

# 研究業績

## I. 原著論文 (1971~)

1. Troponoids の薬理学的研究（第1報）下熱，鎮痛および消炎作用  
小澤光，瀬戸秀一，村井繁夫，大泉康  
*薬学雑誌*, 91, 550-559 (1971)
2. Troponoids の薬理学的研究（第2報）2,5-diaminotropone hydrochloride (DAT) の交感神経節遮断作用の解明  
小澤光，大泉康，村井繁夫  
*薬学雑誌*, 91, 1307-1312 (1971)
3. Troponoids の薬理学的研究（第3報），自律神経系における Troponoids の薬理作用  
小澤光，瀬戸秀一，大泉康，村井繁夫  
*薬学雑誌*, 92, 19-26 (1972)
4. 昆虫変態物質の連続投与の高等動物における影響（その2）  
ヒキノヒロシ，鍋谷将，大泉康，大高忠彦，内山充，竹本常松  
*東北医学雑誌*, 84, 267-269 (1971)
5. Catabolism of ponasterone A to ecdysterone, inokosterone, and poststerone in *Bombyx mori*  
Hikino, H., Ohizumi, Y. & Takemoto, T.  
*Chem. Commun.*, 1036-1037 (1971)
6. 昆虫変態ホルモンエクジステロンのマウスにおける吸収，分布，代謝および排泄（その1）  
ヒキノヒロシ，大泉康，竹本常松  
*薬学雑誌*, 92, 945-950 (1972)
7. Absorption, distribution, metabolism, and excretion of insect-metamorphosing hormone ecdysterone in mice. II  
Hikino, H., Ohizumi, Y. & Takemoto, T.  
*Chem. Pharm. Bull.*, 20, 2454-2458 (1972)
8. Effects of a vertebrate hypocholesterolemic agent on sterol metabolism and development of *Bombyx mori*  
Hikino, H., Ohizumi, Y., Saito, T., Nakamura, E. & Takemoto, T.  
*Chem. Pharm. Bull.*, 20, 851-853 (1972)
9. Steroid metabolism in *Bombyx mori*. I. Catabolism of ponasterone A and ecdysterone

in *Bombyx mori*

Hikino, H., Ohizumi, Y. & Takemoto, T.

*Hoppe-Seyler's Z. Physiol. Chem.*, 356, 309-314 (1975)

10. Detoxication mechanism of *Bombyx mori* against exogenous phytoecdysone ecdysterone  
Hikino, H., Ohizumi, Y. & Takemoto, T.  
*J. Insect. Physiol.*, 21, 1953-1963 (1975)
11. Effects of  $3\beta$ -( $\beta,\beta$ -dimethylaminoethoxy)-steroids on sterol metabolism and development of *Bombyx mori*  
Hikino, H., Ohizumi, Y., Saito, T., Nakamura, E. & Takemoto, T.  
*Insect. Biochem.*, 6, 21-28 (1976)
12. Structure-activity relationship of ericaceous toxins on acute toxicity in mice  
Hikino, H., Ohta, T., Ogura, M., Ohizumi, Y., Konno, C. & Takemoto, T. *Toxicol. Appl. Pharmacol.*, 35, 303-310 (1976)
13. 附子の修治に伴うアルカロイド組成と急性毒性の変化  
ヒキノヒロシ, 山田千鶴子, 中村和子, 佐藤博, 大泉康, 遠藤勝也  
*薬学雑誌*, 97, 359-366 (1977)
14. 附子の薬理作用  
ヒキノヒロシ, 佐藤博, 山田千鶴子, 今野長八, 大泉康, 遠藤勝也  
*薬学雑誌*, 99, 252-263 (1979)
15. Pharmacological actions of aconitine alkaloids  
Sato, H., Yamada, C., Konno, C., Ohizumi, Y., Endo, K. & Hikino, H.  
*Tohoku J. Exp. Med.*, 128, 175-187 (1979)
16. Analgesic principles of *Aconitum* roots  
Hikino, H., Ito, T., Yamada, C., Sato, H., Konno, C. & Ohizumi, Y.  
*J. Pharmacobio-Dynamics*, 2, 78-83 (1979)
17. Mechanism of mesaconitine-induced contractile response in guinea pig vas deferens  
Sato, H., Ohizumi, Y. & Hikino, H.  
*Eur. J. Pharmacol.*, 55, 83-92 (1979)
18. Subchronic toxicicty of ericaceous toxins and Rhododendron leaves  
Hikino, H., Ohizumi, Y., Konno, C., Hashimoto, K. & Wakasa, H.  
*Chem. Pharm. Bull.*, 27, 874-879 (1979)
19. Influence of morphine on membrane turnover and function  
Hitzemann, R.J., Natsuki, R., Ohizumi, Y., Johnson, D. & Loh, H.H.  
*Adv. Biochem. Psychopharmacol.*, 20, 495-520 (1979)
20. Mechanism of mesaconitine-induced contractile response in guinea-pig ileum

- Sato, H., Ito, T., Ohizumi, Y. & Hikino, H.  
*J. Pharm. Pharmacol.*, 32, 97-100 (1980)
21. The pharmacological nature of asebotoxin III-induced slower phasic contractile response to nerve stimulation in the guinea pig hypogastric nerve-vas deferens  
Ohizumi, Y. & Hikino, H.  
*J. Pharm. Pharmacol.*, 32, 224-225 (1980)
22. 吉草根の鎮静成分  
ヒキノヒロシ, 萩野靖子, 小日向裕子, 相沢愛子, 今野長八, 大泉康生  
*生薬学雑誌*, 34, 19-24 (1980)
23. Antiinflammatory principles of *Aconitum* root  
Hikino, H., Konno, C., Takata, H., Yamada, Y., Yamada, C., Ohizumi, Y., Sugio, K. & Fujimura, H.  
*J. Pharmacobio-Dynamics*, 3, 514-525 (1980)
24. Mechanism of the excitatory action of palytoxin and N-acetyl palytoxin in the isolated guinea-pig vas deferens  
Ohizumi, Y. & Shibata, S.  
*J. Pharmacol. Exp. Ther.*, 214, 209-212 (1980)
25. Possible mechanism of the dual action of the new polypeptide (anthopleurin-B) from sea anemone in the isolated ileum and taenia caeci of the guinea-pig  
Ohizumi, Y. & Shibata, S.  
*Br. J. Pharmacol.*, 72, 239-244 (1981)
26. Mode of the excitatory and inhibitory actions of ciguatoxin in the guinea-pig vas deferens  
Ohizumi, Y., Shibata, S. & Tachibana, K.  
*J. Pharmacol. Exp. Ther.*, 217, 475-480 (1981)
27. Excitatory effect of a new polypeptide (anthopleurin-B) from sea anemone on the guinea-pig vas deferens  
Norton, T.R., Ohizumi, Y. & Shibata, S.  
*Br. J. Pharmacol.*, 74, 23-28 (1981)
28. Biphasic mechanical responses of the guinea-pig isolated ileum to the venom of the marine snail *Conus striatus*  
Kobayashi, J., Nakamura, H. & Ohizumi, Y.  
*Br. J. Pharmacol.*, 73, 583-585 (1981)
29. Pharmacological study on the venom of the marine snail *Conus textile*  
Kobayashi, J., Ohizumi, Y., Nakamura, H. & Hirata, Y.  
*Toxicon*, 19, 757-762 (1981)

30. Nature of anthopleurin-B-induced release of norepinephrine from adrenergic nerves  
Ohizumi, Y. & Shibata, S.  
*Am. J. Physiol.*, 243, C237-C241 (1982)
31. Selective potentiation of noradrenaline in the guinea-pig vas deferens by 2-(4-methylaminobutoxy) diphenylmethane hydrochloride (MCI-2016), a new psychotropoic drug  
Ohizumi, Y., Takahashi, M. & Tobe, A.  
*Br. J. Pharmacol.*, 75, 377-382 (1982)
32. Maitotoxin, a  $\text{Ca}^{2+}$  channel activator candidate  
Takahashi, M., Ohizumi, Y. & Yasumoto, T.  
*J. Biol. Chem.*, 257, 7287-7289 (1982)
33. Effect of venoms from Conidae on skeletal, cardiac and smooth muscles  
Kobayashi, J., Nakamura, H., Hirata, Y. & Ohizumi, Y.  
*Toxicon*, 20, 823-830 (1982)
34. Isolation of a cardiotonic glycoprotein, striatoxin, from the venom of the marine snail *Conus striatus*  
Kobayashi, J., Nakamura, H., Hirata, Y. & Ohizumi, Y.  
*Biochem. Biophys. Res. Commun.*, 105, 1389-1395 (1982)
35. Isolation of eburnetoxin, a vasoactive substance from the *Conus eburneus* venom  
Kobayashi, J., Nakamura, H., Hirata, Y. & Ohizumi, Y.  
*Life Sci.*, 31, 1085-1091 (1982)
36. The occurrence of arachidonic acid in the venom duct of the marine snail *Conus textile*  
Nakamura, H., Kobayashi, J., Ohizumi, Y. & Hirata, Y.  
*Experientia*, 38, 897 (1982)
37. Isolation and structure of aaptamine a novel heteroaromatic substance possessing  $\alpha$ -blocking activity from the sea sponge *Aaptos aaptos*  
Nakamura, H., Kobayashi, J., Ohizumi, Y. & Hirata, Y.  
*Tetrahedron Lett.*, 23, 5555-5558 (1982)
38. Mode of the ciguatoxin-induced supersensitivity in the guinea-pig vas deferens  
Ohizumi, Y., Ishida, Y. & Shibata, S.  
*J. Pharmacol. Exp. Ther.*, 221, 748-752 (1982)
39. Cardiotonic Principles of Ginger (*Zingiber officinale Roscoe*)  
Shoji, N., Iwasa, A., Takemoto, T., Ishida, Y. & Ohizumi, Y.  
*J. Pharm. Sci.*, 71, 1174-1175 (1982)
40. Contractile effects of okadaic acid, a novel ionophore-like substance from black

- sponge, on isolated smooth muscles under the condition of Ca deficiency  
Shibata, S., Ishida, Y., Kitano, H., Ohizumi, Y., Habon, J., Tsukitani, Y. & Kikuchi, H.  
*J. Pharmacol. Exp. Ther.*, 223, 135-143 (1982)
41. Excitatory and inhibitory actions of amrinone on the guinea-pig isolated ileum and vas deferens  
Ishida, Y., Ohizumi, Y. & Shibata, S.  
*J. Pharm. Pharmacol.*, 34, 47-49 (1982)
42. Excitatory effect of the most potent marine toxin, maitotoxin, on the guinea-pig vas deferens  
Ohizumi, Y., Kajiwara, A. & Yasumoto, T.  
*J. Pharmacol. Exp. Ther.*, 227, 199-204 (1983)
43. Contractile response of the rabbit aorta to maitotoxin, the most potent marine toxin  
Ohizumi, Y. & Yasumoto, T.  
*J. Physiol.*, 337, 711-721 (1983)
44. Contraction and increase in tissue calcium content induced by maitotoxin, the most potent known marine toxin, in intestinal smooth muscle  
Ohizumi, Y. & Yasumoto, T.  
*Br. J. Pharmacol.*, 79, 3-5 (1983)
45. Contractions induced by grayanotoxin I in the guinea-pig vas deferens  
Ohizumi, Y.  
*Br. J. Pharmacol.*, 78, 461-467 (1983)
46.  $\text{Ca}^{2+}$  channel activating function of maitotoxin, the most potent marine toxin known, in clonal rat pheochromocytoma cells  
Takahashi, M., Tatsumi, M., Ohizumi, Y. & Yasumoto, T.  
*J. Biol. Chem.*, 258, 10944-10949 (1983)
47. Excitatory and inhibitory effects of a myotoxin from *Conus magus* venom on the mouse diaphragm, the guinea-pig atria, taenia caeci, ileum and vas deferens  
Kobayashi, J., Nakamura, H. & Ohizumi, Y.  
*Eur. J. Pharmacol.*, 86, 283-286 (1983)
48. Ca-antagonistic substance from soft coral of the genus *Sarcophyton*  
Kobayashi, J., Ohizumi, Y., Nakamura, H., Yamaoka, T., Matsusaki, T. & Hirata, Y.  
*Experientia*, 39, 67-69 (1983)
49. Tessulatoxin, the vasoactive protein from the venom of the marine snail *Conus tessulatus*  
Kobayashi, J., Nakamura, H., Hirata, Y. & Ohizumi, Y.

*Comp. Biochem. Physiol.*, 74B, 381-384 (1983)

50. Isolation and amino acid compositions of geographutoxin I and II from the marine snail *Conus geographus* Linne  
Nakamura, H., Kobayashi, J., Ohizumi, Y. & Hirata, Y.  
*Experientia*, 39, 590-591 (1983)
51. The amino acid sequences of homologous hydroxyproline-containing myotoxins from the marine snail *Conus geographus* venom  
Sato, S., Nakamura, H., Ohizumi, Y., Kobayashi, J. & Hirata, Y.  
*FEBS Lett.*, 155, 277-280 (1983)
52. Agelasidine-A, a novel sesquiterpene possessing antispasmodic activity from the Okinawa sea sponge *Agelas* sp  
Nakamura, H., Wu, H., Kobayashi, J., Ohizumi, Y., Hirata, Y., Higashijima, T. & Miyazawa, T.  
*Tetrahedron Lett.*, 24, 4105-4108 (1983)
53. Chemical structure of hosenkol- A, the first example of the natural baccharane triterpenoid of the missing intermediate to shionane and lupine  
Shoji, N., Umeyama, A., Taira, Z., Takemoto, T., Nomoto, K., Mizukawa, K. & Ohizumi, Y.  
*J. Chem. Soc., Chem. Commun.*, 1983, 871-873 (1983)
54. Respiration of sea urchin spermatozoa in the presence of a synthetic jelly coat peptide and ionophores  
Suzuki, N., Ohizumi, Y., Yasumasu, I. & Isaka, S.  
*Develop. Growth and Differ.*, 26, 17-24 (1984)
55. Serotonergic receptor antagonist from *Nandina domestica* Thunberg  
Shoji, N., Umeyama, A., Takemoto, T. & Ohizumi, Y.  
*J. Pharm. Sci.*, 73, 568-570 (1984)
56. Structural determination of nootkatol, a new sesquiterpene isolated from *Alpinia oxyphylla* Miquel possessing calcium-antagonistic activity  
Shoji, N., Umeyama, A., Asakawa, Y., Takemoto, T., Nomoto, K. & Ohizumi, Y.  
*J. Pharm. Sci.*, 73, 843-844 (1984)
57. Isolation of a cardiotonic principle from *Alpinia oxyphylla*  
Shoji, N., Umeyama, A., Takemoto, T. & Ohizumi, Y.  
*Planta Med.*, 50, 186-187 (1984)
58. Na<sup>+</sup>-K<sup>+</sup>-ATPase inhibitors from *Lysimachia japonica*  
Shoji, N., Umeyama, A., Takemoto, T., Kobayashi, M. & Ohizumi, Y.  
*J. Nat. Prod.*, 47, 530-532 (1984)

59. Keramadine, a novel antagonist of serotonergic receptors isolated from the Okinawan sea sponge *Agelas* sp  
Nakamura, H., Ohizumi, Y., Kobayashi, J. & Hirata, Y.  
*Tetrahedron Lett.*, 25, 2475-2478 (1984)
60. Agelasine-A, -B, -C and -D, novel bicyclic diterpenoids with a 9-methyladeninium unit possessing inhibitory effects on Na, K- ATPase from the Okinawan sea sponge *Agelas* sp  
Nakamura, H., Wu, H., Ohizumi, Y. & Hirata, Y.  
*Tetrahedron Lett.*, 25, 2989-2992 (1984)
61. Agelasine-E and -F, novel monocyclic diterpenoids with a 9-methyladeninium unit possessing inhibitory effects on Na,K-ATPase isolated from the Okinawa sea sponge *Agelas nakamurai* Hoshino  
Wu, H., Nakamura, H., Kobayashi, J., Ohizumi, Y. & Hirata, Y.  
*Tetrahedron Lett.*, 25, 3719-3722 (1984)
62. Potent excitatory effect of maitotoxin on Ca channels in the insect skeletal muscle  
Miyamoto, T., Ohizumi, Y., Washio, H. & Yasumoto, T.  
*Pflugers Arch.*, 400, 439-441 (1984)
63. Mechanism of palytoxin-induced  $^3\text{H}$ -norepinephrine release from a rat pheochromocytoma cell line  
Tatsumi, M., Takahashi, M. & Ohizumi, Y.  
*Mol. Pharmacol.*, 25, 379-383 (1984)
64.  $\alpha$ -Adrenoceptor blocking action of aaptamine, a novel marine natural product, in vascular smooth muscle  
Ohizumi, Y., Kajiwara, A., Nakamura, H. & Kobayashi, J.  
*J. Pharm. Pharmacol.*, 36, 785-786 (1984)
65. 6-Tridecylresorcylic acid, a novel ATPase inhibitor that blocks the contractile apparatus of skeletal muscle proteins  
Kobayashi, M., Kajiwara, A., Takahashi, M., Ohizumi, Y., Shoji, N. & Takemoto, T.  
*J. Biol. Chem.*, 259, 15007-15009 (1984)
66. Novel bisabolen-type sesquiterpenoids with a conjugated diene isolated from the Okinawan sea sponge *Theonella cf. swinhoei*  
Nakamura, H., Kobayashi, J., Ohizumi, Y. & Hirata, M.  
*Tetrahedron Lett.*, 25, 5401-5404 (1984)
67. Dual effect of ouabain on the palytoxin-induced contraction and norepinephrine-release in the guinea-pig vas deference  
Ishida, Y., Kajiwara, A., Takagi, K., Ohizumi, Y. & Shibata, S.

- J. Pharmacol. Exp. Ther.*, 232, 551-556 (1985)
68. Ca-dependent arrhythmogenic effects of maitotoxin, the most potent marine toxin known, on isolated rat cardiac muscle cells  
Kobayashi, M., Miyakoda, G., Nakamura, T. & Ohizumi, Y.  
*Eur. J. Pharmacol.*, 111, 121-123 (1985)
69. Xestoquinone: a novel cardiotonic marine natural product isolated from the Okinawan sea sponge *Xestospongia sapra*  
Nakamura, H., Kobayashi, J., Kobayashi, M. & Ohizumi, Y.  
*Chem. Lett.*, 713-716 (1985)
70. The mechanism of action of maitotoxin in relation to  $\text{Ca}^{2+}$  movements in guinea-pig and rat cardiac muscles  
Kobayashi, M., Ohizumi, Y. & Yasumoto, T.  
*Br. J. Pharmacol.*, 86, 385-391 (1985)
71. Potent excitatory effects of a cardiotonic protein from the venom of the marine snail *Conus magus* on the guinea-pig left atria, vas deferens and ileum  
Kobayashi, J., Nakamura, H. & Ohizumi, Y.  
*Toxicon*, 23, 783-789 (1985)
72. Potent excitatory effect of scaritoxin on the guinea-pig vas deferens, taenia caeci and ileum  
Tatsumi, M., Kajiwara, A., Yasumoto, T. & Ohizumi, Y.  
*J. Pharmacol. Exp. Ther.*, 235, 783-787 (1985)
73. Agelasidines. Novel hypotaurocyamine derivatives from the Okinawan sea sponge *Agelas nakamurai* Hoshino  
Nakamura, H., Wu, H., Kobayashi, J., Kobayashi, M., Ohizumi, Y. & Hirata, Y.  
*J. Org. Chem.*, 50, 2494-2497 (1985)
74. Purealin, a novel enzyme activator from the Okinawan marine sponge *Psammaphysilla purea*  
Nakamura, H., Wu, H., Kobayashi, J., Nakamura, Y., Ohizumi, Y. & Hirata, Y.  
*Tetrahedron Lett.*, 26, 4517-4520 (1985)
75. Presynaptic inhibitory effect of geographutoxin II, a new peptide toxin from *Conus geographus* venom in the guinea-pig vas deferens  
Ohizumi, Y., Nakamura, H. & Kobayashi, J.  
*Eur. J. Pharmacol.*, 120, 245-248 (1986)
76. Palytoxin in two species of xanthid crab from the Philippines  
Yasumoto, T., Yasumura, D., Ohizumi, Y., Takahashi, M., Alcala, L.C.  
*Agric. Biol. Chem.*, 50, 163-167 (1986)

77. Bromo-eudistomin D, a novel inducer of calcium release from fragmented sarcoplasmic reticulum that causes contractions of skind muscle fibers  
Nakamura, Y., Kobayashi, J., Gilmore, J., Mascal, M., Rinehart, Jr. K.L., Nakamura, H. & Ohizumi, Y.  
*J. Biol. Chem.*, 261, 4139-4142 (1986)
78. Lipopurealins, novel bromotyrosine derivatives with long chain acyl groups from the marine sponge *Psammaphysilla purea*  
Wu, H., Nakamura, H., Kobayashi, J., Ohizumi, Y. & Hirata, Y.  
*Experientia*, 42, 855-856 (1986)
79. Cardiotoxic effects of maitotoxin, a principal toxin of seafood poisoning, on guinea pig and rat cardiac muscle  
Kobayashi, M., Kondo, S., Yasumoto, T. & Ohizumi, Y.  
*J. Pharmacol. Exp. Ther.*, 238, 1077-1083 (1986)
80. Eudistomin A, a novel calmodulin antagonist from the Okinawan tunicate *Eudistoma glaucus*  
Kobayashi, J., Nakamura, H., Ohizumi, Y. & Hirata, Y.  
*Tetrahedron Lett.*, 27, 1191-1194 (1986)
81. Specific inhibition of [<sup>3</sup>H]saxitoxin binding to skeletal muscle sodium channels by geographutoxin II, a polypeptide channel blocker  
Ohizumi, Y., Nakamura, H., Kobayashi, J. & Catterall, W.A.  
*J. Biol. Chem.*, 261, 6149-6152 (1986)
82. Hippopongins, a novel furanosesterterpene possessing antispasmodic activity from the Okinawan marine sponge *Hippopongia sp*  
Kobayashi, J., Ohizumi, Y., Nakamura, H. & Hirata, Y.  
*Tetrahedron Lett.*, 27, 2113-2116 (1986)
83. Isolation of evodiamine, a powerful cardiotonic principle, from *Evodia rutaecarpa* Bentham (Rutaceae)  
Shoji, N., Umeyama, A., Takemoto, T., Kajiwara, A. & Ohizumi, Y.  
*J. Pharm. Sci.*, 75, 612-613 (1986)
84. Hymenin, a novel α-adrenoceptor blocking agent from the Okinawan marine sponge *Hymeniacidon* sp  
Kobayashi, J., Ohizumi, Y., Nakamura, H., Hirata, Y., Wakamatsu, K. & Miazawa, T.  
*Experientia*, 42, 1064-1065 (1986)
85. Purealin, a novel stabilizer of smooth muscle myosin filaments that modulates ATPase activity of dephosphorylated myosin

