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## Originals in English

### *Analytical Chemistry*

#### [T1] Structure and physical stability of hydrates and thermotropic mesophase of calcium benzoate

Akira Terakita and Stephen R. Byrn<sup>a</sup>

*Journal of Pharmaceutical Sciences*, **95**(5): 1162-1172, 2006

寺北 晃

<sup>a</sup> Purdue University School of Pharmacy, Indiana, USA

### *Organic Chemistry*

#### [T2] Optically Active Cyclohexene Derivative as a New Antisepsis Agent: An Efficient Synthesis of Ethyl (6*R*)-6-[*N*-(2-Chloro-4-fluorophenyl)sulfamoyl]cyclohex-1-ene-1-carboxylate (TAK-242)

Masami Yamada, Takashi Ichikawa, Toru Yamano, Fumio Kikumoto, Yuji Nishikimi, Norikazu Tamura and Tomoyuki Kitazaki

*Chemical & Pharmaceutical Bulletin*, **54**(1): 58-62, 2006

山田昌美, 一川隆史, 山野 徹, 菊本章生, 錦見裕司, 田村典一, 北崎智幸

#### [T3] Novel Methods of Synthesizing Naphtho[1,2-*c*]furan-1,3-dione and Benzo[*e*]-isoindole-1,3-dione

Masahiro Mizuno and Mitsuhsa Yamano

*Heterocycles*, **67**(2): 807-814, 2006

水野正博, 山野光久

#### [T4] Diastereoselective Synthesis of Atropisomeric 3-(2-Substituted Aryl)quinazolin-4-ones and Their Stereochemical Properties

Takashi Tokitoh<sup>a</sup>, Toshitake Kobayashi, Eisuke Nakada<sup>a</sup>, Tohru Inoue<sup>a</sup>, Satoshi Yokoshima<sup>a</sup>, Hideyo Takahashi<sup>b</sup> and Hideaki Natsugari<sup>b</sup>

*Heterocycles*, **70**: 93-99, 2006

時任貴志<sup>a</sup>, 小林俊威, 中田英介<sup>a</sup>, 井上 徹<sup>a</sup>, 横島 聡<sup>a</sup>, 高橋秀衣<sup>b</sup>, 夏苺英昭<sup>b</sup>

<sup>a</sup> Graduate School of Pharmaceutical Sciences, The University of Tokyo

<sup>b</sup> School of Pharmaceutical Sciences, Teikyo University, Kanagawa

#### [T5] Sulfonyl Chloride Formation from Thiol Derivatives by *N*-Chlorosuccinimide Mediated Oxidation

Atsuko Nishiguchi, Kazuhiro Maeda, Shokyo Miki

*Synthesis*, **2006**(24): 4131-4134

西口敦子, 前田和広, 三木正敬

**[T6] Process development of a disease-modifying antirheumatic drug, TAK-603, based on optimization of Friedel–Crafts reaction and selective substitution of a triazole ring**

Masahiro Mizuno, Atsushi Inagaki, Makoto Yamashita, Norie Soma, Yoshiharu Maeda and Hiroshi Nakatani

*Tetrahedron*, **62**(17): 4065-4070, 2006

水野正博, 稲垣敦士, 山下 誠, 相馬紀江, 前田祥治, 中谷 浩

**[T7] Process research on aryl naphthalene lignan aza-analogues: a new palladium-catalyzed benzannulation of  $\alpha,\beta$ -bisbenzylidenesuccinic acid derivatives**

Hideya Mizufune, Minoru Nakamura and Hiroyuki Mitsudera

*Tetrahedron*, **62**(36): 8539-8549, 2006

水船秀哉, 中村 実, 光寺弘幸

**[T8] Syntheses of metabolites of ethyl 4-(3,4-dimethoxyphenyl)-6,7-dimethoxy-2-(1,2,4-triazol-1-ylmethyl)quinoline-3-carboxylate (TAK-603)**

Masahiro Mizuno, Makoto Yamashita, Yasuhiro Sawai, Koji Nakamoto and Mitsutaka Goto

