

# Organic & Biomolecular Chemistry

An international journal of synthetic, physical and biomolecular organic chemistry

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## IN THIS ISSUE

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### Cover

See Hari Prasad Kokatla *et al.*, pp. 601–607.

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## REVIEWS

529

### Recent advances in Pd-catalysed decarboxylative asymmetric allylic alkylation

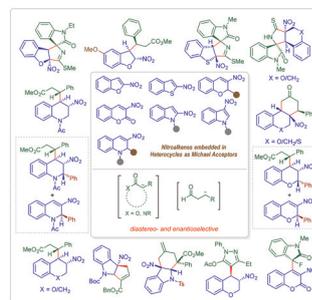
Niamh Lehane and Patrick J. Guiry\*



544

### Stereoselective enolate and homoenolate Michael additions to benzo-fused nitroalkenes: strategic advances and mechanistic perspectives

Aniruddh Pratap and Biswajit Maji\*



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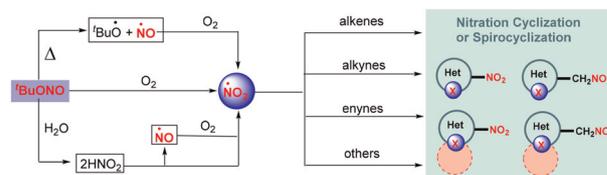
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## REVIEWS

568

Recent advances in *tert*-butyl nitrite-mediated nitration cyclization/spirocyclization reactions

Pu Guo, Yunfei Tian,\* Luping Zheng, Xiaojun Li, Mengyun Niu, Weijun Fu, Yuzhen Zhao\* and Zejiang Li\*

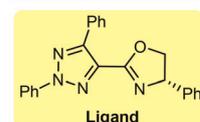
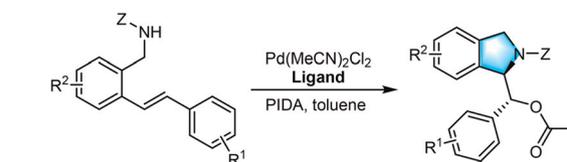


## COMMUNICATIONS

581

Asymmetric synthesis of isoindolines *via* a palladium-catalyzed enantioselective intramolecular oxidative aminoacetoxylation reaction

Dongyuan Ju, Binggang Wang, Jiaao Kang, Kewei Hu and Zhiguang Song\*

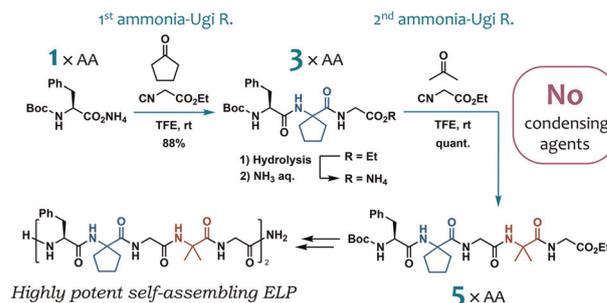


- New stategy for isoindoline skeleton construction
- Vicinal two stereocentres
- Mild reaction conditions
- up to 80% yield; up to 77:23 d.r.; up to 90.5:9.5 e.r.
- 22 examples

587

## N-to-C peptide elongation by ammonia-Ugi reaction: synthesis of potent self-assembling elastin-like short peptides

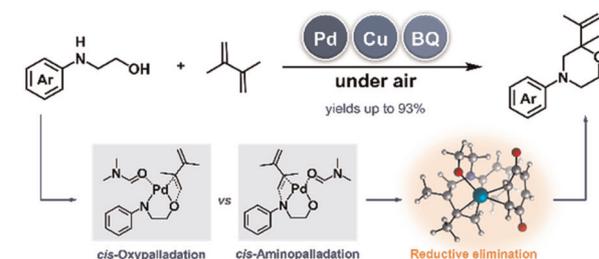
Keisuke Tomohara,\* Naoki Tanaka, Yukino Kotake, Miwa Ushiro, Misato Adachi, Hikaru Kimura, Hisanori Nambu\* and Takeru Nose\*



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Synthesis of morpholine derivatives from 1,3-dienes and *N*-arylaminoalcohols by palladium-catalyzed sequential C–N and C–O bond formation

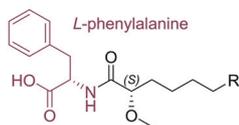
Ayumi Yamaguchi, Nobuki Katayama, Kazuki Tabaru, Tetsuaki Fujihara and Yasushi Obora\*



- ↔ Morpholine derivatives are synthesized through sequential C–N and C–O bond formation.
- ↔ 1,4-Benzoquinone acts as both a re-oxidant and a ligand to promote reductive elimination.