- Takito, J., Nakamura, H., Kobayashi, J., Ohizumi, Y., Ebisawa, K. & Nonomura, Y.  
*J. Biol. Chem.*, 261, 13861-13865 (1986)
86. Structure of agelasidines, diterpenes having a 9-methyladeninium chromophore isolated from the Okinawan marine sponge *Agelas nakamurai* Hoshino  
Wu, H., Nakamura, H., Kobayashi, J., Kobayashi, M., Ohizumi, Y. & Hirata, Y.  
*Bull. Chem. Soc. Jpn.*, 59, 2495-2504 (1986)
87. Preferential block of skeletal muscle sodium channels by geographutoxin II, a new peptide toxin from *Conus geographus*  
Kobayashi, M., Wu, H., Yoshii, M., Narahashi, T., Nakamura, H., Kobayashi, J. & Ohizumi, Y.  
*Pflugers Arch.*, 407, 241-243 (1986)
88. A novel antagonist of serotonergic receptors, hymenidin, isolated from the Okinawan marine sponge *Hymeniacidon* sp  
Kobayashi, J., Ohizumi, Y., Nakamura, H. & Hirata, Y.  
*Experientia*, 42, 1176-1177 (1986)
89. Geographutoxin II, a novel peptide inhibitor of Na channels of skeletal muscle and autonomic nerves  
Ohizumi, Y., Minoshima, S., Takahashi, M., Kajiwara, A., Nakamura, H., & Kobayashi, J.  
*J. Pharmacol. Exp. Ther.*, 239, 243-248 (1986)
90. Dictyoceratin-A and -B, novel antimicrobial terpenoids from the Okinawan marine sponge *Hippospongia* sp  
Nakamura, H., Songzhi, D., Kobayashi, J., Ohizumi, Y. & Hirata, Y.  
*Tetrahedron*, 42, 4197-4201 (1986)
91. Vasoactive Substances from *Saussurea lappa*  
Shoji, N., Umeyama, A., Saito, N., Takemoto, T., Kajiwara, A. & Ohizumi, Y.  
*J. Nat. Prod.*, 49, 1112-1113 (1986)
92. The contractile action of palytoxin in the isolated rabbit urinary bladder  
Shibata, S., Satake, N., Ueda, S., Ohizumi, Y., Flores, F. & Paulino, R.  
*Eur. J. Pharmacol.*, 127, 129-133 (1986)
93. Dehydropiperonaline, an amide possessing coronary vasodilating activity, isolated from *Piper longum* L.  
Shoji, N., Umeyama, A., Saito, N., Takemoto, T., Kajiwara, A. & Ohizumi, Y.  
*J. Pharm. Sci.*, 75, 1188-1189 (1986)
94. Amphidinolide-A, a novel antineoplastic macroride from the marine dinoflagellate *Amphidinium* sp

- Kobayashi, J., Ishibashi, M., Nakamura, H., Ohizumi, Y., Yamasu, T., Sasaki, T. & Hirata, Y.  
*Tetrahedron Lett.*, 27, 5755-5758 (1986)
95. Theonellamine B, a novel peptidal Na, K-ATPase inhibitor from an Okinawan marine sponge of the genus *Theonella*  
Nakamura, H., Kobayashi, J., Nakamura, Y., Ohizumi, Y., Kondo, T. & Hirata, Y.  
*Tetrahedron Lett.*, 27, 4319-4322 (1986)
96. Aaptamines. Novel naturally occurring Benzo[de][1,6] naphthyridines from the Okinawan marine sponge *Aaptos aaptos*  
Nakamura, H., Kobayashi, J., Ohizumi, Y. & Hirata, Y.  
*J. Chem. Soc., Perkin I*, 173-176 (1987)
97. Potentiation of contractile response and increase in tissue sodium content induced by aconitine in the quinea-pig vas deferens  
Ohizumi, Y. & Kajiwara, A.  
*J. Pharm. Pharmacol.*, 39, 324-326 (1987)
98. Pseudodistomins A and B, novel antineoplastic piperidine alkaloids with calmodulin antagonistic activity from the Okinawan tunicate *Pseudodistoma kanoko*  
Ishibashi, M., Ohizumi, Y., Sasaki, T., Nakamura, H., Hirata, Y. & Kobayashi, J.  
*J. Org. Chem.*, 52, 450-453 (1987)
99. Antimicrobial alkaloids from the Okinawan marine sponge *Pellina* sp  
Nakamura, H., Deng, S., Kobayashi, J., Ohizumi, Y., Tomotake, Y., Matsuzaki, T. & Hirata, Y.  
*Tetrahedron Lett.*, 28, 621-624 (1987)
100. The *Conus* toxin geographutoxin II distinguishes two functional sodium channel subtypes in rat muscle cells developing *in vitro*  
Gonoi, T., Ohizumi, Y., Nakamura, H., Kobayashi, J. & Catterall, W.A.  
*J. Neurosci.*, 7, 1728-1731 (1987)
101. The mechanism of inhibition of light- chain phosphorylation by purealgin in chicken gizzard myosin  
Takito, J., Ohizumi, Y., Nakamura, H., Kobayashi, J., Kobayashi, Ebisawa, K. & Nonomura, Y.  
*Eur. J. Pharmacol.*, 142, 189-195 (1987)
102. Enancement of the actin-activated ATPase activity of myosin from canine cardiac ventricle by purealgin  
Takito, J., Nakamura, H., Kobayashi, J. & Ohizumi, Y.  
*Biochim. Biophys. Acta.*, 912, 404-407 (1987)

103. Asimilobine and lirinidine, serotonergic receptor antagonists, from *Nelumbo nucifera* gaertner  
Shoji, N., Umeyama, A., Saito, N., Iuchi, A., Takemoto, T. & Ohizumi, Y.  
*J. Nat. Prod.*, 50, 773-774 (1987)
104. Purealin, a novel activator of skeletal muscle actomyosin ATPase and myosin EDTA-ATPase that enhanced the superprecipitation of actomyosin  
Nakamura, Y., Kobayashi, M., Nakamura, H., Wu, H., Kobayashi, J. & Ohizumi, Y.  
*Eur. J. Biochem.*, 167, 1-6 (1987)
105. Arrhythmogenic action of maitotoxin in guinea-pig and rat cardiac muscle  
Kobayashi, M., Goshima, K., Ochi, R. & Ohizumi, Y.  
*Eur. J. Pharmacol.*, 142, 1-8 (1987)
106. Gingerol, a novel cardiotonic agent, activates the  $\text{Ca}^{2+}$ -pumping ATPase in skeletal and cardiac sarcoplasmic reticulum  
Kobayashi, M., Shoji, N. & Ohizumi, Y.  
*Biochem. Biophys. Acta.*, 903, 96-102 (1987)
107. Amphidinolide-B, a novel macrolide with potent antineoplastic activity from the marine dinoflagellate *Amphidinium* sp  
Ishibashi, M., Ohizumi, Y., Hamashima, M., Nakamura, H., Hirata, Y., Sasaki, T. & Kobayashi, J.  
*J. Chem. Soc., Chem. Commun.*, 1127-1129 (1987)
108. Actions of a polypeptide toxin from the marine snail *Conus striatus* on voltage-sensitive sodium channels  
Gonoi, T., Ohizumi, Y., Kobayashi, J., Nakamura, H. & Catterall, W.A.  
*Mol. Pharmacol.*, 32, 691-698 (1987)
109. Maitotoxin-activated single calcium channels in guinea-pig cardiac cells  
Kobayashi, M., Ochi, R. & Ohizumi, Y.  
*Br. J. Pharmacol.*, 92, 665-671 (1987)
110. Mode of inhibition of brain  $\text{Na}^+, \text{K}^+$ -ATPase by agelasidines and agelasines from a sea sponge  
Kobayashi, M., Nakamura, H., Wu, H., Kobayashi, J. & Ohizumi, Y.  
*Arch. Biochem. Biophys.*, 259, 179-184 (1987)
111. Prianosin A, a novel antileukemic alkaloid from the Okinawan marine sponge *Prianos melanos*  
Kobayashi, J., Cheng, J., Ishibashi, M., Nakamura, H., Ohizumi, Y., Hirata, Y., Sasaki, T., Lu, H. & Clardy, J.  
*Tetrahedron Lett.*, 28, 4939-4942 (1987)

112.  $\alpha$ -Adrenoceptor blocking action of hymenin, a novel marine alkaloid  
Kobayashi, J., Nakamura, H. & Ohizumi, Y.  
*Experientia*, 44, 86-87 (1988)
113. Amphidinolide C: the first 25-membered macrocyclic lactone with potent antineoplastic activity from the cultured dinoflagellate *Amphidinium* sp  
Kobayashi, J., Ishibashi, M., Walchli, M.R., Nakamura, H., Hirata, Y., Sasaki, T. & Ohizumi, Y.  
*J. Am. Chem. Soc.*, 110, 490-494 (1988)
114. Eudistomin derivatives, novel phosphodiesterase inhibitors: synthesis and relative activity  
Kobayashi, J., Taniguchi, M., Hino, T. & Ohizumi, Y.  
*J. Pharm. Pharmacol.*, 40, 62-63 (1988)
115. Ascididemin, a novel pentacyclic aromatic alkaloid with potent antileukemic activity from the Okinawan tunicate *Didemnum* sp  
Kobayashi, J., Cheng, J., Nakamura, H., Ohizumi, Y., Hirata, Y., Sasaki, T., Ohta, T. & Nozoe, S.  
*Tetrahedron Lett.*, 29, 1177-1180 (1988)
116. Cystodytins A, B, and C, novel tetracyclic aromatic alkaloids with potent antineoplastic activity from the Okinawan tunicate *Cystodytes dellechiaiei*  
Kobayashi, J., Cheng, J., Walchli, M.R., Nakamura, H., Hirata, Y., Sasaki, T. & Ohizumi, Y.  
*J. Org. Chem.*, 53, 1800-1804 (1988)
117. The mechanism of the inotropic action of striatoxin, a novel polipeptide toxin from a marine snail, in isolated cardiac muscle  
Ohizumi, Y., Kobayashi, M., Muroyama, A., Nakamura, H. & Kobayashi, J.  
*Br. J. Pharmacol.*, 95, 867-875 (1988)
118. The mode of inotropic action of ciguatoxin on guinea-pig cardiac muscle  
Seino, A., Kobayashi, M., Momose, K., Yasumoto, T. & Ohizumi, Y.  
*Br. J. Pharmacol.*, 95, 876-882 (1988)
119. Cardiotonicaction of [8]-gingerol, an activator of the  $\text{Ca}^{++}$ -pumping adenosine triphosphatase of sarcoplasmic reticulum, in guinea pig Atrial muscle  
Kobayashi, M., Ishida, Y., Shoji, N. & Ohizumi, Y.  
*J. Pharmacol. Exp. Ther.*, 246, 667-673 (1988)
120. Palytoxin-induced contraction and release of endogenous noradrenaline in rat tail artery  
Karaki, H., Nagase, H., Ohizumi, Y., Satake, N. & Shibata, S.

*Br. J. Pharmacol.*, 95, 183-188 (1988)

121. Metachromins A and B, novel antineoplastic sesquiterpenoids from the Okinawan sponge *Hippospongia cf. metachromia*  
Ishibashi, M., Ohizumi, Y., Cheng, J., Nakamura, H., Hirata, Y., Sasaki, T. & Kobayashi, J.  
*J. Org. Chem.*, 53, 2855-2858 (1988)
122. Isolation of an amide, a possible key precursor to evodiamine, from *Evodia rutaecarpa*  
Shoji, N., Umeyama, A., Iuchi, A., Saito, N., Takemoto, T., Nomoto, K. & Ohizumi, Y.  
*J. Nat. Prod.*, 51, 161-162 (1988)
123. Penasterol, a novel antileukemic sterol from the Okinawan marine sponge *Penares* sp.  
Cheng, J., Kobayashi, J., Nakamura, H., Ohizumi, Y., Hirata Y. & Sasaki, T.  
*J. Chem. Soc. Perkin I*, 2403-2406 (1988)
124. Prianosins B, C, and D, novel sulfur-containing alkaloids with potent antineoplastic activity from the Okinawan marine sponge *Prianos melanos*  
Cheng, J., Ohizumi, Y., Walchli, M.R., Nakamura, H., Hirata, Y., Sasaki, T. & Kobayashi, J.  
*J. Org. Chem.*, 53, 4621-4624 (1988)
125. Symbioramide, a novel  $\text{Ca}^{2+}$ -ATPase activator from the cultured dinoflagellate *Symbiodinium* sp  
Kobayashi, J., Ishibashi, M., Nakamura, H., Hirata, Y., Yamasu, T., Sasaki, T. & Ohizumi, Y.  
*Experientia*, 44, 800-802 (1988)
126. Iejimalides A and B, novel 24-membered macrolides with potent antileukemic activitiy from the Okinawan tunicate *Eudistoma cf. rigida*  
Kobayashi, J., Cheng, J., Ohta, T., Nakamura, H., Nozoe, S., Hirata, Y., Ohizumi, Y. & Sasaki, T.  
*J. Org. Chem.*, 53, 6147-6150 (1988)
127. Isolation of a new alkaloid from *Evodia rutaecarpa*  
Shoji, N., Umeyama, A., Iuchi, A., Saito, N., Takemoto, T., Nomoto, K. & Ohizumi, Y.  
*J. Nat. Prod.*, 51, 791-792 (1988)
128. Hymenosulphate, a novel sterol sulphate with Ca-releasing activity from the cultured marine haptophyte *Hymenomonas* sp  
Kobayashi, J., Ishibashi, M., Nakamura, H., Ohizumi, Y. & Hirata, Y.

*J. Chem. Soc. Perkin I*, 101-103 (1989)

129. Geographutoxin-sensitive and insensitive sodium currents in mouse skeletal muscle developing *in situ*  
Gonioi, T., Hagiwara, Y., Kobayashi, J., Nakamura, H. & Ohizumi, Y.  
*J. Physiol.*, 414, 159-177 (1989)
130. Untenospongins A and B, novel furanoterpenes with coronary vasodilating activity from the Okinawan marine sponge *Hippospongia* sp  
Umeyama, A., Shoji, N., Shigenobu, A., Ohizumi, Y. & Kobayashi, J.  
*Aust. J. Chem.*, 42, 459-462 (1989)
131. In vitro characterization of the effects of MCI-154, a novel cardiotonic agent, on cardiac tissues  
Narimatsu, A., Kitada, Y., Satoh, N., Morita, M., Muroyama, A., Kobayashi, M. & Ohizumi, Y.  
*Jpn. J. Pharmacol.*, 49, 397-405 (1989)
132. Potent stimulation of myofilament force and adenosine triphosphatase activity of canine cardiac muscle through a direct enhancement of troponin C  $\text{Ca}^{2+}$  binding by MCI-154, a novel cardiotonic agent  
Kitada, Y., Kobayashi, M., Narimatsu, A. & Ohizumi, Y.  
*J. Pharmacol. Exp. Ther.*, 250, 272-277 (1989)
133. Phosphatidylinositol 4,5-bisphosphate enhances calcium release from sarcoplasmic reticulum of skeletal muscle  
Kobayashi, M., Muroyama, A. & Ohizumi, Y.  
*Biochem. Biophys. Res. Commun.*, 163, 1487-1491 (1989)
134. Histopathological studies on experimental marine toxin poisoning. 4. Pathogenesis of experimental maitotoxin poisoning  
Terao, K., Ito, E., Kakinuma, Y., Igarashi, K., Kobayashi, M., Ohizumi, Y. & Yasumoto, T.  
*Toxicon*, 27, 979-988 (1989)
135. 9-Methyl-7-bromoeudistomin D, a potent inducer of calcium release from sarcoplasmic reticulum of skeletal muscle  
Kobayashi, J., Ishibashi, M., Nagai, U. & Ohizumi, Y.  
*Experientia*, 45, 782-783 (1989)
136. Plakorin, a potent  $\text{Ca}^{2+}$ -ATPase activator from the Okinawan marine sponge *Plakortis* sp  
Murayama, T., Ohizumi, Y., Nakamura, H., Sasaki, T. & Kobayashi, J.  
*Experientia*, 45, 898-899 (1989)

137. Theonelladins A-D, novel antineoplastic pyridine alkaloids from the Okinawan marine sponge *Theonella swinhoei*  
Kobayashi, J., Muroyama, T., Ohizumi, Y., Sasaki, T., Ohta, T. & Nozoe, S. *Tetrahedron Lett.*, 30, 4833-4836 (1989)
138. Cytotoxicmacrorides from a cultured marine dinoflagellate of the genus *Amphidinium*  
Kobayashi, J., Ishibashi, M., Nakamura, H., Ohizumi, Y., Yamasu, T., Hirata, Y., Sasaki, T., Ohta, T. & Nozoe, S.  
*J. Nat. Prod.*, 52, 1036-1041 (1989)
139. Metachromin C, a new cytotoxic sesquiterpenoid from the Okinawan marine sponge *Hippospongia metachromia*  
Kobayashi, J., Muroyama, T., Ohizumi, Y., Ohta, T., Nozoe, S. & Sasaki, T.  
*J. Nat. Prod.*, 52, 1173-1176 (1989)
140. Two novel alkaloids from *Evodia rutaecarpa*  
Shoji, N., Umeyama, A., Iuchi, A., Saito, N., Arihara, S., Nomoto, K., Ohizumi, Y.  
*J. Nat. Prod.*, 52, 1160-1162 (1989)
141. Fasciculic acid A, B and C as calmodulin antagonists from the mushroom *Naematoloma fasciculare*  
Takahashi, A., Kusano, G., Ohta, T., Ohizumi, Y., Nozoe, T.  
*Chem. Pharm. Bull.*, 37, 3247-3250 (1989)
142. Disulfide pairings geographutoxin, a peptide neurotoxin from *Conus geographus*  
Hidaka, Y., Sato, K., Nakamura, H., Kobayashi, J., Ohizumi, Y. & Shimonishi, Y.  
*FEBS Lett.*, 264, 29-32 (1990)
143. Rigidin, a novel alkaloid with calmodulin antagonistic activity from the Okinawan marine tunicate *Eudistoma cf. reigida*  
Kobayashi, J., Cheng, J., Kikuchi, Y., Ishibashi, M., Yamamura, S., Ohizumi, Y., Ohta, T. & Nozoe, S.  
*Tetrahedron Lett.*, 31, 4617-4620 (1990)
144. Eudistomidins B, C and D : Novel antileukemic alkaloids from the Okinawan marine tunicate *Eudistoma glaucus*  
Kobayashi, J., Cheng, J., Ohta, T., Nozoe, S., Ohizumi, Y. & Sasaki, T.  
*J. Org. Chem.*, 55, 3666-3670 (1990)
145. Amphidinolide E, a novel antileukemic 19-membered macrolide from the cultured symbiotic dinoflagellate *Amphidinium sp*  
Kobayashi, J., Ishibashi, M., Murayama, T., Takamatsu, M., Iwamura, M., Ohizumi, Y. & Sasaki, T.  
*J. Org. Chem.*, 55, 3421-3423 (1990)

146. Ageliferins, potent actomyosin ATPase activators from the Okinawan marine sponge *Agelas* sp  
Kobayashi, J., Tsuda, M., Murayama, T., Nakamura, H., Ohizumi, Y., Ishibashi, M., Iwamura, M., Ohta, T. & Nozoe, S.  
*Tetrahedron*, 46, 5579-5586 (1990)
147. Nipha-tesines A-D, new antineoplastic pyridine alkaloids from Okinawan marine sponge *Niphates* sp  
Kobayashi, J., Murayama, T., Kosuge, S., Kanda, F., Ishibashi, M., Kobayashi, H., Ohizumi, Y., Ohta, T., Nozoe, S. & Sasaki, T.  
*J. Chem. Soc. Perkin Trans 1*, 3301-3303 (1990)
148. Hyrtiosins A and B, new indole alkaloids from the Okinawan marine sponge *Hyrtios erecta*  
Kobayashi, J., Murayama, T., Ishibashi, M., Kosuge, S., Takamatsu, M., Ohizumi, Y., Kobayashi, H., Ohta, T., Nozoe, S. & Sasaki, T.  
*Tetrahedron*, 46, 7699-7702 (1990)
149. Penaresin, a new sarcoplasmic reticulum Ca-inducer from the Okinawan marine sponge *Penares* sp  
Kobayashi, J., Cheng, J., Yamamura, S., Sasaki, T. & Ohizumi, Y.  
*Heterocycles*, 31, 2205-2208 (1990)
150. Structure of halipanicine, a new sesquiterpene isothiocyanate from the Okinawan marine sponge *Halichondria panicea* (Pallas)  
Nakamura, H., Deng, S., Takamatsu, M., Kobayashi, J., Ohizumi, Y. & Hirata, Y.  
*Aglic. Biol. Chem.*, 55, 581-583 (1991)
151. 9-Methyl-7-bromoeudistomin D, a powerful radio-labelable  $\text{Ca}^{++}$  releaser having caffeine-like properties, acts on  $\text{Ca}^{++}$ -induced  $\text{Ca}^{++}$  release channels of sarcoplasmic reticulum  
Seino, A., Kobayashi, M., Kobayashi, J., Fang, Y., Ishibashi, M., Nakamura, H., Momose, K. & Ohizumi, Y.  
*J. Pharmacol. Exp. Ther.*, 256, 861-867 (1991)
152. Mechanism of inotropic action of xestoquinone, a novel cardiotonic agent isolated from a sea sponge  
Kobayashi, M., Nakamura, H., Kobayashi, J. & Ohizumi, Y.  
*J. Pharmacol. Exp. Ther.*, 257, 82-89 (1991)
153. Xestoquinone, a novel cardiotonic agent activates actomyosin ATPase to enhance contractility of skinned cardiac or skeletal muscle fibers  
Kobayashi, M., Muroyama, A., Nakamura, H., Kobayashi, J. & Ohizumi, Y.

