

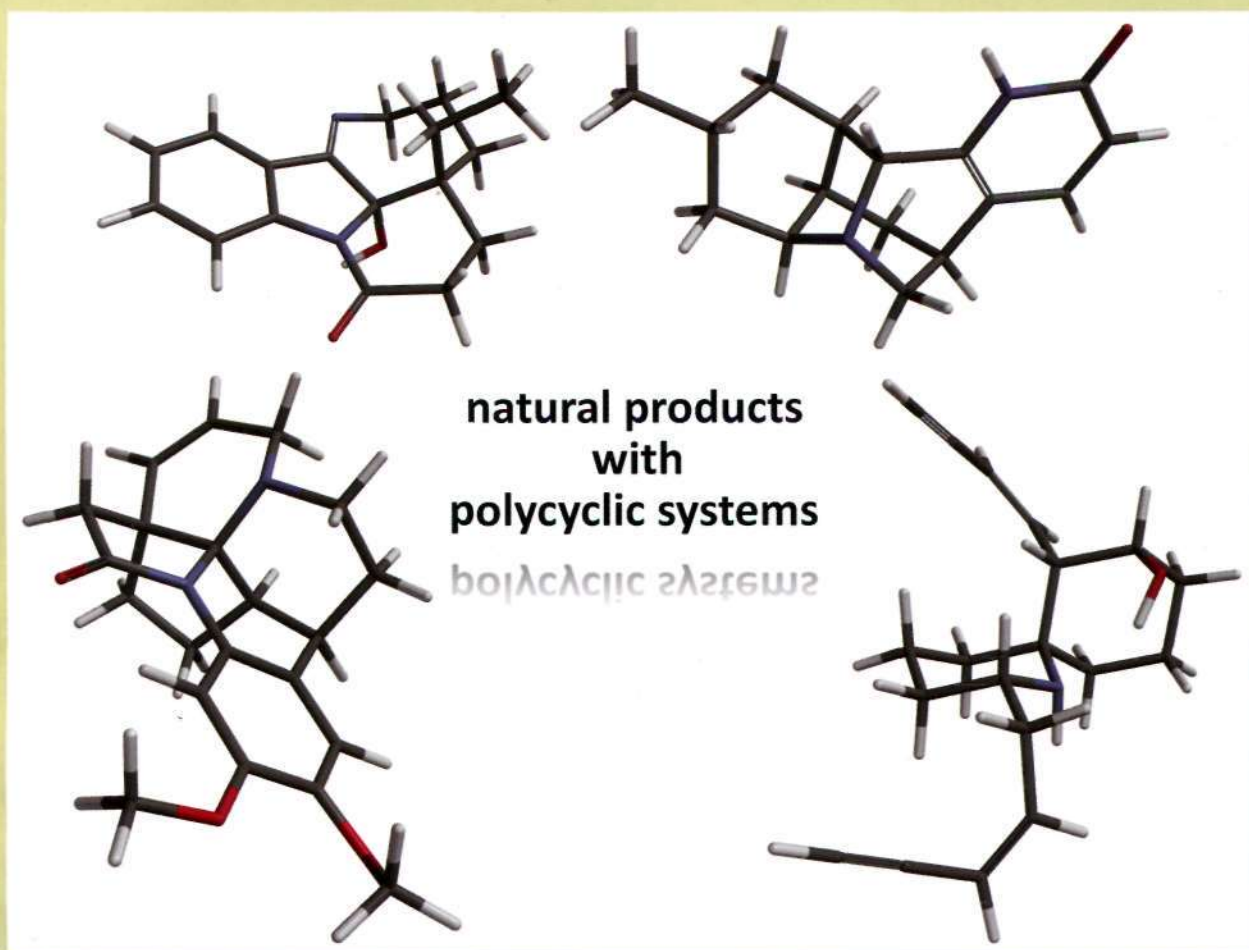
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Synthesis of Natural Products with Polycyclic Systems

pp. 251-257



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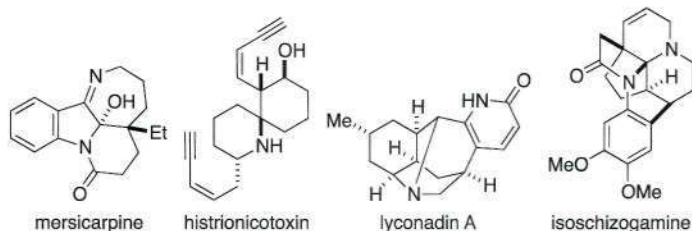
<http://cpb.pharm.or.jp>