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***N*-((*S*)-2-Methoxyalkanoyl)-*L*-phenylalanines**

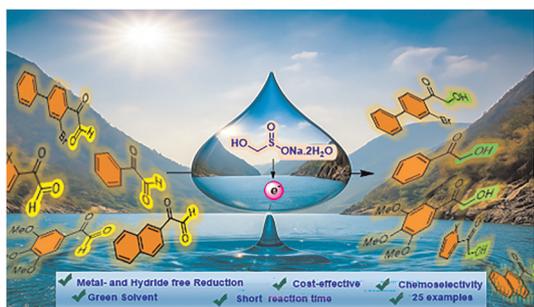
P1 (1): R = isopropyl  
 P2 (2): R = propyl  
 P3 (3): R = isobutyl  
 P4 (4): R = butyl  
 P5 (5): R = isopentyl

### Synthesis-enabled conformational assignment of natural *N*-acyl *L*-phenylalanine derivatives from freshwater sponge-associated *Micromonospora* sp. MS-62

Jiyool Kim, Jueun Kang, Yongseong Han, Jinchan Sim, Young-Tae Park, Young-Joo Kim, Jaeyoung Kwon, Ja Young Cho\* and Taejung Kim\*

## PAPERS

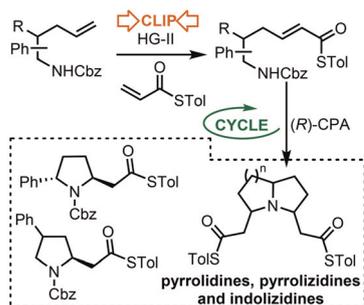
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### Chemoselective reduction of $\alpha$ -keto aldehydes by rongalite in water: a metal- and hydride-free approach

Madhu Inapanuri, Hari Prasad Kokatla,\* Rambabu Kandukuri and Neetika Singh

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### 'Clip-Cycle' approaches to functionalised pyrrolidines, pyrrolizidines and indolizidines

Lee C. Duff, Selin Yilmaz, Athanasia Agora, Christopher J. Maddocks, Ian J. S. Fairlamb,\* William P. Unsworth\* and Paul A. Clarke

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- ✓ Catalyst-, oxidant-, & additive-free
- ✓ Room temperature conditions & broad substrate scope
- ✓ Easy operation & high atom economy
- ✓ Gram-scale synthesis & late-stage functionalization

### Synthesis of unsymmetrical thiosulfonates via ring-opening reaction of cyclic sulfonium salts with sodium thiosulfonates

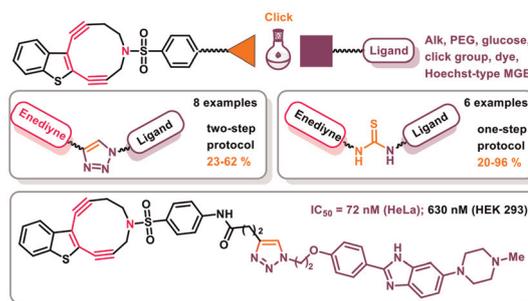
Qing-Ling Chen, Hao-Pan Tan, Sha Peng, Li-Hua Yang\* and Long-Yong Xie\*



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### Synthesis and biological study of benzothiophene-fused azaenediynes hybrids as potential anticancer agents

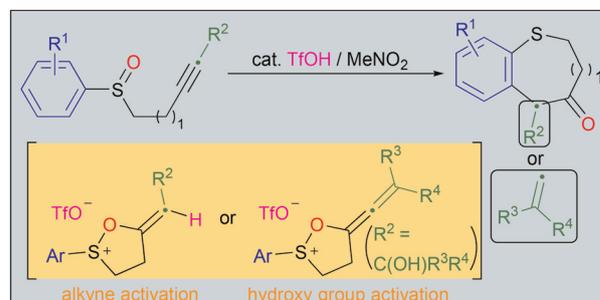
Ekaterina A. Khmelevskaya, Natalia A. Danilkina,\* Sergey A. Silonov, Evgeny V. Tretyakov, Alexander F. Khlebnikov, Vladimir E. Melnikov, Anastasiia V. Nikitina, Andrey M. Rumyantsev, Mariya A. Kryukova and Irina A. Balova\*



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### TfOH-catalyzed cyclization/rearrangement of alkynyl aryl sulfoxides for metal-free synthesis of six- to nine-membered sulfur-containing heterocycles