*Tetrahedron*, **62**(37): 8707-8714, 2006

水野正博, 山下 誠, 澤井泰宏, 中本幸治, 後藤充孝

**[T9] Approach to the stereoselective synthesis of melatonin receptor agonist Ramelteon via asymmetric hydrogenation**

Toru Yamano, Masayuki Yamashita, Mari Adachi, Mitsutaka Tanaka, Kiyoharu Matsumoto, Mitsuru Kawada, Osamu Uchikawa, Kohji Fukatsu and Shigenori Ohkawa

*Tetrahedron: Asymmetry*, **17**(2): 184-190, 2006

山野 徹, 山下真之, 安達万里, 田中光孝, 松本清治, 川田 満, 内川 治, 深津考司, 大川滋紀

**[T10] Regioselective reaction of quinones with Reformatsky reagent:  $(\text{BrZnCH}_2\text{CO}_2\text{Et}\cdot\text{THF})_2$**

Jun-ichi Kawakami, Koji Nakamoto, Shigeru Nuwa, Syoji Handa and Shokyo Miki

*Tetrahedron Letters*, **47**(7): 1201-1203, 2006

川上淳一, 中本幸治, 怒和 蔚, 半田尚史, 三木正敬

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Masaki Seto, Katsuji Aikawa, Naoki Miyamoto, Yoshio Aramaki, Naoyuki Kanzaki, Katsunori Takashima, Yoji Kuze, Yuji Iizawa, Masanori Baba<sup>a</sup> and Mitsuru Shiraiishi

*Journal of Medicinal Chemistry*, **49**(6): 2037-2048, 2006

瀬戸雅樹, 合川勝二, 宮本直樹, 荒牧慶夫, 神崎直之, 高島勝典, 久世洋司, 飯沢祐史, 馬場昌範<sup>a</sup>, 白石 充

<sup>a</sup> Graduate School of Medical and Dental Sciences, Kagoshima University

**[T12] Discovery of a Piperidine-4-carboxamide CCR5 Antagonist (TAK-220) with Highly Potent Anti-HIV-1 Activity**

Shinichi Imamura, Takashi Ichikawa, Youichi Nishikawa, Naoyuki Kanzaki, Katsunori Takashima, Shin-ichi Niwa, Yuji Iizawa, Masanori Baba<sup>a</sup> and Yoshihiro Sugihara

*Journal of Medicinal Chemistry*, **49**(9): 2784-2793, 2006

今村真一, 一川隆史, 西川洋一, 神崎直之, 高島勝典, 丹羽真一, 飯沢祐史, 馬場昌範<sup>a</sup>, 杉原芳博

<sup>a</sup> Graduate School of Medical and Dental Sciences, Kagoshima University

**[T13] Design, Synthesis, and Structure-Activity Relationships of Thieno[2,3-*b*]pyridin-4-one Derivatives As a Novel Class of Potent, Orally Active, Non-Peptide Luteinizing Hormone-Releasing Hormone Receptor Antagonists**

Takashi Imada, Nobuo Cho, Toshihiro Imaeda, Yoji Hayase, Satoshi Sasaki, Shizuo Kasai, Masataka Harada, Hirokazu Matsumoto, Satoshi Endo, Nobuhiro Suzuki and Shuichi Furuya

*Journal of Medicinal Chemistry*, **49**(13): 3809-3825, 2006

今田 岐, 長 展生, 今枝稔博, 早瀬要治, 佐々木 聡, 河西静夫, 原田征隆, 松本寛和, 遠藤聡史, 鈴木伸宏, 古矢 修一

***Biochemistry and Biotechnology***

**[T14] Identification of a lysophosphatidylserine receptor on mast cells**

Tsukasa Sugo, Hiroshi Tachimoto<sup>a</sup>, Tomoko Chikatsu, Yuko Murakami, Yuhsuke Kikukawa, huji Sato, Kuniko Kikuchi, Toshimi Nagi, Mioko Harada, Kazuhiro Ogi, Motohiro Ebisawa<sup>a</sup> and Masaaki Mori

