

化 学 応 用

教 授 門 田 重 利
助 教 授 手 塚 康 弘 (11月より)
助 教 授 (前) 畑 中 保 丸 (8月まで)
技 官 幸 田 恭 治

◆ 原 著

- 1) Banskota A. H., Tezuka Y., Tran K. Q., Tanaka K., Saiki I., and Kadota S.: Thirteen Novel Cycloartane-type Triterpenes from *Combretum quadrangulare*. J. Nat. Prod., 63, 57-64 (2000).
- 2) Hamasaki N., Ishii E., Tominaga K., Tezuka Y., Nagaoka T., Kadota S., Kuroki T., and Yano I.: Highly selective antibacterial activity of novel alkyl quinolone alkaloids from a Chinese herbal medicine, Gosyuyu (Wu-Chu-Yu), against *Helicobacter pylori* in vitro. Microbiol. Immunol., 44, 9-15 (2000).
- 3) Hasegawa H., Lee K.-S., Nagaoka T., Tezuka Y., Uchiyama M., Kadota S., and Saiki I.: Pharmacokinetics of Ginsenoside Deglycosylated by Intestinal Bacteria and its Transformation to Biologically Active Fatty Acid Esters. Biol. Pharm. Bull., 23, 298-304 (2000).
- 4) Banskota A. H., Tezuka Y., Tran K. Q., Tanaka K., Saiki I., and Kadota S.: Methyl Quadrangularates A-D and Related Triterpenes from *Combretum quadrangulare*. Chem. Pharm. Bull., 48, 496-504 (2000).
- 5) Banskota A. H., Tezuka Y., Adnyana I K., Xiong Q., Hase K., Tran K. Q., Tanaka K., Saiki I., and Kadota S.: Hepatoprotective Effect of Leaves of *Combretum quadrangulare* and Its Constituents. Biol. Pharm. Bull., 24, 456-460 (2000).
- 6) Xiong Q., Fan W., Tezuka Y., Adnyana I K., Stampoulis P., Hattori M., Namba T., and Kadota S.: Hepatoprotective Effect of *Apocynum venetum* and Its Active Constituents. Planta Medica, 66, 127-133 (2000).
- 7) Adnyana I K., Tezuka Y., Banskota A. H., Xiong Q., Tran K. Q., and Kadota S.: Quadransides I-V, New Triterpene Glucosides from the Seeds of *Combretum quadrangulare*. J. Nat. Prod., 63, 496-500 (2000).

- 8) Kimura I., Islam Md. A., Honda R., Nojima H., Tezuka Y., and Zhao W.: Blood-Pressure Lowering, Positive Chronotropy and Inotropy by the Veratrum Alkaloids Germidine and Germerine but Negative Chronotropy by Veratrodine in Mice. *J. Asian Nat. Prod. Res.*, 2, 134-144 (2000).
- 9) Fan W., Tezuka Y., and Kadota S.: Prolyl Endopeptidase Inhibitory Activity of Fourteen Kampo Formulas and Inhibitory Constituents of Tokaku-joki-to (桃核承氣湯). *Chem. Pharm. Bull.*, 48, 1055-1061 (2000).
- 10) Xiong Q., Tezuka Y., Kaneko T., Li H., Tran L. Q., Hase K., Namba T., and Kadota S.: Inhibition of Nitric Oxide by Phenylethanoids in Activated Macrophages. *Eur. J. Pharmacol.*, 400, 137-144 (2000).
- 11) Tezuka Y., Ali M. S., Banskota A. H., and Kadota S.: Blepharocalyxins C-E; three novel antiproliferative diarylheptanoids from the seeds of *Alpinia blepharocalyx*. *Tetrahedron Lett.*, 41, 5903-5907 (2000).
- 12) Adnyana I K., Tezuka Y., Awale S., Banskota A. H., Tran K. Q., and Kadota S.: Quadransides VI-XI, Six New Triterpene Glucosides from the Seeds of *Combretum quadrangulare*. *Chem. Pharm. Bull.*, 48, 1114-1120 (2000).
- 13) Sekiya K., Tezuka Y., Tanaka K., Prasain J. K., Namba T., Katayama K., Koizumi T., Maeda M., Kondo T., and Kadota S.: Distribution, Metabolism and Excretion of Butylidenephthalide of Ligustici Chuanxiong Rhizoma in Hairless Mouse after Dermal Application. *J. Ethnopharmacol.*, 71, 401-409 (2000).
- 14) Banskota A. H., Tezuka Y., Adnyana I K., Midorikawa K., Matsushige K., Message D., Huertas A. A. G., and Kadota S.: Cytotoxic, hepatoprotective and free radical scavenging effects of propolis from Brazil, Peru, the Netherlands and China. *J. Ethnopharmacol.*, 72, 239-246 (2000).
- 15) Banskota A. H., Tezuka Y., Midorikawa K., Matsushige K., and Kadota S.: Two Novel Cytotoxic Benzofuran Derivatives from Brazilian Propolis. *J. Nat. Prod.*, 63, 1277-1279 (2000).
- 16) Tezuka Y., Stampoulis P., Banskota A. H., Awale S., Tran K. Q., Saiki I., and Kadota S.: Constituents of Vietnamese Medicinal Plant *Orthosiphon stamineus*. *Chem. Pharm. Bull.*, 48, 1711-1719 (2000).
- 17) Adnyana I K., Tezuka Y., Banskota A. H., Tran K. Q., and Kadota S.: Hepatoprotective Constituents of the Seeds of *Combretum quadrangulare*. *Biol. Pharm. Bull.*, 24, 1328-1332 (2000).
- 18) Tezuka Y., Terazono M., Kusumoto I. T., Hatanaka Y., Kadota S., Hattori M., Namba T., Kikuchi T., Tanaka K., and Supriyatna S.: Helicterins A-F, Six New Dimeric (7.5', 8.2')-Neolignans, from Indonesian Medicinal Plant *Helicteres isora*. *Helv. Chim. Acta*, 83, 2908-2919 (2000).
- 19) Tezuka Y., Honda K., Banskota A. H., Thet M. M., and Kadota S.: Kinmoonosides A-C, Three New Cytotoxic Saponins from the Fruits of *Acacia concinna*, a Medicinal Plant Collected in Myanmar. *J. Nat. Prod.*, 63, 1658-1664 (2000).
- 20) Xiang T., Tezuka Y., Wu L.-J., Banskota A. H., and Kadota S.: Saponins from *Lonicera bournei*. *Phytochemistry*, 54, 795-799 (2000).