- J. Pharmacol. Exp. Ther.*, 257, 90-94 (1991)
154. Active site of  $\mu$ -conotoxin G III A, a peptide blocker of muscle sodium channels  
Sato, K., Ishida, Y., Wakamatsu, K., Kato, R., Honda, H., Ohizumi, Y., Nakamura, H., Ohya, M., Lancelin, J., Kohda, D. & Inagaki, F.  
*J. Biol. Chem.*, 266, 16989-16991 (1991)
155. Keramamide A, a nobel peptide from the Okinawan marine sponge *Theonella* sp  
Kobayashi, J., Sato, M., Ishibashi, M., Shigemori, H., Nakamura, T. & Ohizumi, Y.  
*J. Chem. Soc., Perkin Trans 1*, 2609-2611 (1991)
156. Kobamide, a novel peptide with calmodulin antagonistic activity from the Okinawan marine sponge *Theonella* sp  
Kobayashi, J., Sato, M., Murayama, T., Ishibashi, M., Walchi, M. R., Kanai, M., Shoji, J. & Ohizumi, Y.  
*J. Chem. Soc., Chem. Commun.*, 1050-1052 (1991)
157. A potent actomyosin ATPase activator from the Okinawan marine sponge *Agelas* cf. *nemoechinata*  
Kobayashi, J., Tsuda, M. & Ohizumi, Y.  
*Experientia*, 47, 301-304 (1991)
158. Purealidin A, a new cytotoxic bromotyrosine-derived alkaloid from the Okinawan marine sponge *Psammaphysilla purea*  
Ishibashi, M., Tsuda, M., Ohizumi, Y., Sasaki, T. & Kobayashi, J.  
*Experientia*, 47, 299-300 (1991)
159. Penaresidin A and B, two nobel azetidine alkaloids with potent actomyosin ATPase-activating activity from the Okinawan marine sponge *Penares* sp  
Kobayashi, J., Cheng, J. F., Ishibashi, M., Walchli, M. R., Yamamura, S. & Ohizumi, Y.  
*J. Chem. Soc., Perkin Trans 1*, 1135-1137 (1991).
160. Structure and stereochemistry of brianolide, a new antiinflammatory diterpenoid from the Okinawan gorgonian *Briareum* sp  
Kobayashi, J., Cheng, J. F., Nakamura, H., Ohizumi, Y., Tomotake, Y., Matsuzaki, T., Grace, K. J. S., Jacobs, R. S., Kato, Y., Brinen, L. S. & Clardy, J.  
*Experientia*, 47, 501-502 (1991)
161. Structure of halipanicine, a new sesquiterpene isothiocyanate from the Okinawan marine sponge *Halichondria panicea* (pallas)  
Nakamura, H., Deng, S., Takamatsu, M., Kobayashi, J., Ohizumi, Y. & Hirata, Y.  
*Agric. Biol. Chem.*, 55, 581-583 (1991)
162. An Antidepressant principle of *Lobelia inflata* L. (Campanulaceae)

- Subarnas, A., Oshima, Y., Sidik. & Ohizumi, Y.  
*J. Pharm. Sci.*, 81, 620-621 (1992)
163. Untenic acid, a novel  $\text{Ca}^{2+}$ -ATPase activator from an Okinawan marine sponge  
Shoji, N., Umeyama, A., Kishi, K., Arihara, S., Ohizumi, Y. & Kobayashi., J.  
*Aust. J. Chem.*, 45, 793-795 (1992)
164. Structure of periodate oxidation products with characteristic partial structures of  
zooxanthellatoxin-A, a potent vasoconstrictive polyol from a symbiotic dinoflagellate  
Nakamura, H., Asari, T., Murai, A., Kondo, T., Yoshida, K.& Ohizumi, Y.  
*J. Org. Chem.*, 58, 313-314 (1993)
165. A possible mechanism of antidepressant activity of beta-amyrin palmitate isolated  
from *Loberia inflata* leaves in the forced swimming test  
Subarnas, A., Tadano, T., Nakahata, N., Arai, Y., Kinemuchi, H., Oshima, Y., Kisara,  
K. & Ohizumi, Y.  
*Life Sci.*, 52, 289-296 (1993)
166. Pharmacological properties of  $\beta$ -amyrin palmitate, a novel centrally acting compound,  
isolated from *Lobelia inflata* leaves  
Subarnas, A., Tadano, T., Oshima, Y., Kisara, K. & Ohizumi, Y.  
*J. Pharm. Pharmacol.*, 45, 545-550 (1993)
167.  $\text{Ca}^{2+}$ -dependent aggregation of rabbit platelets induced by maitotoxin, a potent marine  
toxin, isolated from a dinoflagellate  
Watanabe, A., Ishida, Y., Honda, H., Kobayashi, M & Ohizumi, Y.  
*Br. J. Pharmacol.*, 109, 29-36 (1993)
168. Vitisin A and cis-vitisin A, strongly hepatotoxic plant oligostilbenes, from *Vitis*  
*coignetiae* (Vitaceae)  
Oshima, Y., Kamijou, A., Moritani, H., Namao, K. & Ohizumi, Y.  
*J. Org. Chem.*, 58, 850-853 (1993)
169. Isolation of zooxanthellatoxins, novel vasoconstrictive substances from the  
zooxanthella *Symbiodinium* sp  
Nakamura, H., Asari, T., Ohizumi, Y., Kobayashi, J. Yamasu, T. & Murai, A.  
*Toxicon*, 31, 371-376 (1993)
170. Isolation and characterization of phospholipase A<sub>2</sub> from *Agkistrodon bilineatus*  
(common cantil) venom  
Nikai, T., Komori, Y., Yagihashi, S., Ohara, A., Ohizumi, Y. & Sugihara, H.  
*Int. J. Biochem.*, 25, 879-884 (1993)
171. An  $\alpha$ -adrenoceptor -mediated mechanism of hypoactivity induced by  $\beta$ -amyrin  
palmitate

- Subarnas, A., Tadano, T., Kisara, K. & Ohizumi, Y.  
*J. Pharm. Pharmacol.* 45, 1006-1008 (1993)
172. High affinity binding of 9-[<sup>3</sup>H]methyl-7-bromoeudistomin D to the caffeine-binding site of skeletal muscle sarcoplasmic reticulum  
Fang, Y., Adachi, M., Kobayashi, J. & Ohizumi, Y.  
*J. Biol. Chem.*, 268, 18622-18625 (1993)
173. Goniodomin A induces modulation of actomyosin ATPase activity mediated through conformational change of actin  
Furukawa, K.-I., Sakai, K., Watanabe, S., Maruyama, K., Murakami, M., Yamaguchi, K. & Ohizumi, Y.  
*J. Biol. Chem.*, 268, 26026-26031 (1993)
174. 葛根湯, 小柴胡湯および麻黃湯のウサギ培養アストロサイトにおけるプロスタグランジン生成およびイノシトールリン脂質水解への作用  
中畠則道, 石本裕美, 大泉 康, 中西弘則  
*漢方医学*, 17, 12-19 (1993)
175. Characterization and amino-terminal sequence of phospholipase A<sub>2</sub>-II from the venom of *Agkistrodon bilineatus* (Common cantil)  
Nikai, T., Komori, Y., Ohara, A., Yagihashi, S., Ohizumi, Y. & Sugihara, H.  
*Int. J. Biochem.*, 26, 43-48 (1994)
176. A monogalactosyl diacylglycerol from a cultured marine dinoflagellate, *Scrippsiella trochoidea*  
Oshima, Y., Yamada S.-H., Matsunaga, K., Moriya, T. & Ohizumi, Y.  
*J. Nat. Prod.*, 57, 534-536 (1994)
177. Properties of the binding sites of [<sup>3</sup>H]9-methyl-7-bromoeudistomin D in bovine aortic smooth muscle microsomes  
Adachi, M., Fang, Y., Yamakuni, T., Kobayashi, J. & Ohizumi, Y.  
*J. Pharm. Pharmacol.*, 46, 771-773 (1994)
178. Tissue-and subcellular-distribution of the binding site of [<sup>3</sup>H]9-methyl-7-bromoeudistomin D, a potent caffeine-like Ca<sup>2+</sup> releaser in rabbits  
Adachi, M., Kakubari, M. & Ohizumi, Y.  
*J. Pharm. Pharmacol.*, 46, 774-776 (1994)
179. The specific binding site of 9-[<sup>3</sup>H]methyl-7- bromoeudistomin D, a caffeine-like Ca<sup>2+</sup> releaser, in liver microsomes is distinct from that in skeletal sarcoplasmic reticulum  
Adachi, M., Kakubari, M. & Ohizumi, Y.  
*Biol. Chem. Hoppe-Seylar.*, 375, 183-187 (1994)
180. Dual effects of mastoparan on intracellular free Ca<sup>2+</sup> concentrations in human

astrocytoma cells

Nakahata, N., Ishimoto, H., Mizuno, K., Ohizumi, Y. & Nakanishi, H.

*Br. J. Pharmacol.*, 112, 299-303 (1994)

181. 3',3",5',5"-tetraiodophenolsulfonephthalein is a selective inhibitor of  $\text{Ca}^{2+}$ -pumping ATPase in intracellular  $\text{Ca}^{2+}$  store  
Seino, A., Furukawa, K.-I., Miura, T., Yaginuma, T., Momose, K. & Ohizumi, Y.  
*J. Biol. Chem.*, 269, 17550-17555 (1994)
182. Cylindrene, a novel sesquiterpenoid from *Imperata cylindrica* with inhibitory activity on contractions of vascular smooth muscle  
Matsunaga, K., Shibuya, M. & Ohizumi, Y.  
*J. Nat. Prod.*, 57, 1183-1184 (1994)
183. Calsequestrin is a major binding protein of myotoxin  $\alpha$  and an endogenous  $\text{Ca}^{2+}$  releaser in sarcoplasmic reticulum  
Ohkura, M., Furukawa, K.-I., Anthony T. Tu. & Ohizumi, Y.  
*Eur. J. Pharmacol. Mol. Pharmacol. Section*, 268, R1-R2 (1994)
184.  $\text{Ca}^{2+}$  release induced by myotoxin  $\alpha$ , a radio-labellable probe having novel  $\text{Ca}^{2+}$  release properties in sarcoplasmic reticulum  
Furukawa, K.-I., Funayama, K., Ohkura, M., Oshima, Y., Tu, A. T. & Ohizumi, Y.  
*Br. J. Pharmacol.*, 113, 233-239 (1994)
185. Cylindol A, a novel biphenyl ether with 5-lipoxygenase inhibitory activity, and a related compound from *Imperata cylindrica*  
Matsunaga, K., Ikeda, M., Shibuya, M. & Ohizumi, Y.  
*J. Nat. Prod.*, 57, 1290-1293 (1994)
186. Graminone B, a novel lignan with vasodilative activity from *Imperata cylindrica*.  
Matsunaga, K., Shibuya, M. & Ohizumi, Y.  
*J. Nat. Prod.*, 57, 1734-1736 (1994)
187. Powerful hepatoprotective and hepatotoxic plant oligostilbenes, isolated from the Oriental medicinal plant *Vitis coignetiae* (Vitaceae)  
Oshima, Y., Namao, K., Kamijou, A., Matsuoka, S., Nakano, M., Terao, K. & Ohizumi, Y.  
*Experientia*, 51, 63-66 (1995)
188. The properties of specific binding site of  $^{125}\text{I}$ -radioiodinated myotoxin  $\alpha$ , a novel  $\text{Ca}^{++}$  releasing agent, in skeletal muscle sarcoplasmic reticulum  
Ohkura, M., Furukawa, K.-I., Oikawa, K. & Ohizumi, Y.  
*J. Pharmacol. Exp. Ther.*, 273, 934-939 (1995)
189. Structure-activity relationship of bromoeudistomin D, a powerful  $\text{Ca}^{2+}$  releaser in

- skeletal muscle sarcoplasmic reticulum  
Takahashi, Y., Furukawa, K.-I., Ishibashi, M., Kozutsumi, D., Ishiyama, H., Kobayashi, J. & Ohizumi, Y.  
*Eur. J. Pharmacol. Mol. Pharmacol. Section* 288, 285-293 (1995)
190. Antidepressant principles of *Valeriana fauriei* Roots  
Oshima, Y., Matsuoka, S. & Ohizumi, Y.  
*Chem. Pharm. Bull.*, 43(1), 169-170 (1995)
191. Imperanene, a novel phenolic compound with platelet aggregation inhibitory activity from *Imperata cylindrica*  
Matsunaga, K., Shibuya, M. & Ohizumi, Y.  
*J. Nat. Prod.*, 58, 138-139 (1995)
192. 4,6-Dibromo-3-hydroxycarbazole(an analogue of caffeine-like  $\text{Ca}^{2+}$  releaser) , a novel type of inhibitors of  $\text{Ca}^{2+}$ -induced  $\text{Ca}^{2+}$  release in skeletal muscle sarcoplasmic reticulum  
Takahashi, Y., Furukawa, K.-I., Kozutsumi, D., Ishibashi, M., Kobayashi, J. & Ohizumi, Y.  
*Br. J. Pharmacol.*, 114, 941-948 (1995)
193. Zooxanthellatoxin-A, a potent vasoconstrictive 62-membered lactone from a symbiotic dinoflagellate  
Nakamura, H., Asari, T., Murai, A., Kan, Y., Kondo, T., Yoshida, K. & Ohizumi, Y.  
*J. Am. Chem. Soc.*, 117, 550-551 (1995)
194. Calsequestrin is essential for the  $\text{Ca}^{2+}$  release induced by myotoxin  $\alpha$  in skeletal muscle sarcoplasmic reticulum  
Ohkura, M., Ide, T., Furukawa, K.-I., Kawasaki, T., Kasai, M. & Ohizumi, Y.  
*Can. J. Physiol. Pharmacol.*, 73, 1181-1185 (1995)
195. Activation of rabbit platelets by  $\text{Ca}^{2+}$  influx and thromboxane A<sub>2</sub> release in an external  $\text{Ca}^{2+}$ -dependent manner by Zooxanthellatoxin-A, a novel polyol. Rho, M.-C., Nakahata, N., Nakamura, H., Murai, A. & Ohizumi, Y.  
*Br. J. Pharmacol.*, 115, 433-440 (1995)
196. Mastoparan-induced phosphatidyl-choline hydrolysis by phospholipase D activation in human astrocytoma cells  
Mizuno, K., Nakahata, N. & Ohizumi, Y.  
*Br. J. Pharmacol.*, 116, 2090-2096 (1995)
197. G<sub>q/11</sub> communicates with thromboxane A<sub>2</sub> receptors in human astrocytoma cells, rabbit astrocytes and human platelets  
Nakahata, N., Miyamoto, A., Ohkubo, S., Ishimoto, H., Sakai, K., Nakanishi, H.,

- Ohshika, H. & Ohizumi, Y.  
*Res. Commun. Mol. Pathol., Pharmacol.*, 87, 243-251 (1995)
198. Xestoquinone activates skeletal muscle actomyosin ATPase by modification of the specific sulfhydryl group in the myosin head probably distinct from sulfhydryl groups SH<sub>1</sub> and SH<sub>2</sub>  
Sakamoto, H., Furukawa, K.-I., Matsunaga, K., Nakamura, H. & Ohizumi, Y.  
*Biochemistry*, 34, 12570-12575 (1995)
199. [<sup>3</sup>H]9-Methyl-7-bromoeudistomin D, a caffeine-like powerful Ca<sup>2+</sup> releaser, binds to caffeine-binding sites distinct from the ryanodine receptors in brain microsomes  
Yoshikawa, K., Furukawa, K.-I., Yamamoto, M., Momose, K. & Onizumi, Y.  
*FEBS Lett.*, 373, 250-254 (1995)
200. Zooxanthellatoxin-B, vasoconstrictive congener of Zooxanthellatoxin-A from a symbiotic Dinoflagellate *Symbiodinium* sp  
Nakamura, H., Asari, T., Fujisaki, K., Maruyama, K., Murai, A., Ohizumi, Y. & Kan, Y.  
*Tetrahedron Lett.*, 36, 7255-7258 (1995)
201. Primary structure of the lectin from the venom of *Bitis arietans* (Puff-adder)  
Nikai, T., Suzuki, J., Komori, Y., Ohkura, M., Ohizumi, Y. & Sugihara, H.  
*Biol. Pharm. Bull.*, 18, 1620-1622 (1995)
202. Novel Oligostilbenes from *Vitis coignetiae*  
Osima, Y., Kamijou, A., Ohizumi, Y., Niwa, M., Ito, J., Hisamichi, K. & Takeshita, M.  
*Tetrahedron*, 51, 11979-11986 (1995)
203. Mastoparan elicits prostaglandin E<sub>2</sub> generation and inhibits inositol phosphate accumulation via different mechanisms in rabbit astrocytes  
Nakahata, N., Imata, K., Okawa, T., Watanabe, Y., Ishimoto, H., Ono, T., Ohizumi, Y. & Nakanishi, H.  
*Biochim. Biophys. Acta*, 1310, 60-66 (1996)
204. Homologous desensitization of thromboxane A<sub>2</sub> receptor in 1321N1 human astrocytoma cells  
Sakai, K., Nakahata, N., Ono, H., Yamamoto, T. & Ohizumi, Y.  
*J. Pharmacol. Exp. Ther.*, 276, 829-836 (1996)
205. Comparison of tBuBHQ with chemotactic peptide and phorbol ester in O<sub>2</sub>-production in HL-60 cells  
Tsukii, K., Nakahata, N., Watanabe, K., Tsurufuji, S. & Ohizumi, Y.  
*Eur. J. Pharmacol.*, 298, 87-95 (1996)

206. Thromboxane A<sub>2</sub>-mediated shape change: independent of Gq-phospholipase C-Ca<sup>2+</sup> pathway in rabbit platelets  
Ohkubo, S., Nakahata, N. & Ohizumi, Y.  
*Br. J. Pharmacol.*, 117, 1095-1104 (1996).
207. ML-7 and W-7 facilitate thromboxane A<sub>2</sub>-mediated Ca<sup>2+</sup> mobilization in rabbit platelets.  
Ohkubo, S., Nakahata, N. & Ohizumi, Y  
*Eur. J. Pharmacol.*, 298, 175-183 (1996)
208. The mechanism of acidic pH-induced contraction in aorta from SHR and WKY rats enhanced by increasing blood pressure  
Furukawa, K.-I., Komaba, J., Sakai, H. & Ohizumi, Y.  
*Br. J. Pharmacol.*, 118, 485-492 (1996)
209. Properties of Ca<sup>++</sup> release induced by puff adder lectin, a novel lectin from the Snake *Bitis arietans*, in sarcoplasmic reticulum  
Ohkura, M., Miyashita, Y., Nikai, T., Suzuki, J., Komori, Y., Sugihara, H. & Ohizumi, Y.  
*J. Pharmacol. Exp. Ther.*, 277, 1043-1048 (1996)
210. A novel monogalactosyl acylglycerol with inhibitory effect on platelet aggregation from the cyanophyceae *Oscillatoria rosea*  
Rho, M.-C., Matsunaga, K., Yasuda, K. & Ohizumi, Y.  
*J. Nat. Prod.*, 59, 308-309 (1996)
211. The mode of rabbit platelet shape change and aggregation induced by theonezolide A, a novel polyketide macrolide, isolated from the Okinawan marine sponge *Theonella* sp  
Rho, M.-C., Park., Y.-H., Sasaki, S., Ishibashi, M., Kondo, K., Kobayashi, J. & Ohizumi, Y.  
*Can. J. Physiol. Pharmacol.*, 74, 193-199 (1996)
212. Acanthostral, a novel antineoplastic cis, cis, cis-germacranolide from *Acanthospermum australe*  
Matsunaga, K., Saitoh, M. & Ohizumi, Y.  
*Tetrahedron Lett.*, 37, 1455-1456 (1996)
213. Characteristics of <sup>45</sup>Ca<sup>2+</sup> release induced by quinolidmicin A<sub>1</sub>, a 60-membered macrolide from skeletal muscle sarcoplasmic reticulum. Ohkura, M., Miyashita, Y., Kakubari, M., Hayakawa, Y., Seto, H. & Ohizumi, Y.  
*Biochim. Biophys. Acta*, 1294, 177-182 (1996)
214. Stimulation of sarcoplasmic reticulum Ca<sup>2+</sup>-ATPase by gingerol analogues

- Ohizumi, Y., Sasaki, S., Shibusawa, K., Ishikawa, K. & Ikemoto, F.  
*Biol. Pharm. Bull.*, 19, 1377-1379 (1996)
215. Ptilomycalin A, a novel  $\text{Na}^+$ ,  $\text{K}^+$ - or  $\text{Ca}^{2+}$ -ATPase inhibitor, competitively interacts with ATP at its binding site  
Ohizumi, Y., Sasaki, S., Kusumi, T. & Ohtani, I.-I.  
*Eur. J. Pharmacol.*, 310, 95-98 (1996)
216. Characteristics of  $\text{Ca}^{2+}$ -release for activation of  $\text{K}^+$  current and contractile system in some smooth muscles  
Imaizumi, Y., Henmi, S., Uyama, Y., Atsuki, K., Torii, Y., Ohizumi, Y., & Watanabe, M.  
*Am. J. Physiol.*, 271 C 772-782 (1996)
217. The mode of inhibitory action of  $\alpha$ -mangostin, a novel inhibitor on sarcoplasmic reticulum  $\text{Ca}^{2+}$ -pumping ATPase from rabbit skeletal muscle  
Furukawa, K.-I., Shibusawa, K., Chairungsrierd, N., Ohta, T., Nozoe, S. & Ohizumi, Y.  
*Jpn. J. Pharmacol.*, 71, 337-340 (1996)
218. Histaminergic and serotonergic receptor blocking substances from the medicinal plant *Garcinia mangostana*  
Chairungsrierd, N., Furukawa, K.-I., Ohta, T., Nozoe, S. & Ohizumi, Y.  
*Planta Med.*, 62, 471-472 (1996)
219. A novel inhibitor of platelet aggregation from the cyanophyceae *Oscillatoria rosea* (NIES-208)  
Rho, M.-C., Matsunaga, K., Yasuda, K. & Ohizumi, Y.  
*Planta Medica*, 62, 473-474 (1996)
220. Garcinol, a new prenyl xanthone from *Garcinia mangostana*  
Chairungsrierd, N., Takeuchi, K., Ohizumi, Y., Nozoe, S. & Ohta, T.  
*Phytochemistry*, 43, 1099-1102 (1996)
221. Pharmacological properties of  $\alpha$ -mangostin, a novel histamine  $\text{H}_1$  receptor antagonist  
Chairungsrierd, N., Furukawa, K.-I., Ohta, T., Nozoe, S. & Ohizumi, Y.  
*Eur. J. Pharmacol.*, 314, 351-356 (1996)
222. Thromboxane  $\text{A}_2$  simulates mitogen-activated protein kinase and arachidonic acid liberation in rabbit platelets  
Ohkubo, S., Nakahata, N. & Ohizumi, Y.  
*Prostaglandins*, 52, 403-413 (1996)
223. A sulfonoglycolipid with  $\text{Na}^+$ ,  $\text{K}^+$ -ATPase inhibitory activity, produced by cultured unique diatom symbiont isolated from a larger foraminifera

- Rho, M.-C., Matsunaga, K., Park, Y.-H., Yasuda, K., Yamasu, T., Mayama, S. & Ohizumi, Y.  
*Planta Medica.*, 62, 552-554 (1996)
224. Tyrphostin 23 blocks Phosphorylation of p42 but not p38 mitogen-activated protein kinase by zooxanthellatoxin-A  
Rho, M.-C., Nakahata, N., Nakamura, H., Murai, A. & Ohizumi, Y.  
*Eur. J. Pharmacol.*, 319, 375-378 (1997)
225. A monogalactopyranosyl acylglycerol from *Oltmannsiellopsis unicellularis*  
Rho, M.-C., Yasuda, K., Matsunaga, K., & Ohizumi, Y.  
*Phytochemistry*, 44.,1507-1509 (1997)
226. Effects of Chinese and Paraguayan medicinal plants on the duration of immobility of mice in the forced swimming test  
Matsunaga, K., Lu, X.-C., Yasuda, H., Ito, M., Takiguchi, T. & Ohizumi, Y.  
*Natural Medicines*, 51,63-66 (1997)
227. Involvement of phospholipase C- $\gamma$ 2 in activation of mitogen-activated protein kinase and phospholipase A<sub>2</sub> by zooxanthellatoxin-A in rabbit platelets  
Rho, M.-C., Nakahata, N., Nakamura, H., Murai, A., & Ohizumi, Y.  
*J. Pharmacol. Exp. Ther.*, 282, 496-504 (1997)
228. Excitatory and inhibitory effects of paraguayan medicinal plants *Equisetum giganteum*, *Acanthospermum australe*, *Allophylus edlis* and *Cordia salicifolia* on contraction of rabbit aorta and guinea-pig left atrium  
Matsunaga, K., Sasaki, S., & Ohizumi, Y.  
*Natural Medicines*, 51, 478-481 (1997)
229. Purealin blacks the sliding movement of sea urchin flagellar axonemes by selective inhibition of half the ATPase activity of axonemal dyneins  
Fang, Y.-I., Yokota, E., Mabuchi, I., Nakamura, H., & Ohizumi, Y.  
*Biochemistry*, 36, 15561-15567 (1997)
230. The mechanism of rabbit platelet aggregation induced by 2,5-Di-(*tert*-butyl)-1,4-benzohydroquinone, an inhibitor of endoplasmic reticulum Ca<sup>2+</sup>-ATPase  
Furukawa, K.-I., Matsuzawa, M., Tsurufuji, S., Watanabe, K., & Ohizumi, Y.  
*Jpn. J. Pharmacol.*, 75, 295-298 (1997)
231. Dual effect of mastoparan on phospholipase D activity in RBL-2H3 cells.  
Mizuno, K., Nakahata, N. & Ohizumi, Y.  
*Res. Commun. Pharmacol. Toxicol.*, 2, 219-228 (1997)
232. Two distinct effects of 12S-hydroxyeicosatetraenoic acid on platelet aggregation by zooxanthellatoxin-A and ionomycin

