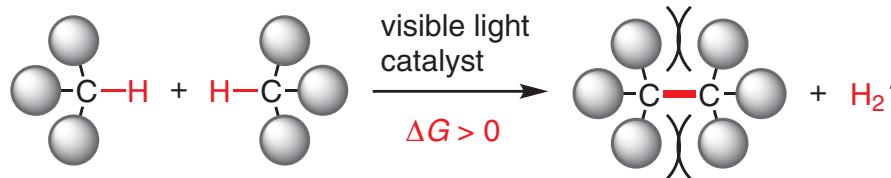


# Synlett

Accounts and Rapid Communications in Chemical Synthesis

December 17, 2021 • Vol. 32, 1981–2096



Photodriven Dehydrogenative Homocoupling of Benzylic C–H Bonds  
Forming Strained C–C Bonds

N. Ishida, M. Son, T. Kawasaki, M. Ito, M. Murakami

20

 Thieme

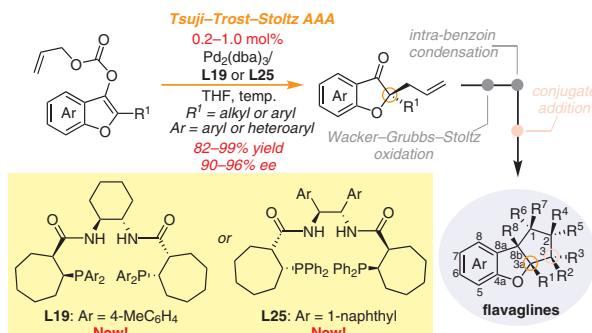
## Synlett

Synlett 2021, 32, 1981–1986  
DOI: 10.1055/a-1650-4266

H.-H. Lu\*  
M.-Y. Cao  
Westlake University, P. R. of China  
Westlake Institute for Advanced Study, P. R. of China  
Zhejiang University, P. R. of China  
Nanjing Tech University, P. R. of China

## Enantioselective Palladium-Catalyzed Decarboxylative Dearomative Asymmetric Allylic Alkylation of Benzofurans: Diversity-Oriented Synthesis of Flavaglines

Synpacts  
1981



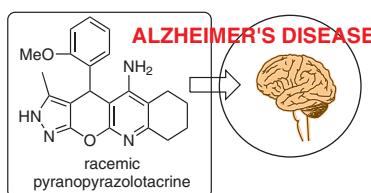
## Synlett

Synlett 2021, 32, 1987–2012  
DOI: 10.1055/s-0040-1719823

M. do Carmos Carreiras\*  
J. Marco-Contelles  
Universidade de Lisboa, Portugal

## Five-Membered-Ring-Fused Tacrines as Anti-Alzheimer's Disease Agents

Account  
1987

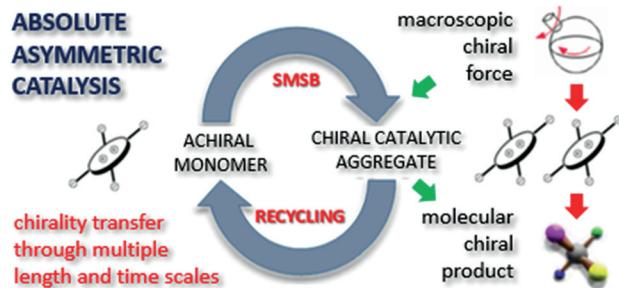


- is less hepatotoxic than tacrine
- is a potent noncompetitive AChE inhibitor
- completely inhibits EeAChE-induced  $A\beta_{1-40}$  aggregation
- does not affect  $A\beta_{1-40}$  self-aggregation
- shows strong neuroprotective effects

