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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^a

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

寺北 晃

^a 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^a, Toshitake Kobayashi, Eisuke Nakada^a, Tohru Inoue^a, Satoshi Yokoshima^a, Hideyo Takahashi^b and Hideaki Natsugari^b

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

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

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^b 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 α,β -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

Medicinal Chemistry

[T11] Highly Potent and Orally Active CCR5 Antagonists as Anti-HIV-1 Agents: Synthesis and Biological Activities of 1-Benzazocine Derivatives Containing a Sulfoxide Moiety

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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^a, 白石 充

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[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^a 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^a, 杉原芳博

^a Graduate School of Medical and Dental Sciences, Kagoshima University

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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^a, Tomoko Chikatsu, Yuko Murakami, Yuhsuke Kikukawa, huji Sato, Kuniko Kikuchi, Toshimi Nagi, Mioko Harada, Kazuhiro Ogi, Motohiro Ebisawa^a and Masaaki Mori

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

周郷 司, 田知本 寛^a, 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^a, 森 正明

^a National Hospital Organization, Sagamihara National Hospital, Kanagawa

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

Maori Mitsuda^a, Masahiko Iwasaki and Satoru Asahi

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

光田まおり^a, 岩崎正彦, 朝日 知

^a 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

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Pharmacology

[T17] A Novel Cyclohexene Derivative, Ethyl (6*R*)-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^a, Kazuyo Nakamura, Katsunori Takashima, Tsukasa Seya^b, Osamu Hazeki^a, Tomoyuki Kitazaki and Yuji Iizawa

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

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

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^b Hokkaido University Graduate School of Medicine, Sapporo

[T18] Effect of ramelteon (TAK-375), a selective MT₁/MT₂ 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^a, Wade C. Winkler^b, Shingo Nakamura, Valerie Scott^a and Ronald R. Breaker^a

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

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

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

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

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^d Kobe University Graduate School of Medicine

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^f Kanagawa Dental College

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

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

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

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

^a Miyazaki Medical College, University of Miyazaki, Miyazaki

^b 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^a, Tetsuro Kita^{a,b}, Koji Toshinai^c, Jian-Lian Guan^a, Yukari Date^c, Fumiko Takenoya^{a,d}, Sachi Kato^a, Hirokazu Matsumoto, Tetsuya Ohtaki, Masamitsu Nakazato^c and Seiji Shioda^a

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

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

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^b Department of Physical Education, Tokai University, Kanagawa, Japan.

^c Third Department of Internal Medicine, Miyazaki Medical College, Miyazaki, Japan.

^d 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^{a,b,d}, Yohei Okada^{a,c,d}, Masanori Nakamichi, Masaya Nakamura^a, Yoshiaki Toyama^a, Gen Sobue^c, Makiko Nagai^b, Masashi Aoki^b, Yasuto Itoyama^b and Hideyuki Okano^{a,d}

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

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

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^b Tohoku University Graduate School of Medicine, Sendai, Japan

^c Nagoya University Graduate School of Medicine, Nagoya, Japan

^d 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^a, Tracy W. Canon^a, Michael B. Chancellor^a, William C. de Groat^a, Rachelle L. Prantil^a, David A. Vorp^a and Naoki Yoshimura^a

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

加茂 泉, 海法康裕^a, 吉村直樹^a

^a University of Pittsburgh School of Medicine, Pittsburgh, Pennsylvania

[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-PK₁

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

Takuya Ebihara, Miki Katoh^a, Tsuyoshi Yokoi^a and Satoru Asahi

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^a, 横井 毅^a, 朝日 知

^a 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

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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

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

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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

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内分泌・糖尿病科, 22(4): 401-409, 2006

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Yukio Shimomura

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

[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 β -cell

Teruki Hamada

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Pharmaceutics

[T36] マンニトールの非晶質化とその製剂的適用

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
Pharmaceutical Area**

Tomohiro Yoshinari

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

Technology Development

[T37] 空気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
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Naoki Tarui and Hiroyuki Kimura

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

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Basic Biology and Physiology

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

Masaki Tanaka^a, Norio Iijima^a, Yasumasa Miyamoto^a, Shoji Fukusumi,

Yasuaki Itoh, Hitoshi Ozawa^a and Yasuhiko Ibata^a

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

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

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