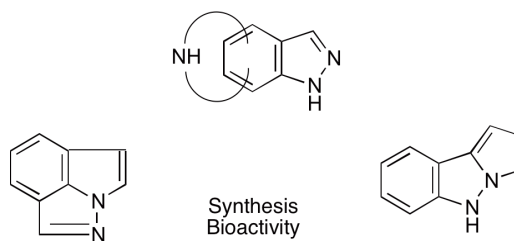


■ REVIEW

1555 **Synthesis and Bioactivity of Pyrroloindazoles: An Overview**

Manas Chakrabarty,\* Moumita Rakshit, and Gandhi K Kar



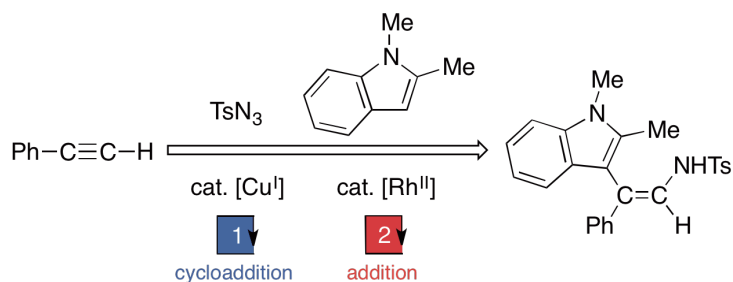
Pyrroloindazoles

Pyrroloindazole    Synthesis    Heteroannulation    Cycloaddition Reaction    Bioactivity

■ COMMUNICATION

1579 **Site-Selective Introduction of an Enamido Group at the C(3)-Position of Indoles**

Tomoya Miura,\* Qiang Zhao, Yuuta Funakoshi, and Masahiro Murakami\*

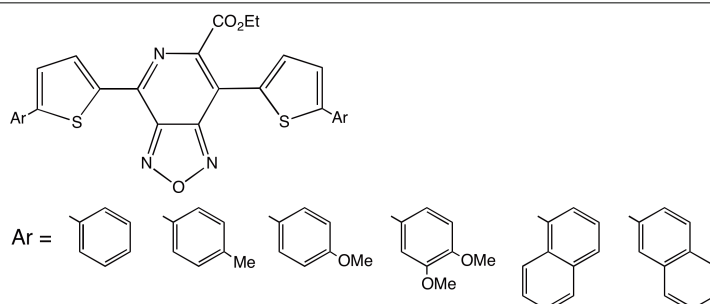


Indole    Triazole    C-H Bond Functionalization    Carbene    Rhodium Catalyst

■ PAPERS

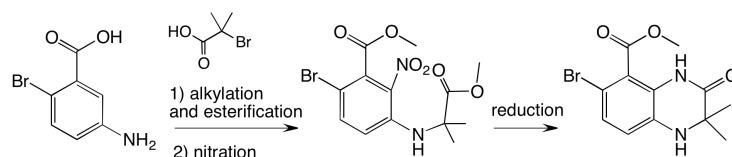
1585 **NIR-Fluorescent Ethyl 4,7-Bis(5-arylthiophen-2-yl)-1,2,5-oxadiazolo[3,4-c]pyridine-6-carboxylate**

Kentaro Nishi,\* Nobuyuki Seto, Wataru Iwasaki, Yohei Matsuoka, Yuki Kashiwa, Youichi Sano, Tadashi Kawaharada, Takashi Yazumi, Keiji Mizuki, and Shin-ichiro Isobe



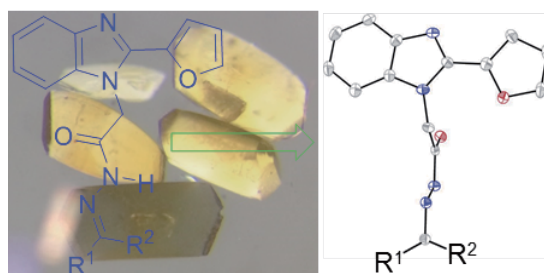
Near Infrared Fluorescent Dye    NIRF    Fluorescence

- 1591 Development of a Practical Synthesis of 7-Bromo-8-methoxycarbonyl-3,3-dimethyl-3,4-dihydro-1H-quinoxalin-2-one**  
Kazuhiro Kudo,\* Takahiro Honda, and Noriyoshi Yamamoto



SEGRA Process Optimization Pharmaceutical Intermediate Alkylation Reaction

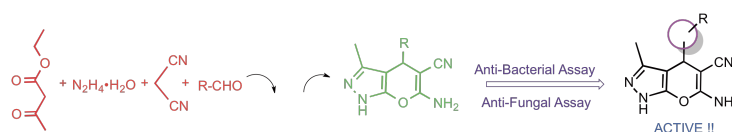
- 1603 Crystal Structures of 2-Furylbenzimidazoles with Antiangiogenic Inhibition of VEGF in Cell Line MCF-7**  
Keith J. Flanagan, Yasser M. Shaker, Ahmed Temirak, Hoda I. El Diwani, and Mathias O. Senge\*



2-Furylbenzimidazole Crystal Structure Hydrogen Bonding Anti-Angiogenic Compound

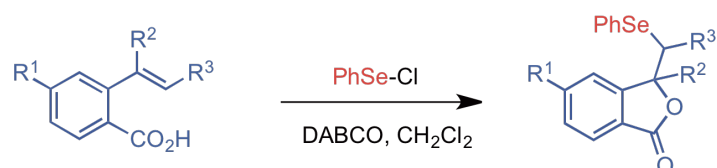
### SHORT PAPERS

- 1615 Novel Grinding Synthesis of Pyranopyrazole Analogues and Their Evaluation as Antimicrobial Agents**  
Ashok Sharma, Badvel Pallavi, Rajnish Prakash Singh, Prabhat Nath Jha, and Paritosh Shukla\*