- Rho, M.-C., Nakahata, N. & Ohizumi, Y.  
*Jpn. J. Pharmacol.*, 76, 117-120 (1998)
233. The powerful stimulatory action of 6-O-acetyl-9-methyl-7-bromoeudistomin D on the contractile protein system of rabbit skeletal muscle  
Ohizumi, Y., Matsunaga, K., Nakatani, K. & Kobayashi, J.-I.  
*Jpn. J. Pharmacol.*, 76, 113-116(1998)
234.  $\gamma$ -Mangostin, a novel type of 5-hydroxytryptamine<sub>2A</sub> receptor antagonist  
Chairungsrierd, N., Furukawa, K.-I., Ohta, T., Nozoe, S. & Ohizumi, Y.  
*Naunyn-Schmiedeberg's Arch. Pharmacol.*, 357, 25-31 (1998)
235. Effect of  $\gamma$ -mangostin through the inhibition of 5-hydroxytryptamine<sub>2A</sub> receptors in 5-fluoro- $\alpha$ -methyltryptamine-induced head-twitch responses of mice  
Chairungsrierd, N., Furukawa, K.-I., Tadano, T., Kisara, K. & Ohizumi. Y.  
*Br. J. Pharmacol.*, 123, 855-862 (1998)
236. Central action of 9-methyl-7-bromoeudistomin D (MBED), a derivative of eudistomine D isolated from *Eudistoma olivaceum*  
Tadano, T., Takahashi, N., Nakagawasaki, O., Tan-no, K., Kaneko, S., Matsunaga, K., Ohizumi, Y. & Kisara, K.  
*Meth. Find. Exp. Clin. Pharmacol.*, 20(1), 53-58 (1998)
237. Potent stimulation of myofilament force and ATPase activity of skeletal muscle by eudistomin M, a novel Ca<sup>2+</sup>-sensitizing agent from a Caribbean tunicate  
Ohizumi, Y., Matsunaga, K., Nakatani, K. & Kobayashi, J.-I.  
*J. Pharmacol. Exp. Ther.*, 285, 695-699 (1998)
238. Modulation of actomyosin ATPase by goniodomin A differs in types of cardiac myosin  
Yasuda, M., Nakatani, K., Matsunaga, K., Murakami, M., Momose, K. & Ohizumi, Y.  
*Eur. J. Pharmacol.*, 346, 119-123 (1998)
239. Characterization of mastoparan-induced histamine release from RBL-2H3 cells  
Mizuno, K., Nakahata, N. & Ohizumi, Y.  
*Toxicon*, 36, 447-456 (1998)
240. Human astrocytoma cells express two thromboxane A<sub>2</sub> receptor subtypes that communicate with G<sub>q</sub> and G<sub>12</sub>  
Honma, S., Nakahata, N. & Ohizumi, Y.  
*Prostaglandins*, 55, 159-168 (1998)
241. Goniodomin A, an antifungal polyether macrolide, increases the filamentous-actin content in 1321N1 human astrocytoma cells

- Mizuno, K., Nakahata, N., Ito, E., Murakami, M., Yamaguchi, K. & Ohizumi, Y.  
*J. Pharm. Pharmacol.*, 50, 645-648 (1998)
242. Vasoconstriction induced by zooxanthellatoxin-B, a polyoxygenated long-chain product from marine alga  
Moriya, T., Ishida, Y., Nakamura, H., Asari, T., Murai, A. & Ohizumi, Y.  
*Eur. J. Pharmacol.*, 350, 59-65 (1998)
243. Effects of Kakkon-to, Mao-to, Tokaku-joki-to and San'o-shashin-to on prostaglandin E<sub>2</sub> release from C6 rat glioma cells  
Nakahata, N., Kutsuwa, M., Kyo, R., Kubo, M., Hayashi, K. & Ohizumi, Y.  
*J. Trad. Med.*, 15, 116-122, (1998)
244. Dual regulation of the skeletal muscle ryanodine receptor by triadin and calsequestrin  
Ohkura, M., Furukawa, K.-I., Fujimori, H., Kuruma, A., Kawano, S., Hiraoka, M.,  
Kuniyasu, A., Nakayama, H. & Ohizumi, Y.  
*Biochemistry*, 37, 12987-12993 (1998)
245. Scabronine A, a novel diterpenoid having potent inductive activity of the nerve growth factor synthesis, isolated from the Mushroom, *Sarcodon scabrosus*  
Ohta, T., Kita, T., Kobayashi, N., Obara, Y., Nakahata, N., Ohizumi, Y., Takaya, Y.  
& Oshima, Y.  
*Tetrahedron Lett.*, 39, 6229-6232 (1998)
246. Effects of Sho-saiko-to, San, o-shashin-to and scutellariae radix on intracellular Ca<sup>2+</sup> mobilization in C6 rat glioma cells  
Kyo, R., Nakahata, N., Sakakibara, I., Kubo, M. & Ohizumi, Y.  
*Biol. Pharm. Bull.*, 21, 1067-1071 (1998)
247. 9-Methyl-7-bromoeudistomin D induces Ca<sup>2+</sup> release from cardiac sarcoplasmic reticulum  
Seino-Umeda, A., Fang, Y., Ishibashi, M., Kobayashi, J. & Ohizumi, Y.  
*Eur. J. Pharmacol.*, 357, 261-265 (1998)
248. A comparative study of Kakkon-to and Keishi-to on prostaglandin E<sub>2</sub> release from rabbit astrocytes  
Kutsuwa, M., Nakahata, N., Kubo, M., Hayashi, K. & Ohizumi, Y.  
*Phytomedicin.*, 5(4), 275-282 (1998)
249. Medium change amplifies mitogen activated protein kinase-mediated prostaglandin E<sub>2</sub> synthesis in Swiss 3T3 fibroblasts  
Nakatani, K., Nakahata, N., Hamada, Y., Tsurufuji, S. & Ohizumi, Y.  
*Eur. J. Pharmacol.*, 356, 91-100 (1998)
250. Properties of specific binding site of myotoxin a, a powerful convulsant, in brain

microsomes

Katagiri, C., Ishikawa, H-H., T Ohkura, M., Nakagawasaki, O., Tadano, T., Kisara, K. & Ohizumi, Y.

*Can. J. Physiol. Pharmacol.*, 76, 395-400 (1998)

251. A new factor derived from 1321N1 human astrocytoma cells causes differentiation of PC-12 cells mediated through MAPK cascade  
Obara, Y., Nakahata, N. & Ohizumi, Y.  
*Brain. Res.*, 806, 79-88 (1998)
252. Baicalin and baicalein, constituents of an important medicinal plant, inhibit intracellular  $\text{Ca}^{2+}$  elevation by reducing phospholipase C activity in C6 rat glioma cells  
Kyo, R., Nakahata, N., Sakakibara, I., Kubo, M. & Ohizumi, Y.  
*J. Pharm. Pharmacol.*, 50, 1179-1182 (1998)
253. Analysis of inhibitory effects of scutellariae radix and baicalein on prostaglandin E<sub>2</sub> production in rat C6 glioma cells  
Nakahata, N., Kutsuwa, M., Kyo, R., Kubo, M., Hayashi, K. & Ohizumi, Y.  
*Am. J. Chin. Med.*, 26, 311-323 (1998)
254.  $\text{Ca}^{2+}$ -independent synergistic augmentation of  $\text{O}_2$ -production by FMLP and PMA in HL-60 cells  
Tsukii, K., Nakahata, N., Tsurufuji, S. & Ohizumi, Y.  
*Can. J. Physiol. Pharmacol.*, 76, 1024-1032 (1998)
255. Amphidinolide B, a powerful activator of actomyosin ATPase enhances skeletal muscle contraction  
Matsunaga, K., Nakatani, K., Ishibashi, M., Kobayashi, J. & Ohizumi, Y.  
*Biochim. Biophys. Acta*, 1427, 24-32 (1999)
256. Stimulation of neurotrophic factor secretion from 1321N1 human astrocytoma cells by novel diterpenoids, scabronines A and G  
Obara, Y., Nakahata, N., Kita, T., Takaya, Y., Kobayashi, H., Hosoi, S., Kiuchi, F., Ohta, T., Oshima, Y. & Ohizumi, Y.  
*Eur. J. Pharmacol.*, 370, 79-84 (1999)
257. Properties of amentoflavone, a potent caffeine-like  $\text{Ca}^{2+}$  releaser in skeletal muscle sarcoplasmic reticulum  
Suzuki, A., Matsunaga, K., Mimaki, Y., Sashida, Y. & Ohizumi, Y.  
*Eur. J. Pharmacol.*, 372, 97-102 (1999)
258. A new scorpion toxin (BmK-PL) stimulates  $\text{Ca}^{2+}$ -release channel activity of the skeletal muscle ryanodine receptor by an indirect mechanism

- Kuniyasu, A., Kawano, S., Hirayama, Y., Ji, Y-H., Xu, K., Ohkura, M., Furukawa, K., Ohizumi, Y., Hiraoka, M. & Nakayama, H.  
*Biochem. J.*, 339, 343-350 (1999)
259. Comparison of maitotoxin with thromboxane A<sub>2</sub> in rabbit platelet activation  
Nakahata, N., Ohkubo, S., Ito, E., Nakano, M., Terao, K. & Ohizumi, Y.  
*Toxicon*, 37, 1375-1389 (1999)
260. Thromboxane A<sub>2</sub>-induced phosphatidylcholine hydrolysis in porcine vascular smooth muscle cells  
Nakahata, N., Takano, H. & Ohizumi, Y.  
*Eur. J. Pharmacol.*, 374, 157-160 (1999)
261. Enhancement of the nerve growth factor-mediated neurite outgrowth from PC12D cells by Chinese and Paraguayan medicinal plants  
Li, P., Matsunaga, K., & Ohizumi, Y.  
*Biol. Pharm. Bull.*, 22, 752-755 (1999)
262. Decrease in thromboxane A<sub>2</sub> receptor expression by differentiation with dibutyryl cyclic AMP in 1321N1 human astrocytoma cells  
Honma, S., Nakahata, N., Kobayashi, H., Ikeda, S., Takeda, N. & Ohizumi, Y.  
*Prostaglandins & other Lipid Mediators*, 58, 51-62 (1999)
263. Identification of 30 kDa protein for Ca<sup>2+</sup> releasing action of myotoxin *a* with a mechanism common to DIDS in skeletal muscle sarcoplasmic reticulum  
Hirata, Y., Nakahata, N., Ohkura, M. & Ohizumi, Y.  
*Biochim. Biophys. Acta*, 1451, 132-140 (1999)
264. Two novel types of calcium release from skeletal sarcoplasmic reticulum by phosphatidylinositol 4, 5-bisphosphate  
Ohizumi, Y., Hirata, Y., Suzuki, A. & Kobayashi, M.  
*Can. J. Physiol. Pharmacol.*, 77, 276-285 (1999)
265. Maitotoxin-induced nerve growth factor production accompanied by the activation of a voltage-insensitive Ca<sup>2+</sup> channel in C6-BU-1 glioma cells  
Obara, Y., Takahashi, M., Nakahata, N. & Ohizumi, Y.  
*Br. J. Pharmacol.*, 127, 1577-1582 (1999)
266. Maitotoxin-induced phosphoinositide hydrolysis is dependent on extracellular but not intracellular Ca<sup>2+</sup> in human astrocytoma cells  
Nakahata, N., Yaginuma, T. & Ohizumi, Y.  
*Jpn. J. Pharmacol.*, 81, 240-243 (1999)
267. Nardosinone, a novel enhancer of nerve growth factor in neurite outgrowth from PC12D cells

- Li, P., Matsunaga, K., Yamamoto, K., Yoshikawa, R., Kawashima, K. & Ohizumi, Y.  
*Neurosci. Lett.*, 273, 53-56 (1999)
268. Structure-activity relationship of gramine derivatives in  $\text{Ca}^{2+}$  release from sarcoplasmic reticulum  
Nakahata, N., Harada, Y., Tsuji, M., Kon-ya, K., Shizuri, Y. & Ohizumi, Y.  
*Eur. J Pharmacol.*, 382, 129-132 (1999)
269. Himehabu lectin, a novel inducer of  $\text{Ca}^{2+}$ -releaser from the venom of the snake *Trimeresurus okinavensis*, in sarcoplasmic reticulum  
Hirata, Y., Ito, M., Nikai, T., Kato, S., Komori, Y., Sugiura, H. & Ohizumi, Y.  
*J. Pharm. Pharmacol.*, 51, 1207-1211 (1999)
270. Powerful activation of skeletal muscle actomyosin ATPase by goniodomin A is highly sensitive to troponin/tropomyosin complex  
Matsunaga, K., Nakatani, K., Murakami, M., Yamaguchi, K. & Ohizumi, Y.  
*J. Pharmacol. Exp. Ther.*, 291, 1121-1126 (1999)
271. Xestoquinone, isolated from sea sponge, causes  $\text{Ca}^{2+}$  release through sulphydryl modification from skeletal muscle sarcoplasmic reticulum  
Ito, M., Hirata, Y., Nakamura H. & Ohizumi, Y.  
*J. Pharmacol. Exp. Ther.*, 291, 976-981 (1999)
272. Antagonism of saikosaponins-induced prostaglandin E<sub>2</sub> release by baicalein in C6 rat glioma cell  
Kyo, R., Nakahata, N., Kodama, Y., Nakai, Y., Kubo, M. & Ohizumi, Y.  
*Biol. Pharm. Bull.*, 22, 1385-1387 (1999)
273. Modulation of actomyosin ATPase by thiotetromycin mediated through conformational change of actin  
Nakatani, K., Murayama, T., Satoh, Y., Furukawa, K., Omura, S. & Ohizumi, Y.  
*Eur. J Pharmacol.*, 383, 381-386 (1999)
274. Thromboxane A<sub>2</sub> receptor-mediated tonic contraction is attributed to an activation of phosphatidylcholine-specific phospholipase C in rabbit aortic smooth muscles  
Nakahata, N., Takano, H. & Ohizumi, Y.  
*Life Sci.*, 66, PL71-76 (2000)
275. Bisprasin, a novel  $\text{Ca}^{2+}$  releaser with caffeine-like properties from a marine sponge, *Dysidea* spp., acts on  $\text{Ca}^{2+}$ -induced  $\text{Ca}^{2+}$  release channels of skeletal muscle sarcoplasmic reticulum  
Suzuki, A., Matsunaga, K., Shin, H., Tabudrav, J., Shizuri, Y. & Ohizumi, Y.  
*J. Pharmacol. Exp. Ther.*, 292, 725-730 (2000)
276. Inhibition of microtubule polymerization by SK&F 96365, a blocker of

- receptor-linked  $\text{Ca}^{2+}$  entry  
Mitsui-Saito, M., Nakahata, N. & Ohizumi, Y.  
*Jpn. J. Pharmacol.*, 82, 269-271 (2000)
277. Isolation of acorane-type sesquiterpenes from the Paraguayan medicinal plant *Elinorus latiflorus* Nees  
Matsunaga, K., Takahashi, A., Watanabe, F. & Ohizumi, Y.  
*Natural Medicines*, 54 , 106 (2000)
278. Involvement of phosphatidylcholine-specific phospholipase C in thromboxane A<sub>2</sub>-induced activation of mitogen-activated protein kinase in astrocytoma cells  
Kobayashi H., Honma, S., Nakahata, N. & Ohizumi, Y.  
*J. Neurochem.*, 74, 2167-2173 (2000)
279. Structure-activity relationships for the  $\text{Ca}^{2+}$ -releasing activity of 6-hydroxy- $\beta$ -carboline analogues in skeletal muscle sarcoplasmic reticulum-The effects of halogen substitution at C-5 and C-7  
Seino-Umeda, A., Ishibashi, M., Kobayashi, J. & Ohizumi, Y.  
*J. Pharm. Pharmacol.*, 52, 517-521 (2000)
280. Identification of a 97-kDa mastoparan-binding protein involving in  $\text{Ca}^{2+}$  release from skeletal muscle sarcoplasmic reticulum  
Hirata, Y., Nakahata N., & Ohizumi, Y.  
*Mol. Pharmacol.*, 57, 1235-1242 (2000)
281. Inhibitory action of Paraguayan medicinal plants on 5-lipoxygenase  
Matsunaga, K., Takahashi, A. & Ohizumi, Y.  
*Natural Medicines*, 54, 151-154 (2000)
282. Nerve growth factor-potentiating compounds from *Picrorhizae Rhizoma*  
Li, P., Matsunaga, K. & Ohizumi, Y.  
*Biol. Pharm. Bull.*, 23, 890-892 (2000)
283. Differentiation of rat pheochromocytoma cells by fomitellic acids, specific DNA polymerase inhibitors  
Obara, Y., Nakahata, N., Mizushina, Y., Sugawara, F., Sakaguchi, K. & Ohizumi, Y.  
*Life Sci.*, 67, 1659-1665 (2000)
284. Ophiobolin A, a novel apoptosis-inducing agent from fungus strain f-7438  
Fujiwara, H., Matsunaga, K., Kumagai, H., Ishizuka, M. & Ohizumi, Y.  
*Pharm. Pharmacol. Commun.*, 6, 427-431 (2000)
285. Potentiation of nerve growth factor-action by picrosides I and II, natural iridoids, in PC12D cells  
Li, P., Matsunaga, K., Yamakuni, T. & Ohizumi, Y.

*Eur. J. Pharmacol.*, 406, 203-208 (2000)

286. Halenaquinone, a novel phosphatidylinositol 3-kinase inhibitor from a marine sponge, induces apoptosis in PC12 cells  
Fujiwara, H., Matsunaga, K., Saito, M., Hagiya, S., Furukawa, K., Nakamura, H. & Ohizumi, Y.  
*Eur. J. Pharmacol.*, 413, 37-45 (2001)
287. Littoralisone, a novel neuritogenic iridolactone having an unprecedented heptacyclic skeleton including four- and nine-membered rings consisting of glucose from *Verbena littoralis*  
Li, Y., Matsunaga, K., Ishibashi, M. & Ohizumi, Y.  
*J. Org. Chem.*, 66, 2165-2167 (2001)
288. Imaging of  $\text{Ca}^{2+}$  release by caffeine and 9-methyl-7-bromoeudistomin D and the associated activation of large conductance  $\text{Ca}^{2+}$ -dependent  $\text{K}^+$  channels in urinary bladder smooth muscle cells of the guinea pig  
Ohi, Y., Atsuki, K., Torii, Y., Ohizumi, Y., Watanabe, M. & Imaizumi, Y.  
*Jpn. J. Pharmacol.*, 85, 382-390 (2001)
289. Constituents of a Paraguayan medicinal plant *Verbena littoralis* H.B.K.  
Li, Y., Matsunaga, K., Kato, R. & Ohizumi, Y.  
*Natural Medicines*, 55, 90 (2001)
290. Scabronine G-methylester enhances secretion of neurotrophic factors mediated by an activation of protein kinase C- $\zeta$   
Obara, Y., Kobayashi, H., Ohta, T., Ohizumi, Y. & Nakahata, N.  
*Mol. Pharmacol.*, 59, 1287-1297 (2001)
291. Verbenachalcone, a novel dimeric dihydrochalcone with potentiating activity on nerve growth factor-action from *Verbena littoralis*  
Li, Y., Matsunaga, K., Kato, R., & Ohizumi, Y.  
*J. Natl. Prod.*, 64, 806-808. (2001)
292. Potentiation of nerve growth factor-induced elongation of neurites by gelsemiol and 9-hydroxysemperoside aglucone in PC12D cells  
Li, Y., Matunaga, K., Kato, R. & Ohizumi, Y.  
*J. Pharm. Pharmacol.*, 53, 915-919 (2001)
293. Two new monoterpenoid peroxide glycosides from *Aster scaber*  
Jung, C. M., Hwon, H. C., Seo, J. J., Ohizumi, Y., Matsunaga, K., Saito, S. & Lee, K. R.  
*Chem. Pharm. Bull.*, 49, 912-914 (2001)
294. Pharmacological studies of geissoschizine methyl ether, isolated from *Uncaria*

- sinensis* Oliv., in the central nervous system  
Pengsuparp, T., Indra, B., Nakagawasaki, O., Tadano, T., Mimaki, Y., Sashida, Y., Ohizumi, Y. & Kisara, K.  
*Eur. J. Pharmacol.*, 425, 211-218 (2001)
295. Novel marine-derived halogen-containing gramine analogues induce vasorelaxation in isolated rat aorta  
Iwata, S., Saito, S., Kon-ya, K., Shizuri, Y. & Ohizumi, Y.  
*Eur. J. Pharmacol.*, 432, 63-70 (2001)
296. Preconditioning of 3T3 cells by fresh medium together with genistein enhances prostaglandin E<sub>2</sub> release  
Nakatani, K., Nakahata, N., Tsurufuji, S. & Ohizumi, Y.  
*Eur. J. Pharmacol.*, 432, 135-142 (2001)
297. Two steroidal saponins from *Camassia cusickii* induce L1210 cell death through the apoptotic mechanism  
Candra, E., Matsunaga, K., Fujiwara, H., Mimaki, Y., Sashida, Y., Yamakuni, T. & Ohizumi, Y.  
*Can. J. Physiol. Pharmacol.*, 79, 953-958 (2001)
298. The vaso-contractile action of zooxanthellatoxin-B from a marine dinoflagellate is mediated via Ca<sup>2+</sup> influx in the rabbit aorta  
Moriya, T., Furukawa, K., Nakamura, H., Murai, A. & Ohizumi, Y.  
*Can. J. Physiol. Pharmacol.*, 79, 1030-1035 (2001)
299. Potent apoptotic effects of saponins from Liliaceae plants in L1210 cells  
Candra, E., Matsunaga, K., Fujiwara, H., Mimaki, Y., Kuroda, M., Sashida, Y. & Ohizumi, Y.  
*J. Pharm. Pharmacol.*, 54, 257-262 (2002)
300. Inhibition of cyclooxygenase and prostaglandin E<sub>2</sub> synthesis by  $\gamma$ -mangostin, a xanthone derivative in mangosteen, in C6 rat glioma cells  
Nakatani, K., Nakahata, N., Arakawa, T., Yasuda, H. & Ohizumi, Y.  
*Biochem. Pharmacol.*, 63, 73-79 (2002)
301. Goniodomin A, an antifungal polyether macrolide, exhibits antiangiogenic activities via inhibition of actin reorganization in endothelial cells  
Abe, M., Inoue, D., Matsunaga, K., Ohizumi, Y., Ueda, H., Asano, T., Murakami, M. & Sato, Y.  
*J. Cell. Physiol.*, 190, 109-116 (2002)
302. Structure-activity relationship studies with ( $\pm$ )-nantenine derivatives for  $\alpha_1$ -adrenoceptor antagonist activity

Indra, B., Matsunaga, K., Hoshino, O., Suzuki, M., Ogasawara, H. & Ohizumi, Y.  
*Eur. J. Pharmacol.*, 437, 173-178 (2002)

303.  $\beta$ -Eudesmol induces neurite outgrowth in rat pheochromocytoma cells, accompanied by an activation of mitogen-activated protein kinase  
Obara, Y., Aoki, T., Kusano, M. & Ohizumi, Y.  
*J. Pharmacol. Exp. Ther.*, 301, 803-811 (2002)
304. Suppressive effect of nantenine, isolated from *Nandina domestica* Thunberg. on the 5-hydroxy-L-tryptophan plus clorgyline-induced head-twitch response in mice  
Indra, B., Tadano, T., Nakagawasaki, O., Arai, Y., Yasuhara, H., Ohizumi, Y. & Kisara, K.  
*Life Sci.*, 70, 2647-2656 (2002)
305. Structure-activity relationship on ( $\pm$ ) -nantenine derivatives in antiserotonergic activities in rat aorta  
Indra, B., Matsunaga, K., Hoshino, O., Suzuki, M., Ogasawara, H., Ishiguro, M. & Ohizumi, Y.  
*Can. J. Physiol. Pharmacol.*, 80, 198-204 (2002)
306. ( $\pm$ ) -Domesticine, a novel and selective  $\alpha_{1D}$ -adrenoceptor antagonist in animal tissues and human  $\alpha_1$ - adrenoceptors.  
Indra, B., Matsunaga, K., Hoshino, O., Suzuki, M., Ogasawara, H., Muramatsu, I., Taniguchi, T. & Ohizumi, Y.  
*Eur. J. Pharmacol.*, 445, 21-29 (2002)
307. Inhibitions of histamine release and prostaglandin E<sub>2</sub> synthesis by mangosteen, a Thai medicinal plant  
Nakatani, K., Atsumi, M., Arakawa, T., Oosawa, K., Shimura, S., Nakahata, N. & Ohizumi, Y.  
*Biol. Pharm. Bull.*, 25, 1137-1141 (2002)
308. Picrosides I and II, selective enhancers of the mitogen-activated protein kinase-dependent signaling pathway in the action of neuritogenic substances on PC12D cells  
Li, P., Matsunaga, K., Yamakuni, T. & Ohizumi, Y.  
*Life Sci.*, 71, 1821-1835 (2002)
309. Glucocorticoid inhibits expression of V-1, a catecholamine biosynthesis regulatory protein, in cultured adrenal medullary cells  
Hiwatashi, Y., Kurahashi, Y., Hatada, R., Ueno, S., Honma, T., Yanagihara, N., Yanase, H., Iwanaga, T., Ohizumi, Y. & Yamakuni, T.

