

# Organic & Biomolecular Chemistry

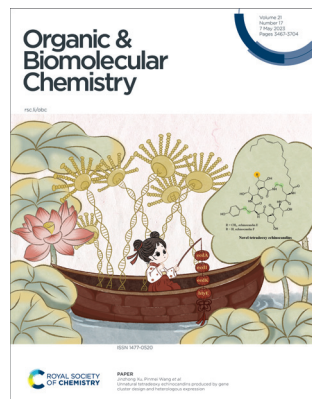
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## IN THIS ISSUE

ISSN 1477-0520 CODEN OBCRAK 21(17) 3467–3704 (2023)

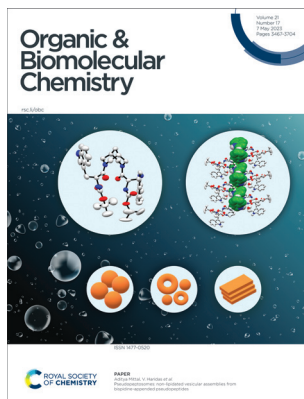


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See Jinzhong Xu,  
Pinmei Wang *et al.*,  
pp. 3552–3556.

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**21**, 3552.



### Inside cover

See Aditya Mittal, V. Haridas  
*et al.*, pp. 3557–3566.

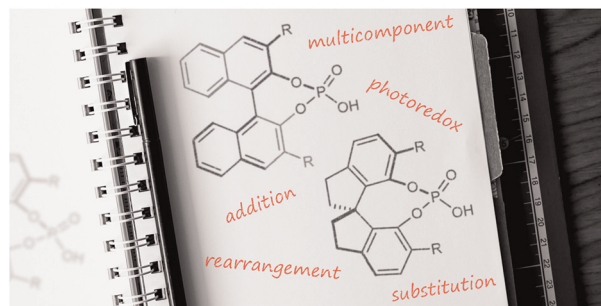
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Chem.*, 2023, **21**, 3557.

## REVIEWS

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### An update on chiral phosphoric acid organocatalyzed stereoselective reactions

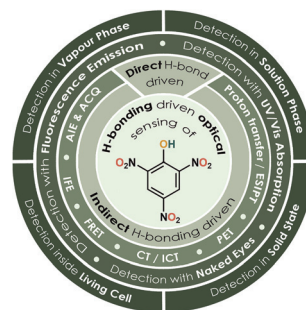
Eddy I. Jiménez



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### Hydrogen bond directed high-fidelity optical detection of picric acid: A single driver on diverse roads towards the same destiny

Suvendu Paul, Provakar Paul, Saikat Samanta,  
Tapas Majumdar\* and Arabinda Mallick\*



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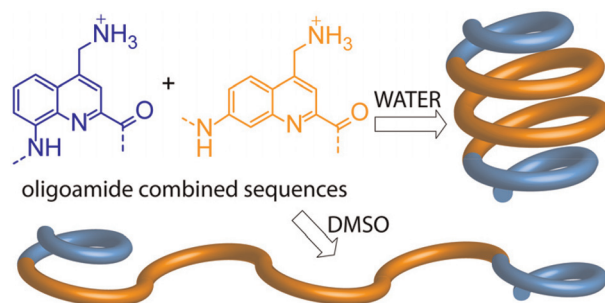


## COMMUNICATIONS

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**Combining local conformational preferences and solvophobic effects in helical aromatic oligoamide foldamers**

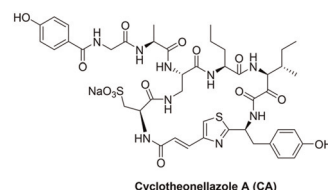
Binhao Teng, Joan Atcher, Lars Allmendinger, Céline Douat, Yann Ferrand and Ivan Huc\*



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**Formal synthesis of cyclotheonellazole A**

