

武田研究業績集

2009

Publications
of
Takeda Research Laboratories
2009

July 2010

武田薬品工業株式会社

Takeda Pharmaceutical Company Limited

Osaka, Japan

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Originals in English

Analytical Chemistry

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Akira Terakita, Hirokazu Matsunaga and Tetsuro Handa^a

Chem. Pharm. Bull., **57**, 459-463 (2009)

寺北 晃、松永浩和、半田哲郎

^a Graduate School of Pharmaceutical Sciences, Kyoto University, 46-29 Yoshida-Shimo-Adachi-cho, Sakyo-ku, Kyoto 606-8501, Japan

Organic Chemistry

[T2] Synthesis of Melatonin Receptor Agonist Ramelteon via Rh-catalyzed Asymmetric Hydrogenation of an Allylamine

Masayuki Yamashita and Toru Yamano

Chemistry Letters, **38**(1): 100-101, 2009

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Medicinal Chemistry

[T3] Amide- π Interactions between Formamide and Benzene

Yumi N. Imai, Yoshihisa Inoue, Isao Nakanishi^a and Kazuo Kitaura^a

Journal of Computational Chemistry **30**, 2267-2276, 2009

今井友美、井上佳久、仲西功^a、北浦和夫^a

^a Department of Theoretical Drug Design, Graduate School of Pharmaceutical Sciences, Kyoto University, Sakyo-ku, Kyoto 606-8501, Japan

[T4] A Docking Model of Drug Binding to the Human Ether-à-go-go Potassium Channel guided by Tandem Dimer Mutant Patch-Clamp Data: A Synergic Approach

Yumi N. Imai, Sunghi Ryu and Shigetoshi Oiki^a

Journal of Medicinal Chemistry, **2009**, *52*, 1630-1638

今井友美、柳承希、老木成稔^a

^a Department of Molecular Physiology and Biophysics, Faculty of Medical Sciences, University of Fukui, Fukui 910-1193, Japan

[T5] Discovery of Novel Antihypertensive Agent Angiotensin II Receptor Blocker Candesartan Cilexetil

Takehiko Naka, Keiji Kubo, Kohei Nishikawa, Yoshiyuki Inada and Yoshiyasu Furukawa
Reprints of Achievements in Industrialization Awarded the Okochi Memorial Prize 2008
仲 建彦、久保恵司、西川浩平、稲田義行、古川純康

[T6] Design, synthesis and structure–activity relationships of 1,3,4-oxadiazole derivatives as novel inhibitors of glycogen synthase kinase-3 β

Moriyama Saitoh, Jun Kunitomo, Eiji Kimura, Yoji Hayase, Hiromi Kobayashi, Noriko Uchiyama, Tomohiro Kawamoto, Toshimasa Tanaka, Clifford D. Mol^a, Douglas R. Dougan^a, Garret S. Textor^a, Gyorgy P. Snell^a, Fumio Itoh

Bioorganic & Medicinal Chemistry, 17 (2009) 2017–2029

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^a Takeda San Diego, Inc., 10410 Science Center Drive, San Diego, CA 92121, USA

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Journal of Medicinal Chemistry, 2009, 52, 6270–6286

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^a Takeda San Diego, Inc., 10410 Science Center Drive, San Diego, CA 92121, USA

[T8] From East to West: A Japanese pharma perspective on establishing a global research capability

Muneo Takatani, Barry Kenny^a and Nick Hird

Drug Discovery Today. 2009, 14, 611-617

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^a Takeda Cambridge, 418 Cambridge Science Park, Cambridge CB4 0PA, UK

[T9] Synthesis and biological evaluation of the metabolites of 2-(1-{3-[(6-chloronaphthalen-2-yl)sulfonyl]propanoyl}piperidin-4-yl)-5-methyl-1,2-dihydro-3H-imidazo[1,5-c]imidazol-3-one

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Bioorganic & Medicinal Chemistry, **17**, (2009) 7996-8002

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Biochemistry and Biotechnology

[T10] A Novel Virtual Spectrometry: Visualized Regulatory Motifs on *ADM*, *rPolβ*, and *CD83* mRNAs in Human-Friendly Manners

Shingo Nakamura

The Journal of Biochemistry, 2009;146, 251-261

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Pharmacology

[T11] Pharmacology of Ramelteon, a Selective MT₁/MT₂ Receptor Agonist: A Novel Therapeutic Drug for Sleep Disorders

Masaomi Miyamoto

CNS Neuroscience & Therapeutics, **15**(1): 32-51, 2009

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[T12] The dipeptidyl peptidase-4 inhibitor alogliptin in combination with pioglitazone improves glycemic control, lipid profiles, and increases pancreatic insulin content in *ob/ob* mice