*FEBS Lett.*, 528,166-170 (2002)

310. Stimulated tyrosine phosphorylation of phosphatidylinositol 3-kinase causes acidic pH-induced contraction in spontaneously hypertensive rat aorta.  
Rohra, D.K., Yamakuni, T., Furukawa, K.-I., Ishii, N., Shinkawa, T., Isobe, T. & Ohizumi, Y.  
*J. Pharmacol. Exp. Ther.*, 303, 1255-1264 (2002).
311. Expression of V-1, a novel catecholamine biosynthesis regulatory protein, is enhanced by hypertension in atrial myocytes of Dahl salt-sensitive rats  
Yamakuni, T., Hashimoto, M., Sakagami, H., Yamamoto, T., Kobayashi, M., Fujii, Y., Yamamoto, H., Rohra, D.K., Hiwatashi, Y., Honma, T., Kondo, H., Shido, O. & Ohizumi, Y.  
*Biochem. Biophys. Res. Commun.*, 298, 793-797 (2002)
312. V-1, a catecholamine biosynthesis regulatory protein, positively controls catecholamine secretion in PC12D cells  
Yamakuni, T., Yamamoto, T., Ishida, Y., Yamamoto, H., Song, S.-Y., Adachi, E., Hiwatashi, Y. & Ohizumi, Y.  
*FEBS Lett.*, 530, 94-98 (2002)
313. Functional role of Cl<sup>-</sup> channels in acidic pH-induced contraction of the aorta of spontaneously hypertensive and Wistar Kyoto rats.  
Rohra, D.K., Saito, S. & Ohizumi, Y.  
*Eur. J. Pharmacol.*, 453, 279-286 (2002)
314. Identification of histology and microscopical characters of *Verbena littoralis* H. B. K.  
Li, Y., Cui, Z., Dong, Y., Zhang, Z., Matsunaga, K. & Ohizumi, Y.  
*J. Shenyang Pharm. Univ.*, 19, 355-358 (2002)
315. Antisense- inhibition of plasma membrane Ca<sup>2+</sup> pump induces apoptosis in vascular smooth muscle cells  
Sasamura, S., Furukawa, K.-I., Shiratori, M., Motomura, S. & Ohizumi, Y.  
*Jpn. J. Pharmacol.*, 90, 164-172 (2002)
316. Theonezolid A, a novel marine macrolide, induces drastic shape change in rabbit platelets by reorganization of microtubules  
Mitsui-Saito, M., Ohkubo, S., Obara, Y., Yanagisawa, T., Kobayashi, J-I., Ohizumi, Y. & Nakahata, N.  
*Thromb. Res.*, 108, 133-138 (2003)
317. Baicalein inhibits Raf-1-mediated phosphorylation of MEK-1 in C6 rat glioma cells  
Nakahata, N., Tsuchiya, C., Nakatani, K., Ohizumi, Y. & Ohkubo, S.  
*Eur. J. Pharmacol.*, 461, 1-7 (2003)

318. Functional role of ryanodine-sensitive  $\text{Ca}^{2+}$  stores in acidic pH-induced contraction in Wistar Kyoto rat aorta.  
Rohra, D.K., Saito, S. & Ohizumi, Y.  
*Life Sci.*, 72, 1259-1269 (2003)
319. Extracellular acidosis results in higher intracellular acidosis and greater contraction in spontaneously hypertensive rat aorta  
Rohra, D.K., Saito, S. & Ohizumi, Y.  
*Eur. J. Pharmacol.*, 465, 141-14 4(2003)
320. Mastoparan binds to glycogen phosphorylase to regulate sarcoplasmic reticular  $\text{Ca}^{2+}$  release in skeletal muscle  
Hirata, Y., Atsumi, M., Ohizumi, Y. & Nakahata, N.  
*Biochem. J.*, 371, 81-88 (2003)
321. Speradine A, a new pentacyclic oxindole alkaloid from a marine-derived fungus *Aspergillus tamarii*  
Tsuda, M., Mugishima, T., Komatsu, K., Sone, T., Tanaka, M., Mikami, Y., Shiro, M., Hirai, M., Ohizumi, Y. & Kobayashi, J.  
*Tetrahedron*, 59, 3227-3230 (2003)
322. Sterol and triterpenoid constituents of *Verbena littoralis* with NGF-potentiating activity  
Li, Y., Ishibashi, M., Satake, M., Chen, X., Oshima, Y. & Ohizumi, Y.  
*J. Nat. Prod.*, 66, 696-698 (2003)
323. Naphthoquinone and iridoid with NGF-potentiating activity from *Verbena littoralis*  
Li, Y., Satake, M., Oshima, Y. & Ohizumi, Y.  
*Chem. Lett.*, 32, 728-729 (2003)
324. Littorachalcone, a new enhancer of NGF- mediated neurite outgrowth, from *Verbena littoralis*  
Li, Y., Ishibashi, M., Chen, X. & Ohizumi, Y.  
*Chem. Pharm. Bull.*, 51, 872-874 (2003)
325. Prenylated xanthones from *Garcinia xanthochymus*  
Chanmahasathien, W., Li, Y., Satake, M., Oshima, Y., Ishibashi, M., Ruangrungsi, N. & Ohizumi, Y.  
*Chem. Pharm. Bull.*, 51, 1332-1334 (2003)
326. A new iridoid glycoside with nerve growth factor-potentiating activity, gelsemiol 6'-*trans*-caffeooyl-1-glucoside, from *Verbena littoralis*  
Li, Y., Ishibashi, M., Satake, M., Oshima, Y. & Ohizumi, Y.  
*Chem. Pharm. Bull.*, 59, 1103-1105 (2003)

327. (+)-Nantenine isolated from *Nandina domestica* Thunb. Inhibits adrenergic pressor responses in pithed rats  
Tsuchida, H. & Ohizumi, Y.  
*Eur. J. Pharmacol.*, 477, 53-58 (2003)
328. Nardosinone enhances nerve growth factor-induced neurite outgrowth in a mitogen-activated protein kinase- and protein kinase C-dependent manner in PC12D cells  
Li, P., Yamakuni, T., Matsunaga, K., Kondo, S. & Ohizumi, Y.  
*J. Pharmacol. Sci.*, 93, 122-125 (2003)
329. Stereoselective synthesis of novel ptilomycalin A analogs via successive 1, 3-dipolar cycloaddition reactions and their  $\text{Ca}^{2+}$ -ATPase inhibitory activity  
Georgieva, A., Hirai, M., Hashimoto, Y., Nakata, T., Ohizumi, Y. & Nagasawa, K.  
*Synthesis*, 9, 1427-1432 (2003)
330. Dual effect of saikogenin D : *in vitro* inhibition of prostaglandin E<sub>2</sub> production and elevation of intracellular free  $\text{Ca}^{2+}$  concentration in C6 rat glioma cells  
Kodama, Y., Xiaochuan, L., Tsuchiya, C., Ohizumi, Y., Yoshida, M. & Nakahata, N.  
*Planta Med.*, 69, 765-767 (2003)
331. Strain-specific effects of acidic pH on contractile state of aortas from Wistar and Wistar Kyoto rats  
Rohra, D.K., Saito, S. & Ohizumi, Y.  
*Eur. J. Pharmacol.*, 476, 123-130 (2003)
332. Prenylated xanthones with NGF-potentiating activity from *Garcinia xanthochymus*  
Chanmahasathien, W., Li, Y., Satake, M., Oshima, Y., Ruangrungsi, N. & Ohizumi, Y.  
*Phytochemistry*, 64, 981-986 (2003)
333. Mechanism of acidic pH-induced contraction in spontaneously hypertensive rat aorta: role of  $\text{Ca}^{2+}$  release from the sarcoplasmic reticulum  
Rohra, D.K. Saito, S. & Ohizumi, Y.  
*Acta Physiol. Scand.*, 179, 273-280 (2003)
334. Nardosinone, the first enhancer of neurite outgrowth-promoting activity of staurosporine and dibutyryl cyclic AMP in PC12D cells  
Li, P., Matsunaga, K., Yamakuni, T. & Ohizumi, Y.  
*Developmental Brain Research*, 145, 177-183 (2003)
335. Flavonoid glycosides from *Cecropia adenopus*  
Chanmahasathien, W., Li, Y., Satake, M., Oshima, Y. & Ohizumi, Y.

*Natural Medicines*, 58, 46 (2004)

336. Acetylated flavonoid glycosides potentiating NGF action from *Scoparia dulci*  
Li, Y., Chen, X., Satake, M., Oshima, Y. & Ohizumi, Y.  
*J. Nat. Prod.*, 67, 725-727 (2004)
337. Nantenine: an antagonist of the behavioral and physiological effects of MDMA in mice  
Fantegrossi, W. E., Kiessel, C. L., Leach, P. T., Martin, C. V., Karabenick, R. L., Chen, X., Ohizumi, Y., Ullrich, T., Rice, K. C. & Woods, J. H.  
*Psychopharmacology*, 173, 270-277 (2004)
338.  $\alpha$ -Mangostin induces  $\text{Ca}^{2+}$  -ATPase- dependent apoptosis via mitochondrial pathway in PC12 cells  
Sato, A., Fujiwara, H., Oku, H., Ishiguro, K. & Ohizumi, Y.  
*J. Pharmacol. Sci.*, 95, 33-40 (2004)
339. RA-VII, a cyclic depsipeptide, changes the conformational structure of actin to cause G<sub>2</sub> arrest by the inhibition of cytokinesis  
Fujiwara, H., Saito, S., Hitotsuyanagi, Y., Takeya, K. & Ohizumi, Y.  
*Cancer Lett.*, 209, 223-229 (2004)
340. *Ephedrae herba* in *Mao-Bushi-Saishin-to* inhibits IgE-mediated histamine release and increases cAMP content in RBL-2H3 cells  
Saito, S., Maruyama, Y., Kamiyama, S., Nakahata, N. & Ohizumi, Y.  
*J. Pharmacol. Sci.*, 95, 41-46 (2004)
341. Evidence for the involvement of protein kinase C in acidic pH-induced contraction in spontaneously hypertensive rat aorta  
Rohra, D. K., Yamakuni, T., Ito, S., Saito, S. & Ohizumi, Y.  
*Pharmacology*, 71, 10-16 (2004)
342. Xanthones with NGF-potentiating activity  
Chanmahasathien, W., Li, Y., Ishibashi, M., Ruangrungsi, N. & Ohizumi, Y.  
*Natural Medicines*, 58, 76-78 (2004)
343. IC101 induces apoptosis by Akt dephosphorylation via an inhibition of heat shock protein 90-ATP binding activity accompanied by preventing the interaction with Akt in L1210 cells  
Fujiwara, H., Yamakuni, T., Ueno, M., Ishizuka, M., Shinkawa, T., Isobe, T. & Ohizumi, Y.  
*J. Pharmacol. Exp. Ther.*, 310, 1288-1295 (2004)
344. The combination of rat mast cell and rabbit aortic smooth muscle is the simple bioassay for the screening of anti-allergic ingredient from methanolic extract of

- Corydalis Tuber  
Saito, S., Tanaka, M., Matsunaga, K., Li, Y. & Ohizumi, Y.  
*Biol. Pharm. Bull.*, 27, 1270-1274 (2004)
345. Inhibitory effect of *Mao-Bushi-Saishin-to* on prostaglandin E<sub>2</sub> synthesis in C6 rat glioma cells  
Saito, S., Kamiyama, S., Oda, M., Nakahata, N. & Ohizumi, Y.  
*Biol. Pharm. Bull.*, 27, 1133-1135 (2004)
346. Gene expression and functional activity of sodium / calcium exchanger enhanced in vascular smooth muscle cells of spontaneously hypertensive rats  
Taniguchi, S., Furukawa, K., Sasamura, S., Ohizumi, Y., Seya, K. & Motomura, S.  
*J. Cardiovasc. Pharmacol.*, 43, 629-637 (2004)
347.  $\gamma$ -Mangostin inhibits inhibitor- $\kappa$ B kinase activity and decreases lipopolysaccharide-induced cyclooxygenase-2 gene expression in C6 rat glioma cells  
Nakatani, K., Yamakuni, T., Kondo, N., Arakawa, T., Oosawa, K., Shimura, S., Inoue, H. & Ohizumi, Y.  
*Mol. Pharmacol.*, 66, 667-674 (2004)
348. Potent antioxidative activity of unripe fruits of *Garcinia mangostana* L.  
Feng, J., Yamakuni, T., Katoh, E., Hosoda, S. & Ohizumi, Y.  
*Natural Medicines*, 58, 156-159 (2004)
349. Amphidolide H, a novel type of actin-stabilizing agent isolated from dinoflagellate  
Saito, S., Feng, J., Kira, A., Kobayashi, J. & Ohizumi, Y.  
*Biochem. Biophys. Res. Commun.*, 320, 961-965 (2004)
350. Acidosis-induced protein tyrosine phosphorylation depends on Ca<sup>2+</sup> influx via voltage-dependent Ca<sup>2+</sup> channels in SHR aorta  
Rohra, D. K., Yamakuni, T. & Ohizumi, Y.  
*Eur. J. Pharmacol.*, 504, 105-111 (2004)
351. (+)-Nantenine inhibited 5-HT-induced aggregation and concomitant increase of intracellular Ca<sup>2+</sup> in rabbit washed platelet but did not inhibit shape change in PRP  
Saito, S. & Ohizumi Y.  
*Pharmacometrics*, 66, 295-298 (2004)
352. Search for constituents with neurotrophic factor activity from medicinal plants and their application to drug development  
Ohizumi, Y., Yamakuni, T. & Li, Y.  
*J. Appl. Pharmacol.*, 12, 195-197 (2004)
353. Neurofilament measurement for quantitative evaluation of the differentiation of

- PC-12 cells  
Nakahata, N., Hori, M., Haganuma, A., Obara, Y. & Ohizumi, Y.  
*Pharmacometrics*, 67, 353-358 (2004)
354. Changes in pH increase perfusion pressure of coronary arteries in the rat  
Horai, Y., Furukawa, K., Iwata, S. & Ohizumi, Y.  
*J. Pharmacol. Sci.*, 97, 400-407 (2005)
355. Sesquiterpene esters from the fruits of *Celastrus orbiculatus*  
Guo, Y., Li, X., Xu, J., Meng, D., Li, Y. & Ohizumi, Y.  
*Chem. Lett.*, 34, 764-765 (2005)
356. Intracellular cAMP controls a physical association of V-1 with CapZ in cultured mammalian endocrine cells  
Kitazawa, M., Yamakuni, T., Song, S.-Y., Kato, C., Tsuchiya, R., Ishida, M., Suzuki, N., Adachi, E., Iwashita, S., Ueno, S., Yanagihara, N., Taoka, M., Isobe, T. & Ohizumi, Y.  
*Biochem. Biophys. Res. Commun.*, 331, 181-186 (2005)
357. Zooxanthellamide Cs: Vasoconstrictive polyhydroxylated macrolides with the largest lactone ring size from a marine dinoflagellate of *Symbiodinium* sp  
Onodera, K., Nakamura, H., Oba, Y., Ohizumi, Y. & Ojika, M.  
*J. Am. Chem. Soc.*, 127, 10406-10411 (2005)
358. *Ephedrae herba* decreases lipopolysaccharide-induced cyclooxygenase-2 protein expression and NF-κB-dependent transcription in C6 rat glioma cells  
Aoki, K., Yamakuni, T., Yoshida, M. & Ohizumi, Y.  
*J. Pharmacol. Sci.*, 98, 327-330 (2005)
359. Low extracellular Cl<sup>-</sup> environment attenuates changes in intracellular pH and contraction following extracellular acidosis in Wistar Kyoto rat aorta  
Rohra, D.K., Saito, S. & Ohizumi, Y.  
*Pharmacology*, 75, 30-36 (2005)
360. 9-Methyl-7-bromoeudistomin D interacts with ryanodine receptor in skeletal muscle sarcoplasmic reticulum as a high affinity ligand of caffeine-binding site  
Seino-Umeda, A., Ishibashi, M., Kobayashi, J. & Ohizumi, Y.  
*Pharmacometrics*, 68, 129-137 (2005)
361. Structure-activity relationship for the Ca<sup>2+</sup>-releasing activity of 6-hydroxy-β-carboline analogues, the caffeine-like Ca<sup>2+</sup>-releasers, in fragmented sarcoplasmic reticulum of skeletal muscle  
Seino-Umeda, A., Ishibashi, M., Kobayashi, J. & Ohizumi, Y.  
*Pharmacometrics*, 68, 139-143 (2005)

362. Maitotoxin, palytoxin and grayanotoxin differentially elicit catecholamine secretion in cultured bovine adrenal chromaffin cells  
Kakizaki, A., Tachikawa, E., Yamamoto, T., Taira, E., Yamakuni, T. & Ohizumi, Y.  
*Pharmacometrics*, 68, 145-151 (2005)
363. Mechanism of neurotrophic action of nobiletin in PC12D cells  
Nagase, H., Yamakuni, T., Matsuzaki, K., Maruyama, Y., Kasahara, J., Hinohara, Y.,  
Kondo, S., Mimaki, Y., Sashida, Y., Tank, A. W., Fukunaga, K. & Ohizumi, Y.  
*Biochemistry*, 44, 13683-13691 (2005)
364. Nobiletin and its related flavonoids with CRE-dependent transcription- stimulating and neuritegenic activities  
Nagase, H., Omae, N., Omori, A., Nakagawasaki, O., Tadano, T., Yokosuka, A.,  
Sashida, Y., Mimaki, Y., Yamakuni, T. & Ohizumi, Y.  
*Biochem. Biophys. Res. Commun.*, 377, 1330-1336 (2005)
365. Grayanotoxin III induces catecholamine secretion in bovine adrenal chromaffin cells but not PC12D cells  
Kakizaki, A., Tachikawa, E., Yamamoto, T., Takahashi, K., Taira, E., Yamakuni, T., & Ohizumi, Y.  
*Pharmacometrics*, 69, 65-69 (2005)
366. Vasorelaxatory effect of (+)- nantenine in anaesthetised rat  
Tsuchida, H., Saito, S. & Ohizumi, Y.  
*Pharmacometrics*, 69, 85-88 (2005)
367. Brasilibactin A, a cytotoxic compound from actinomycete *Nocardia brasiliensis*  
Tsuda, M., Yamakawa, M., Oka, S., Tanaka, Y., Hoshino, Y., Mikami, Y., Sato, A.,  
Fujiwara, H., Ohizumi, Y. & Kobayashi, J.  
*J.Nat.Prod.*, 68, 462-464 (2005)
368. Iridoids and sesquiterpenoids with NGF-potentiating activity from the rhizomes and roots of *Valeriana fauriei*  
Guo, Y., Xu, J., Li, Y., Watanabe, R., Oshima, Y., Yamakuni, T. & Ohizumi, Y.  
*Chem. Pharm. Bull.*, 54, 123-125 (2006)
369. Garcinone B reduces prostaglandin E<sub>2</sub> release and NF-κB-mediated transcription in C6 cells  
Yamakuni, T., Aoki, K., Nakatani, K., Kondo, N., Oku, H., Ishiguro, K. & Ohizumi, Y.  
*Neurosci. Lett.*, 394, 206-210 (2006)

370. Three-membered ring sesquiterpenoids with NGF-potentiating activity from the roots of *Valeriana fauriei*  
Guo, Y., Xu, J., Li, Y., Yamakuni, T. & Ohizumi, Y.  
*Planta Med.*, 72, 373-375 (2006)
371. Bioactive *ent*-clerodane diterpenoids from the aerial parts of *Baccharis gaudichaudiana*  
Guo, Y., Li, Y., Xu, J., Watanabe, R., Oshima, Y., Yamakuni, T. & Ohizumi, Y.  
*J. Nat. Prod.*, 69, 274-276 (2006)
372. Metronomic scheduling of a cyclic hexapeptide Ra-VII for anti-angiogenesis, tumor vessel maturation, and anti-tumor activity  
Koizumi, T., Abe, M., Yamakuni, T., Ohizumi, Y., Hitotsuyanagi, Y., Takeya, K. & Sato, Y.  
*Cancer Sci.*, 97, 665-674 (2006)
373. Anti-obesity effect of *Nelumbo nucifera* leaves extract in mice and rats  
Ono, Y., Hattori, E., Fukaya, Y., Imai, S. & Ohizumi, Y.  
*J. Ethnopharmacol.*, 106, 238-244 (2006)
374. Nobiletin restoring  $\beta$ -amyloid-impaired CREB phosphorylation rescues memory deterioration in Alzheimer's disease model rats  
Matsuzaki, K., Yamakuni, T., Hashimoto, M., Haque, A. M., Shido, O., Mimaki, Y., Sashida, Y. & Ohizumi, Y.  
*Neurosci. Lett.*, 400, 230-234 (2006)
375.  $\text{Ca}^{2+}$  channel activating action of maitotoxin in cultured brainstem neurons  
Kakizaki, A., Takahashi, M., Akagi, H., Tachikawa, E., Yamamoto, T., Taira, E., Yamakuni, T., & Ohizumi, Y.  
*Eur. J. Pharmacol.*, 536, 223-231 (2006)
376. Proinsulin C-peptide stimulates a PKC/I $\kappa$ B/NF- $\kappa$ B signaling pathway to activate COX-2 gene transcription in Swiss 3T3 fibroblasts  
Kitazawa, M., Shibata, Y., Hashimoto, S., Ohizumi, Y. & Yamakuni, T.  
*J. Biochem.* 139, 1083-1088 (2006)
377. V-1 enhances PMA-induced activation of NF- $\kappa$ B-dependent transcription in PC12D cells  
Hiwatashi, Y., Yamakuni, T. & Ohizumi, Y.  
*Pharmacometrics*, 70, 17-20 (2006)
378. Stimulatory action of eudistomin analogues on the ATPase activity of skeletal muscle myosin B  
Seino-Umeda, A., Kobayashi, J. & Ohizumi, Y.  
*Pharmacometrics*, 70, 21-23 (2006)

379. Stimulatory action of eudistomin D analogues on the contractile protein system of skeletal muscle  
Seino-Umeda, A., Kobayashi, J. & Ohizumi, Y.  
*Pharmacometrics*, 70, 25-27 (2006)
380. Neurotrophic factor production in human astrocytoma cells by 2,5,6-tribromogramine via activation of epsilon isoform of protein kinase C  
Saito, M., Hori, M., Obara, Y., Ohizumi, Y., Ohkubo, S. & Nakahata N.  
*Eur. J. Pharm. Sci.*, 28, 263-271 (2006)
381. *Uncaria rhynchophylla*, a Chinese medicinal herb, has potent antiaggregation effects on Alzheimer's  $\beta$ -amyloid proteins  
Fujiwara, H., Iwasaki, K., Furukawa, K., Seki, T., He, M., Maruyama, M., Tomita, N., Kudo, Y., Higuchi, M., Saido, T.C., Maeda, S., Takashima, A., Hara, M., Ohizumi, Y. & Arai, H.  
*J. Neurosci. Res.*, 84, 427-433 (2006)
382. Participation of epoxygenase activation in saikogenin D-induced inhibition of prostagladin E<sub>2</sub> synthesis  
Toriniwa, Y., Lv X., Kodama, Y., Ohizumi, Y., Yoshida, M. & Nakahata, N.  
*J. Pharm. Pharmacol.*, 58, 859-866 (2006)
383. Molecular and electrophysiological characteristics of K<sup>+</sup> conductance sensitive to acidic pH in aortic smooth muscle cells of WKY and SHR  
Kiyoshi, H., Yamazaki, D., Ohya, S., Kitsukawa, M., Muraki, K., Saito, S., Ohizumi, Y. & Imaizumi, Y.  
*Am. J. Physiol. Heart Circ. Physiol.*, 291, H2723-2734 (2006)
384. Ephedrae herba (Mao) decreased histamine content in RBL-2H3 cells  
Saito, S., Kamiyama, S. & Ohizumi, Y.  
*J. Nat. Med.*, 60, 225-230 (2006)
385. Nobiletin, a citrus flavonoid, reverses learning impairment associated with N-methyl-D-aspartate receptor antagonism by activation of extracellular signal-regulated kinase signaling  
Nakajima, A., Yamakuni, T., Matsuzaki, K., Nakata, N., Onozuka, H., Yokosuka, A., Sashida, Y., Mimaki, Y. & Ohizumi, Y.  
*J. Pharmacol. Exp. Ther.*, 321, 784-790 (2007)
386. Nobiletin, a citrus flavonoid that improves memory impairment, rescues bulbectomy-induced cholinergic neurodegeneration in mice  
Nakajima, A., Yamakuni, T., Haraguchi, M., Omae, N., Song,S-Y., Kato, C., Nakagawasai, O., Tadano, T., Yokosuka, A., Mimaki, Y., Sashida, Y. & Ohizumi,

Y.

