provitamin D₃

- only 3 steps
- no protecting groups
- first synthesis of a steroid with a bicyclo[4.3.1]-decane A/B ring system

24,25-dihydro-6-*epi*-monanchosterol A

A Concise Synthesis of 24,25-Dihydro-6-*epi*-Monanchosterol A

Ö. Taspinar, V. K. Stojadinovic, J.-M. Neudörfl, H.-G. Schmalz

11

Thieme

Synlett

W.-T. Jiang
B. Xiao*

University of Science and Technology of China, P. R. of China

Alkylcarbagermatranes Permit an Alkylation-Terminated Catellani Reaction

Synpacts

1049

Intramolecular cyclization   *Totarol derivative*   *Indomethacin derivative*
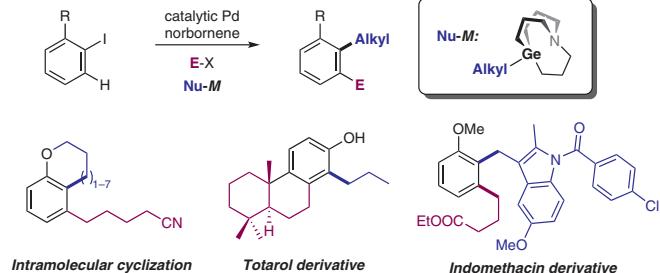

Synlett

T. Zhang
A. E. Ondrus*

California Institute of Technology, USA

Structure, Bonding, and Photoaffinity Labeling Applications of Dialkyldiazirines

Synpacts

1053

Diazocarbonyl Compounds in Organofluorine Chemistry

Account
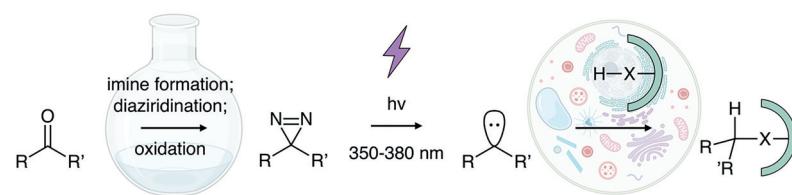
1060

M. Lübcke
K. J. Szabó*

Stockholm University, Sweden

Porphyrinoids with Vinylene Bridges

Account
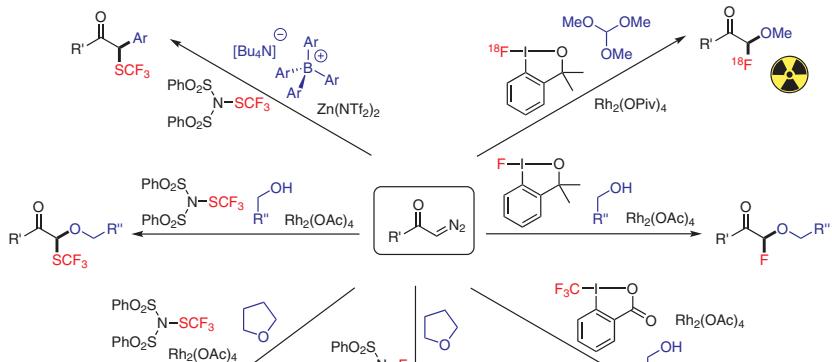
1072

D. Kuzuhara*
H. Yamada*

Iwate University, Japan
Nara Institute of Science and
Technology (NAIST), Japan
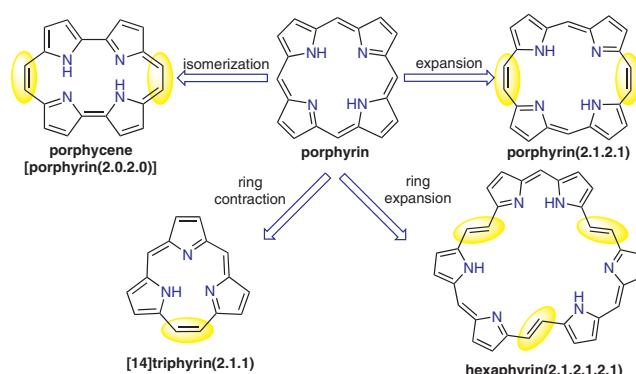
A Concise Synthesis of 24,25-Dihydro-6-*epi*-Monanchosterol A