*Biochemical and Biophysical Research Communications*, **341**(4): 1078-1087, 2006

周郷 司, 田知本 寛<sup>a</sup>, 千勝智子, 村上裕子, 菊川裕介, 佐藤秀司, 菊池久仁子, 南祇利実, 原田美穂子, 大儀和宏, 海老澤元宏<sup>a</sup>, 森 正明

<sup>a</sup> National Hospital Organization, Sagamihara National Hospital, Kanagawa

**[T15] Cynomolgus Monkey Cytochrome P450 2C43: cDNA Cloning, Heterologous Expression, Purification and Characterization**

Maori Mitsuda<sup>a</sup>, Masahiko Iwasaki and Satoru Asahi

*Journal of Biochemistry*, **139**(5): 865-872, 2006

光田まおり<sup>a</sup>, 岩崎正彦, 朝日 知

<sup>a</sup> Graduate School of Science, Osaka University

***Immunology***

**[T16] Role of Eosinophil Chemotactic Factor by T Lymphocytes on Airway Hyperresponsiveness in a Murine Model of Allergic Asthma**

Hiroki Iwashita, Shigeru Morita, Yoji Sagiya and Atsushi Nakanishi

*American Journal of Respiratory Cell and Molecular Biology*, **35**(1): 103-109, 2006

岩下弘樹, 森田 滋, 鷺谷洋司, 中西 淳

## **Pharmacology**

### **[T17] A Novel Cyclohexene Derivative, Ethyl (6R)-6-[N-(2-Chloro-4-fluorophenyl)sulfamoyl]cyclohex-1-ene-1-carboxylate (TAK-242), Selectively Inhibits Toll-Like Receptor 4-Mediated Cytokine Production through Suppression of Intracellular Signaling**

Masayuki Ii, Naoko Matsunaga, Kaoru Hazeki<sup>a</sup>, Kazuyo Nakamura, Katsunori Takashima, Tsukasa Seya<sup>b</sup>, Osamu Hazeki<sup>a</sup>, Tomoyuki Kitazaki and Yuji Iizawa

*Molecular Pharmacology*, **69**(4): 1288-1295, 2006

伊井雅幸, 松永直子, 櫛木 薫<sup>a</sup>, 中村和世, 高島勝典, 瀬谷 司<sup>b</sup>, 櫛木 修<sup>a</sup>, 北崎智幸, 飯沢祐史

<sup>a</sup> Graduate School of Biomedical Sciences, Hiroshima University, Hiroshima

<sup>b</sup> Hokkaido University Graduate School of Medicine, Sapporo

### **[T18] Effect of ramelteon (TAK-375), a selective MT<sub>1</sub>/MT<sub>2</sub> receptor agonist, on motor performance in mice**

Masaomi Miyamoto

*Neuroscience Letters*, **402**(3): 201-204, 2006

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## **Basic Biology and Physiology**

### **[T19] Molecular-Recognition Characteristics of SAM-Binding Riboswitches**

Jinsoo Lim<sup>a</sup>, Wade C. Winkler<sup>b</sup>, Shingo Nakamura, Valerie Scott<sup>a</sup> and Ronald R. Breaker<sup>a</sup>

*Angewandte Chemie International Edition*, **45**(6): 964-968, 2006

中村慎吾

<sup>a</sup> Department of Molecular, Cellular, and Developmental Biology, Yale University, USA

<sup>b</sup> Department of Biochemistry, University of Texas Southwestern Medical Center at Dallas, USA

### **[T20] $\alpha_v\beta_3$ Integrin ligands enhance volume-sensitive calcium influx in mechanically stretched osteocytes**

Akimitsu Miyauchi<sup>a</sup>, Masayuki Gotoh, Hiroshi Kamioka<sup>b</sup>, Kohei Notoya, Hideki Sekiya<sup>c</sup>, Yasuyuki Takagi<sup>a</sup>, Yoshio Yoshimoto<sup>a</sup>, Hitoshi Ishikawa<sup>a</sup>, Kazuo Chihara<sup>d</sup>, Teruko Yamamoto<sup>b</sup>, Takuo Fujita<sup>e</sup> and Yuko Takagaki<sup>f</sup>