Yusuke Moritoh, Koji Takeuchi, Tomoko Asakawa, Osamu Kataoka and Hiroyuki Odaka

European Journal of Pharmacology, **602**(2-3): 448-454, 2009

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[T13] Chronic Administration of Voglibose, an Alpha-Glucosidase Inhibitor, Increases Active Glucagon-Like Peptide-1 Levels by Increasing Its Secretion and Decreasing Dipeptidyl Peptidase-4 Activity in *ob/ob* Mice

Yusuke Moritoh, Koji Takeuchi and Masatoshi Hazama

Journal of Pharmacology and Experimental Therapeutics, **329**(2): 669-676, 2009

森藤雄亮, 武内浩二, 波佐間正聡

[T14] Combining a dipeptidyl peptidase-4 inhibitor, alogliptin, with pioglitazone improves glycaemic control, lipid profiles and β-cell function in *db/db* mice

Yusuke Moritoh, Koji Takeuchi, Tomoko Asakawa, Osamu Kataoka and Hiroyuki Odaka

British journal of pharmacology, **157**(3): 415-426, 2009

森藤雄亮, 武内浩二, 浅川智子, 片岡 修, 小高裕之

[T15] The Chondroprotective Agent ITZ-1 Inhibits Interleukin-1 β -Induced Matrix Metalloproteinase-13 Production and Suppresses Nitric Oxide-Induced Chondrocyte Death

Haruhide Kimura, Hiroshi Yukitake, Hirobumi Suzuki, Yasukazu Tajima, Koyo Gomaibashi, Shinji Morimoto, Yasunori Funabashi, Kiyofumi Yamada^a and Masayuki Takizawa

Journal of Pharmacological Sciences, **110**(2): 201-211, 2009

木村温英, 行武 洋, 鈴木博文, 田島泰一, 五枚橋高陽, 森本真二, 船橋康昇, 山田清文^a, 瀧澤正之

^a Graduate School of Natural Science and Technology, Kanazawa University

[T16] Efficacy of a Novel, Orally Active GSK-3 Inhibitor 6-Methyl-N-[3-[[3-(1-methylethoxy)propyl]carbonyl]-1H-pyrazol-4-yl]pyridine-3-carboxamide in Tau Transgenic Mice

Yumiko Uno, Hiroki Iwashita, Tetsuya Tsukamoto, Noriko Uchiyama, Tomohiro Kawamoto, Masakuni Kori, Atsushi Nakanishi

Brain Research, **1296**: 148-163, 2009

宇野裕美子、岩下弘樹、塚本徹哉、内山紀子、河本朋広、郡正城、中西淳

[T17] Analysis of binding site for the novel small-molecule TLR4 signal transduction inhibitor TAK-242 and its therapeutic effect on mouse sepsis model

K Takashima, N Matsunaga, M Yoshimatsu, K Hazeki^a, T Kaisho^b, M Uekata, O Hazeki^a, S Akira^c, Y Iizawa and M Ii

British Journal of Pharmacology (2009), **157**, 1250–1262

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^c Department of Host Defense, Research Institute for Microbial Diseases, Osaka University, Osaka, Japan

[T18] Molecular Cloning and Pharmacological Characterization of Monkey MT1 and MT2 Melatonin Receptors Showing High Affinity for the Agonist Ramelteon

Keiji Nishiyama, Yasushi Shintani, Keisuke Hirai, and Shin-ichi Yoshikubo

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[T19] A novel dipeptidyl peptidase-4 inhibitor, alogliptin (SYR-322), is effective in diabetic rats with sulfonylurea-induced secondary failure

Tomoko Asakawa, Yusuke Moritoh, Osamu Kataoka, Nobuhiro Suzuki, Koji Takeuchi, Hiroyuki Odaka

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浅川智子、森藤雄亮、片岡 修、鈴木 伸宏、武内 浩二、小高裕之

[T20] Voglibose, an Alpha-glucosidase Inhibitor, to Increase Active Glucagon-like Peptide-1 Levels

Yusuke Moritoh, Koji Takeuchi, Masatoshi Hazama

Molecular and Cellular Pharmacology, 1(4): 188-192, 2009

森藤雄亮、武内 浩二、波佐間 正聡

Basic Biology and Physiology

[T21] Gene Expression Profiling of Functional Murine Embryonic Stem Cell-Derived Cardiomyocytes and Comparison with Adult Heart: Profiling of Murine ESC-Derived Cardiomyocytes

Tadahiro Shinozawa, Akiko Tsuji, Kenichi Imahashi, Kosuke Nakashima, Hiroshi Sawada, Hiroyoshi Toyoshiba, Satoshi Yamamoto, Kenji Takami and Ryoetsu Imai

Journal of Biomolecular Screening, 14(3): 239-245, 2009

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[T22] Overexpression of GPR40 in Pancreatic β -Cells Augments Glucose-Stimulated Insulin Secretion and Improves Glucose Tolerance in Normal and Diabetic Mice