Letter

1085

Ö. Taspinar
V. K. Stojadinovic
J.-M. Neudörfl
H.-G. Schmalz*

University of Cologne, Germany

- only 3 steps
- no protecting groups
- first synthesis of a steroid with a bicyclo[4.3.1]-decane A/B ring system

provitamin D₃ → 24,25-dihydro-6-*epi*-monanchosterol A

Synlett
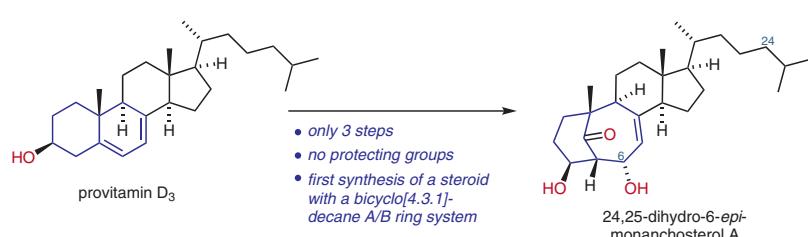
D. Albat
J.-M. Neudörfl
H.-G. Schmalz*

University of Cologne, Germany

A Short Enantioselective Synthesis of (*S*)-Levetiracetam through Direct Palladium-Catalyzed Asymmetric *N*-Allylation of Methyl 4-Aminobutyrate

Letter

1089

Synlett
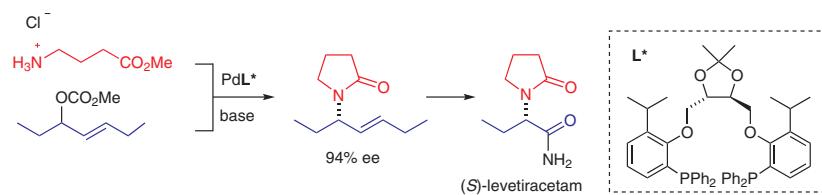
Z.-r. Yang
M. Shi*

University of Chinese Academy of Sciences, P. R. of China

Cesium Carbonate Mediated Cyclization of Oxotryptamines with Allenoates: An Approach to Spiro[azepane-4,3′-indol]-2′(1′*H*)-ones

Letter

1093

R¹ = halo, Me, MeO
R² = Me, ⁱPr, Bn
R³ = sulfonamido
R⁴ = Et, Bn

14 examples
up to 96% yields

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Synlett
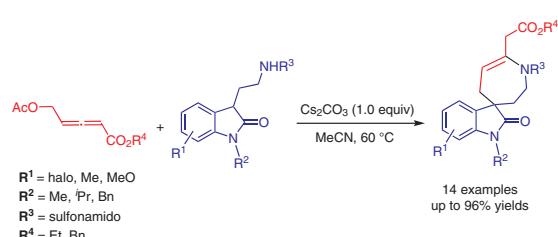
K. Takahashi
A. Sugiyama
K. Ohkubo
T. Tatsumi
T. Kodama
K. Yamatsugu*
M. Kanai*

The University of Tokyo, Japan

Axially Substituted Silicon Phthalocyanine Payloads for Antibody–Drug Conjugates

Letter

1098

Ab-IR700
- Phthalocyanine-substituted SiPc
- ✖ Many steps, low yield

Ab-NuSiPc (This work)
- Axially substituted SiPc
- ✔ Fewer steps, high yield

▼

Synlett

Sodium Aminodiboranate, a New Reagent for Chemoselective Reduction of Aldehydes and Ketones to Alcohols