J. Crusats\*

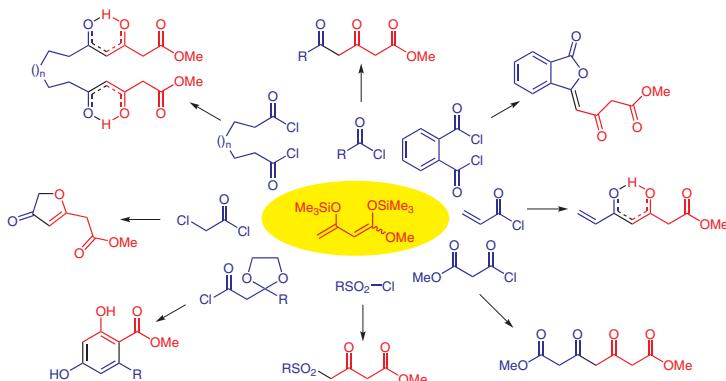
A. Moyano\*

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S. Matsuoka

K. Azami

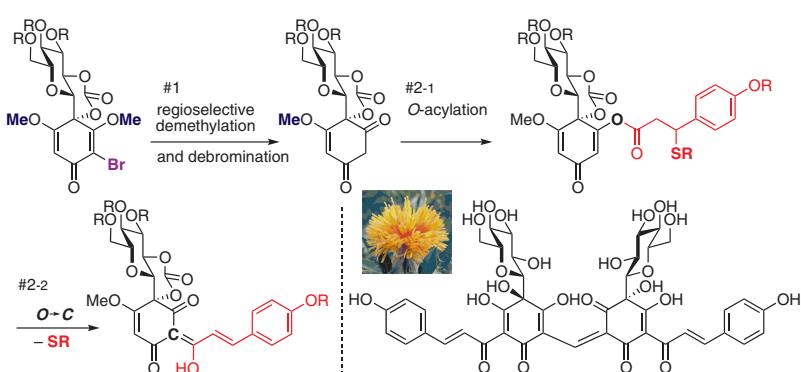
Y. Fujiki

R. Dohi

T. Yasuike

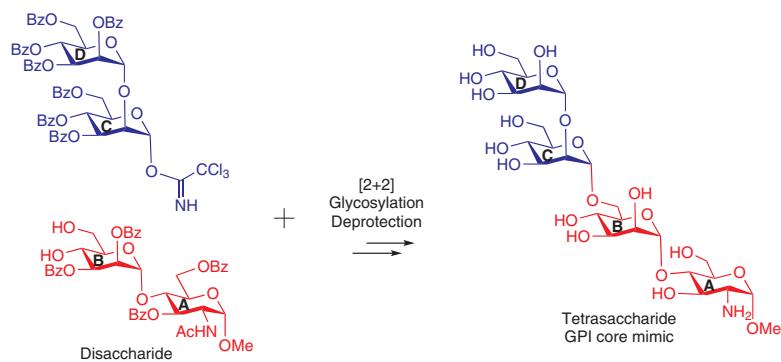
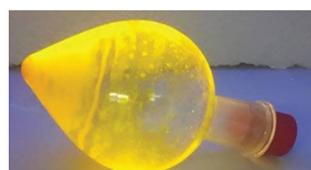
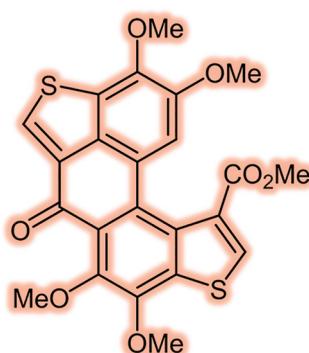
K. Ohmori\*

K. Suzuki\*

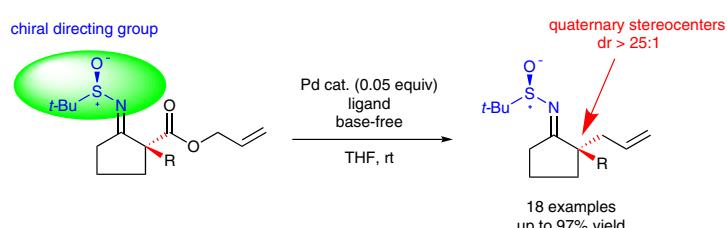
Tokyo Institute of Technology,  
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T. F. Belz\*

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N. S. Baleeva  
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Z. M. Kaskova\*  
A. S. Tsarkova  
Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry,  
Russian Federation  
Pirogov Russian National Research Medical University,  
Russian Federation

- ✓ novel class of fluorescent dyes
- ✓ two-step synthesis from benzenethiols
- ✓ opportunities for further functionalization

