

平成24年度動物実験業績報告書

* 下線は本学所属

【論文】 報告者	タイトル	雑誌名, 巻(号) : 頁, 年
<u>Shin MC</u> , Wakita M, Iwata S, <u>Nonaka K</u> , Kotani N, <u>Akaike N</u> .	Comparative effects of pentobarbital on spontaneous and evoked transmitter release from inhibitory and excitatory nerve terminals in rat CA3 neurons.	Brain Res Bull, 90C:10-18, 2012
Wakita M, <u>Shin MC</u> , Iwata S, <u>Nonaka K</u> , <u>Akaike N</u> .	Effects of ethanol on GABA(A) receptors in GABAergic and glutamatergic presynaptic nerve terminals.	J Pharmacol Exp Ther, 341(3):809-819, 2012
Xie DJ, Uta D, Feng PU, Wakita M, <u>Shin MC</u> , Furue H and <u>Yoshimura M</u> .	Identification of 5-HT receptor subtypes enhancing inhibitory transmission in the rat spinal dorsal horn in vitro.	Molecular Pain 2012, 8:58
Kotani N, Wakita M, <u>Shin MC</u> , Ogawa S, <u>Nonaka K</u> , <u>Akaike N</u> .	Effects of halothane on GABAergic and glutamatergic transmission in isolated hippocampal nerve-synapse preparations.	Brain Res., 1473:9-18,2012
<u>Shin MC</u> , Wakita M, Xie DJ, <u>Yamaga T</u> , Iwata S, Torii Y, Harakawa T, Ginnaga A, Kozaki S, <u>Akaike N</u> .	Inhibition of membrane na(+) channels by a type botulinum toxin at femtomolar concentrations in central and peripheral neurons.	J Pharmacol Sci. 118:33-42,2012
<u>Yamaga T</u> , Aou S, <u>Shin MC</u> , Wakita M, <u>Akaike N</u> .	Neurotoxin A2NTX Blocks Fast Inhibitory and Excitatory Transmitter Release From Presynaptic Terminals.	J Pharmacol Sci. 118: 75-81,2012
<u>Shin MC</u> , <u>Nonaka K</u> , Wakita M, <u>Yamaga T</u> , Torii Y, Harakawa T, Ginnaga A, <u>Ito Y</u> , <u>Akaike N</u> .	Effects of tetanus toxin on spontaneous and evoked transmitter release at inhibitory and excitatory synapses in the rat SDCN neurons.	Toxicon. 59:385-92, 2012
<u>Shin MC</u> , Yukihiro T, <u>Ito Y</u> , and <u>Akaike N</u> .	Antinociceptive effects of A1 and A2 type botulinum toxins on carrageenan-induced hyperalgesia in rat.	Toxicon, 64:12-19, 2013
Iwata S, Wakita M, <u>Shin MC</u> , Fukuda A, <u>Akaike N</u> .	Effects of allopregnanolone on glutamatergic presynaptic nerve terminal.	Brain Res Bull, 93: S0361-9230, 2013
Ogawa SK, <u>Shin MC</u> , Hirashima M, <u>Akaike N</u> and <u>Ito Y</u> .	Effects of selenoprotein P on the contraction and relaxation of the airway smooth muscle.	Gen Physiol Biophys, 32(1):47-54, 2013
<u>Akaike N</u> , <u>Shin MC</u> , Wakita M, Torii Y, Harakawa T, Ginnaga A, Kato K, Kaji R, Kozaki S.	Transsynaptic inhibition of spinal transmission by A2 botulinum toxin.	J Physiology, 591(Pt 4):1031-1043, 2013
Kensaku Anraku, Kiku Nonaka, Toshitaka <u>Yamaga</u> , <u>Takatoshi Yamamoto</u> , <u>Min-Chul Shin</u> , Masahito Wakita, Ayaka Hamamoto, <u>Norio Akaike</u>	Removal of Toxin (Tetrodotoxin) from Puffer Ovary by Traditional Fermentation	Toxins, 5, 193-202, 2013
Kotani N, <u>Akaike N</u> .	The effects of volatile anesthetics on synaptic nad extrasynaptic GABA-induced neurotransmission.	Brain Res. Bull. 93, 69-79,2013

【口頭発表】発表者及び共同研究者	タイトル	学会・研究会名
<u>Min-Chul Shin</u> , Satomi Iwata, Yasushi Torii, Tetsuhiro Harakawa, Akihiro Ginnaga, <u>Norio Akaike</u> .	Action mechanism of A2NTX and A1LL under in vivo condition.	The 10th Japan-Korea Joint Symposium on Brain Science, and Cardiac and Smooth Muscles.
Satomi Iwata, Atsuo Fukuda, Masahito Wakita, <u>Min-Chul Shin</u> , <u>Norio Akaike</u> .	Effects of allopregnanolone on glutamatergic presynaptic nerve terminal.	The 10th Japan-Korea Joint Symposium on Brain Science, and Cardiac and Smooth Muscles.
<u>Min-Chul Shin</u> , <u>Norio Akaike</u> .	In vivo transport of type A2 botulinum toxin.	2012 Neueoscience
<u>Min-Chul Shin</u>	ION CHANNEL GATING MECHANISMS	2012 Kohwang Symposium for Patch Clamp Technique
<u>Norio Akaike</u> , Masahito Wakita, <u>Kiku Nonaka</u> , <u>Min-Chul Shin</u> .	Modulation of levetiracetam on excitatory transmitters release from single glutamatergic nerve terminal in rat hippocampal CA3 neuron.	2012 Neueoscience
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