*Journal of Bone and Mineral Metabolism*, **24**(6): 498-504, 2006

宮内章光<sup>a</sup>, 後藤雅将, 上岡 寛<sup>b</sup>, 能登谷浩平, 関谷秀樹<sup>c</sup>, 高木康行<sup>a</sup>, 吉本祥生<sup>a</sup>, 石川 齊<sup>a</sup>, 千原和夫<sup>d</sup>, 山本照子<sup>b</sup>, 藤田拓男<sup>e</sup>, 高垣裕子<sup>f</sup>

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<sup>d</sup> Kobe University Graduate School of Medicine

<sup>e</sup> Calcium Research Institute, Kishiwada

<sup>f</sup> Kanagawa Dental College

**[T21] Neuropeptide W is present in antral G cells of rat, mouse, and human stomach**

Muhtashan S. Mondal<sup>a</sup>, Hideki Yamaguchi<sup>a</sup>, Yukari Date<sup>a</sup>, Koji Toshinai<sup>a</sup>, Takashi Kawagoe<sup>a</sup>, Tomoko Tsuruta<sup>a</sup>, Haruaki Kageyama<sup>b</sup>, Yuko Kawamura<sup>b</sup>, Seiji Shioda<sup>b</sup>, Yukio Shimomura, Masaaki Mori and Masamitsu Nakazato<sup>a</sup>

*Journal of Endocrinology*, **188**(1): 49-57, 2006

山口秀樹<sup>a</sup>, 伊達 紫<sup>a</sup>, 十枝内厚次<sup>a</sup>, 川越 隆<sup>a</sup>, 鶴田智子<sup>a</sup>, 影山晴秋<sup>b</sup>, 河村裕子<sup>b</sup>, 塩田清二<sup>b</sup>, 下村行生, 森 正明, 中里雅光<sup>a</sup>

<sup>a</sup> Miyazaki Medical College, University of Miyazaki, Miyazaki

<sup>b</sup> Showa University School of Medicine, Tokyo

**[T22] Galanin-Like Peptide Promotes Feeding Behaviour Via Activation of Orexinergic Neurones in the Rat Lateral Hypothalamus**

Haruaki Kageyama<sup>a</sup>, Tetsuro Kita<sup>a,b</sup>, Koji Toshinai<sup>c</sup>, Jian-Lian Guan<sup>a</sup>, Yukari Date<sup>c</sup>, Fumiko Takenoya<sup>a,d</sup>, Sachi Kato<sup>a</sup>, Hirokazu Matsumoto, Tetsuya Ohtaki, Masamitsu Nakazato<sup>c</sup> and Seiji Shioda<sup>a</sup>

*Journal of Neuroendocrinology*, **18**(1): 33-41, 2006

影山晴秋<sup>a</sup>, 北 徹朗<sup>a,b</sup>, 十枝内厚次<sup>c</sup>, 伊達 紫<sup>c</sup>, 竹ノ谷文子<sup>a,d</sup>, 加藤さち<sup>a</sup>, 松本寛和, 大瀧徹也, 中里雅光<sup>c</sup>, 塩田清二<sup>a</sup>

<sup>a</sup> Department of Anatomy, Showa University School of Medicine, Tokyo

<sup>b</sup> Department of Physical Education, Tokai University, Kanagawa, Japan.

<sup>c</sup> Third Department of Internal Medicine, Miyazaki Medical College, Miyazaki, Japan.

<sup>d</sup> Department of Physical Education, Hoshi University School of Pharmacy and Pharmaceutical Science, Tokyo.