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Synthesis of Natural Products with Polycyclic Systems

S. Yokoshima

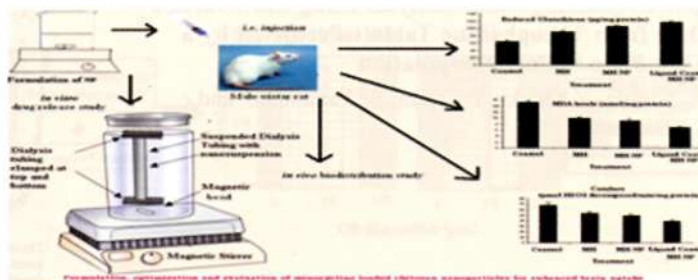


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Regular Articles

Formulation, Optimization, *in Vivo* Pharmacokinetic, Behavioral and Biochemical Estimations of Minoocycline Loaded Chitosan Nanoparticles for Enhanced Brain Uptake

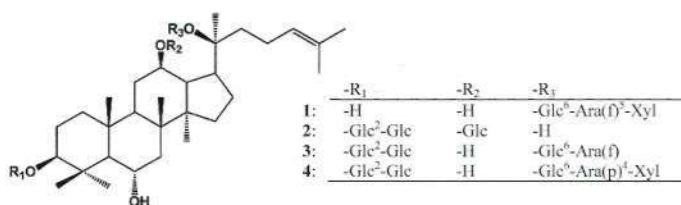
K. Nagpal, S. K. Singh, and D. N. Mishra



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Four New Triterpenoid Saponins from the Leaves of *Panax japonicus* Grown in Southern Miyazaki Prefecture (4)

K. Yoshizaki, H. P. Devkota, and S. Yahara

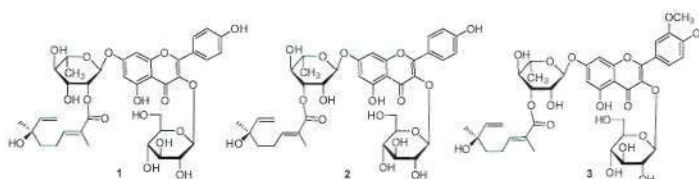


Four new dammarane-type triterpenoid saponins (1-4) were isolated from the leaves of *P. japonicus* C. A. MEYER collected in Miyazaki prefecture, Japan.

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Inhibitory Effects of the Constituents of *Hippophae rhamnoides* on 3T3-L1 Cell Differentiation and Nitric Oxide Production in RAW264.7 Cells

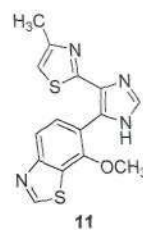
Z.-G. Yang, X.-F. Wen, Y.-H. Li, K. Matsuzaki, and S. Kitanaka



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Discovery of 7-Methoxy-6-[4-(4-methyl-1,3-thiazol-2-yl)-1H-imidazol-5-yl]-1,3-benzothiazole (TASP0382088): A Potent and Selective Transforming Growth Factor- β Type I Receptor Inhibitor as a Topical Drug for Alopecia

H. Amada, H. Asanuma, T. Koami, A. Okada, M. Endo, Y. Ueda, T. Naruse, and A. Ikeda



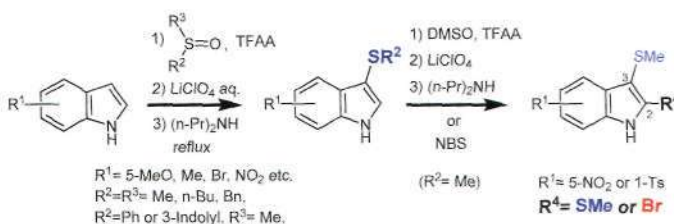
11

ALK5 IC₅₀ = 4.8 nM
Smad2/3 IC₅₀ = 17 nM

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A Practical Regioselective Synthesis of Alkylthio- or Arylthioindoles without the Use of Smelly Compounds Such as Thiols

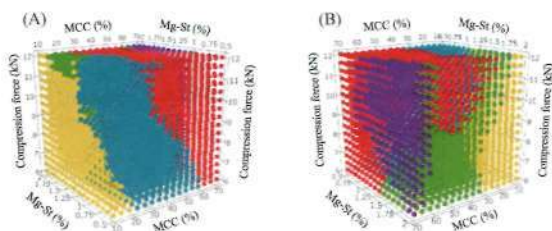
T. Hamashima, Y. Mori, K. Sawada, Y. Kasahara, D. Murayama, Y. Kamei, H. Okuno, Y. Yokoyama, and H. Suzuki



pp. 292–303

Self-Organizing Map Analysis Using Multivariate Data from Theophylline Tablets Predicted by a Thin-Plate Spline Interpolation