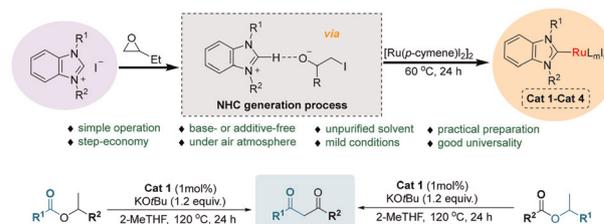
Yuto Iwanami, Akira Tsubouchi, Keiichi Noguchi and Akio Saito\*



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### N-Heterocyclic carbene–ruthenium complexes synthesized by a hydrogen-bonding-assisted strategy for dehydrogenative rearrangement of esters

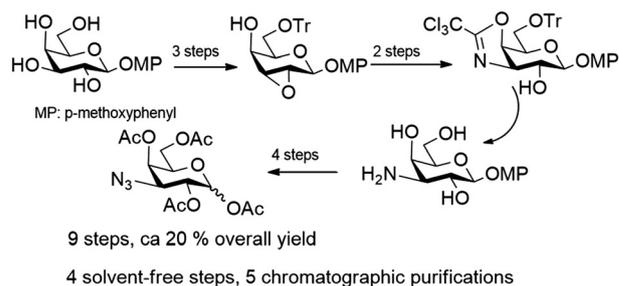
Zhi-Yuan Gong, Sheng Tao, Xiao-Bin Li, Tao Wang, Fei Chen, Zhi-Hong Du, Chun-Bo Bo, Min Li\* and Ning Liu\*



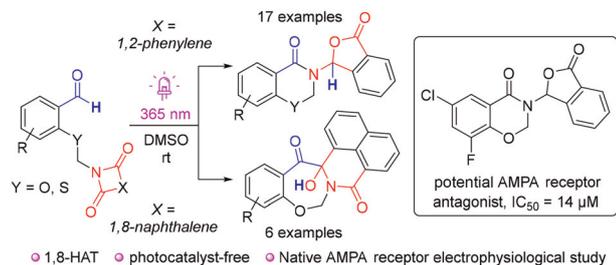
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### Solvent-free reactions at work towards densely functionalized targets: synthesis of 3-amino(azido)-3-deoxy-D-galactose, a key structural motif of galectin ligands

Serena Traboni, Emiliano Bedini, Fabiana Esposito, Marcello Ziaco and Alfonso Iadonisi\*



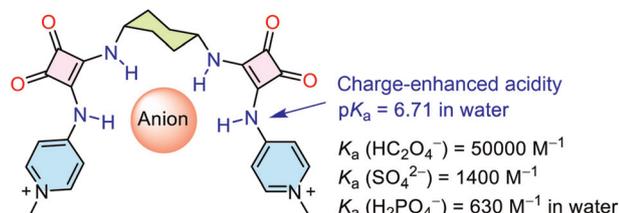
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### A photochemical HAT approach to synthesize *N*-substituted benzoxazin-4-ones and their activity as AMPA receptor modulators

Daniil I. Rudik, Alexander Yu. Smirnov, Yulia A. Bogdanova, Andrey A. Mikhaylov, Alexander R. Romanenko, Alexander A. Korlyukov, Maxim Nikolaev, Mikhail S. Baranov and Dmitrii S. Ivanov\*

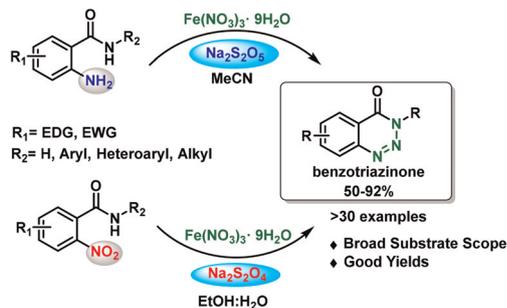
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### Anion recognition in water by a simple bis-squaramide with charge-enhanced acidity

Chen Dong, Kehao Zhang, Junhong Li,\* Jihao Wang, Wenrui Lyu, Xuanxuan Chen\* and Xin Wu\*

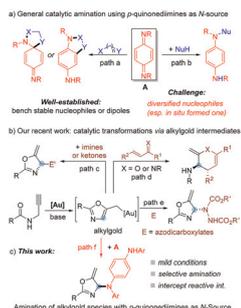
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### Ferric nitrate-mediated synthesis of functionalized 1,2,3-benzotriazinones from 2-aminobenzamides and 2-nitrobenzamides via nitrate reduction strategy