S. Cao  
C. Li  
X. Wang  
Y. Huang  
G. Yang\*  
Y. Luo\*  
S. Qin\*Nankai University, P. R. of China  
Hubei University of Science and Technology, P. R. of China

N. Ishida\*

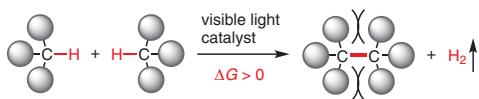
M. Son

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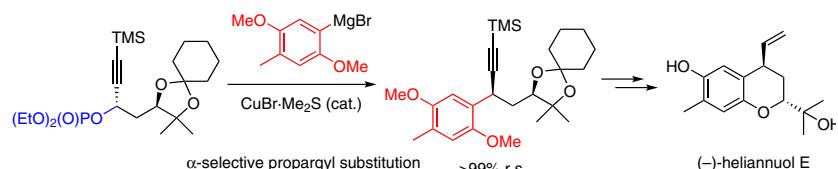


N. Ogawa\*

C. Uematsu

Y. Kobayashi

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Y. Mei

N. Jiang

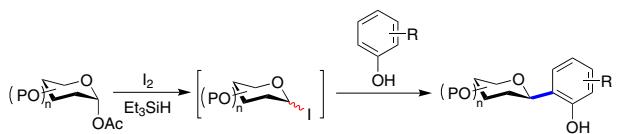
Y. Yang

W. Zhang

S. Qiu

H. Guo

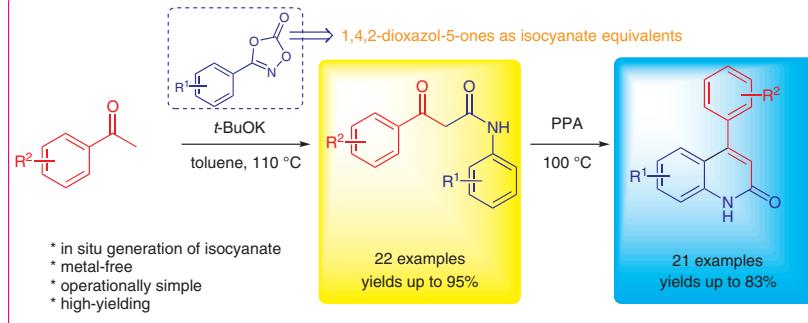
J. Zhang\*

East China Normal University,  
P. R. of China

- metal-free catalysis
- easily accessible donor
- via glycosyl iodide intermediate
- mild reaction conditions
- rapid reaction process
- applications to aza-aquayamycin synthesis

**A. Vala****N. Parmar****J. Y. Soni****S. Kotturi****R. Guduru\***Piramal Discovery Solutions,  
India

## 1,4,2-Dioxazol-5-ones as Isocyanate Equivalents: An Efficient Synthesis of 2-Quinolinones via $\beta$ -Keto Amides

**A. Yanagisawa\*****C. Uchiyama****K. Takagi**

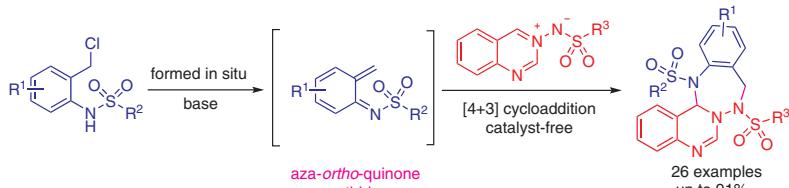
Chiba University, Japan

## Asymmetric Aldol Reaction of Alkenyl Esters with $\alpha$ -Keto Esters Catalyzed by Chiral Tin Alkoxides

**X. Wang****Z. Li****C. Feng****Q. Zhen****M. Guo****Y. Yao****X. Zou****P. Wang****Y. Hou\*****P. Gong\***

Shenyang Pharmaceutical University, P. R. of China

## A [4+3] Cycloaddition Reaction of Aza-ortho-quinone Methides with C,N-Cyclic Azomethine Imines for Synthesis of 1,2,4-Triazepines



- reactive species formed in situ
- scalable and operationally simple
- wide substrate scope and good yields