A. Yasuda, Y. Onuki, Y. Obata, R. Yamamoto, and K. Takayama

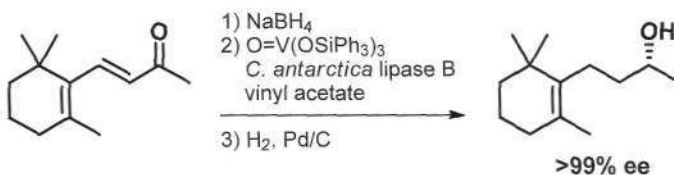


Three-dimensional diagrams of the proportions of MCC and Mg-St and the compression force, based on the reference vectors of the self-organizing maps estimated by response variables (tensile strength, disintegration time, and the stability of those variables). The diagram on the left is viewed from the front (A), and the one on the right is viewed from the back (B).

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Discovery of Aromatic Components with Excellent Fragrance Properties and Biological Activities: β -Ionols with Antimelanogenic Effects and Their Asymmetric Syntheses

R. Komaki, T. Ikawa, K. Saito, K. Hattori, N. Ishikawa, H. Fukawa, M. Egi, and S. Akai

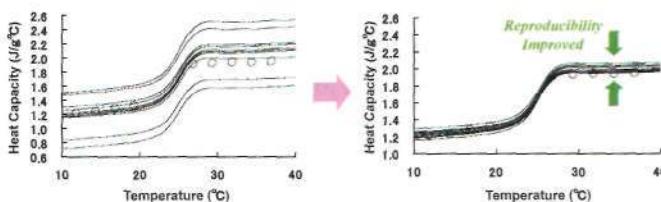


lipase-catalyzed dynamic kinetic resolution followed by chemoselective reduction

pp. 310–314

Practical Approach for Measuring Heat Capacity of Pharmaceutical Crystals/Glasses by Modulated-Temperature Differential Scanning Calorimetry

T. Harada, K. Kawakami, Y. Yoshihashi, E. Yonemochi, K. Terada, and H. Moriyama



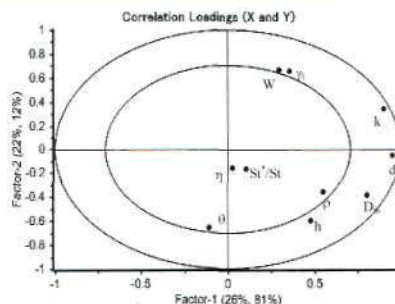
A practical protocol to obtain accurate heat capacity values of pharmaceutical compounds using modulated-temperature differential scanning calorimetry was established.

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Influence of Binder Droplet Dimension on Granulation Rate during Fluidized Bed Granulation

M. Fujiwara, M. Dohi, T. Otsuka, K. Yamashita, and K. Sako

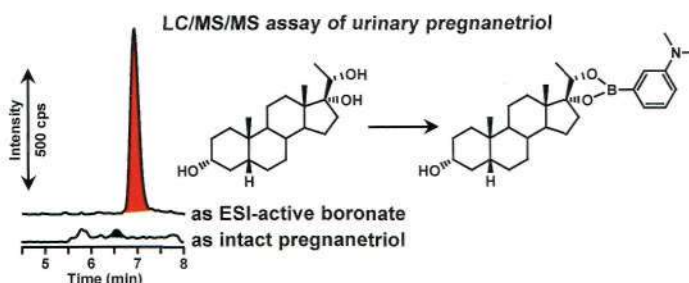
pp. 320–325



LC/MS/MS of Steroids Having Vicinal Diol as Electropray-Active Boronates

T. Higashi, K. Kawasaki, N. Matsumoto, S. Ogawa, K. Mitamura, and S. Ikegawa

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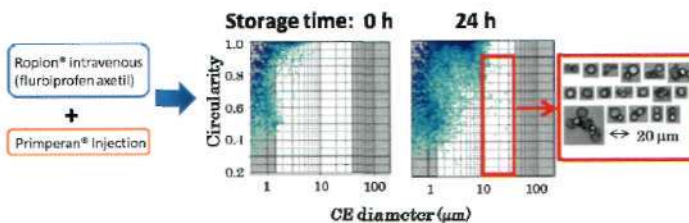