Sachu Kuriakose, Sruthi S. Nair and Jeyakumar Kandasamy\*

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### Gold-catalyzed amination of *in situ* formed alkyl gold species with *p*-quinonediimines as a N source

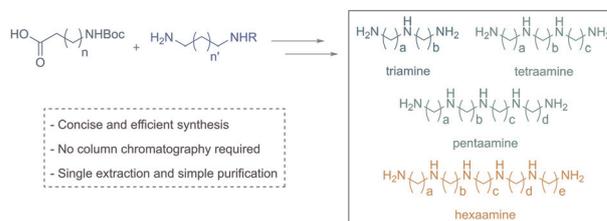
Xinyu Pan, Yusuf Abdulla, Ming Bao\* and Xinfang Xu\*



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### Modular and chromatography-free synthesis of natural linear polyamines

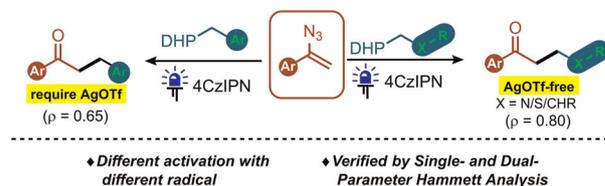
Masato Takahashi,\* Teruyuki Kobayashi, Takuya Noguchi, Seisuke Mimori, Masakiyo Hosokawa, Takashi Fukui, Akira Takagi, Nobuaki Okumura, Hiroshi Kawabe, Takanori Yano, Naomi Ohta, Akihisa Hata, Ryoji Mitsui and Noboru Fujitani



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### Photoinduced radical addition of 4-alkyl-1,4-DHPs to vinyl azides

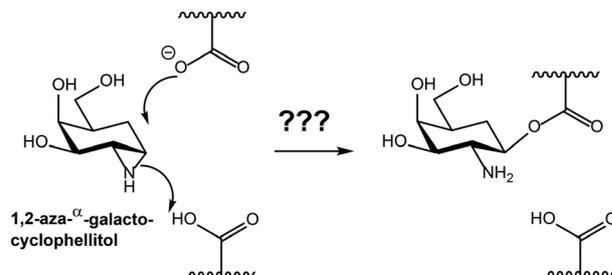
Zhiqin Zhang, Xirui Zhang, Jiajing Tan, Hongguang Du\* and Ning Chen\*



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### Synthesis and evaluation of carbagalactosyl 1,2-aziridines and -epoxides as glycosidase inhibitors

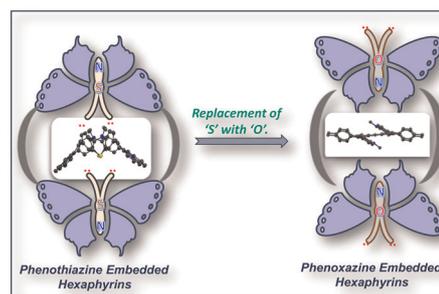
Yuqing Tian, Hong-Ming Chen, Lyann Sim, Seyed A. Nasser, Jolene P. Reid and Stephen G. Withers\*



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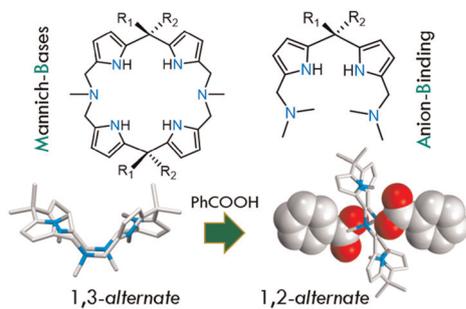
### Impact of phenothiazine-to-phenoxazine replacement in hexaphyrin frameworks on structural, spectroscopic, and redox properties

Neha Tripathi and Mangalampalli Ravikanth\*



## PAPERS

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### New core-expanded calix[4]pyrroles and N-donor-extended dipyrromethanes: syntheses, anion binding and conformational studies

Soumya Mishra, Monalisa Giri, Vipin Kumar Mishra and Tapas Guchhait\*

## EXPRESSION OF CONCERN

720

### Expression of Concern: Total synthesis of the natural product EBC-329

Raju S. Thombal and Vrushali H. Jadhav\*

## CORRECTION

721

### Correction: Asymmetric synthesis of isoindolines via a palladium-catalyzed enantioselective intramolecular oxidative aminoacetoxylation reaction

Dongyuan Ju, Binggang Wang, Jiaao Kang, Kewei Hu and Zhiguang Song\*

