

Abstract 2006

1. Reversal of delayed vasospasm by TS-011 in the dual hemorrhage dog model of subarachnoid hemorrhage

Hacein-Bey, L.^{1,2,6}, Harder, D.R.⁴, Meier, H.T.¹, Varelas, P.N.^{2,3}, Miyata, N., Lauer, K.K.⁵, Cusick, J.F.², Roman, R.J.⁴

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American Journal of Neuroradiology, 27(6), 1350-1354, 2006

2. Hemoglobin, NO, and 20-HETE interactions in mediating cerebral vasoconstriction following SAH

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American Journal of Physiology- Regulatory, Integrative and Comparative Physiology, 290, R84-R89, 2006

3. Binding mode of novel 1-substituted quinazoline derivatives to poly(ADP-ribose) polymerase-catalytic domain, revealed by X-ray crystal structure analysis of complexes

Keita Matsumoto, Kazuyuki Kondo, Tomomi Ota, Akira Kawashima, Kunihiro Kitamura, Toshimasa Ishida¹

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Biochimica et Biophysica Acta, 1764, 913-919, 2006

4. Identification of 4-amino-2-cyclohexylaminoquinazolines as metabolically stable melanin-concentrating hormone receptor 1 antagonists

Kosuke Kanuma, Katsunori Omodera, Mariko Nishiguchi, Takeo Funakoshi, Shigeyuki Chaki, Yasuko Nagase, Izumi Iida, Jun-ichi Yamaguchi, Graeme Semple¹, Thuy-Anh Tran¹ and Yoshinori Sekiguchi

¹Arena Pharmaceuticals Inc.

Bioorganic & Medicinal Chemistry, 14, 3307-3319, 2006

5. Synthesis, in vitro pharmacology, and structure-activity relationships of 2-aminobicyclo[3.1.0]hexane-2,6-dicarboxylic acid derivatives as mGluR2 antagonists

Akito Yasuhara, Kazunari Sakagami, Ryoko Yoshikawa, Shigeyuki Chaki, Masato Nakamura and Atsuro Nakazato

Bioorganic & Medicinal Chemistry, 14, 3405-3420, 2006

6. Prodrugs of 3-(3,4-dichlorobenzyloxy)-2-amino-6-fluorobicyclo[3.1.0]hexane-2,6-dicarboxylic acid (MGS0039): A potent and orally active group mGluR antagonist with antidepressant-like potential

Akito Yasuhara, Masato Nakamura, Kazunari Sakagami, Toshiharu Shimazaki, Ryoko Yoshikawa, Shigeyuki Chaki, Hiroshi Ohta and Atsuro Nakazato

Bioorganic & Medicinal Chemistry, 14, 4193-4207, 2006

7. Suppression of AGE Precursor Formation Following Unilateral Ureteral Obstruction in Mouse Kidneys by Transgenic Expression of -Dicarbonyl/ L-Xylulose Reductase

Jun ASAMI, Hiroko ODANI¹, Aiko ISHII, Kayoko OIDE, Takako SUDO, Atsushi NAKAMURA, Noriyuki MIYATA, Noboru OTSUKA

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Biosci. Biotechnol. Biochem., 70(12), 2899-2905, 2006

8. Induction of scratching behaviour and dermatitis in various strains of mice cohabiting with NC/Nga mice with chronic dermatitis

Y. Hashimoto, I. Arai, N. Takano, M. Tanaka and S. Nakaike

British Journal of Dermatology, 154, 28-33, 2006

9. A method to induce stable atopic dermatitis-like symptoms in NC/Nga mice housed with skin-lesioned mice

N. Takano, I. Arai and M. Kurachi

British Journal of Dermatology, 154, 426-430, 2006

10. Studies on the Simultaneous Determination of Ingredients in Pharmaceutical Preparations by Capillary Electrophoresis and Pharmaceutical Applications of in-Capillary Enzyme Reactions

Hitoshi OKAMOTO

BUNSEKI KAGAKU, 55(3), 205-206, 2006

11. A novel prostaglandin E receptor 4-associated protein participates in anti-inflammatory signaling

Takayama, K.¹, Sukhova, G.K.¹, Chin, M.T.², Libby, P.^{1,3}

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Circulation Research, 98(4), 499-504, 2006

**12. Melanin-Concentrating Hormone MCH₁ Receptor Antagonists
A Potential New Approach to the Treatment of Depression and Anxiety Disorders**

Toshiharu Shimazaki, Takao Yoshimizu and Shigeyuki Chaki

CNS Drugs, 20(10), 1-11, 2006

13. Prediction of Drug-Drug Interactions for AUC_{oral} of High Clearance Drug from In Vitro Data: Utilization of a Microtiter Plate Assay and a Dispersion Model

Takahito Yamamoto, Akio Suzuki, Yoshiro Kohno, Kiyoshi Nagata¹ and Yasushi Yamazoe¹

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Current Drug Metabolism, 7, 135-146, 2006