Bohua Long, Liuyang Pu, Zhanyan Liu, Xiaobin Zeng and Zhengzhi Wu\*

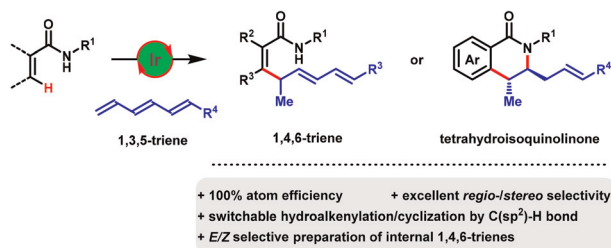


- ✓ gram-scale synthesis
- ✓ high stereoselectivity and reaction yields
- ✓ mild reaction conditions and cheap reagents
- ✓ a concise and practical synthetic protocol for CA

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**Chelation-assisted iridium-catalyzed hydroalkenylation and hydroarylation/cyclization with conjugated trienes**

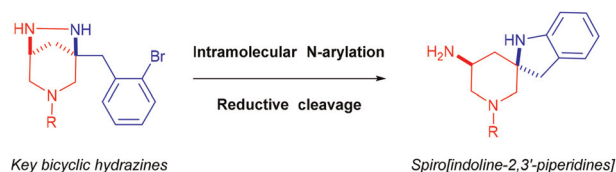
Yilei Liao, Cheng Zhang, Yini Wang, Yibu Hu, Liyuan Ding,\* Liangjun Zhong, Guofu Zhong\* and Jian Zhang\*



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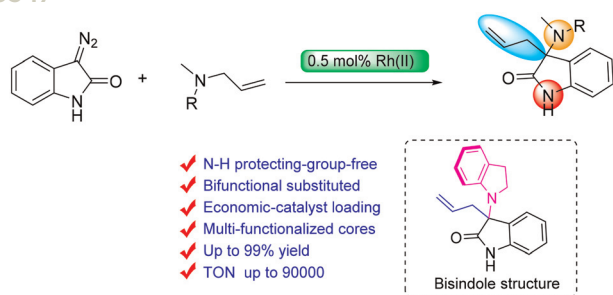
**Intramolecular Buchwald–Hartwig *N*-arylation of bicyclic hydrazines: practical access to spiro [indoline-2,3'-piperidines]**

Claire Fleurisson, Nessrine Graidia, Yann Foricher, Erica Benedetti\* and Laurent Micouin\*



## COMMUNICATIONS

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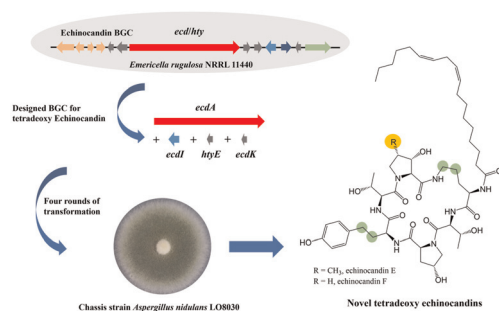


### A highly efficient method to access unprotected C-3 bifunctional quaternary 3-allyl-3-(amino) oxindoles

Xunbo Lu,\* Guoling Huang, Fangpeng Liang, Siyu Sun, Yalin Chen and Zi Liang

## PAPERS

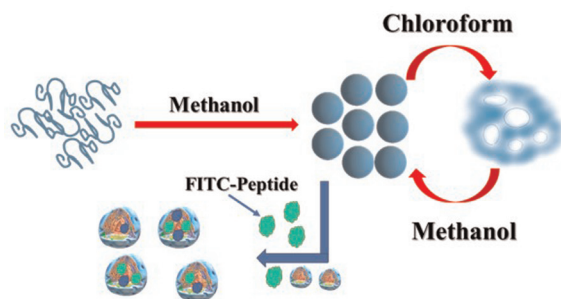
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### Unnatural tetradeoxy echinocandins produced by gene cluster design and heterologous expression

Xionghui Yu, Qian Jiang, Xiaona Chen, Hongjun Shu, Yushan Xu, Huan Sheng, Yuchao Yu, Wenjie Wang, Nancy P. Keller, Jinzhong Xu\* and Pinmei Wang\*