Pyranopyrazole Synthesis Grinding Synthesis Antimicrobial Activity

- 1628 Synthesis of Phenylselenylisochroman-1-ones through Highly Selective Selenolactonization of Styrene-Typed Carboxylic Acids**  
Enshan Zhou,\* Xin Han, Yuanyuan Li, Chao Guo, and Chune Dong\*



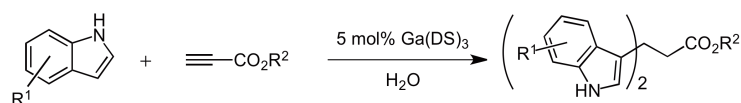
R<sup>1</sup> = H, Me, Cl  
R<sup>2</sup> = H, Me, Ph, *p*-MePh, *p*-FPh, *p*-ClPh, *p*-BrPh, *p*-MeOPh  
R<sup>3</sup> = H, Me, *n*-Pr, *p*-MePh, *p*-MeOPh, *p*-FPh, *m*-MePh

18 examples  
up to 94% yield

Selenolactonization Carboxylic Acid Isochroman-1-one

**1637 Ga(III) Catalyzed Addition of Indole Derivatives and Different Propiolates**

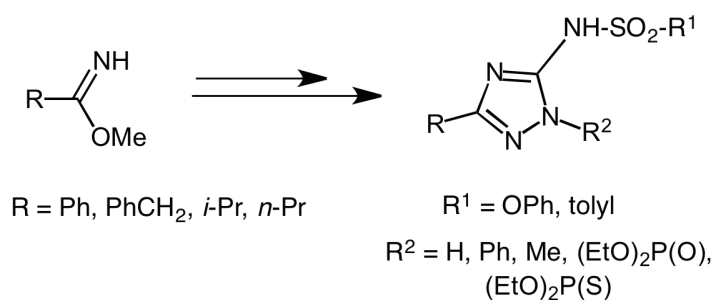
Xun Zhu,\* Xiuqin Zhou, and Dongsheng Xiang



Gallium(III) Catalyst    Michael Addition Reaction    Indole    Propiolate Ester

**1645 Simple and Efficient Synthesis of Some Novel Triazoles Sulfonamides**

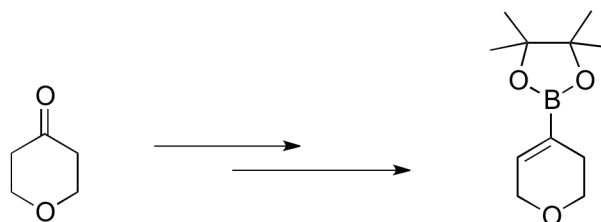
Maha Hachicha, Monaem Balti,\* Hédi Mrabet, and Mohamed Lotfi El Efrif



Triazole    Triazole Sulfonamide    Iminoester

**1654 Development of an Efficient Process for 3,6-Dihydro-2H-pyran-4-boronic Acid Pinacol Ester**

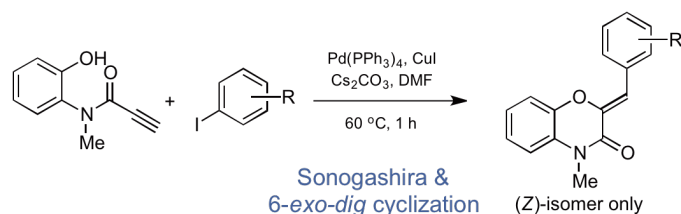
Feng Xue,\* Yong Zhu, and Chang-Gong Li



3,6-Dihydro-2H-pyran-4-boronic Acid Pinacol Ester    Palladium-Catalyzed Cross-Coupling Reaction    Hydrazone    4-Tetrahydropyranone

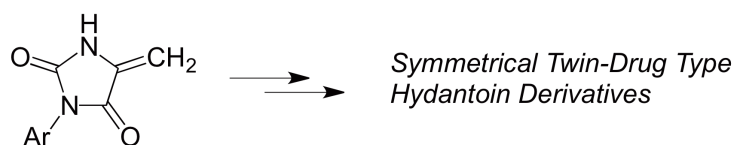
**1660 Synthesis of 2-(Arylmethylene)-1,4-benzoxazin-3-one by One-Pot Sonogashira and 6-exo-Dig Cyclization**

Dahye Lee, Sunhwa Park, Yosep Yu, Kye Jung Shin, and Jae Hong Seo\*


 2-(Arylmethylene)-1,4-benzoxazin-3-one    Sonogashira Reaction    6-*exo-Dig* Cyclization    One-Pot Reaction

**1668 Preparation and Antibacterial Evaluation of Some Symmetrical Twin-Drug Type Bivalent Molecules**

Fumiko Fujisaki, Makoto Furutachi, Ryou Fujiwara, Miriko Okabe, Hatsumi Aki, Nobuhiro Kashige, Fumio Miake, and Kunihiro Sumoto\*



Hydantoin    Bivalent Twin-Drug    Antibacterial Activity    Structure-Activity Relationship    Symmetrical Molecule

■ TOTAL SYNTHESIS OF HETEROCYCLIC NATURAL PRODUCTS

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- 1679 Polyketides
  - 1684 Aromatics
  - 1688 Terpenes
  - 1690 Steroids
  - 1691 Alkaloids
- 

■ BRUSH UP YOUR HETEROCYCLES

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- 1703 Brush Up Your Heterocycles
-

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