*J. Pharmacol. Sci.*, 105, 122-126 (2007)

387. Angiopoietin-related growth factor suppresses gluconeogenesis through the akt/forkhead box class O1-dependent pathway in hepatocytes  
Kitazawa, M., Ohizumi, Y., Oike, Y., Hishinuma, T. & Hashimoto, S.  
*J.Pharmacol. Exp. Ther.*, 323, 787-793 (2007)
388. Clerodane diterpenoids and flavonoids with NGF-potentiating activity from the aerial parts of *Baccharis gaudichaudiana*  
Guo, Y., Li, Y., Xu, J., Li, N., Yamakuni, T. & Ohizumi, Y.  
*Chem.Pharm.Bull.*, 55, 1532-1534 (2007)
389. Nobiletin, a citrus flavonoid with neurotrophic action, augments protein kinase A-mediated phosphorylation of the AMPA receptor subunit, GluR1, and the postsynaptic receptor response to glutamate in murine hippocampus  
Matsuzaki, K., Miyazaki, K., Sakai, S., Yawo, H., Nakata, N., Moriguchi, S., Fukunaga, K., Yokosuka, A., Sashida, Y., Mimaki, Y., Yamakuni T. & Ohizumi, Y.  
*Eur. J. Pharmacol.*, 578, 194-200 (2008)
390. Dual action of palytoxin in the isolated hypogastric nerve-vas deferens preparation of guinea-pigs  
Ohizumi, Y.  
*Pharmacometrics*, 74, 27-31 (2008)
391. A novel diol-derivative of chalcone produced by bioconversion, 3-(2,3-dihydroxyphenyl)-1-phenylpropan-1-one, activates phosphorylation of ERK and CREB in cultured rat cortical neurons  
Rahim, Md. Al., Nakajima, A., Misawa, N., Shindo, K., Adachi, K., Shizuri, Y., Ohizumi, Y. & Yamakuni, T.  
*Pharmacometrics*, 74, 131-135 (2008)
392. Nobiletin, a citrus flavonoid, improves memory impairment and A $\beta$  pathology in a transgenic mouse model of Alzheimer's disease  
Onozuka, H., Nakajima, A., Matsuzaki, K., Shin, RW., Ogino, K., Saigusa, D., Tetsu, N., Yokosuka, A., Sashida, Y., Mimaki, Y., Yamakuni, T. & Ohizumi, Y.  
*J. Pharmacol. Exp. Ther.*, 326, 739-744 (2008)
393. Shishihakuhitto, a kampo medicine for atopic dermatitis, prevents lipopolysaccharide-induced activation of NF- $\kappa$ B-dependent transcription in C6 rat glioma cells  
Aoki, K., Yoshida, M., Ohizumi, Y. & Yamakuni, T.  
*Pharmacometrics*, 74, 107-110 (2008)
394. A novel diol-derivative of chalcone produced by bioconversion,

- 3-(2,3-dihydroxyphenyl)-1-phenylpropan-1-one, activates PKA/MEK/ERKs signaling and antagonizes A<sub>2</sub>-inhibition of the cascade in cultured rat CNS neurons  
 Rahim,  
 Md. Al., Nakajima, A., Misawa, N., Shindo, K., Adachi, K., Shizuri, Y., Ohizumi, Y. & Yamakuni, T. *Eur. J. Pharmacol.*, 600, 10-17 (2008)
395. Shishihakuhitto, a traditional Chinese medicine for atopic dermatitis inhibits IgE-mediated histamine release from rat RBL-2H3 basophilic leukocyte cells  
 Wakabayashi, M., Sakurai, E., Yanai, K., Umemura, K., Yoshida, M., Ohizumi, Y. & Yamakuni, T.  
*J.Trad.Med.*, 26(1), 44-49 (2009)
396. Honeybee royal jelly stimulates CRE-mediated transcription in a PKA-but not MEK/ERK-dependent manner in PC12D cells  
 Yamaguchi, K., Kogure, A., Murata, K., Hitomi, N., Nakajima, A., Yamakuni, T. & Ohizumi, Y.  
*Pharmacometrics*, 76, 33-38 (2009)
397. Nobiletin improves brain ischemia-induced learning and memory deficits through stimulation of CaMKII and CREB phosphorylation  
 Yamamoto Y., Shioda N., Han F., Moriguchi S., Nakajima A., Yokosuka A., Mimaki Y., Sashida Y., Yamakuni T., Ohizumi Y. & Fukunaga K.  
*Brain Res.*, 1292, 218-229 (2009)
398. 4'-Demethynobiletin, a bioactive metabolite of nobiletin enhancing PKA/ERK/CREB signaling, rescues learning impairment associated with NMDA receptor antagonism via stimulation of the ERK cascade  
 Md. Al Rahim, Nakajima A., Saigusa D., Tetsu N., Maruyama Y., Shibuya, M., Yamakoshi H., Tomioka Y., Iwabuchi Y. Ohizumi Y. & Yamakuni T.  
*Biochemistry*, 48, 7713-7721 (2009)
399. Search for herbal extracts with the activity to stimulate tyrosine hydroxylase gene transcription in PC12D cells  
 Tagaya, S., Suetake, Y., Yoshida, K., Shimura, S., Ohizumi, Y. & Yamakuni, T.  
*Pharmacometrics*, 77, 131-135 (2009)
400. V-1, a positive regulator of tyrosine hydroxylase gene expression, promotes maitotoxin- and palytoxin-Induced norepinephrine secretion in PC12D cells  
 Kakizaki, A., Oka, N., Tachikawa, E., Miyate, Y., Takahashi, K., Yamamoto, T., Taira,  
 E., Ohizumi, Y. & Yamakuni, T.  
*Pharmacometrics*, 78, 67-71 (2010)

401. High-performance liquid chromatography with photodiode array detection for determination of nobiletin content in the brain and serum of mice administrated the natural compound  
Saigusa, D., Shibuya, M., Jinno, D., Yamakoshi, H., Iwabuchi, Y., Yokosuka, A., Mimaki, Y., Naganuma, A., Ohizumi, Y., Tomioka, Y. & Yamakuni, T.  
*Anal. Bioanal. Chem.* 400, 3635-3641 (2011)
402. Honeybee royal jelly and nobiletin stimulate CRE-mediated transcription in ERK-independent and dependent fashions, respectively, in PC12D cells  
Fujiwara, H., Kogure, A., Sakamoto, M., Yamakuni, T., Mimaki, Y., Murata, K., Hitomi, N., Yamaguchi, K. & Ohizumi, Y.  
*J. Pharmacol. Sci.*, 116, 384-387 (2011)
403. Inhibitory effects of citrus polymethoxyflavones, nobiletin and its analogues, on acetylcholinesterase activity  
Kimura, J., Nemoto, K., Onoue, S., Yamakuni, T., Yokosuka, A., Mimaki, Y., Yamada, S., Degawa, M. & Ohizumi, Y.  
*Pharmacometrics*, 81, 23-26 (2011)
404. 9-Methyl-7-bromoeudistomin D, a caffeine like  $\text{Ca}^{2+}$  releaser, probably binds to cytochromes P-450 IA1 and 2B in liver microsomes  
Kakubari, M., Adachi, M., Degawa, M. & Ohizumi, Y.  
*Pharmacometrics*, 81, 49-53 (2011)
405. Neuroprotective kaurane diterpenes from *Fritillaria ebeiensis*  
Xu, J., Guo, P., Liu, C., Sun, Z., Gui, L., Guo, Y., Yamakuni, T. & Ohizumi, Y.  
*Biosci. Biotechol. Biochem.*, 75, 1386-1388 (2011)
406. The property of active substance from royal jelly in CRE-mediated transcriptional activity  
Yamaguchi, K., Fujiwara, H., Sakamoto, M., Murata, K., Hitomi, N., Li, Z., He, S. & Ohizumi, Y.  
*Pharmacometrics*, 82, 17-20 (2012)
407. Mode of inhibition of  $\text{Na}^+$ ,  $\text{K}^+$ -ATPase by peptides from a sea sponge  
Seino-Umeda, A., Nakamura, Y., Kobayashi, J. & Ohizumi, Y.  
*Pharmacometrics*, 83, 9-15 (2012)
408. New myrsinol diterpenes from *Euphorbia proliifera* and their inhibitory activities on LPS-induced NO production  
Xu, J., Jin, D., Guo, Y., Xie, C., Ma, Y., Yamakuni, T. & Ohizumi, Y.  
*Bioorg. Med. Chem. Lett.*, 22, 3612-3618 (2012)
409. Isolation, structural elucidation, and neuroprotective effects of iridoids from

*Valeriana jatamansi*

Xu, J., Li, Y., Guo, Y., Guo, P., Yamakuni, T. & Ohizumi, Y.

*Biosci. Biotechmol. Biochem.*, 76, 1401-1403 (2012)

410. Three new iridoids from the roots of *Valeriana jatamansi*

Xu, J., Guo, Y., Jin, D., Zhao, P., Guo, P., Yamakuni, T. & Ohizumi, Y.

*J. Nat. Med.*, 66, 653-657 (2012)

411. Characteristics of nobiletin-mediated alteration of gene expression in cultured cell lines

Nemoto, K., Ikeda, A., Yoshida, C., Kimura, J., Mori, J., Fujiwara, H., Yokosuka, A., Mimaki, Y., Ohizumi, Y., Degawa, M.

*Biochem. Biophys. Res. Commun.*, 431, 530–534 (2013)

412. Four new myrsinol diterpenes from *Euphorbia prolifera*

Xu, J., Yang, B., Fang, L., Wang, S., Guo, Y., Yamakuni, T. & Ohizumi, Y.

*J. Nat. Med.*, 67, 333-338 (2013)

413. Nobiletin, a citrus flavonoid, ameliorates cognitive impairment, oxidative burden, and hyperphosphorylation of tau in senescence- accelerated mouse

Nakajima, A., Aoyama, Y., Nguyen, T.-T., Shin, E.-J., Kim, H.-C., Yamada, S., Nakai, T., Nagai, T., Yokosuka, A., Mimaki, Y., Ohizumi, Y. & Yamada, K.

*Behavioural Brain Res.*, 250, 351-360 (2013)

414. Suppressive effect of nobiletin, a citrus polymethoxyflavonoid that downregulates thioredoxin-interacting protein expression, on tunicamycin-induced apoptosis in SK-N-SH human neuroblastoma cells

Ikeda, A., Nemoto, K., Yoshida, C., Miyata, S., Mori, J., Soejima, S.,

Yokosuka, A., Mimaki, Y., Ohizumi, Y. & Degawa, M.

*Neurosci. Lett.*, 549, 135-139 (2013)

415. 6-Demethoxynobiletin, a nobiletin-analog citrus flavonoid, enhances extracellular signal-regulated kinase phosphorylation in PC12D cells

Kimura, J., Nemoto, K., Yokosuka, A., Mimaki, Y., Degawa, M. & Ohizumi, Y.

*Biol.Pharm.Bull.*, 36, 1646-1649 (2013)

416. Nobiletin treatment improves motor and cognitive deficits seen in MPTP-induced Parkinson model mice

Yabuki, Y., Ohizumi, Y., Yokosuka, A., Mimaki, Y. & Fukunaga, K.

*Neurosci.lett.*, 259, 126-141(2014)

417. Nobiletin, a flavone form *Citrus depressa*, induces gene expression and increases the protein level and activity of neprilysin to enhance neprilysin activity in SK-N-SH cells

- Fujiwara, H., Kimura, J., Sakamoto, M., Yokosuka, A., Mimaki, Y., Murata, K., Yamaguchi, K. & Ohizumi, Y.  
*Can. J. Physiol. Pharmacol.*, 92, 351-355(2014)
418. Neuroprotective effect of nobiletin on cerebral ischemia-reperfusion injury in transient middle cerebral artery-occluded rats  
Yasuda, N., Ishii, T., Oyama, D., Fukuta, T., Agato, Y., Sato, A., Shimizu, K., Asai, T., Asakawa, T., Kan, T., Yamada, S., Ohizumi, Y. & Oku N.  
*Brain Res.*, 1559, 46-54 (2014)
419. Purealbin enhances the actin-activated ATPase activity of myosin, heavy meromyosin and subfragment 1 by increasing their apparent affinities for actin  
Takito, J., Kobayashi, J., Yamaguchi, K. & Ohizumi, Y.  
*Pharmacometrics*, 86, 21-27 (2014)
420. Sesquiterpenes inhibiting the microglial activation from *Laurus nobilis*  
Chen, H., Xie, C., Wang, H., Jin, D.-Q., Li, S., Wang, M., Ren, Q., Xu, J., Ohizumi, Y. & Guo, Y.  
*J.Aglc.Food chem.*, 62, 4784-4788 (2014)
421. Upregulation of N-methyl-D-aspartate receptor subunits and c-Fos expressing genes in PC12D cells by nobiletin  
Kimura, J., Nemoto, K., Degawa, M., Yokosuka, A., Mimaki, Y., Shimizu, K., Oku, N. & Ohizumi, Y.  
*Biol. Pharm. Bull.*, 37, 1555-1558 (2014)
422. Estimation of endoplasmic reticulum stress-inducing ability of nobiletin, a citrus polymethoxyflavonoid, in SK-N-SH human neuroblastoma cells  
Ikeda, A., Miyata, S., Yokosuka, A., Mimaki, Y., Ohizumi, Y., Degawa, M. & Nemoto, K.  
*Fund. Toxicol. Sci.*, 1, 169-172(2014)
423. Terpenoids from *Tripterygium hypoglaucum* and their inhibition of LPS-induced NO production  
Zaho, P., Wang, H., Jin, D.-Q., Ohizumi, Y., Xu, J. & Guo, Y.  
*Biosci.Biotechnol.Biochem.*, 78, 370-373(2014)
424. 天然機能性成分の分離濃縮を目的とした超臨界流体抽出—精留プロセスの開発  
橋本吉晃, 大田昌樹, 佐藤善之, 大泉康, 猪股宏  
化学工学論文集, 40, 481-485(2014)
425. Characterization and NO inhibitory activities of chemical constituents from an edible plant *Petasites tatewakianus*  
Wang, M., Zhang, Q., Wang, H., Ren, Q., Sun, Y., Xie, C., Xu, J., Jin, D.-Q., Ohizumi, Y. &

- Guo,Y.  
*J. Agric. Food Chem.*, 62, 9362-9367 (2014)
426. Diterpenes inhibiting NO production from *Euphorbia helioscopia*  
Chen, H., Wang, H., Yang, B., Jin, D.-Q., Yang, S., Wang, M., Xu, J., Ohizumi, Y. & Guo, Y.  
*Fitoterapia*, 95, 133–138(2014)
427. Two novel clerodane diterpenenes with NGF-potentiating activities from the twigs of *Croton yanhuii*  
Sun, Y., Wang, M., Ren, Q., Li, S., Xu, J., Ohizumi, Y., Xie, C., Jin,D.-Q. & Guo, Y.  
*Fitoterapia.*, 95, 229-233 (2014)
428. Bioactive clerodane diterpenoids from the twigs of Casearia balansae  
Xu, J., Zhang, Q., Wang, M., Ren, Q., Sun, Y., Jin, D.- Q., Xie, C., Chen, H., Ohizumi, Y. & Guo,Y.  
*J Nat Prod.*, 77, 2182-2189(2014)
429. Thymol derivatives from *Eupatorium fortunei* and their inhibitory activities on LPS-induced NO production  
Wang,Y.,Li,J., Wang,H., Jin,D.-Q., Chen,H., Xu,J.,Ohizumi,Y &Guo,Y.  
*Phytochemistry Letters* 7, 190-193(2014)
430. Roles of basic amino acid residues in the activity of  $\mu$ -conotoxin GIIIA and GIIIB, peptide blockers of muscle sodium channels  
Sato, K., Yamaguchi, Y., Ishida, Y. & Ohizumi, Y.  
*Chem. Biol. Drug Des.*, 85, 488-493(2015)
431. Bioactive diterpenoids from the leaves of *Callicarpa macrophylla*  
Xu, J., Sun, Y., Wang, M., Ren, Q., Li, S., Wang, H., Sun, X., Jin, D.-Q., Sun, H., Ohizumi,Y. & Guo,Y.  
*J. Nat. Prod.*, 78, 1563-1569 (2015)
432. Nobiletin, a citrus flavonoid, improves cognitive impairment and reduces soluble A $\beta$  levels in a triple transgenic mouse model of Alzheimer's disease (3XTg-AD)  
Nakajima, A., Aoyama, Y., Shin, E, J., Nam, Y., Kim, H.- C., Nagai, T., Yokosuka, A., Mimaki, Y., Yokoi, T., Ohizumi, Y & Yamada K.  
*Behav. Brain Res.*, 289, 69-77 (2015)
433. Upregulatory effects of nobiletin, a citrus flavonoid with anti-dementia activity, on gene expression of mAChR,ChAT, and CBP  
Kimura, J., Shimizu, K.,Takito,J.,Nemoto, K., Degawa, M., Yokosuka, A., Mimaki, Y., Oku, N. & Ohizumi, Y.

*Planta Med. Lett.*, 2, e12-e14(2015)

434. Characterization and biological evaluation of diterpenoids from *Casearia graveolens*  
Xu, J., Ji,F.,Sun, X., Cao, X., Li, S., Ohizumi, Y. & Guo, Y.  
*J. Nat. Prod.*, 78, 2648-2656(2015)
435. 超臨界流体抽出—精留塔により摘果柑橘果皮由来ノビレチンの分離濃縮実験  
橋本吉晃, 大田昌樹, 佐藤善之, 大泉康, 猪股宏  
化学工学論文集, 41, 293-297(2015)
436. Di- and triterpenoids from the leaves of *Casearia balansae* and neurite outgrowth  
promoting effects of PC12 cells.  
Xu,J., Kang,J., Sun,X., Cao,X., Rena,K., Lee,D., Ren,Q., Li,S., Ohizumi,Y., &  
Guo,Y.  
*J. Nat. Prod.*, 79, 170-179(2016)
437. Nerve growth factor enhances the CRE-dependent transcriptional activity activated  
by nobiletin in PC12 cells  
Takito, J., Kimura, J., Kajima, K., Uozumi, N., Watanabe, M., Yokosuka, A.,  
Mimaki, Y., Nakamura, M. & Ohizumi, Y.  
*Can. J. Physiol. Pharmacol.*, 94,728-733(2016)
438. Characterization of diterpenoids from *Caesalpinia decapetala* and their anti-TMV  
activities  
Xu, J.,Cao,X.,Liu F.,Ma,j.,Liu,X.,Tong,L.,Su,G.,Ohizumi,Y.,Lee,D.,Wang,L.  
& Guo,Y.  
*Fitoterapia*,113, 144-150(2016)
439. Diterpenoids from *Callicarpa kwangtungensis* and their NO inhibitory effects  
Xu, J., Li,S., Sun,X., Ma,J.,Liu,F.,Tong,L.,Lee,D.,Ohizumi,Y.,Tuerhong ,M. &  
Guo,Y.  
*Fitoterapia*,113,151-157 (2016)
440. Bioactive diterpenoids from *Trigonostemon chinensis* : Structures,NO inhibitory  
activities, and interactions with iNOS  
Xu, J.,Peng,M.,Sun,X.,Liu,X.,Tong,L.,Su,G.,Ohizumi,Y.,Lee,D. & Guo,Y.  
*Bioorganic & Medicinal Chemistry Letters*,26,4785-4789 (2016)
441. Limonene enhances the cAMP response element (CRE)-dependent transcriptional  
activity activated via adenosine A<sub>2A</sub> receptor in a neuralcrest derived cell line,  
PC-12  
Takito,J.,Ota,M.,Oba,C.,Fujiwara,H.,Murata,K.,Yamaguchi,K.,Uozumi,N.,Nakamu  
ra,M.,Inomata,H.,& Ohizumi,Y.  
*Planta Medica International Open*,3,e60-e62 (2016)

(DOI:10.1055/s-0042-118778)

442. Bioactive terpenoids from *Salvia plebeia*: Structures, NO Inhibitory activities, and interactions with iNOS.  
Xu,J., Wang,M., Sun,X., Ren,Q., Cao,X., Li,S., Su,G., Tuerhong,M., Lee,D., Ohizumi,Y., Bartlam,M. & Guo,Y.  
*J. Nat. Prod.*, 79, 2924-2932 (2016)
443. Sesquiterpenoids from an edible plant *Petasites japonicus* and their promoting effects on neurite outgrowth.  
Xu,J., Ji,F., Cao,X., Ma,J., Ohizumi,Y., Lee,D.& Guo,Y.  
*Journal of Functional Foods* 22, 291-299(2016)
444. Extraction of nobiletin from *Citrus Unshiu* peels by supercritical fluid and its CRE-mediated transcriptional activity  
Oba,C., Ota,M., Nomura,K., Fujiwara,H., Takito,J., Sato,Y., Ohizumi,Y. & Inomata,H.  
*Phytomedicine*, 27,33-38 (2017)
445. Natural NO inhibitors from the leaves of *Callicarpa kwangtungensis*: Structures, activities, and interactions with iNOS.  
Li,S., Sun,X., Li,Y., Liu,F., Ma,J., Tong,L., Su,G., Xu,J., Ohizumi,Y., Lee,D. &Guo,Y.  
*Bioorganic & Medicinal Chemistry Letter*, 27, 670-674 (2017)
446. Chemical and biological profiles of *Tussilago farfara*: Structures, nitric oxide inhibitory activities, and interactions with iNOS protein.  
Xu ,J., Sun,X., Kang,J., Liu,F., Wang,P., Ma,J., Zhou,H., Jin,D.-Q., Ohizumi ,Y., Lee,D., Bartlam,M &Guo,Y.  
*Journal of Functional Foods*, 32, 37-45 (2017)
447. Phytochemicals with NO inhibitory effects and interactions with iNOS protein from *Trigonostemon howii*.  
Ma,J., Yang,X., Wang,P., Dong,B., Su,G., Tuerhong,M., Jin,D.-Q., Xu,J., Lee,D., Ohizumi,Y., Lin,J. &Guo,Y.  
*Bioorganic Chemistry*. 75, 71-77 (2017)
448. Polycyclic phloroglucinols as PTP1B inhibitors from *Hypericum longistylum*: Structures, PTP1B inhibitory activities, and interactions with PTP1B.  
Cao,X., Yang,X., Wang,P., Liang,Y., Liu,F., Tuerhong,M., Jin,D.-Q., Xu,J., Lee,D., Ohizumi,Y. & Guo,Y.  
*Bioorganic Chemistry*. 75, 139–148 (2017)
449. Nitric oxide inhibitory daphnane diterpenoids as potential antineuroinflammatory agents for AD from the twigs of *Trigonostemon thyrsoideus*.