Letter

1104
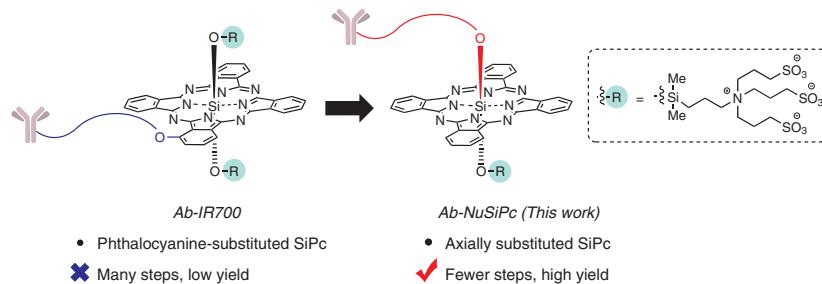
J. Wang
Y. Guo
S. Li
X. Chen*

Henan Normal University,
P. R. of China
Zhengzhou University,
P. R. of China

R = aryl, alkyl
R' = H, aryl, alkyl

$NaNH_2(BH_3)_2$ THF, rt

80–98% yield
39 examples
convenient operation
5 min for most aldehydes and simple ketone complexes

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Synthesis of Dihydropyrrole Derivatives by Oxidative Functionalization of 2-Amino-4H-Chromenes Using Hypervalent Iodine Reagents

Letter

1109
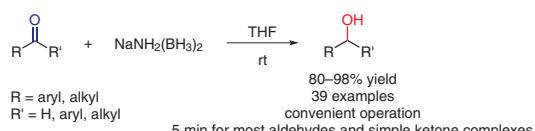
D. R. Indukuri
G. R. Potuganti
J. B. Nanubolu
M. Alla*

CSIR-Indian Institute of Chemical
Technology, India
Academy of Scientific and Inno-
vative Research (AcSIR), India

IBD   DCM

Novel rearrangement with ring contraction
Formation of two new C–N bonds
Broad substrate scope

27 examples
up to 75% yield

Synlett

An Efficient Strategy for the Synthesis of Naphtho[2,3-b][1,6]naphthyridines Promoted by Acetic Acid

Letter

1117
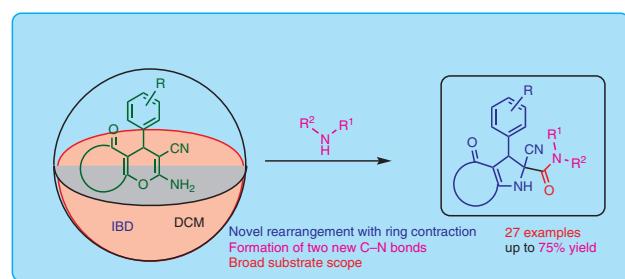
C. Li
F. Zhang*
Z. Shen*

Shaoxing University, P. R. of
China
Zhejiang University of Technolo-
gy, P. R. of China

R = Ar, Bn, ^{n}Bu

HOAc, 100–120 °C

24 examples prepared
up to 86% yields

## Highly Selective Difluoromethylations of β-Keto Amides with TMSCF$_2$Br under Mild Conditions
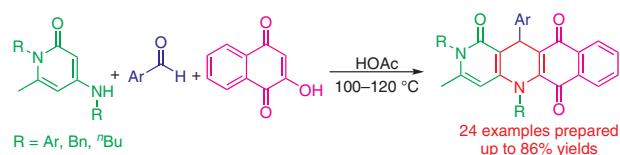
Y. Wang*
S. Wang
C. Zhang
T. Zhao
Y. Hu
M. Zhang
P. Chen
Y. Fu

Xinxiang Medical University,
P. R. of China

- mild conditions and gram-scale synthesis
- enantioselective electrophilic difluoromethylation
- excellent yields and high C/O selectivities
- C/O selectivity is easily reversed and controlled