14. Neurochemistry of the Nucleus Accumbens and its Relevance to Depression and Antidepressant Action in Rodents

Yukihiko Shirayama¹ and Shigeyuki Chaki

¹Department of Neuropsychiatry, Faculty of Medicine, Tottori University

Current Neuropharmacology, 4, 277-291, 2006

15. IN VITRO AND IN VIVO EVALUATION OF THE METABOLISM AND BIOAVAILABILITY OF ESTER PRODRUGS OF MGS0039 (3-(3,4-DICHLOROBENZYLOXY)-2-AMINO-6-FLUOROBICYCLO[3.1.0]HEXANE-2,6-DICARBOXYLIC ACID), A POTENT METABOTROPIC GLUTAMATE RECEPTOR ANTAGONIST

Masato Nakamura, Yasunori Kawakita, Akito Yasuhara, Yoshiki Fukasawa, Koji Yoshida, Kazunari Sakagami, and Atsuro Nakazato

DRUG METABOLISM AND DISPOSITION, 34(3), 369-374, 2006

16. Expression of Calcitonin Receptor in Rat Mammary Gland during Lactation

AIKO ISHII¹, MISA NAKAMURA¹, ATSUSHI NAKAMURA, KOICHI TAKEDA¹,

Bo HAN¹ AND KENNICHI KAKUDO¹

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Endocrine Journal, 53(3), 317-324, 2006

17. The pituitary mediates the anxiolytic-like effects of the vasopressin V_{1B} receptor antagonist, SSR149415, in a social interaction test in rats

Toshiharu Shimazaki, Michihiko Iijima, Shigeyuki Chaki

European Journal of Pharmacology, 543, 63-67, 2006

18. Involvement of IL-31 on scratching behavior in NC/Nga mice with atopic-like dermatitis

A. Takaoka, I. Arai, M. Sugimoto, Y. Honma, N. Futaki, A. Nakamura and S. Nakaike

Experimental Dermatology, 15, 161-167, 2006

19. Effects of indomethacin and dexamethasone on mechanical scratching-induced cutaneous barrier disruption in mice

Yusuke Honma, Iwao Arai, Takanobu Sakurai, Nobuko Futaki, Yuki Hashimoto, Masanori Sugimoto, Yutaka Nakanishi and Shiro Nakaike

Experimental Dermatology, 15, 501-508, 2006

20. COX-1 inhibition enhances scratching behaviour in NC/Nga mice with atopic dermatitis

Masanori Sugimoto, Iwao Arai, Nobuko Futaki, Yuki Hashimoto, Yusuke Honma and Shiro Nakaike

Experimental Dermatology, 15, 582-588, 2006

21. Time course changes of scratching counts, dermatitis symptoms, and levels of cutaneous prostaglandins in NC/Nga mice

Masanori Sugimoto, Iwao Arai, Nobuko Futaki, Yuki Hashimoto, Takanobu Sakurai, Shiro Nakaike

Experimental Dermatology, 15, 875-882, 2006

22. Neuropeptide receptors: novel therapeutic targets for depression

Shigeyuki Chaki, Shigeru Okuyama

Folia Pharmacologica Japonica, 127, 196-200, 2006

23. Basic research for chronic obstructive pulmonary disease drug development

Kiyoshi Takayama

Folia Pharmacologica Japonica, 127, 304-307, 2006

24. Idiosyncratic drug toxicity

Hisaharu Yamada, Jun-ichi Yamaguchi, Izumi Iida, Shigeru Okuyama

Folia Pharmacologica Japonica, 127, 473-480, 2006

25. CRF receptor

Shigeyuki Chaki, Shigeru Okuyama

Folia Pharmacologica Japonica, 127(6), 505-507

26. MC₄ receptor

Shigeyuki Chaki, Shigeru Okuyama

Folia Pharmacologica Japonica, 128, 53-55, 2006

27. Role of cutaneous prostaglandin D₂ production on scratching dermatitis in mice

Iwao Arai

Folia Pharmacologica Japonica, 128, 405-410, 2006

28. Hydration and Hydrogen Bonding of Carbonyls in Dimyristoyl-Phosphatidylcholine Bilayer

Victor V. Volkov¹, Francesca Nuti², Yuji Takaoka, Riccardo Chelli^{1,3,4}, Anna Maria Papini², and Roberto Righini^{1,3}

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Journal of American Chemical Society, 128, 9466-9471, 2006

29. Synthesis of 2-Methyl 16-Membered Macrolide Derived from Tylosin

Yuichi Terui, Kenji Kinoshita, Yoshie Kaneda, Toshi Akashi, Takuya Hamaguchi,
Akira Kawashima

Journal of Antibiotics, 59(2), 98-104, 2006

30. Crystal Structure of Ca²⁺-dependent Lectin from a Marine Invertebrate and its Hemolytic Mechanisms

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Journal of Crystallographic Society of Japan, 48, 290-295, 2006