- Liu,F., Yang,X.,Ma,J.,Yang,Y., Xie,C.Tuerhong,M., Jin,D.-Q., Xu,J., Lee,D., Ohizumi,Y. & Guo,Y.  
*Bioorganic Chemistry.* 75, 149–156 (2017)
450. Clerodane diterpenoids from *Scutellaria formosana* with inhibitory effects on NO production and interactions with iNOS protein.  
Wang, P., Liu, F., Yang, X., Liang, Y., Li, S., Su, G., Jin, D.-Q., Ohizumi, Y., Xu, J., & Guo, Y.  
*Phytochemistry.* 144, 141-150 (2017)
451. Unfolding of the myosin head by purealbin in glycerol  
Takito, J., Kobayashi, J., Nakamura, M., Ohizumi, Y. & Nonomura, Y.  
*Anat.Sci.Int.* 93, 197-202 (2018)
452. Nitric oxide inhibitors with a spiro diterpenoid skeleton from *Scutellaria formosana*: Structures, NO inhibitory effects, and interactions with iNOS.  
Wang, P., Yang, X., Liu, F., Liang, Y., Su, G., Tuerhong, M., Jin, D.-Q., Xu, J., Lee, D., Ohizumi, Y. & Guo, Y.  
*Bioorganic Chemistry,* 76, 53-60 (2018)
453. NO inhibitors function as potential anti-neuroinflammatory agents for AD from the flowers of *Inula japonica*.  
Liu, F., Dong, B., Yang, X., Yang, Y., Zhang, J., Jin, D.-Q., Ohizumi, Y., Lee, D., Xu, J. & Guo, Y.  
*Bioorganic Chemistry* 77, 168–175 (2018)
454. NO inhibitory constituents as potential anti-neuroinflammatory agents for AD from *Blumea balsamifera*.  
Ma, J., Ren, Q., Dong, B., Shi, Z., Zhang, J., Jin, D.-Q., Xu, J., Ohizumi, Y., Lee, D. & Guo, Y.  
*Bioorganic Chemistry,* 76, 449-457 (2018)
455. Nobletin reduces intracellular and extracellular β-amyloid in iPS cell-derived Alzheimer's disease model neurons.  
Kimura, J., Shimizu, K., Kajima, K., Yokosuka, A., Mimaki, Y., Oku, N. & Ohizumi, Y.  
*Biol. Pharm. Bull.* 41(4)1-8(2018)
456. Seco-labdane diterpenoids from the leaves of *Callicarpa nudiflora* showing nitric oxide inhibitory activity.  
Sun, X., Liu, F., Yang, X., Wang, J., Dong, B., Xie, C., Jin, D.-Q., Zhang, J., Lee, D., Ohizumi, Y., Xu, J., & Guo, Y.  
*Phytochemistry* 149, 31-41(2018)

457. Bioactive diterpenoids from the stems of *Euphorbia royleana*.  
Wang, P., Xie, C., An, L., Yang, X., Xi, Y., Yuan, S., Zhang, C., Tuerhong, M., Jin, D.-Q., Lee, D., Zhang, J., Ohizumi, Y., Xu, J. & Guo, Y.  
*J. Nat. Prod.* 82, 183-193(2019).
458. Clerodane diterpenoids from *Casearia kurzii* and their cytotoxic activities.  
Shuo, Y., Zhang, C., Yang, X., Liu, F., Zhang, Q., Li, A., Ma, J., Lee, D., Ohizumi, Y. & Guo, Y.  
*J. Nat. Med.* 73, 826-833 (2019).
459. Bioactive Diterpenoids from the Stems of *Euphorbia antiquorum*.  
Liang, Y., An, L., Shi, Z., Zhang, X., Xie, C., Tuerhong, M., Song, Z., Ohizumi, Y., Lee, D., Shuai, L., Xu, J. & Guo, Y.  
*J. Nat. Prod.* 82, 1634-1644(2019)
460. Nitric oxide inhibitory limonoids as potential anti-neuroinflammatory agents from *Swietenia mahagoni*.  
Shi, Z., An, L., Yang, X., Xi, Y., Zhang, C., Shuo, Y., Zhang, J., Jin, D.-Q., Ohizumi, Y., Lee, D., Xu, J. & Guo, Y.  
*Bioorganic Chemistry* 84, 177-185(2019).
461. Cytotoxic clerodane diterpenoids from the leaves of *Casearia kurzii*.  
Ma, J., Yang, X., Zhang, Q., Zhang, X., Xie, C., Tuerhong, M., Zhang, J., Jin, D.-Q., Lee, D., Xu, J., Ohizumi, Y. & Guo, Y.  
*Bioorganic Chemistry* 85, 558-567(2019).
462. NO inhibitory phytochemicals as potential anti-inflammatory agents from the twigs of *Trigonostemon heterophyllus*.  
Xi, Y., An, L., Yang, X., Song, Z., Zhang, J., Tuerhong, M., Jin, D.-Q., Ohizumi, Y., Lee, D., Xu, J. & Guo, Y.  
*Bioorganic Chemistry* 87, 417-424(2019).
463. Bioactive terpenoids from *Euonymus verrucosus* var. *pauciflorus* showing NO inhibitory activities.  
Yang, Y., Yang, X., Zhang, X., Song, Z., Liu, F., Liang, Y., Zhang, J., Jin, D.-Q., Xu, J., Lee, D., Tuerhong, M., Ohizumi, Y. & Gu, Y.  
*Bioorganic Chemistry* 87, 447-456(2019).
464. Withanolides from *Physalis peruviana* showing nitric oxide inhibitory effects and affinities with iNOS.  
Dong, B., An, L., Yang, X., Zhang, X., Zhang, J., Tuerhong, M., Jin, D.-Q., Ohizumi, Y., Lee, D., Xu, J. & Guo, Y.  
*Bioorganic Chemistry* 87, 585-593(2019).

465. Cytotoxic diterpenoids as potential anticancer agents from the twigs of *Casearia kurzii*.  
Liu, F., Zhang, Q., Yang, X., Xi, Y., Zhang, X., Wang, H., Zhang, J., Tuerhong, M., Jin, D.-Q., Lee, D., Xu, J., Ohizumi, Y., Shuai, L., Guo, Y.  
*Bioorg Chem* 89,102995 (2019).
466. An active heteropolysaccharide from the rinds of *Garcinia mangostana* Linn.: Structural characterization and immunomodulation activity evaluation.  
Zhang, S., An, L., Li, Z., Wang, H., Shi, L., Zhang, J., Li, Y., Jin, D.Q., Tuerhong, M., Ohizumi, Y., Shuai, L., Xu, J., Guo, Y.  
*Carbohydr. Polym.* 235,115929 (2020).
467. An evaluation of the genotoxicity and subchronic toxicity of the peel extract of Ponkan cultivar “Ohta ponkan”(*Citrus reticulata* Blanco)that is rich in nobiletin with anti-dementia activity  
Najima, A.,Nemoto, K.&Ohizumi,Y.  
*Toxicology and Pharmacology* 114,104670 (2020).
468. *Anredera cordifolia* extract improves MK-801-induced memory impairment in mice.  
Nakajima, A.,Hachiro, M.,Kajima, K.&Ohizumi Y.  
*Pharmacometrics* 98,27-30 (2020).

## II.著書・総説 (1979~)

1. Dual action of new polypeptide (Anthopleurin-B) from sea anemone on guinea pig vas deferens  
Ohizumi, Y., Shibata, S. & Norton, T. R.  
*Fed. Proc.*, 38, 604 (1979)
2. 附子およびその成分の薬理  
大泉康, ヒキノヒロシ  
附子の研究 (第2編) (矢数道明, 長沢元夫監修)  
出版科学総合研究所, 東京, 117-155 (1981)
3. Ciguatoxin-induced contraction and supersensitivity in smooth muscle  
Ohizumi, Y., Ishida, Y. & Shibata, S.  
in "Vascular Neuroeffector Mechanisms", J.A. Bevan et al., ed., Raven Press, New York, 301-304 (1983)
4. Okadaic acid, a novel contractile substance isolated from the soft sponge; effects on vascular and nonvascular smooth muscle  
Shibata, S., Ishida, Y., Ohizumi, Y., Kitano, H., Habon, J., Tsukitani, Y. & Kikuchi, H.  
in "Vascular Neuroeffector Mechanisms", J.A. Bevan et al., ed., Raven Press, New York, 311-313 (1983)
5. 南方産魚類の毒シガトキシンおよびマイトイドトキシンの薬理作用  
大泉康 月刊海洋科学, 16, 605-610 (1984)
6. Structures and actions of the peptide toxins, geographutoxin I and II isolated from the cone shell *Conus geographus*  
Nakamura, H., Sato, S., Kobayashi, J., Ohizumi, Y. & Hirata, Y.  
in "Peptide Chemistry 1983", E. Munekata, ed., Protein Research Fundation, Osaka, 197-202 (1984)
7. Potent excitatory effects of maitotoxin on cardiac and smooth muscle  
Ohizumi, Y., Kobayashi, M., Kajiwara, A. & Yasumoto, T.  
in "Toxic Dinoflagellates", A.W. White et al., ed., Elsevier Science Publishing Co., Inc., New York, 369-374 (1985)
8. 神経と骨格筋におけるイオンチャンネル  
大泉康 月刊薬事, 28, 1569-1576 (1986)
9. 生命科学を拓く海産毒  
大泉康, 小林淳一, 中村英士 現代化学, 179, 14-21 (1986)
10. イモ貝, イソギンチャクおよびシガテラ魚の毒の薬理作用

大泉康 海洋天然物化学（北川勲編）化学同人，京都，41-49 (1987)

11. イオンチャネルに作用する海産生物毒の薬理学的研究  
大泉康 薬学雑誌, 107, 471-484 (1987)
12. イモ貝のペプチド毒と毒性発現機構  
小林淳一, 大泉康 化学と生物, 25 (11), 726-733 (1987)
13. 薬理学的, 生化学的 tool を用いてイオンチャンネルの実体をさぐる  
高橋正身, 大泉康 蛋白質 核酸 酵素, 32 (11) 1344-1355 (1987)
14. Ca チャンネル作用薬と Ca チャンネルのタイプの識別  
大泉康 生体の科学, 38 (6), 579-582 (1987)
15. Pharmacological actions of the marine toxins ciguatoxin and maitotoxin isolated from poisonous fish  
Ohizumi, Y. *The Biol. Bull.*, 172, 132-136 (1987)
16. 有用薬理活性物質  
大泉康 海産有用生理活性物質（安元健, 神谷久男編）恒星社, 東京, 58-75 (1987)
17. Inhibition of myofibril contraction and myosin ATPase activity by 6-tridecylresorcylic acid and its analogues  
Kobayashi, M., Kajiwara, A., Takahashi, M., Ohizumi, Y., & Shoji, N.  
in "Energy Transduction in ATPase", Y. Mukohata et al., ed., Yamada Science Foundation, Osaka, 188-191 (1988)
18. Research on marine natural products at Mitsubishi Kasei Institute of *Life Sciences*  
Kobayashi, J., Nakamura, H., Ohizumi, Y., Kobayashi, M. & Hirata, Y.  
in "Pharmaceuticals and the Sea", C.W. Jefford, K.L. Rinehart & L.S. Shield, ed., Technomic Publishing Company, Lancaster, 73-78 (1988)
19. 末梢神経に作用する天然物質  
福田英臣, 大泉康 生物活性天然物質（柴田承二編）医歯薬出版株式会社, 東京, 269-277 (1988)
20. Chemistry and Pharmacology of palytoxin  
Hirata, Y., Uemura, D. & Ohizumi, Y. in "Handbook of Natural Toxins" (vol. 3) , A.T. Tu, ed., Marcel Dekker, Inc., New York, 241-258 (1988)
21. Purealbin, activator of the superprecipitation of actomyosin, inhibits Ca-ATPase but activates EDTA-ATPase of myosin  
Nakamura, Y., Nakamura, H., Wu, H., Kobayashi, J. & Ohizumi, Y.  
in "Energy Transduction in ATPases", Y. Mukohata et al., ed., Yamada Science Foundation, Osaka, 184-187 (1988)
22. 海産毒 maitotoxin の毒性発現機構－特に神経に対する作用－

大泉康 マイコトキシン, 27, 7-10 (1988)

23. 動物毒  
大泉康, 小林正紀, 清野麻美 トキシコロジー II (福田英臣, 内山充, 佐藤哲男監訳) 同文書院, 東京, 733-783 (1988)
24. 生理学および生化学における tool として有用な海産生理活性物質  
大泉康 千葉県病薬会報, 82, 8-11 (1988)
25. Gingerol, an activator of  $\text{Ca}^{2+}$ -pumping ATPase of sarcoplasmic reticulum, causes cardiotonic action in guinea pig atrial muscle  
Kobayashi, M., Ishida, Y., Shoji, N. & Ohizumi, Y.  
in "Biosignalling in Cardiac and Vascular Systems" M. Fujiwara, S. Narumiya & S. Miwa, ed., Pergamon Press, Oxford, 244-247 (1989)
26. The mechanism of cardiotonic action of ciguatoxin on guinea-pig cardiac muscle  
Seino, A., Kobayashi, M., Momose, K., Yasumoto, T. & Ohizumi, Y.  
in "Biosignalling in Cardiac and Vascular Systems" M. Fujiwara, S. Narumiya & S. Miwa, ed., Pergamon Press, Oxford, 260-263 (1989)
27. 動物毒中毒のメカニズム  
大泉康 中毒研究, 2, 153-158 (1989)
28. Ca チャンネルに作用する天然物  
大泉康 日本臨床, 47, 1683-1688 (1989)
29. The mode of cardiotonic and cardiotoxic action of maitotoxin and ciguatoxin, ciguatera toxins  
Ohizumi, Y.  
in "Mycotoxin and Phycotoxin" S. Natori, K. Hashimoto & Y. Ueno, ed., Elsevier Science Publishers, B.V., Amsterdam, 407-416 (1989)
30. ジェオグラフトキシン ( $\mu$ -コノトキシン)  
大泉康 生体の科学, 40, 426-427 (1989)
31. Cone shell toxins and the mechanisms of their pharmacological actions  
Kobayashi, M., Kobayashi, J. & Ohizumi, Y.  
in "Bioorganic Marine Chemistry" (Vol.3), P.J. Scheuer, ed., Springer-Verlag, Heidelberg, (Vol.3), 71-84 (1989)
32. Ca-dependent excitatory effects of maitotoxin on smooth and cardiac muscle  
Ohizumi, Y. & Kobayashi, M.  
in "Marine Toxins: Origin, Structure, and Pharmacology", S. Hall, ed., American Chemical Society, 133-143 (1990)
33. Mechanism of pharmacological action of palytoxin  
Ohizumi, Y.

- in "Marine toxins: Origin, Structure, and Pharmacology", S. Hall, ed., American Chemical Society, 219-223 (1990)
34. 神経毒  
大泉康 膜と界面 (渡辺寛人, 鎌滝哲也, 梅澤喜夫 編) 学会出版センター, 東京, 278-285 (1990)
35. The cellular mechanism of action of maitotoxin and ciguatoxin  
Ohizumi, Y.  
in "Cellular and Molecular Mode of Action of Selected Microbial Toxins in Foods and Feeds", A.E. Pohland & J. Richard, ed., Plenum Publishing Corporation, New York, 597-603 (1990)
36. Synthesis and properties of geographutoxins and their analogs  
Sato, K., Nakamura, H., Kobayashi, J., Kato, R., Muroyama, A., & Ohizumi, Y.  
in "Peptide Chemistry 1989", N. Yanaihara, ed., Protein Research Foundation, Osaka, 97-102 (1990)
37. Structure-activity relationship of geographutoxin (III). Search for an active site by the synthesis of a series of analogs substituted with a single alanine  
Sato, K., Ishida, Y., Wakamatsu, K., Ohizumi, Y., Kato, R., Honda, H. & Nakamura, H.  
in "Peptide Chemistry 1990", Y. Shimonishi, ed., Protein Research Foundation, Osaka, 229-234 (1991)
38. Application of physiologically active substance from marine microorganisms to the field of life sciences  
Ohizumi, Y.  
in "Advances in New Drug Development", B. Kim, E. Lee & Y. Han, ed., The Pharmaceutical Society of Korea, Seoul, 328-335, (1991)
39. Structure-activity relationship of geographutoxin analogs  
Sato, K., Nakamura, H., Ishida, Y., Kobayashi, J., Kato, R., Muroyama, A., Honda, H. & Ohizumi, Y.  
in "Peptides 1990", E. Giralt & D. Andreu, ed., ESCOM Science Publishers B. V., 234-235 (1991)
40. 続医薬品の開発 (海洋資源と医薬品 I )  
矢島治明, 塩入孝之, 大泉康編, 広川書店, 東京 (1991)
41. 中枢神経系における微量アミンおよび可能性のある調節物質  
大泉康 神経伝達物質 (薬物作用と疾患) (瀬川富朗, 福田英臣, 栗山欣彌, 監訳), 広川書店, 東京, 278-285 (1991).
42. Ca チャンネル研究に有用な海洋毒

- 大泉康 細胞, 24, 4-8 (1992)
43. 新しいタイプの強心薬  
大泉康 日薬理誌, 100, 259-269 (1992)
44. 海洋薬理活性物質  
大泉康 BIOMedica, 7, 52-56 (1992)
45. 筋収縮系の生化学的研究に有用な天然生理活性物質  
大泉康 生化学, 64, 177-181 (1992)
46. イオンチャネルの薬理-チャネルブロッカーとチャネル作用薬  
大泉康 Clinical Neuroscience, 10, 427-429 (1992)
47. Geographutoxins  
Nakamura, H., Sato, K. & Ohizumi, Y.  
in "Methods in Neuroscience", vol. 8 (Neurotoxins), P. Michael Conn, ed., Academic Press, New York, 271-282 (1992)
48. 続医薬品の開発 (海洋資源と医薬品 II )  
矢島治明, 塩入孝之, 大泉康編 広川書店, 東京 (1992)
49. シガテラ毒マイトキシンの薬理作用  
大泉康 海洋資源と医薬品 II (矢島治明, 塩入孝之, 大泉康編) 広川書店, 東京, 516-524 (1992)
50. 新しい強心薬の開発動向  
大泉康 日本臨床, 51, 179-184 (1993)
51. Effects of 9-methyl-7-bromoeudistomin D(MBED) , a powerful  $\text{Ca}^{2+}$  releaser, on smooth muscles of the guinea pig  
Imaizumi, Y., Henmi, S., Uyama, Y., Watanabe, M. & Ohizumi, Y. The Annals of the New York Academy of Science, 707, 546-549 (1993)
52. 葛根湯, 小紫胡湯および麻黄湯の作用 : ウサギ培養アストロサイトにおけるプロスタグランジン生成およびイノシトールリン脂質水解  
中畠則道, 大泉康, 石森裕美, 中西弘則 Pharma Medica, 11, 246-253 (1993)
53. 葛根湯および桂枝湯のウサギ培養アストロサイトにおけるプロスタグランジン  $E_2$  生成に及ぼす作用  
中畠則道, 久津輪瑞代, 大泉康 Pharma Medica, 13, 200-204 (1995)
54. カラーグラフィック 危険な海洋生物  
大泉康 (監訳) 広川書店, 東京 (1995)
55. 超活性海洋天然物の化学とその生命科学への応用に関する総説集  
大泉康 (編集) 東北プリント, 仙台 (1995)
56. Pharmacological studies of physiologically active substances isolated from marine organisms

- Ohizumi, Y. *Toxin Reviews*, 15 (2), 109-128 (1996)
57. 葛根湯②基礎  
大泉康 漢方製剤の知識 (XIV) (日本病院薬剤師会監修)  
薬事新報社, 東京, 84-86 (1997)
58. Application of physiologically active natural products to the elucidation of molecular mechanisms of ion channels and contractile protein  
Ohizumi, Y.  
in "Dynamic Aspects of Natural Products Chemistry-Molecular Biological Approaches", K. Ogura & U. Sankawa, ed., Kodansha Ltd, Tokyo and Harwood Academic Publishers, Amsterdam, 245-263 (1997)
59. Application of physiologically active substances isolated from natural resources to pharmacological studies  
Ohizumi, Y. *Jpn. J. Pharmacol.*, 73, 263-289 (1997)
60. 生理活性物質をツールとして用いた細胞情報伝達機構の解明と創薬  
大泉康 日薬理誌, 110, 139-142 (1997)
61. 生姜 乾姜  
大泉康 漢方薬理学 (木村正康編) 南山堂, 東京, 326-328 (1997)
62. 薬用資源の探索・薬効評価および生命科学への応用  
大泉康 薬用資源学 (山崎幹夫・齋藤和季編) 丸善, 東京, 127-142 (1997)
63. 麻黄附子細辛湯のグリア細胞に対する作用解析  
中畠則道, 栗田美智子, 小田まゆみ, 大泉康 和漢医薬学会誌, 14, 378-379 (1997)
64. 循環器疾患におけるアシドーシスの役割  
古川賢一, 大泉康 血管, 21(1), 1-4 (1998)
65. 海産毒物  
大泉康 薬理学 (高折修二, 福田英臣編) 広川書店, 東京, 1215-1244 (1998)
66. クモ毒 サソリ毒  
大泉康 生化学辞典 (第3版) 東京化学同人, 東京, 397, 584 (1998)
67. ロイコトリエン受容体・トロンボキサン受容体  
大泉康, 中畠則道 細胞膜の受容体 (高柳一成編) 南山堂, 東京, 287-299 (1998)
68. Search for receptor blocking substances from natural resources and their pharmacological studies  
Ohizumi, Y.  
in "Towards Natural Medicine Research in the 21st Century", H. Ageta, N. Aimi, Y. Ebizuka, T. Fujita & G. Honda, ed., Elsevier, Amsterdam, 103-112 (1998)
69. プロスタノイド受容体,

