Regular Articles

Granulation of Core Particles Suitable for Film Coating by Agitation Fluidized Bed II. A Proposal of a Rapid Dissolution Test for Evaluation of Bitter Taste of Ibuprofen
T. Hamashita, M. Matsuzaki, T. Ono, M. Ono, Y. Tsunenari, T. Aketo, and S. Watano
pp. 883–887

A rapid dissolution test that can be used to investigate the early dissolution of ibuprofen in vitro was proposed to evaluate the taste-masking level of the coated particles. The bitter taste-masking level of the coated particles was successfully confirmed by using this novel dissolution test. These results indicate that this novel test can predict the taste-masking level of the coated particles without the need to perform a sensory test.

Spectrophotometric Determination of Iodine Species in Table Salt and Pharmaceutical Preparations
G. Mary, N. Balasubramanian, and K. S. Nagaraja
pp. 888–893

A sensitive spectrophotometric method for the determination of iodine species like iodide, iodine, iodate and periodate is described. The method involves the oxidation of iodide to ICl$_2$ in the presence of iodate and chloride in acidic medium. The formed ICl$_2$ bleaches the dye methyl red. The decrease in the intensity of the colour of the dye is measured at 520nm.

Synthesis and Evaluation of Novel N-Substituted-6-methoxynaphthalene-2-carboxamides as Potential Chemosensitizing Agents for Cancer
T. N. Lokhande, C. L. Viswanathan, and A. S. Juvekar
pp. 894–896

Antioxidant and Anti-inflammatory Related Activities of Selected Synthetic Chalcones: Structure–Activity Relationship Studies Using Computational Tools
R. Gacche, M. Khsirsagar, S. Kamble, B. Bandgar, N. Dhole, K. Shisode, and A. Chaudhari
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Novel β-Lactam Antibiotics Synthesized by Amination of Catechols Using Fungal Laccase

Structures and Interaction with DNA of Ternary Palladium(II) Complexes: [Pd(Gly)(X)] (Gly=Glycine; X=2,2'-Bipyridine, 1,10-Phenanthroline and 2,2'-Bi-pyridylamine)
M. Yodoshi and N. Okabe

New Triterpene Constituents, Foliasalacins A₁—A₄, B₁—B₃, and C, from the Leaves of Salacia chinensis
M. Yoshikawa, Y. Zhang, T. Wang, S. Nakamura, and H. Matsuda

Plasma-Assisted Immobilization of Heparin onto Low-Density Polyethylene Surface
S. Kondo, Y. Fukunaga, M. Oikawa, Y. Sasai, and M. Kuzuya

Conversion of Esculeoside A into Esculeogenin B
Briareum excavatum—P. Four New Briarane-Related Diterpenoids from Cultured Octocoral *Briareum excavatum* (Briareidae)

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Prediction of Cyclooxygenase Inhibitory Activity of Curcuma Rhizome from Chromatograms by Multivariate Analysis
K. Tanaka, Y. Kuba, A. Ina, H. Watanabe, and K. Komatsu

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Synthesis and Cytotoxicity Studies of Novel [1,2,4]Triazolo[1,5-a]pyrimidine-7-amines
X. Zhai, Y.-F. Zhao, Y.-J. Liu, Y. Zhang, F.-Q. Xun, J. Liu, and P. Gong

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Formulation Design of an Oral, Fast-Disintegrating Dosage Form Containing Taste-Masked Particles of Famotidine
T. Mizumoto, T. Tamura, H. Kawai, A. Kajiyama, and S. Itai

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Novel Nortriterpenes from *Phlomis umbrosa*
P. Liu, Z. Yao, W. Zhang, Y. Takaishi, and H.-Q. Duan

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Medicinal Foodstuffs. XXXIV. Structures of New Prenylchalcones and Prenylflavanones with TNF-α and Aminopeptidase N Inhibitory Activities from Boesenbergia rotunda

T. Morikawa, K. Funakoshi, K. Ninomiya, D. Yasuda, K. Miyagawa, H. Matsuda, and M. Yoshikawa

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Study on Colon-Specific 5-Fu pH-Enzyme Di-Dependent Chitosan Microspheres

X.-L. Zhao, K.-X. Li, X.-F. Zhao, D.-H. Pang, and D.-W. Chen

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Binding Enhancements of Nicotinic Acid to Water-Soluble Zinc Porphyrins Based on Triple Attractions of Coordination, Coulomb, and CH–π Interactions

H. Imai, H. Munakata, and Y. Uemori

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Rh–N-Heterocyclic Carbene (NHC) Complex-Catalyzed Addition of Phenylboronic Acid to N-Sulfonyl and N-Phosphinoyl Aldimines

A. B. Md., Y. Suzuki, and M. Sato

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Fluorophotometric Determination of Hydrogen Peroxide and Other Reactive Oxygen Species with Fluorescein Hydrazide (FII) and Its Crystal Structure