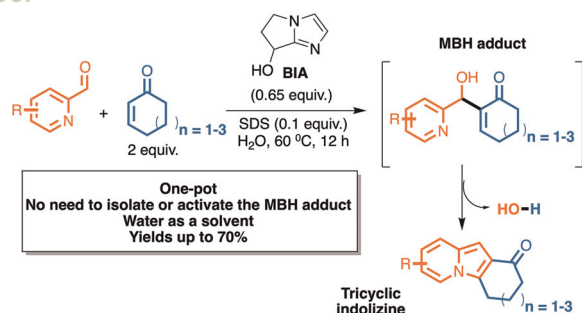
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### Pseudopeptosomes: non-lipidated vesicular assemblies from bispidine-appended pseudopeptides

Hanuman Singh, Pragya Pragya, Aditya Mittal\* and V. Haridas\*

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### One-pot organocatalyzed synthesis of tricyclic indolizines

Lucas A. Zeoly, Lais V. Acconcia, Manoel T. Rodrigues, Jr., Hugo Santos, Rodrigo A. Cormanich, Juan C. Paniagua, Albert Moyano\* and Fernando Coelho\*

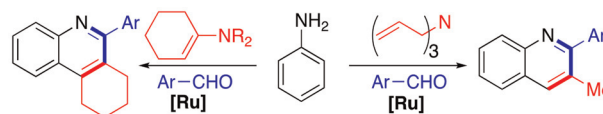


## PAPERS

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### Concise synthesis of 2,3-disubstituted quinoline derivatives via ruthenium-catalyzed three-component deaminative coupling reaction of anilines, aldehydes and amines

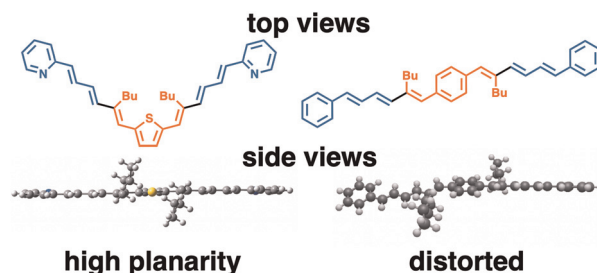
Aldiyar Shakenov, Krishna Prasad Gnyawali and Chae S. Yi\*



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### Ru(0)-catalysed cross-dimerisation and -trimerisation of alkynyl- with butadienyheteroarenes

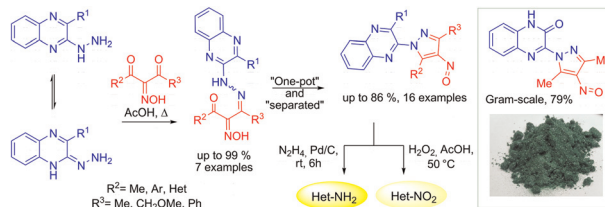
Sayori Kiyota, Kohei Kamakura, Nobuyuki Komine and Masafumi Hirano\*



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### Regioselective synthesis of novel nitroso-pyrazolylquinoxalines via HOAc-mediated cyclocondensation of 2-hydroxyimino-1,3-diketones with hydrazinylquinoxalines

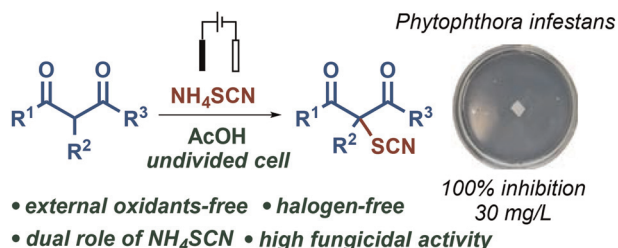
Pavel S. Bobrov,\* Sergei D. Kirik, Ivan V. Peterson and Georgii A. Suboch



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### An environmentally benign way to synthesize 2-thiocyano-1,3-dicarbonyl compounds with high antifungal activity: a key role of solvent