31. Report of the 15th Lecture Meeting of JSPE

Noriyuki HIRASAWA

Journal of JSPME, 15(4), 396-398, 2006

32. Lithium inhibits stress-induced changes in tau phosphorylation in the mouse hippocampus

S. Yoshida¹, M. Maeda, S. Kaku, H. Ikeya, K. Yamada¹, S. Nakaike

¹Laboratory of Neuropsychopharmacology, Kanazawa University Graduate School of Natural Science & Technology

Journal of Neural Transmission, 113, 1803-1814, 2006

33. Simultaneous determination of active ingredients in an ophthalmic solution by isocratic tandem-mode HPLC connected reverse phase column and strong cation exchange column

Takahiro Marunouchi, Masaki Ono, Toshiaki Nakajima, Yuji Ito, Takao Aketo

Journal of Pharmaceutical and Biomedical Analysis, 40(2), 331-337, 2006

34. Neuropsin is essential for early processes of memory acquisition and Schaffer collateral long-term potentiation in adult mouse hippocampus in vivo

Hideki Tamura¹, Yasuyuki Ishikawa¹, Noriko Hino, Maoko Maeda, Shigeru Yoshida, Shinsuke Kaku and Sadao Shiosaka¹

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Journal of Physiology, 570(3), 541-551, 2006

35. Effect of the Ligand on Oxidation-Reduction Potential of Ferrous Fumarate

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Material Technology, 24(6), 325-332, 2006

36. A metabotropic glutamate 2/3 receptor antagonist, MGS0039, increases extracellular dopamine levels in the nucleus accumbens shell

Jun-ichi Karasawa, Takao Yoshimizu, Shigeyuki Chaki

Neuroscience Letters, 393, 127-130, 2006

37. Group metabotropic glutamate receptor-mediated regulation of dopamine release from slices of rat nucleus accumbens

Shigeyuki Chaki, Ryoko Yoshikawa, Shigeru Okuyama

Neuroscience Letters, 404, 182-186, 2006

38. Comparison of PubMed/MEDLINE with other database

Kunio OGAWA

Pharmaceutical Library Bulletin, 51(4), 287-298, 2006

39. In vitro and antinociceptive profile of HON0001, an orally active NMDA receptor NR2B subunit antagonist

Sayoko Suetake-Koga, Toshiharu Shimazaki, Kazuaki Takamori, Shigeyuki Chaki, Kosuke Kanuma, Yoshinori Sekiguchi, Tsutomu Suzuki¹, Toyohiko Kikuchi¹, Yoshimitsu Matsui¹, Toshio Honda¹

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Pharmacology, Biochemistry and Behavior, 84, 134-141, 2006

40. Role of COX-1 and COX-2 on skin PGs biosynthesis by mechanical scratching in mice

M. Sugimoto, I. Arai, N. Futaki, Y. Hashimoto, Y. Honma, S. Nakaike

Prostaglandins, Leukotrienes and Essential Fatty Acids, 75, 1-8, 2006

41. An mGluR2/3 antagonist, MGS0039, exerts antidepressant and anxiolytic effects in behavioral models in rats

Takao Yoshimizu, Toshiharu Shimazaki, Akie Ito, Shigeyuki Chaki

Psychopharmacology, 186(4), 587-593, 2006

42. Non-Monoamine-Based Approach for the Treatment of Depression and Anxiety Disorders

Shigeyuki Chaki, Taketoshi Okubo and Yoshinori Sekiguchi

Recent Patents on CNS Drug Discovery, 1(1), 1-27, 2006

43. Knowledge-based drug discovery

Yuji Takaoka

Solution Guide, 32-34, 2006

44. Effect of a New Inhibitor of the Synthesis of 20-HETE on Cerebral Ischemia Reperfusion Injury

Tomohiro Omura, Yu Tanaka, Noriyuki Miyata, Chie Koizumi, Takanobu Sakurai, Misako Fukasawa, Kenji Hachiuma, Toshiya Minagawa, Teruo Susumu¹, Shigeru

Yoshida, Shiro Nakaike, Shigeru Okuyama, David R. Harder², Richard J. Roman³

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²Cardiovascular Research Center, Medical College of Wisconsin

³Department of Physiology, Medical College of Wisconsin

Stroke, 37, 1307-1313, 2006

45. Full-field ERGs obtained using a contact lens electrode with built-in high intensity white light-emitting diodes in beagle dogs can applied to toxicological assessments

Shoji Sasaki, Haruhiro Yamashita, Kumiko Yagi, Yoshinobu Iwaki and Masaaki Kimura

Toxicology Letters, 166(2), 115-121, 2006

46. Preparation and Characterization of (5-Methyl-2-oxo-1,3-dioxol-4-yl) methyl Thiamine Sulfides

Tetsuro UCHIDA¹, Goro TSUKAMOTO¹, Koji YAMAMOTO, Shun-ichi KAMETANI, Hirofumi MAEKAWA¹, and Ikuzo NISHIGUCHI¹

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Yakugaku Zasshi, 126(3), 179-186, 2006

47. 創薬研究に思うこと

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