

1. Yamaoka K, Inoue M, Hirama M (2011) A study on mechanisms of toxic actions of ciguatoxins: existence of functional relationship between CTX3C and charged residues of voltage sensors in Nav1.4 sodium channel. *Forensic Toxicology* 29: 125-131
2. Shinohara R, Akimoto T, Iwamoto O, Hirokawa T, Yotsu-Yamashita M, Yamaoka K, Nagasawa K (2011) Synthesis of skeletal analogues of saxitoxin derivatives and evaluation of their inhibitory activity on sodium ion channels Na(V)1.4 and Na(V)1.5. *Chemistry* 17: 12144-52
3. Miyoshi H, Yamaoka K, Urabe S, Kodama M, Kudo Y (2010) Functional expression of purinergic P2X7 receptors in pregnant rat myometrium. *Am J Physiol Regul Integr Comp Physiol* 298: R1117-24
4. Yokote S, Setoguchi R, Shimizu E, Mishima N, Kawahara K, Kuniyasu A, Shirasaki T, Takahama K, Konno K, Kawai N, Yamaoka K, Kinoshita E, Nakayama H (2009) A synthetic approach to develop peptide inhibitors selective for brain-type sodium channels on the basis of pompilidotoxin structure. *Heterocycles* 79:
5. Yamaoka K, Inoue M, Miyazaki K, Hirama M, Kondo C, Kinoshita E, Miyoshi H, Seyama I (2009) Synthetic ciguatoxins selectively activate Nav1.8-derived chimeric sodium channels expressed in HEK293 cells. *J Biol Chem* 284: 7597-605
6. Urabe S, Miyoshi H, Fujiwara H, Yamaoka K, Kudo Y (2009) Enhanced expression of P2X4 and P2X7 purinergic receptors in the myometrium of pregnant rats in preterm delivery models. *Reprod Sci* 16: 1186-92
7. Ozawa J, Kurose T, Kawamata S, Yamaoka K (2009) Morphological changes in hind limb muscles elicited by adjuvant-induced arthritis of the rat knee. *Scand J Med Sci Sports*
8. Maruta S, Yamaoka K, Yotsu-Yamashita M (2008) Two critical residues in p-loop regions of puffer fish Na⁺ channels on TTX sensitivity. *Toxicon* 51: 381-7
9. Yamaoka K, Vogel SM, Seyama I (2006) Na⁺ channel pharmacology and molecular mechanisms of gating. *Curr Pharm Des* 12: 429-42
10. Kawahara Y, Yamaoka K, Iwata M, Fujimura M, Kajiume T, Magaki T, Takeda M, Ide T, Kataoka K, Asashima M, Yuge L (2006) Novel electrical stimulation sets the cultured myoblast contractile function to 'on'. *Pathobiology* 73: 288-94
11. Yamaoka K, Inoue M, Miyahara H, Miyazaki K, Hirama M (2004) A quantitative and comparative study of the effects of a synthetic ciguatoxin CTX3C on the kinetic properties of voltage-dependent sodium channels. *Br J Pharmacol* 142: 879-89
12. Miyoshi H, Yamaoka K, Garfield RE, Obama K (2004) Identification of a non-selective cation channel current in myometrial cells isolated from pregnant rats. *Pflugers Arch* 447: 457-64
13. Yamaoka K, Kameyama M (2003) Regulation of L-type Ca²⁺ channels in the heart: overview of recent advances. *Mol Cell Biochem* 253: 3-13
14. Maejima H, Kinoshita E, Seyama I, Yamaoka K (2003) Distinct sites regulating grayanotoxin binding and unbinding to D4S6 of Na(v)1.4 sodium channel as revealed by improved estimation of toxin sensitivity. *J Biol Chem* 278: 9464-71
15. 山岡 薫, 木下 英司, 瀬山 一正 (2002) 生物毒が明らかにするNa⁺チャネル開閉のメカニズム. *生体の科学* 53: 304-311

16. Yamaoka K, Yuki T, Kawase K, Munemori M, Seyama I (2002) Temperature-sensitive intracellular Mg²⁺ block of L-type Ca²⁺ channels in cardiac myocytes. *Am J Physiol Heart Circ Physiol* 282: H1092-101
17. Maejima H, Kinoshita E, Yuki T, Yakehiro M, Seyama I, Yamaoka K (2002) Structural determinants for the action of grayanotoxin in D1 S4-S5 and D4 S4-S5 intracellular linkers of sodium channel alpha-subunits. *Biochem Biophys Res Commun* 295: 452-7
