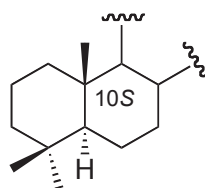


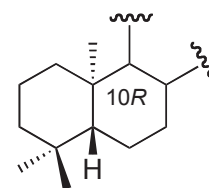
■ REVIEWS

1625 Recent Advances in the Syntheses of Decalin Type Natural Products

Hiroyuki Akita*



(10S)-type natural products

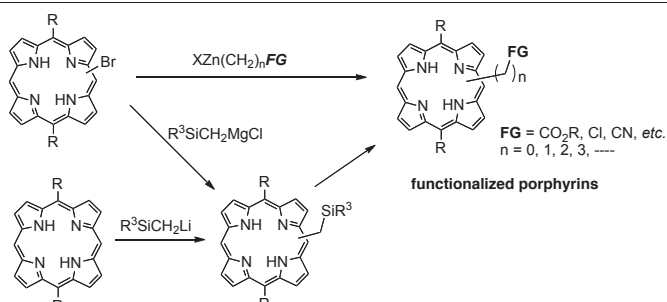


(10R)-type natural products

Natural Product Synthesis Terpenoid Enzymatic Resolution Optical Resolution Bicyclo[4.4.0]decane Ring System

1659 Functionalization of Porphyrins through C-C Bond Formation Reactions with Functional Group-Bearing Organometallic Reagents

Toshikatsu Takanami*

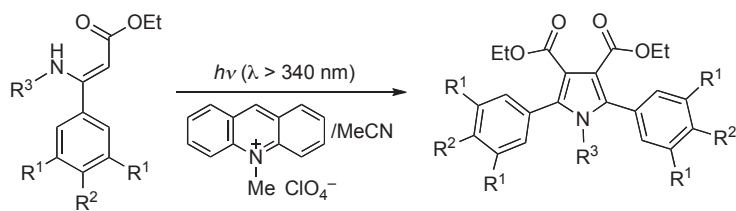


Functionalized Porphyrin Organozinc Reagent Silylmethyl lithium Reagent Silylmethyl Grignard Reagent

■ COMMUNICATION

1691 Novel Photosensitized Cyclization Reactions of Ethyl 3-Amino-3-phenyl-2-propenoate Derivatives to Highly Substituted Pyrroles

Yohsuke Ishida, Yuhki Yoshida, Tetsutaro Igarashi, and Tadamitsu Sakurai*



yield: 60–96%

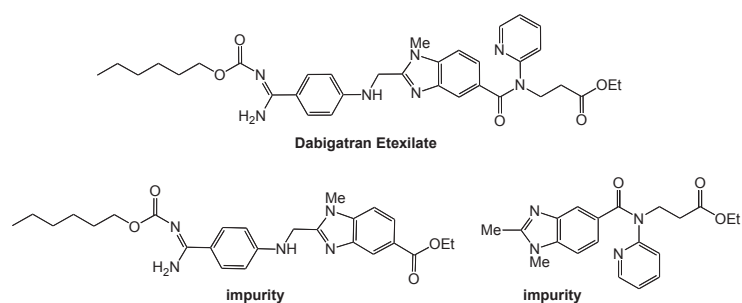
R¹ = H, OMe; R² = OMe, Me, H, Cl, CN; R³ = H, Bu

β-Dehydroarylanine Ethyl Ester Photosensitization Reaction Electron Transfer Fluorescence Quenching Substituted Pyrrole Substituent Effect

■ PAPER

1699 **Synthesis, Characterization and Suppression of Impurities during Optimization of Dabigatran Etxilate**

Yu Chen,* Jun Liang, Huansheng Chen, and Li Yuan

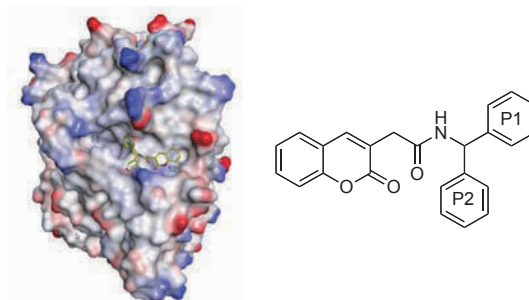


Dabigatran Etxilate Impurity Synthesis Process Synthesis

■ SHORT PAPERS

1711 **Synthesis of Novel Coumarin Derivatives and in vitro Biological Evaluation as Potential PTP 1B Inhibitors**

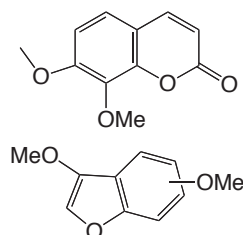
Cheng Sun, Chune Peng, Jian Wang, Quan Wang, Wei Liu, Honggang Zhou,* and Cheng Yang



PTP 1B Inhibitor Diabetes Obesity Coumarin

1727 **Synthetic Models Related to Methoxalen – CYP2A6 Interactions. Dimethoxybenzofuran Derivatives as Potent and Selective Inhibitors of CYP2A6**

Yuki Yamaguchi, Ichie Akimoto, Kyoko Motegi, Teruki Yoshimura, Keiji Wada, Naozumi Nishizono, and Kazuaki Oda*