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^a Hamari Chemicals, Osaka

[T23] Macrophage inflammatory protein-3alpha plays a key role in the inflammatory cascade in rat focal cerebral ischemia

Yasuko Terao, Hiroyuki Ohta, Akira Oda, Yumiko Nakagaito, Yoshihiro Kiyota and Yasushi Shintani

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寺尾寧子、太田浩之、小田 明、中垣内弓子、清田義弘、新谷 靖

[T24] Hypothermia enhances heat-shock protein 70 production in ischemic brains

Yasuko Terao, Saku Miyamoto, Katsuko Hirai, Hidenori Kamiguchi, Hiroyuki Ohta,
Masato Shimojo, Yoshihiro Kiyota, Satoru Asahi, Yasufumi Sakura and Yasushi Shintani

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Izumi Kamo, Yasuhiro Kaiho^a, Minoru Miyazato^a, Kazumasa Torimoto^a and Naoki Yoshimura^a

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^a Department of Urology, University of Pittsburgh School of Medicine, Pittsburgh, PA, U.S.A.

Drug Safety Evaluation**[T26] Collaborative work on evaluation of ovarian toxicity 16) Effects of 2 or 4 weeks repeated dose studies and fertility study of Chlorpromazine hydrochloride in rats**

Yuko Izumi, Takeshi Watanabe, Naoko Awasaki, Kenji Hikawa, Takashi Minagi and Fumio Chatani

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和泉祐子, 渡辺武志, 栗崎奈緒子, 檜皮賢二, 三奈木隆史, 茶谷文雄

[T27] Similar compounds searching system by using the gene expression microarray database

Hiroyoshi Toyoshiba, Hiroshi Sawada, Ichiro Naeshiro and Akira Horinouchi

Toxicology Letters, **186**(1): 52-57, 2009

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[T28] *In vitro* micronucleus test in HepG2 transformants expressing a series of human cytochrome P450 isoforms with chemicals requiring metabolic activation

Tsuneo Hashizume, Sumie Yoshitomi, Satoru Asahi, Shigeo Matsumura, Fumio Chatani
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橋爪恒夫, 吉富純枝, 朝日 知, 松村茂夫, 茶谷文雄, 小田裕明

[T29] Gene expression profiling in rat liver treated with compounds inducing elevation of bilirubin

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^d Department of Pathophysiology, Doshisha Women's College of Liberal Arts, Kyotanabe, Kyoto 610-0395, Japan

[T30] Relationship between in vitro phospholipidosis assay using HepG2 cells and 2-week toxicity studies in rats

Saku Miyamoto, Akemi Matsumoto, Ikuo Mori, and Akira Horinouchi

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Informational Science

[T31] Novel Method for the Evaluation of 3D Conformation Generators

Terufumi Takagi, Michiko Amano and Masaki Tomimoto

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高木輝文、天野倫子、富本昌樹

Originals in Japanese

Medicinal Chemistry

[T32] 自然睡眠をもたらす新規メラトニン受容体作動薬 Ramelteon の創製

内川 治

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Discovery of Ramelteon (RozeremTM) as a Novel Melatonin Receptor Agonist for natural sleep

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Pharmacology

[T33] 新規薬剤ーラメルテオンー

宮本政臣

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A Nobel Therapeutic Drug: Ramelteon

Masaomi Miyamoto

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[T34] メラトニン受容体の分布と機能

宮本政臣

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Distribution and function of melatonin receptors

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[T35] カンデサルタン シレキセチル/ヒドロクロロチアジド配合剤（エカード[®]配合錠）の薬理作用及び臨床効果

楠本啓司、森 光宏、田之頭淳一、戸塚伸夫

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Pharmacological and clinical properties of ECARD[®] combination tablets LD&HD, fixed-dose combination of candesartan cilexetil and hydrochlorothiazide

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Pharmaceutics

[T36] 生体内分解性高分子を利用した DDS の開発と評価

高田重行

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Development and Evaluation of Drug Delivery System Utilizing Biodegradable Polymers

Shigeyuki Takada

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Drug Safety Evaluation

[T37] 医薬品の精巣毒性

茶谷文雄

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Drug-induced testicular toxicity

Fumio Chatani

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Clinical Research

[T38] 医薬品開発におけるファーマコゲノミクスの有用性

劉 世玉、 宮本政臣

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FARUMASHIA, 45(10): 989-994, 2009

Technology Development

[T39] ラマン分光法の PAT での活用

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Application study of Raman

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[T40] iPS 細胞を用いた創薬研究－薬効・副作用評価系への活用－
中西 淳

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Drug discovery using induced pluripotent stem cells - Application to drug screening and toxicology assay -

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