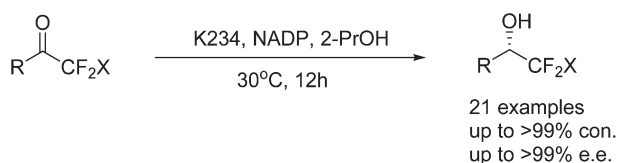
Andrey S. Kirillov, Egor A. Semenov, Oleg V. Bitukov, Maria A. Kuznetsova, Valentina N. Demidova, Alexander N. Rogozhin, Alexei P. Glinushkin, Vera A. Vil'\* and Alexander O. Terent'ev\*





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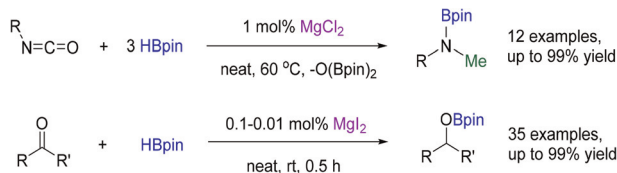
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### Biocatalytic asymmetric reduction of fluoroalkyl ketones to access enantiopure fluoroalkyl secondary alcohols

Yahan Wu, Kaiji Wang, Xia Wang, Jingjing Wu\* and Fanhong Wu\*

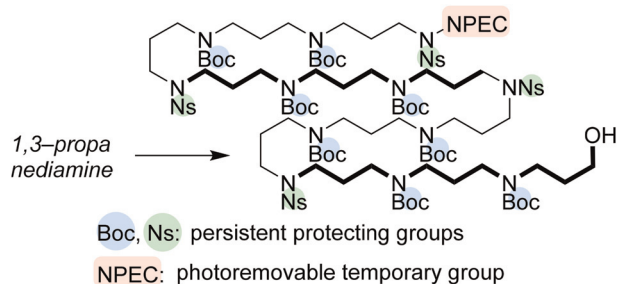
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### Magnesium halide-catalyzed hydroboration of isocyanates and ketones

Jinyi Shi, Man Luo, Xuguang Zhang, Taoyue Yuan, Xiaoyan Chen\* and Mengtao Ma\*

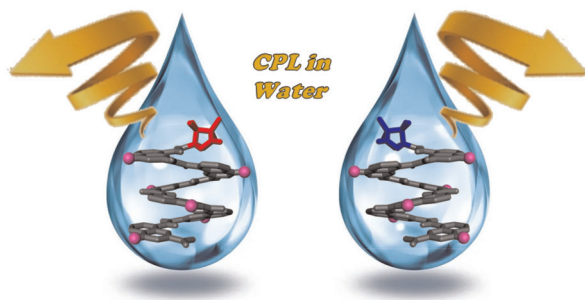
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### Synthesis of a fully protected long-chain polyamine subunit of aculeine B using the photoremovable NPEC group

Masayoshi Miyahara, Ryoya Wakabayashi, Raku Irie and Masato Oikawa\*

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### CPL-active water-soluble aromatic oligoamide foldamers

Vincent Laffilé, Kevin Moreno, Eric Merlet, Nathan McClenaghan, Yann Ferrand\* and Céline Olivier\*

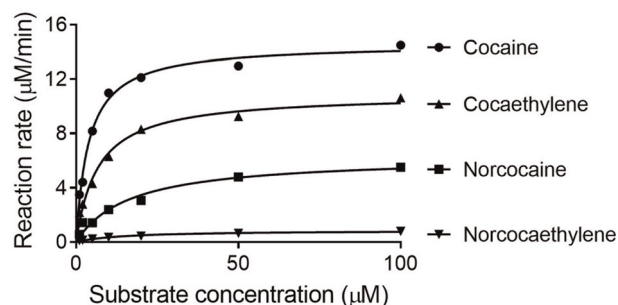


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**Kinetic characterization of an efficient cocaine hydrolase against toxic metabolites of cocaine**