**[T23] Disease progression of human SOD1 (G93A) transgenic ALS model rats**

Arifumi Matsumoto<sup>a,b,d</sup>, Yohei Okada<sup>a,c,d</sup>, Masanori Nakamichi, Masaya Nakamura<sup>a</sup>, Yoshiaki Toyama<sup>a</sup>, Gen Sobue<sup>c</sup>, Makiko Nagai<sup>b</sup>, Masashi Aoki<sup>b</sup>, Yasuto Itoyama<sup>b</sup> and Hideyuki Okano<sup>a,d</sup>

*Journal of Neuroscience Research*, **83**(1): 119-133, 2006

松本有史<sup>a,b,d</sup>, 岡田洋平<sup>a,c,d</sup>, 中路将徳, 中村雅也<sup>a</sup>, 戸山芳昭<sup>a</sup>, 祖父江 元<sup>c</sup>, 永井真貴子<sup>b</sup>, 青木正志<sup>b</sup>, 糸山泰人<sup>b</sup>, 岡野栄之<sup>a,d</sup>

<sup>a</sup> Keio University School of Medicine, Tokyo, Japan

<sup>b</sup> Tohoku University Graduate School of Medicine, Sendai, Japan

<sup>c</sup> Nagoya University Graduate School of Medicine, Nagoya, Japan

<sup>d</sup> Core Research for Evolutional Science and Technology (CREST), Japan Science and Technology Agency (JST), Saitama

**[T24] Functional Analysis of Active Urethral Closure Mechanisms Under Sneezing Induced Stress Condition in a Rat Model of Birth Trauma**

Izumi Kamo, Yasuhiro Kaiho<sup>a</sup>, Tracy W. Canon<sup>a</sup>, Michael B. Chancellor<sup>a</sup>, William C. de Groat<sup>a</sup>, Rachelle L. Prantil<sup>a</sup>, David A. Vorp<sup>a</sup> and Naoki Yoshimura<sup>a</sup>

*Journal of Urology*, **176**(44): 2711-2715, 2006

加茂 泉, 海法康裕<sup>a</sup>, 吉村直樹<sup>a</sup>

<sup>a</sup> University of Pittsburgh School of Medicine, Pittsburgh, Pennsylvania

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**[T25] Recent advances in mammalian RFamide peptides: The discovery and functional analyses of PrRP, RFRPs and QRFP**

Shoji Fukusumi, Ryo Fujii and Shuji Hinuma

*Peptides*, **27**(5): 1073-1086, 2006

福住昌司, 藤井 亮, 日沼州司

***Pharmaceutics***

**[T26] Development of an oral sustained release drug delivery system utilizing pH-dependent swelling of carboxyvinyl polymer**

Kenji Nakamura, Eiji Nara and Yohko Akiyama

*Journal of Controlled Release*, **111**(3): 309-315, 2006

仲村顕治, 奈良英治, 秋山洋子

***Pharmacokinetics and Drug Metabolism***

**[T27] Establishment and Characterization of the Transformants Stably-Expressing *MDR1* Derived from Various Animal Species in LLC-PK<sub>1</sub>**

Toshiyuki Takeuchi, Sumie Yoshitomi, Tomoaki Higuchi, Keiko Ikemoto, Shin-ichi Niwa,

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*Pharmaceutical Research*, **23**(7): 1460-1472, 2006

竹内敏之, 吉富純枝, 樋口智明, 池本慶子, 丹羽真一, 蛭原卓哉, 加藤美紀<sup>a</sup>, 横井 毅<sup>a</sup>, 朝日 知

<sup>a</sup> Department of Graduate School of Medical Science, Kanazawa University

***Drug Safety Evaluation***

**[T28] Possible mechanism for testicular focal necrosis induced by hCG in rats**

Fumio Chatani

*Journal of Toxicological Sciences*, **31**(4): 291-303, 2006

茶谷文雄

***Veterinary Science***

**[T29] Visual Electrophysiological Features of Two Naturally Occurring Mouse Models with Retinal Dysfunction**

Makoto Miyamoto, Ryoetsu Imai, Shinji Sugimoto, Masami Aoki, Hirofumi Nagai and Takao Ando

