　文部科学省科学研究費補助金　新学術領域「小脳抑制性シナプス可塑性の役割」　課題番号：25115716　研究代表者　平野丈夫
平成 24-26 年度　武田科学振興財団、生命科学研究助成 「シナプス前部機能制御の分子機構」研究代表者　平野丈夫

[その他]

新聞・マスコミ発表

京都新聞　2013 年 10 月 24 日日刊　22 面「運動学習の脳神経ネットワーク:興奮抑える細胞も関与」
日刊工業新聞　2013 年 10 月 24 日　19 面「神経伝達接合部位の異常、運動学習障害に関与」

特許出願・取得状況

該当なし