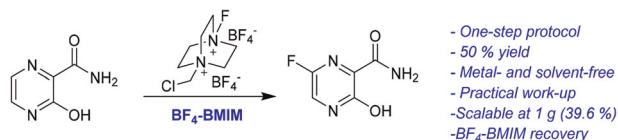
Max Zhan, Shurong Hou, Linyue Shang, Xiabin Chen, Chang-Guo Zhan\* and Fang Zheng\*



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**One-step synthesis of favipiravir from Selectfluor® and 3-hydroxy-2-pyrazinecarboxamide in an ionic liquid**

Germán Fuentes, María F. García, Hugo Cerecetto, Guzmán Álvarez,\* Marcos Couto\* and Angel H. Romero\*



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 **$\text{Cu}(\text{OAc})_2$ -catalyzed three-component cycloaddition of malonates, nitrosoarenes and alkenes: access to isoxazolidines**

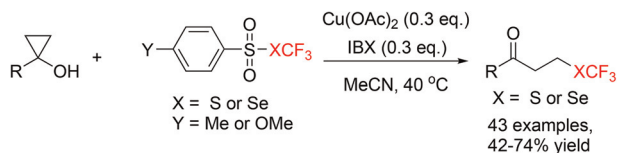
Yuting Wu, Qiang Liu, Shuangping Huang, Chaofeng Zhang, Wenlong Wei and Xing Li\*



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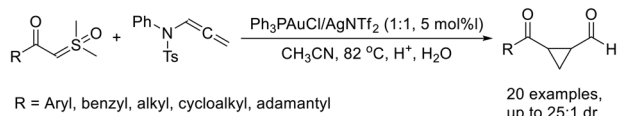
**Copper-catalyzed ring-opening trifluoromethylthiolation/trifluoromethylselenolation of cyclopropanols with  $\text{TsSCF}_3$  or  $\text{Se}(\text{trifluoromethyl})$  4-methoxybenzenesulfonoselenoate**

Ankun Li, Xiaoxing Wang, Yuqing Liu, Delong Hao, Xia Zhao\* and Kui Lu\*



## PAPERS

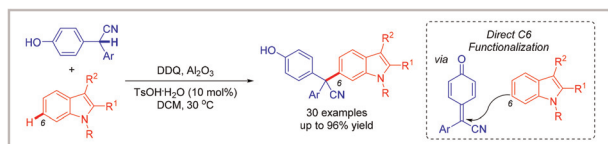
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### Synthesis of cyclopropanes through gold-catalyzed [2 + 1] cycloaddition of allenamides with sulfoxonium ylides

Tong Hong, Yongchun Liu, Kun Zhao, Song Cheng, Qingsong Liu, Shuting Zhang, Ying Zhong, Xiaoxiao Li\* and Zhigang Zhao\*

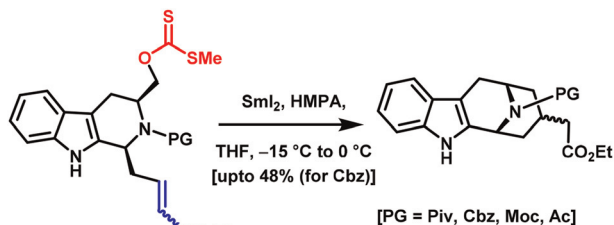
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### Brønsted acid-catalyzed C6 functionalization of 2,3-disubstituted indoles for construction of cyano-substituted all-carbon quaternary centers

Wen-Jun Huang, Li-Xia Liu, Yong-Gui Zhou, Bo Wu\* and Guo-Fang Jiang\*

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### An attempt to construct an indole-fused azabicyclo[3.3.1]nonane framework via radical cyclization

Vipin Kumar Singh, Uttam Ghosh and Tushar Kanti Chakraborty\*

## CORRECTION

3702

### Correction: Concise synthesis of 2,3-disubstituted quinoline derivatives via ruthenium-catalyzed three-component deaminative coupling reaction of anilines, aldehydes and amines

Aldiyar Shakenov, Krishna Prasad Gnyawali and Chae S. Yi\*