◆ 総 説

- 1) 門田重利, 手塚康弘: プロポリスの生物活性. *Biological Activities of Propolis. Bio-therapy*, 14, 991-998 (2000).

◆ 学会報告

- 1) Arjun H. Banskota, Yasuhiro Tezuka, Kim Qui Tran, Ken Tanaka, Ikuo Saiki, and Shigetoshi Kadota: Eight Additional New Cycloartane-type Triterpenes from the Leaves of *Combretum quadrangulare* and Their Cytotoxic Activity. 日本薬学会第120年会, 2000, 3/29-31, 岐阜.
- 2) I Ketut Adnyana, Yasuhiro Tezuka, Arjun H. Banskota, Quanbo Xiong, Kim Qui Tran, and Shigetoshi Kadota: Four New Triterpene Glucosides from Seeds of *Combretum quadrangulare* and Their Hepatoprotective Activity. 日本薬学会第120年会, 2000, 3/29-31, 岐阜.
- 3) 手塚康弘, 本田和之, Arjun H. Banskota, 門

- 田重利：ミャンマー産植物 *Acacia concinna* のトリテルペンサポニン成分について。日本薬学会第120年会，2000，3/29-31，岐阜。
- 4) Quan L. Tran, 手塚康弘, Qui K. Tran, 門田重利：Study on the saponin constituents in Vietnamese ginseng (*Panax vietnamensis* Ha et Grushv.). 日本薬学会北陸支部第102回例会，2000，6/17，金沢。
- 5) Mohammad Shawkat Ali, Arjun H. Banskota, 手塚康弘, 濟木育夫, 門田重利：Novel dimeric diarylheptanoids from the Seeds of *Alpinia blepharocalyx*. 日本薬学会北陸支部第102回例会，2000，6/17，金沢。
- 6) Arjun H. Banskota, Kiyoshi Midorikawa, Yasuhiro Tezuka, I Ketut Adnyana, Takema Nagaoka, Katsumichi Matsushige, Dejair Message, Alfredo A. G. Huertas, Shigetoshi Kadota：Biological Evaluation and LC-MS Analysis of Propolis from Brazil, Peru, China and the Netherlands. 第17回和漢医薬学会大会，2000，9/2-3，愛知。
- 7) I Ketut Adnyana, Yasuhiro Tezuka, Arjun H. Banskota, Kim Qui Tran, Shigetoshi Kadota：Hepatoprotective Constituents from MeOH extract of Seeds of *Combretum quadrangulare*. 第17回和漢医薬学会大会，2000，9/2-3，愛知。
- 8) 范 文哲, 手塚康弘, 門田重利：方剂化によるプロリルエンドペプチダーゼ阻害活性と活性成分の変化：桃核承気湯について。第17回和漢医薬学会大会，2000，9/2-3，愛知。
- 9) 范 文哲, 手塚康弘, 門田重利, Daw Khin May Ni：高山紅景天 (*Rhodiola sachalinensis* A. BOR. の地下部) のプロリルエンドペプチダーゼ阻害活性成分。日本生薬学会第47回年会，2000，9/7-8，所沢。
- 10) Suresh Awale, 手塚康弘, Arjun H. Banskota, 門田重利, Kyaw Myint Tun：Five novel diterpenes from Myanmar *Orthosiphon stamineus*. 日本生薬学会第47回年会，2000，9/7-8，所沢。
- 11) 長岡武馬, 田中 謙, 手塚康弘, 難波恒雄, 門田重利：正倉院御物「黒黄連」の同定。日本生薬学会第47回年会，2000，9/7-8，所沢。
- 平成12年度和漢医薬学会奨励賞受賞講演，2000，9/2，愛知。
- 2) 緑川 淑, Banskota A. H., 手塚康弘, 長岡武馬, 松繁克道, Dejair Message, Alfredo A. G. Huertas, 門田重利：ブラジル産プロポリスのLC/MSによる品質評価の試み。第11回東海北陸質量分析合同談話会，2000，7/15，富山。

◆ その他

- 1) 手塚康弘：LC-MS を用いる和漢薬の同等性評価の試み - 漢薬「丹参」の基源植物の成分比較 -。