*Current Eye Research*, **31**(4): 329-335, 2006

宮本 実, 今井良悦, 杉本眞次, 青木正美, 永井博文, 安藤孝夫

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*Technology Development*

**[T30] Further Development of a Robust Workup Process for Solution-Phase High-Throughput Library Synthesis To Address Environmental and Sample Tracking Issues**

Noritaka Kuroda, Nick Hird and David G. Cork

*Journal of Combinatorial Chemistry*, **8**(4): 505-512, 2006

黒田典孝

## Originals in Japanese

### *Medicinal Chemistry*

[T31] TLR4 シグナル阻害活性を有する新規抗セプシス薬 TAK-242 の創製

山田昌美

*MEDCHEM NEWS*, 16(4):26-31, 2006

**Discovery of TAK-242, a novel inhibitor of TLR4-mediated cytokine production as an anti-sepsis agent**

Masami Yamada

*MEDCHEM NEWS*, 16(4):26-31, 2006

### *Pharmacology*

[T32] 糖尿病モデル動物と糖尿病治療薬の開発

武内浩二, 鈴木伸宏, 小高裕之

日本薬理学会誌, 128(7): 37-41, 2006

**Animal models of diabetes and development of anti-diabetic agents**

Koji Takeuchi, Nobuhiro Suzuki and Hiroyuki Odaka

*Folia Pharmacologica Japonica*, 128(7): 37-41, 2006

[T33] 降圧薬の研究開発動向

井村良視

日本臨牀, 64(増刊号 5): 583-587, 2006

**Trend of research and development of antihypertensive agents**

Yoshimi Imura

*Japanese Journal of Clinical Medicine*, 64(Suppl. 5): 583-587, 2006

### *Basic Biology and Physiology*

[T34] NPW

下村行生

内分泌・糖尿病科, 22(4): 401-409, 2006

**NPW**

Yukio Shimomura

*Endocrinology and Diabetology*, 22(4): 401-409, 2006

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[T35] コンピュータで膵 細胞をつくる

濱田輝基

ファルマシア, 42(2): 119-123, 2006

**Modeling insulin secretion of pancreatic  $\beta$ -cell**

Teruki Hamada

*Farumashia*, 42(2): 119-123, 2006

***Pharmaceutics***

[T36] マンニトールの非晶質化とその製剤的適用

吉成友宏

ファームテク ジャパン, 22(7): 1367-1374, 2006

**Inhibition of Mannitol Crystallisation and Its Application Studies for  
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Tomohiro Yoshinari

*PHARM TECH JAPAN*, 22(7): 1367-1374, 2006

***Technology Development***

[T37] 空气中放射性物質濃度からの摂取量推定の高度化

中山敬博

*Radioisotopes*, 55(3): 147-155, 2006

**Advanced Evaluation of Intake of Radioactive Substances  
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Takahiro Nakayama

*Radioisotopes*, 55(3): 147-155, 2006

[T38] 創薬における

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樽井直樹, 木村宏之

生体の科学, 57(4): 246-252, 2006

**The role of high throughput screening in drug discovery  
– in the case of CNS drug discovery –**

Naoki Tarui and Hiroyuki Kimura

*Science of the Living Body*, 57(4): 246-252, 2006

## Supplement

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#### *Basic Biology and Physiology*

#### **[T39] Neurons expressing relaxin 3/INSL 7 in the nucleus incertus respond to stress**

Masaki Tanaka<sup>a</sup>, Norio Iijima<sup>a</sup>, Yasumasa Miyamoto<sup>a</sup>, Shoji Fukusumi,

Yasuaki Itoh, Hitoshi Ozawa<sup>a</sup> and Yasuhiko Ibata<sup>a</sup>

*European Journal of Neuroscience*, 21(6): 1659-1670, 2005

田中雅樹<sup>a</sup>, 飯島典生<sup>a</sup>, 宮本容正<sup>a</sup>, 福住昌司, 伊藤康明, 小澤一史<sup>a</sup>, 井端泰彦<sup>a</sup>

<sup>a</sup> Kyoto Prefectural University of Medicine

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