18. Kawagoe H, Yamaoka K, Kinoshita E, Fujimoto Y, Maejima H, Yuki T, Seyama I (2002) Molecular basis for exaggerated sensitivity to mexiletine in the cardiac isoform of the fast Na channel. *FEBS Lett* 513: 235-41
19. Yuki T, Yamaoka K, Yakehiro M, Seyama I (2001) State-dependent action of grayanotoxin I on Na(+) channels in frog ventricular myocytes. *J Physiol* 534: 777-90
20. Yakehiro M, Furukawa Y, Koike T, Kimura E, Nakajima T, Yamaoka K, Seyama I (2001) Novel mechanism of blocking axonal Na(+) channels by three macrocyclic polyamine analogues and two spider toxins. *Br J Pharmacol* 132: 63-72
21. Seyama I, Yamaoka K, Yakehiro M (2001) グラヤノトキシン(GTX)と膜電位依存性Na+チャネル. *BIO Clinica* 16: 54-58
22. Kinoshita E, Maejima H, Yamaoka K, Konno K, Kawai N, Shimizu E, Yokote S, Nakayama H, Seyama I (2001) Novel wasp toxin discriminates between neuronal and cardiac sodium channels. *Mol Pharmacol* 59: 1457-63
23. Kimura T, Yamaoka K, Kinoshita E, Maejima H, Yuki T, Yakehiro M, Seyama I (2001) Novel site on sodium channel alpha-subunit responsible for the differential sensitivity of grayanotoxin in skeletal and cardiac muscle. *Mol Pharmacol* 60: 865-72
24. Yamaoka K, Yakehiro M, Yuki T, Fujii H, Seyama I (2000) Effect of sulfhydryl reagents on the regulatory system of the L-type Ca channel in frog ventricular myocytes. *Pflugers Arch* 440: 207-15
25. Yakehiro M, Yuki T, Yamaoka K, Furue T, Mori Y, Imoto K, Seyama I (2000) An analysis of the variations in potency of grayanotoxin analogs in modifying frog sodium channels of differing subtypes. *Mol Pharmacol* 58: 692-700
26. Kimura T, Kinoshita E, Yamaoka K, Yuki T, Yakehiro M, Seyama I (2000) On site of action of grayanotoxin in domain 4 segment 6 of rat skeletal muscle sodium channel. *FEBS Lett* 465: 18-22
27. Yuki T, Yamaoka K, Seyama I (1999) Regulation of L- and N-types of Ca²⁺ channels by intracellular ATP4- in frog dorsal root ganglion neurons. *Pflugers Arch* 438: 117-24
28. Ishii H, Kinoshita E, Kimura T, Yakehiro M, Yamaoka K, Imoto K, Mori Y, Seyama I (1999) Point-mutations related to the loss of batrachotoxin binding abolish the grayanotoxin effect in Na(+) channel isoforms. *Jpn J Physiol* 49: 457-61
29. Yamaoka K, Seyama I (1998) Phosphorylation modulates L-type Ca channels in frog ventricular myocytes by changes in sensitivity to Mg²⁺ block. *Pflugers Arch* 435: 329-37
30. Furue T, Yakehiro M, Yamaoka K, Sumii K, Seyama I (1998) Characteristics of two slow inactivation mechanisms and their influence on the sodium channel activity of frog ventricular myocytes. *Pflugers Arch* 436: 631-8
31. Yamaoka K, Seyama I (1996) Modulation of Ca²⁺ channels by intracellular Mg²⁺ ions and GTP in frog ventricular myocytes. *Pflugers Arch* 432: 433-8

32. Yamaoka K, Seyama I (1996) Regulation of Ca channel by intracellular Ca²⁺ and Mg²⁺ in frog ventricular cells. *Pflugers Arch* 431: 305-17
33. Munemori M, Yamaoka K, Seyama I (1996) Identification of ATP-sensitive potassium channel in frog ventricular myocytes. *J Membr Biol* 154: 45-51
34. Yusuf I, Yamaoka K, Otsuka H, Yamasaki K, Seyama I (1992) Block of sodium channels by tyramine and its analogue (N-feruloyl tyramine) in frog ventricular myocytes. *Jpn J Physiol* 42: 179-91
35. Herve JC, Yamaoka K, Twist VW, Powell T, Ellory JC, Wang LC (1992) Temperature dependence of electrophysiological properties of guinea pig and ground squirrel myocytes. *Am J Physiol* 263: R177-84
36. Smith TW, Yamaoka, K., Twist, V. W., Ellory, J. C., Powell, T. and Wang, L. C. H., *Membrane transport in isolated cardiac myocytes of ground squirrels: cold sensitivity of pumps and channels.*, in *Living in the Cold II*. 1989, Jhon Libbey Eurotext Ltd. p. 177-184.