R. Nakahara, T. Fujimoto, M. Doi, K. Morita, T. Yamaguchi, and Y. Fujita

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Concise Synthesis of Dimemorfan (DF) Starting from 3-Hydroxymorphinan (3-HM)
J. Y. Kim, H.-C. Kim, J. Kim, and J. Lee

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New Cembranoid Diterpenes from the Vietnamese Soft Coral Sarcophyton mililatensis Stimulate Osteoblastic Differentiation in MC3T3-E1 Cells
N. X. Cuong, T. A. Tuan, P. V. Kiem, C. V. Minh, E. M. Choi, and Y. H. Kim

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Purine and Pyrimidine Derivatives from the South China Sea Gorgonian Subergorgia suberosa
S.-H. Qi, S. Zhang, C.-H. Gao, and Q.-X. Li

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Quantitative Analysis of Rabeprazole Sodium in Commercial Dosage Forms by Spectrophotometry
N. Rahman, Z. Bano, and S. N. H. Azmi

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**P-TSA Catalyzed Facile and Efficient Synthesis of Polyhydroquinoline Derivatives through Hantzsch Multi-Component Condensation**

S. R. Cherkupally and R. Mekala

pp. 1002–1004

A facile and efficient synthetic route to polyhydroquinolines has been developed via four-component condensation reactions of aldehydes, dimeredone, ethyl acetoacetate and ammonium acetate in the presence of p-TSA catalyst in ethanol at room temperature through Hantzsch reaction. Simple work-up, inexpensive and non-toxic catalyst, shorter reaction times along with excellent yields are the significant features of this protocol.

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**Cardenolides from *Antiaris toxicaria* as Potent Selective Nur77 Modulators**


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**Two Labdane Diterpene and Megastigmane Glycosides from *Aquilegia hybrida***

H. Yoshimitsu, M. Nishida, and T. Nohara

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**A Pregnan Glycoside from Overripe Tomato**

T. Nohara, E. Iwakawa, S. Matsushita, Y. Fujiwara, T. Ikeda, H. Miyashita, M. Ono, and H. Yoshimitsu

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**Mechanism for Conversion of Spirosolane Derivative into Pregnan**


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Synthesis, Characterization, and the Antioxidative Activity of 4-[{(3,4-Dimethyl pyrrole-2-carbonyl)hydrazono(phenyl)methyl]-3-methyl-1-phenylpyrazol-5-ol and Its Zinc(II), Copper(II), Nickel(II) Complexes
Q. Wang, Y. Wang, and Z.-Y. Yang

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A New Homostilbene and Two New Homoisoflavones from the Bulbs of *Scilla scilloides*
Y. Nishida, M. Eto, H. Miyashita, T. Ikeda, K. Yamaguchi, H. Yoshimitsu, T. Nohara, and M. Ono

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First Total Synthesis of the Phenolic 7,8-Dihydro-8-oxoprotoberberine Alkaloid, Cerasonine
T. N. Le and W.-J. Cho

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Beyerane Derivatives and a Sesquiterpene Dimer from Japanese Cypress (*Chamaecyparis obtusa*)

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Highly Oxygenated Lanostane Triterpenoids from the Fungus *Ganoderma applanatum*
F. Wang and J.-K. Liu

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New C₂₈ Steroidal Glycosides from *Tubocapsicum anomalum*

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Inner-Hydrogen Tautomerism in Some 5,15-Unsymmetrically Disubstituted and β-Unsubstituted Porphyrins
A. Tohara and M. Sato

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Revised Absolute Stereochemistry of Rhodiolosides A—D, Rhodiolol A and Sachalinol A from *Rhodiola rosea*
W. Li, D. Dou, and K. Koike

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Silica Supported Phosphomolybdic Acid: An Efficient Heterogeneous Catalyst for Friedlander Synthesis of Quinolines
B. Das, M. Krishnaiah, K. Laxminarayana, and D. Nandankumar

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Synthesis and Antiviral Activities of N-Mono- and/or N,N’-Di- Carbamoyl and Acyl Derivatives of Symmetrical Diamines
N. Mibu, K. Yokomizo, M. Oishi, T. Miyata, and K. Sumoto

pp. 1052–1058
About the cover: Eight novel nortriterpenoids with unusual skeleton were isolated from *Phlomis umbrosa*, and the skeleton of this type of compound has been confirmed by X-ray analysis for the first time. Compounds 1—3, 5, and 7 exhibited positive cytotoxic activities against the carcinoma cell lines Hela and L929 *in vitro*, and the bioactivity data suggested that the oxygen functions at C-18 and C-21 enhance cytotoxicity of these compounds. See the article by Liu et al. on page 951 of this issue.