Methoxalen
CYP2A6 IC₅₀: 1.92 μM, CYP3A4 IC₅₀: 5.46 μM

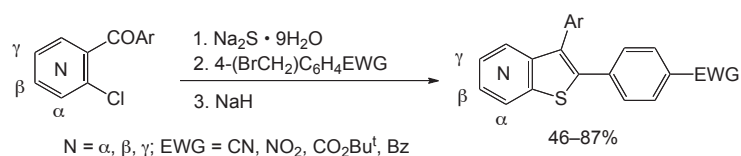
3,6-dimethoxybenzofuran
CYP2A6 IC₅₀: 2.00 μM, CYP3A4 IC₅₀: > 10 μM

3,7-dimethoxybenzofuran
CYP2A6 IC₅₀: 1.92 μM, CYP3A4 IC₅₀: > 10 μM

CYP2A6 CYP3A4 Inhibitor Dimethoxybenzofuran Methoxalen

1741 **One-Pot Synthesis of 2,3-Diarylthieno[2,3-*b*]-, -[2,3-*c*]- or -[3,2-*c*]pyridines from the Respective Aryl-(chloropyridinyl)methanones**

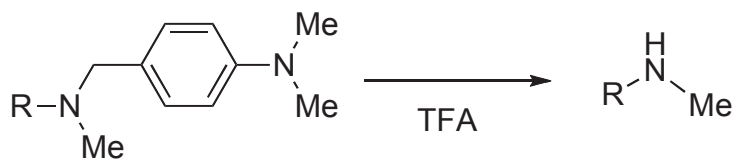
Kazuhiro Kobayashi,* Taira Ohmichi, Wataru Miyatani, Kazuhiro Nakagawa, and Shohei Yuba



Thieno[2,3-*b*]pyridine Thieno[2,3-*c*]pyridine Thieno[3,2-*c*]pyridine Chloropyridinyl Ketone Sodium Sulfide

1749 Efficient Synthesis of *N*-Methylamides and Amines via 4-(Alkylamino)benzyl-*N*-methylamine as a New Protecting Group

Sang-Hak Lee, Yu Mu, Gun-Woo Kim, Jin-Seok Kim, Seok-Hwi Park, Tian Jin, Kee-Young Lee, and Won Hun Ham*

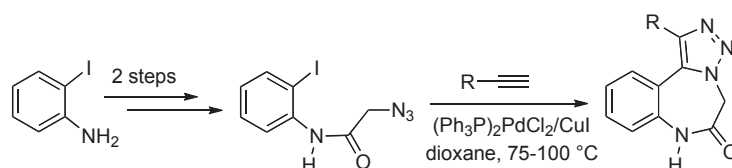


R = amide, Ar

N-Methylation *N*-Debenzylation TFA Amide Arylamine

1765 Three-Step Synthesis of Triazolobenzodiazepinones via Sonogashira/Huisgen Protocol

Giorgio Molteni*

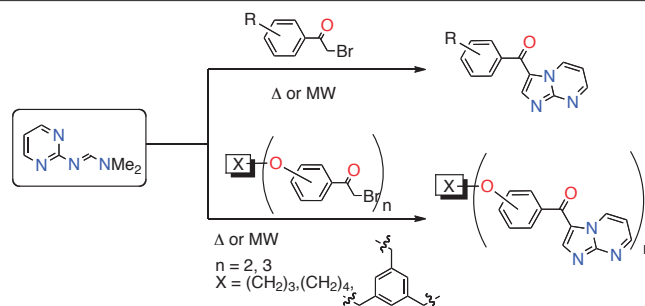


R = Ph, CO₂Me, CH₂OH, (CH₂)₃OH, CH(OH)Ph

Sonogashira Coupling Huisgen Cycloaddition Palladium-Catalysed Coupling 1,2,3-Triazolobenzodiazepinone

1775 Facile Access to Novel 3-Acylimidazo[1,2-*a*]pyrimidines under Microwave Irradiation

Mohamed R. Shaaban*



ω -Bromoacetophenone Bis-(ω -bromoacetophenone) Pyrimidinylformamide Imidazopyrimidine Microwave Irradiation

NEW HETEROCYCLIC NATURAL PRODUCTS

- 1785 Polyketides
- 1787 Aromatics
- 1799 Terpenes
- 1806 Steroids
- 1807 Alkaloids
- 1818 Miscellaneous

Contributors To This Issue

1727 Akimoto, Ichie
1625 Akita, Hiroyuki
1699 Chen, Huansheng
1699 Chen, Yu
1749 Ham, Won-Hun
1691 Igarashi, Tetsutaro
1691 Ishida, Yohsuke
1749 Jin, Tian
1749 Kim, Gun-Woo
1749 Kim, Jin-Seok
1741 Kobayashi, Kazuhiro
1749 Lee, Kee-Young
1749 Lee, Sang-Hak
1699 Liang, Jun
1711 Liu, Wei
1741 Miyatani, Wataru
1765 Molteni, Giorgio
1727 Motegi, Kyoko
1749 Mu, Yu
1741 Nakagawa, Kazuhiro
1727 Nishizono, Naozumi
1727 Oda, Kazuaki
1741 Ohmichi, Taira
1749 Park, Seok-Hwi
1711 Peng, Chune
1691 Sakurai, Tadimitsu
1775 Shaaban, Mohamed R.
1711 Sun, Cheng
1659 Takanami, Toshikatsu
1727 Wada, Keiji
1711 Wang, Jian
1711 Wang, Quan
1727 Yamaguchi, Yuki
1711 Yang, Cheng
1691 Yoshida, Yuhki
1727 Yoshimura, Teruki
1699 Yuan, Li
1741 Yuba, Shohei
1711 Zhou, Honggang