37. Miyoshi H, Yamaoka, K. and Seyama I., *Characteristics of sodium channel kinetics in the frog ventricular cell.*, in *Current Topics in Antiarrhythmic Agents*. 1989, Excerpta Medica Ltd. . p. 15-24
38. Seyama I, Yamaoka K (1988) A study of the electrical characteristics of sodium currents in single ventricular cells of the frog. *J Physiol* 401: 257-75
39. Egan TM, Noble D, Noble SJ, Powell T, Twist VW, Yamaoka K (1988) On the mechanism of isoprenaline- and forskolin-induced depolarization of single guinea-pig ventricular myocytes. *J Physiol* 400: 299-320
40. Yamaoka K (1987) Does the maximum upstroke velocity of the action potential (V_{max}) represent available sodium conductance in frog ventricular cells? *Jpn J Physiol* 37: 585-99
41. 土岡由紀子 松, 網岡英世, 横手祐司, 山岡 薫, 橋本正樹, 岡本光師, 松浦秀夫, 梶山梧朗, 満田広樹 (1986)
WPW症候群における二重防室結節伝導経路合併についての検討. *心臓* 18: 803-810
42. Yamaoka K, Seyama I (1986) Some properties of Na channel inactivation in isolated ventricular cells of frog, *Rana catesbeiana*. *Jpn Heart J* 27 Suppl 1: 21-30
43. Tsuchioka Y. Y, K., Hashimoto, M., Yamamoto, M., Sueda, T., Matsuura, H., Kurogane, H., Kajiyama, G., Tateishi, H., Sato, H. & Mitsuda, H. (1986) Electrophysiological effects of diphenylhydantoin in patients with sinus node dysfunction. *Jpn Heart J* 27: 159-166
44. Seyama I, Yakehiro, M., Yamaoka K, Nakajima, T. and Kimura, E., *Mechanism of the Na channel block with tryptamine and guanidyl-side armed cyclam.*, in *Natural products and biological activities*. 1986, University of Tokyo Press Tokyo. p. 101-109.
45. 土岡由紀子 藤, 末盛彰一, 佐倉英一郎, 山本正治, 山岡 薫, 末田 隆, 松浦秀夫, 梶山梧朗, 松浦雄一郎 (1985) 家族性sick sinus syndromeの一家系. *呼吸と循環* 33: 1271-1275
46. Seyama I, Yamaoka K, Yakehiro M, Yoshioka Y, Morihara K (1985) Is the site of action of grayanotoxin the sodium channel gating of squid axon? *Jpn J Physiol* 35: 401-10
47. 土岡由紀子 山薫, 山本正治, 末田 隆, 金沢郁夫, 湯浅 明, 榎野 新, 松浦秀夫, 鉄寛之, 立石博信, 滝沢伊津夫, 佐藤 光, 満田広樹 (1984)
WPW症候群における発作性心房粗動・細動についての検討. *呼吸と循環* 32: 829-833

48. Miyoshi H, Yamaoka K, Urabe S, Kodama M, Kudo Y Functional expression of purinergic P2X7 receptors in pregnant rat myometrium. Am J Physiol Regul Integr Comp Physiol 298: R1117-24