A New Synthesis Strategy for Rhodanine and Its Derivatives
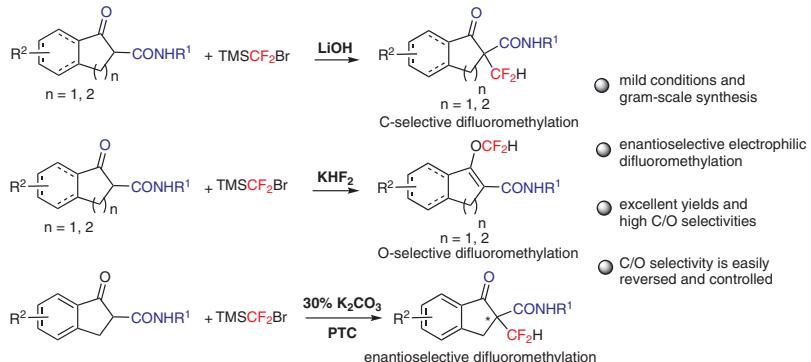
Z. Pan*
W. An
L. Wu
L. Fan
G. Yang
C. Xu

Henan Agricultural University,
P. R. of China

R' = H, Me, Et, Ph, *p*-MeC$_6$H$_4$,
m-CF$_3$C$_6$H$_4$, *o*-ClC$_6$H$_4$
R'' = H, Me, Ph

up to 93% yield

A Single-Step Asymmetric Phosphodiester Synthesis from Alcohols with Phosphoenolpyruvate Phosphodiester
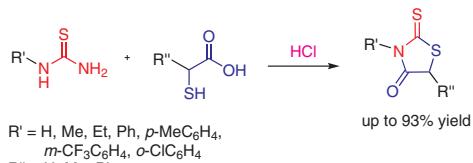
K. Fujiyoshi
S. A. Kawashima
K. Yamatsugu*
M. Kanai*

The University of Tokyo, Japan

small molecule with FG
protected sugar
protected amino acid

21 examples
30–73% yield
R = Me, Et, Bn

Synlett
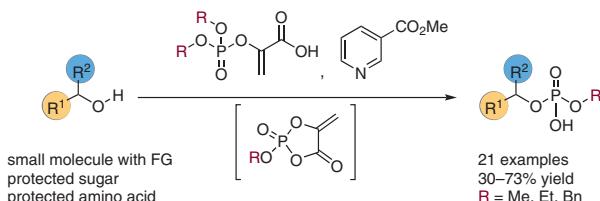
O. Szumski
J. Karmakar
F. Grynszpan*

Ariel University, Israel

Re-enter the *syn*-(Me,I)Bimane:
A Gateway to Bimane Derivatives with Extended π-Systems

Letter

1141

Synlett
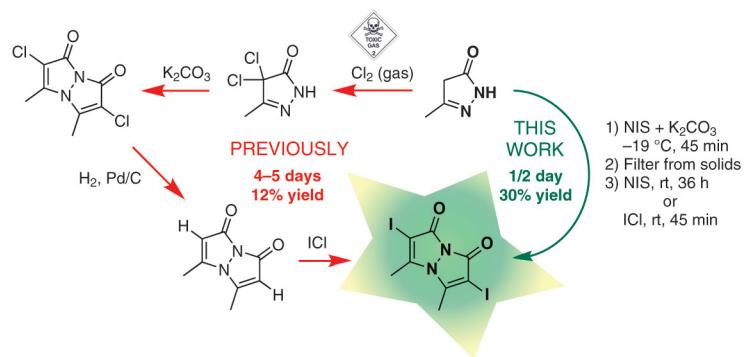
P. Kamath
V. Jadhav
M. Lal*

Syngenta Biosciences, India
Mangalore University, India

Heterocycle–Heterocycle Strategy for 4,5-Disubstituted Pyrrolidine
2,3-Diones: Reductive Rearrangement Approach from Isoxazole Esters

Letter

1146

R¹ = Aryl and alkyl
R² = Me