Particle Condition Change in Emulsion Admixture Evaluated by *in Situ* Flow Particle Imaging Analysis

T. Ohkawa, T. Uchino, D. Sasakura, Y. Miyazaki, and Y. Kagawa

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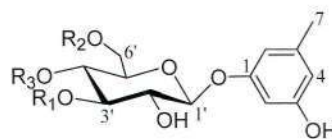
Change of detected particle shape and number



Notes

Three New Orcinol-Conjugated Hydrolysable Tannins from the Leaves of *Cleyera japonica*

M. H. Oh, K. H. Park, M. H. Kim, H. H. Kim, S. R. Kim, and M. W. Lee



	R ₁	R ₂	R ₃
1	Galloyl	H	H
2	Galloyl	Galloyl	H
3	H	(S)-HHDP	

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Saponins Composition of Rhizomes, Taproots, and Lateral Roots of Satsuma-ninjin (*Panax japonicus*)

K. Yoshizaki, H. P. Devkota, H. Fujino, and S. Yahara

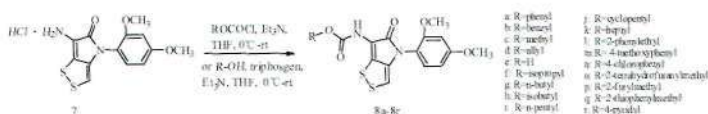
	Yield (%)					
	"Satsuma-ninjin"			<i>P. ginseng</i>		"Chikusetsu-ninjin"
	rhizome	taproot	lateral root	root	lateral root	rhizome
Total 20(S)-ppd type saponins	1.14	0.97	4.73	1.9	4.8	1.2
Total 20(S)-ppt type saponins	1.09	0.88	1.46	1.4	1.7	+
Total oleanolic acid type saponins	5.25	2.86	0.39			5.8

ppd: protopanaxadiol, ppt, protopanaxatriol

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Synthesis of Substituted 6-Amino-4-(2,4-dimethoxyphenyl)-[1,2]dithiolo[4,3-*b*]pyrrol-5-ones and Their Raising Leukocyte Count Activities

X. Tan, C. Li, Z. Yu, P. Wang, S. Nian, Y. Deng, W. Wu, and G. Wang

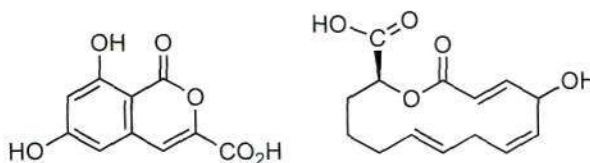


Compound **8a** displayed significant antileukopenia activity.

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A 14-Membered Macrolide and Isocoumarin Derivatives from the Cultured Lichen Mycobionts of *Graphis vestitoides*

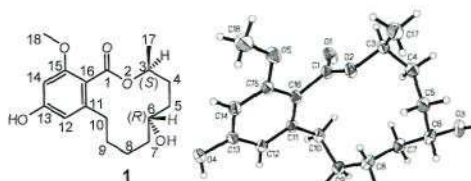
D. H. Le, Y. Takenaka, N. Hamada, H. Miyawaki, and T. Tanahashi



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Lasiodiplodin Analogues from the Endophytic Fungus *Sarocladium kiliense*

W. H. Yuan, N. Jiang, C. H. Dong, Z. W. Wei, H. K. Wu, C. F. Chen, Y. X. Zhao, S. L. Zhou, M. M. Zhang, and W. F. Zheng

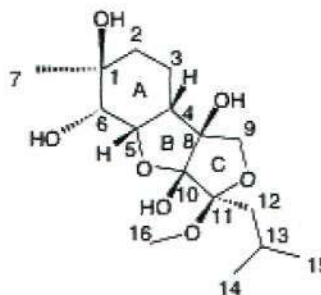


A new 12-membered ring lactone, (3*S*), (6*R*)-6-hydroxylasiodiplodin (**1**), with two known analogues (**2-3**) were isolated from the normal *Apriona germari* (Hope)-associated fungus *Sarocladium kiliense* grown in rice medium. The structure of new compound was elucidated by a combination of spectroscopic data interpretation, single-crystal X-ray diffraction analysis, and modified Mosher's method.

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New Bisabolane Sesquiterpene from the Mycelia of *Amanita virgineoides*

M. Asano, K. Yamada, T. Tanaka, Y. Matsuo, and I. Kouno



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