- 中畠則道, 大泉康 薬局 南山堂, 東京, 1365-1373 (1999)
70. 生薬の薬理作用と試験法  
大泉康 漢方薬・生薬薬剤師講座テキストー5 (日本薬剤師研修センター編) , 東京, 68-82 (2000)
71. 麻黄附子細辛湯の作用機序に関する検討  
大泉康, 中畠則道 漢方研究 2000 (No.12) 月刊漢方研究, 大阪, 2-5 (2000)
72. イモ貝のペプチド毒の化学構造と薬理作用機構  
大泉康, 松永公浩 蛋白質 核酸 酵素, 46, 449-454 (2001)
73. 循環器におけるアシドーシスによる傷害  
斎藤真也, 古川賢一, 大泉康 応用薬理, 62, 91-96 (2002)
74. 天然毒  
大泉康 医学書院医学大辞典, 医学書院, 東京 (2003)
75. 創薬と動物実験  
大泉康 応用薬理, 64, 41-44 (2003)
76. 神経栄養因子活性を有する天然物の探索とそのターゲット分子の解析  
大泉康, 山國徹, 斎藤真也 医学のあゆみ, 207, 46-50 (2003)
77. Search for constituents with neurotrophic factor-potentiating activity from the Medicinal plants of Paraguay and Thailand  
Li, Y. & Ohizumi, Y. *Yakugaku Zasshi*, 124, 417-424 (2004)
78. Pharmacological active substances from paraguayan medicinal plants  
Li, Y. & Ohizumi, Y. *Pharmacometrics*, 66, 133-139 (2004)
79. 植物毒  
大泉康 毒物・中毒用語辞典 (Anthony T.Tu 編) , 化学同人, 京都 (2005)
80. PKA/ERK/CREB 依存的シグナル伝達経路を活性化する柑橘類フラボノイド nobiletin はアルツハイマー病モデル動物における A $\beta$  ・誘発性記憶障害を改善する  
山國徹, 大泉康 応用薬理, 70, 35-39 (2006)
81. タイ産マンゴスティーン果実抽出物の有効利用の研究—機能性食品, 多機能性化粧品への応用—  
山國徹, 大泉康 応用薬理, 70, 47-52 (2006)
82. 陳皮の抗アルツハイマー病活性成分ノビレチン—アルツハイマー病の新しい予防法と根本治療法の確立を目指して—  
山國徹, 大泉康 漢方と最新治療, 16, 247-250 (2007)
83. 陳皮の抗認知症成分 nobiletin の薬理作用とその機能性食品開発への応用  
山國徹, 中島晶, 大泉康 日薬理誌, 132, 155-159 (2008)
84. 陳皮成分 nobiletin の抗アルツハイマー病作用

- 山國徹, 中島晶, 大泉康 Clinical Neuroscience, 26,1178-1179 (2008)
85. 漢方薬・生薬の薬理効果（消化器疾患・循環器疾患・呼吸器疾患・代謝内分泌疾患・泌尿器疾患・産婦人科疾患）  
大泉康 漢方医薬学の基礎（野村靖幸編） 廣川書店, 東京, 105-122 (2010)
86. 陳皮の抗認知症成分ノビレチンによるアミロイド $\beta$ ペプチド（A $\beta$ ）の神経毒性 発現作用と A $\beta$ 誘発性記憶障害改善  
山國 徹, 中島 晶, 大泉 康 薬学雑誌, 130, 517-520 (2010)
87. 陳皮成分ノビレチンの抗認知症作用の行動薬理学的証明と機能性食品開発への応用  
山國 徹, 中島 晶, 大泉 康 実験薬理学「実践行動薬理学」（日本薬理学会編）, 金芳堂, 京都, 191-197 (2010)
88. 柑橘類果皮の認知症予防の可能性  
大泉 康 医と食, 4, 302-306 (2012)
89. 認知症の予防・治療技術開発の研究 一柑橘類果皮を用いた新しい戦略一  
大泉 康 応用薬理, 85, 65-71 (2013)
90. Anti-dementia activity of nobiletin, a citrus flavonoid: a review of animal studies  
Nakajima,A., Ohizumi,Y., Yamada, K.  
*Clin. Psychopharmacol.Neurosci.* 12, 75-82 (2014)  
〔転載：応用薬理, 87,1-9 (2014)〕
91. 認知症の予防・治療技術開発の新しい戦略—天然物を用いたアプローチ—  
大泉 康 薬学雑誌, 135, 449-464 (2015)
92. 柑橘類成分ノビレチンの抗認知症機能性食品開発研究に必要な薬理学的エビデンス  
大泉康, 木村純子 脳機能改善食品素材の開発と応用（太田明一編） シーエムシー出版, 東京, 141-152 (2016)  
〔転載：応用薬理, 91,1-9 (2016)〕
93. ノビレチンの抗アルツハイマー病作用機構に関する最近の研究動向  
木村純子, 大泉康 応用薬理, 92, 9-24 (2017)
94. 柑橘類果皮成分 nobiletin の認知症予防・改善効果の薬理学的検証  
大泉康, 松崎健太郎 Medical Herb, 40, 32-37 (2017)  
〔転載：応用薬理, 92, 107-112 (2017)〕
95. ノビレチン  
松崎健太郎, 大泉康 認知症と機能性食品—最新動向とその可能性—（吉川敏一編）  
フジメディカル出版, 大阪, 48-54 (2018)  
〔転載：応用薬理, 96, 39-43 (2019)〕
96. 柑橘類果皮を利用した抗認知症機能性食品の開発に向けた基盤技術の開発  
鎌田真綺, 大泉康, 認知症の早期診断技術と進行抑制/予防薬・機能性食品の開発 技術情報協会, 東京, 438-446 (2019)

97. Potential benefits of nobiletin, a citrus flavonoid, against Alzheimer's disease and Parkinson's disease  
Nakajima, A., Ohizumi, Y. *International Journal of Molecular Sciences*, 20(14), 3380 (2019) ;  
<https://doi.org/10.3390/ijms20143380>
98. ノビレチンー抗認知症機能性食品開発に向けてー  
松崎健太郎, 大泉康一 運動機能・認知機能改善食品の開発(井上和生, 山崎英恵監修)  
シーイムシー出版, 東京, 260-272 (2020)

### **III. 出願特許 (1980~)**

**1. 発明の名称：強心剤**

発明者：竹本常松，庄子 昇，大泉 康，成松 明博

出願番号：特願 昭 55-135376

出願日：1980.9.29

**2. 発明の名称：デオキシサルコフィン**

発明者：小林淳一，大泉 康，中村英士，松崎尹雄

出願番号：特願 昭 57-33432

出願日：1982.3.3

**3. 発明の名称：ノートカトール**

発明者：竹本常松，庄司 昇，大泉 康

出願番号：特願 昭 57-46022

出願日：1982.3.23

**4. 発明の名称：血圧降下剤**

発明者：竹本常松，庄司 昇，大泉 康，中尾 健一郎，戸部 昭広

出願番号：特願 昭 57-66719

出願日：1982.4.21

**5. 発明の名称：糖蛋白質**

発明者：小林淳一，阿部 玲子，中村英士，大泉 康，平田 義正

出願番号：特願 昭 57-107254

出願日：1982.6.22

**6. 発明の名称：ナフチリジン化合物**

発明者：中村英士，小林淳一，阿部 玲子，大泉 康

出願番号：特願 昭 57-159358

出願日：1982.9.13

**7. 発明の名称：テルペソ化合物**

発明者：中村英士，阿部 玲子，室山晶子，小林淳一，大泉 康

出願番号：特願 昭 58-73347

出願日：1983.4.26

8. 発明の名称：アルカロイド

発明者：中村英士，阿部 玲子，小林淳一，大泉 康

出願番号：特願 昭 58-106506

出願日：1983.6.14

9. 発明の名称：テルペン化合物

発明者：中村英士，阿部 玲子，大泉 康，小林 正紀

出願番号：特願 昭 59-22608

出願日：1984.2.9

10. 発明の名称：アデニン誘導体

発明者：中村英士，阿部 玲子，大泉 康，小林 正紀

出願番号：特願 昭 59-39430

出願日：1984.3.1

11. 発明の名称：セスキテルペン化合物

発明者：中村英士，阿部 玲子，大泉 康

出願番号：特願 昭 59-48556

出願日：1984.3.14

12. 発明の名称：強心剤

発明者：大泉 康，室山晶子，竹本常松，庄子 昇

出願番号：特願 昭 59-81615

出願日：1984.4.23

13. 発明の名称：Na チャンネル解析試薬

発明者：大泉 康，中村英士，蓑島 伸生，小林 正紀，高橋 正身

出願番号：特願 昭 59-97070

出願日：1984.5.15

14. 発明の名称：強心剤

発明者：中村英士，大泉 康，小林 正紀

出願番号：特願 昭 59-152628

出願日：1984.7.23

15. 発明の名称：チロシン誘導体またはその塩  
発明者：中村英士，小林淳一，中村洋一，大泉 康  
出願番号：特願 昭 59-252491  
出願日：1984.11.29
16. 発明の名称：テルペソ化合物  
発明者：小林淳一，中村英士，大泉 康  
出願番号：特願 昭 61-1868  
出願日：1986.1.8
17. 発明の名称：ピロール化合物  
発明者：小林淳一，中村英士，大泉 康  
出願番号：特願 昭 61-1869  
出願日：1986.1.8
18. 発明の名称：アルカロイド化合物  
発明者：小林淳一，中村英士，大泉 康  
出願番号：特願 昭 61-4677  
出願日：1986.1.13
19. 発明の名称：ピペリン系アルカロイド  
発明者：大泉 康，室山晶子，庄子 昇，竹本常松  
出願番号：特願 昭 61-21477  
出願日：1986.2.3
20. 発明の名称：冠血管拡張薬  
発明者：大泉 康，室山晶子，庄子 昇，竹本常松  
出願番号：特願 昭 61-21478  
出願日：1986.2.3
21. 発明の名称：ポリペプチド化合物  
発明者：中村英士，小林淳一，大泉 康  
出願番号：特願 昭 61-28330  
出願日：1986.2.12
22. 発明の名称：テルペソ化合物

発明者：中村英士，小林淳一，大泉 康  
出願番号：特願 昭 61-36217  
出願日：1986.2.20

23. 発明の名称：ピロール化合物  
発明者：小林淳一，中村英士，大泉 康  
出願番号：特願 昭 61-83876  
出願日：1986.4.11

24. 発明の名称：ポリペプチド化合物  
発明者：中村英士，小林淳一，大泉 康  
出願番号：特願 昭 61-173457  
出願日：1986.7.23

25. 発明の名称：ピペリジン化合物  
発明者：小林淳一，石橋正己，中村英士，大泉 康  
出願番号：特願 昭 61-183210  
出願日：1986.8.4

26. 発明の名称：ジテルペン化合物  
発明者：中村英士，小林淳一，大泉 康  
出願番号：特願 昭 61-196896  
出願日：1986.8.22

27. 発明の名称：アルカロイド化合物  
発明者：中村英士，小林淳一，大泉 康，松崎尹雄，朝武康子  
出願番号：特願 昭 61-196897  
出願日：1986.8.22

28. 発明の名称：インドール誘導体  
発明者：小林淳一，大泉 康  
出願番号：特願 昭 62-83899  
出願日：1987.4.7

29. 発明の名称：19員環マクロライド化合物  
発明者：小林淳一，石橋正己，大泉 康

出願番号：特願 昭 62-103132

出願日：1987.4.28

30. 発明の名称：含臭素アルカロイド  
発明者：小林淳一，大泉 康  
出願番号：特願 昭 62-144119  
出願日：1987.6.11

31. 発明の名称：4 環性アルカロイド  
発明者：小林淳一，大泉 康  
出願番号：特願 昭 62-288571  
出願日：1987.11.17

32. 発明の名称：トリテルペン  
発明者：小林淳一，大泉 康  
出願番号：特願 昭 62-321386  
出願日：1987.12.21

33. 発明の名称：テルペン化合物  
発明者：小林淳一，石橋正己，大泉 康  
出願番号：特願 昭 63-7479  
出願日：1988.1.19

34. 発明の名称：5 環性アルカロイド  
発明者：小林淳一，大泉 康  
出願番号：特願 昭 63-7480  
出願日：1988.1.19

35. 発明の名称：含臭素インドール  
発明者：小林淳一，石橋正己，大泉 康  
出願番号：特願 昭 63-21339  
出願日：1988.2.2

36. 発明の名称：含硫黄アルカロイド  
発明者：小林淳一，大泉 康  
出願番号：特願 昭 63-23739

出願日：1988.2.5

37. 発明の名称：7環性アルカロイド  
発明者：小林淳一，大泉康  
出願番号：特願昭63-83190  
出願日：1988.4.6
38. 発明の名称：24員環マクロライド化合物  
発明者：小林淳一，大泉康  
出願番号：特願昭63-190638  
出願日：1988.8.1
39. 発明の名称：ジテルペン化合物  
発明者：小林淳一，大泉康，松崎尹雄，朝武康子  
出願番号：特願昭63-306919  
出願日：1988.12.6
40. 発明の名称：環状パーオキシド化合物  
発明者：小林淳一，村山哲也，大泉康  
出願番号：特願平1-46499  
出願日：1989.3.1
41. 発明の名称：ピリジンアルカロイド化合物  
発明者：小林淳一，村山哲也，大泉康  
出願番号：特願平1-149717  
出願日：1989.6.14
42. 発明の名称：セスキテルペン化合物  
発明者：中村英士，小林淳一，大泉康，高松昌子  
出願番号：特願平1-177199  
出願日：1989.7.11
43. 発明の名称：精神安定性素材及び食品  
発明者：大泉康，安田英之，伊藤雅範，滝田俊男  
出願番号：特願平8-41804  
出願日：1996.2.28

44. 発明の名称：抗アレルギー剤

発明者：大泉 康，古川賢一，ナッタヤー チャイランシーラート，  
太田富久，野幅重男

出願番号：特願 平 8-229997

出願日：1996.8.30

45. 発明の名称：シクロオキシゲナーゼ阻害剤及びこれを含有する飲食品

発明者：大泉 康，荒川勉，大澤謙二，志村進

出願番号：特願 平 12-235023

出願日：2000.8.2

46. 発明の名称：抗うつ・抗ストレス剤及びそれを含有する組成物

発明者：大泉 康，大澤謙二，荒川 勉

出願番号：特願 平 13-336845

出願日：2001.11.1

47. 発明の名称：プロスタグラジン E2 遊離抑制剤

発明者：大泉 康，山國 徹，石黒京子

出願番号：特願 平 15-157412

出願日：2003.6.3

48. 発明の名称：神経変性疾患治療剤

発明者：大泉 康，山國 徹，井戸達雄，只野 武，三巻祥治，指田 豊

出願番号：特願 平 16-57552

出願日：2004.3.2

特許番号：450555号

特許出願人：大泉 康，山國 徹，（有）カンズ研究開発

登録日：2010.5.14

49. 発明の名称：IkB キナーゼ阻害剤

発明者：大泉 康，山國 徹，荒川 勉，大澤謙二，志村 進

出願番号：特願 平 16-114624

出願日：2004.4.8

50. 発明の名称：学習記憶障害を改善する機能性食品

発明者：大泉 康，山國 徹，田口 茂，只野 武，三巻祥治

出願番号：特願 平17-252976

出願日：2005.9.1

51. 発明の名称：認知障害改善薬

発明者：山口喜久二，大泉 康，山國 徹，中島 晶，岩淵好治，渋谷正俊

出願番号：特願 2009-546611（国際特許出願番号 PCT/JP2009/060937）

出願日：2009.11.18

52. 発明の名称：学習・記憶障害および運動障害などを伴う中枢神経変性疾患を改善する乾燥植物組織および植物抽出物ならびにこれらを含有する医薬品および食品

発明者：大泉 康，山國 徹，川畠 伊知郎，吉田 雅昭

特許番号：WO2011105568 A1

出願番号：PCT/JP2011/054358

出願日：2011.2.25

特許出願人：[小太郎漢方製薬株式会社](#), [国立大学法人東北大学](#)

53. 発明の名称：ローヤルゼリーの抗認知症活性の増強剤

発明者：大泉 康，瀧戸 次郎，山口 喜久二，猪股 宏，太田 昌樹

特許番号：6201086

登録日：2017.9.1

出願番号：特願 2015-217639

出願日：2015.11.5

特許出願人：ジャパンローヤルゼリー(株), 東北大学

54. 発明の名称：医薬品組成物および食品

(1)国内特許

発明者：大泉 康，嘉島康二，丸山浩司，奥 直人，清水広介，木村純子

出願番号：特願 2016-109715

出願日：2016.6.1.

特許出願人：株式会社三協ホールディングス, 大泉康, 静岡県公立大学法人

55. 発明の名称：医薬組成物および食品

発明者：大泉 康，嘉島 康二，丸山 浩司

出願番号：特願 2016-109716

出願日：2016.6.1.

特許番号：6238089

特許出願人：株式会社三協ホールディングス，大泉康，学校法人梅檀学園

登録日：2017.11.10

56. 発明の名称：医薬組成物および食品

発明者：大泉 康，嘉島 康二，丸山 浩司

出願番号：特願 2016-109717

出願日：2016.6.1

特許出願人：株式会社三協ホールディングス，大泉康，学校法人梅檀学園

57. 発明の名称：医薬組成物および食品

発明者：大泉 康，嘉島 康二，丸山 浩司，石橋 正巳

出願番号：特願 2016-109718

出願日：2016.6.1

特許出願人：株式会社三協ホールディングス，大泉 康，学校法人梅檀学園

58. 発明の名称：スクリーニング方法

発明者：大泉 康，嘉島康二

出願番号：PCT / JP2017 / 042339

出願日：2017.11.27

特許出願人：大泉 康

#### IV. 論説・解説・対談（1988～）

1. 研究室から “海産生理活性物質の生命科学領域への応用”  
大泉康、小林淳一 ファルマシア, 24, 887-890 (1988)
2. 海洋生理活性物質の薬学領域への応用-研究の現状と将来の展望  
大泉康 草薬（草野源次郎編） 106-110 (1990)
3. Ca チャンネルと病態  
大泉康 治療学, 24(11), 119 (1990)
4. 新任教授あいさつ  
大泉康 あみこす（東北大学薬友会発行） 35-2, 4-5 (1990)
5. 21世紀のための海洋資源  
大泉康 ファルマシア, 29, 59 3(1993)
6. 海洋生物の生理活性物質と創薬研究についての将来  
大泉康 薬事日報（薬事日報社） 8291号 (1994)
7. 夢ゆたかなる 21世紀の天然薬物資源の開拓  
大泉康 薬科機器（日本薬科機器協会）
8. 日本薬学会第115年会見どころ聞きどころ（生薬学天然物化学部会）  
大泉康 薬事日報（薬事日報社） 第8488号 (1995)
9. Ca 遊離チャネルの分子制御機構の研究－天然生理活性物質からのアプローチ  
大泉康 CYRIC ニュース（東北大学サイクロトロン・ラジオアイソトープセンター発行） No. 20, 7-12 (1996)
10. 葛根湯（2）基礎  
大泉康 日本病院薬剤師会雑誌 32, 441-442 (1996)
11. 第5回バイオサイエンスシンポジウム「細胞情報伝達研究－21世紀に向けた新展開」を企画するにあたって  
大泉康 MEDCHEM NEWS, 7(2), 29 (1997)
12. 生理活性物質をツールとして用いた細胞情報伝達機構の解明  
大泉康 Medical Academy News（薬事日報社） 第654号 (1997)
13. 第5回バイオサイエンスシンポジウム「細胞情報伝達研究－21世紀に向けた新展開」  
大泉康 Medical Academy News（薬事日報社） 第655号 (1997)
14. 薬物受容体を介した情報伝達の解明と創薬 S-16「生理活性物質をツールとして用いた細胞伝達機構の解明と創薬」  
大泉康 日薬理誌, 110, 139-142 (1997)
15. Mechanism of mastoparan-induced histamine release from RBL-2H3 cells  
Mizumo, K., Nakahata, N. & Ohizumi, Y. CYRI Annual Report, 111-116 (1997)

16. 21世紀の生命科学を拓く天然物研究－研究の過去、現在そして未来への展望  
大泉康　東北大学学報第1488号, 199-200 (1998)
17. 天然由来物質バイカレインによる mitogen-activated protein kinase (MAPK) カスケードの抑制  
中畠則道, 姜れいき, 久津輪瑞代, 大泉康　日薬理誌, 114, 215-219 (1999)
18. くすりのツールと作用 (18) 南天の実から単離された抗セロトニン薬の作用を目で見る－モレキュラーモデリングを用いた作用解析  
大泉康　東北大学学報第1544号, 388 (2001)
19. 創薬と動物実験  
大泉康　学術の動向 (日本学術協力財団発行) 2002 (9号), 26-30 (2002)
20. 創薬と動物実験  
大泉康　実験動物ニュース (日本実験動物学会発行) 52, 18-22 (2003)
21. 天然生理活性物質の医学・薬学への応用－特に海洋生理活性物質について  
大泉康　秋葉PRESS (秋田県薬剤師会発行) 22(6), 3-20 (2004)
22. 名誉会長小澤光先生のご逝去を悼む、大泉康、応用薬理、65, 49-50 (2003)
23. アルツハイマー病治療薬開発の新戦略  
大泉康　まなびの杜 (「まなびの杜」編集委員会発行) 2005春号, No.31, 2 (2005)
24. アルツハイマー病治療薬開発の新しいアプローチ  
大泉康　応用薬理 68(3/4), 113-116 (2005)
25. 国民医療費の高騰と医学・薬学の責任  
大泉康　日薬理誌, 127, 1-2 (2006) [転載：応用薬理, 70, 41-42 (2006)]
26. 応用薬理研究会のこれまでの40年とこれからの40年  
大泉康　応用薬理 72(1/2), 3 (2007)
27. 高齢化社会における漢方薬及び機能性食品研究の重要性－アルツハイマー病の対策を中心に－  
大泉康　漢方研究 7月号, 26-27 (2008)
28. 高齢化社会における薬用植物の教育研究の重要性について  
大泉康　日本薬用植物友の会会報 第101号, 2-3 (2008)
29. 温州ミカン果皮 (陳皮) の成分ノビレチンの抗認知症効果－漢方薬及び機能性食品開発をめざして－  
大泉康　日本薬用植物友の会会報 第103号, 8-11 (2008)
30. 漢方医学、漢方薬を普及させるために何が必要か?  
大泉康　漢方研究, 452, 39-40 (2009)
31. アルツハイマー等の認知症の予防・治療法の確立をめざして  
大泉康　応用薬理, 81, 27-29 (2011)
32. 健康長寿を目指す社会における薬学者の責任

- 大泉康 ファルマシア, 50, 275 (2014) [転載：応用薬理,86,71 (2014)]
33. 消費者に分かりやすい表示を考える - 応用薬理研究会, 機能性の論文投稿を積極的に募集 (食品などの多機能性研究は日本の健康寿命に不可欠)  
大泉康, 渡辺泰雄, 末木一夫 (対談) FOOD STYLE 21,20 (No5) ,25-29 (2016)  
[転載：応用薬理,91,93-97 (2016)]
34. 応用薬理研究会設立 50 周年を迎えて—これまでの歴史と将来の展望  
大泉康 応用薬理, 92, 2-3 (2017)
35. 健康寿命の延伸という視点を重視 大泉康, 関口洋一, 嘉島康二(特別対談)  
ヘルスライフビジネス(661 号)10 頁(平成 29 年 6 月 15 日)  
[転載：応用薬理,94,1-3 (2018)]
36. 機能性食品の力で『認知症予防』を 大泉康, 又平芳春(特別対談) ヘルスラ  
イフビジネス(716 号)13 頁(令和元年 10 月 1 日)  
[転載：応用薬理,98,3-4 (2020)]