Volume 13 | Number 29 | 7 August 2015 | Pages 7831–8082

Organic & Biomolecular Chemistry

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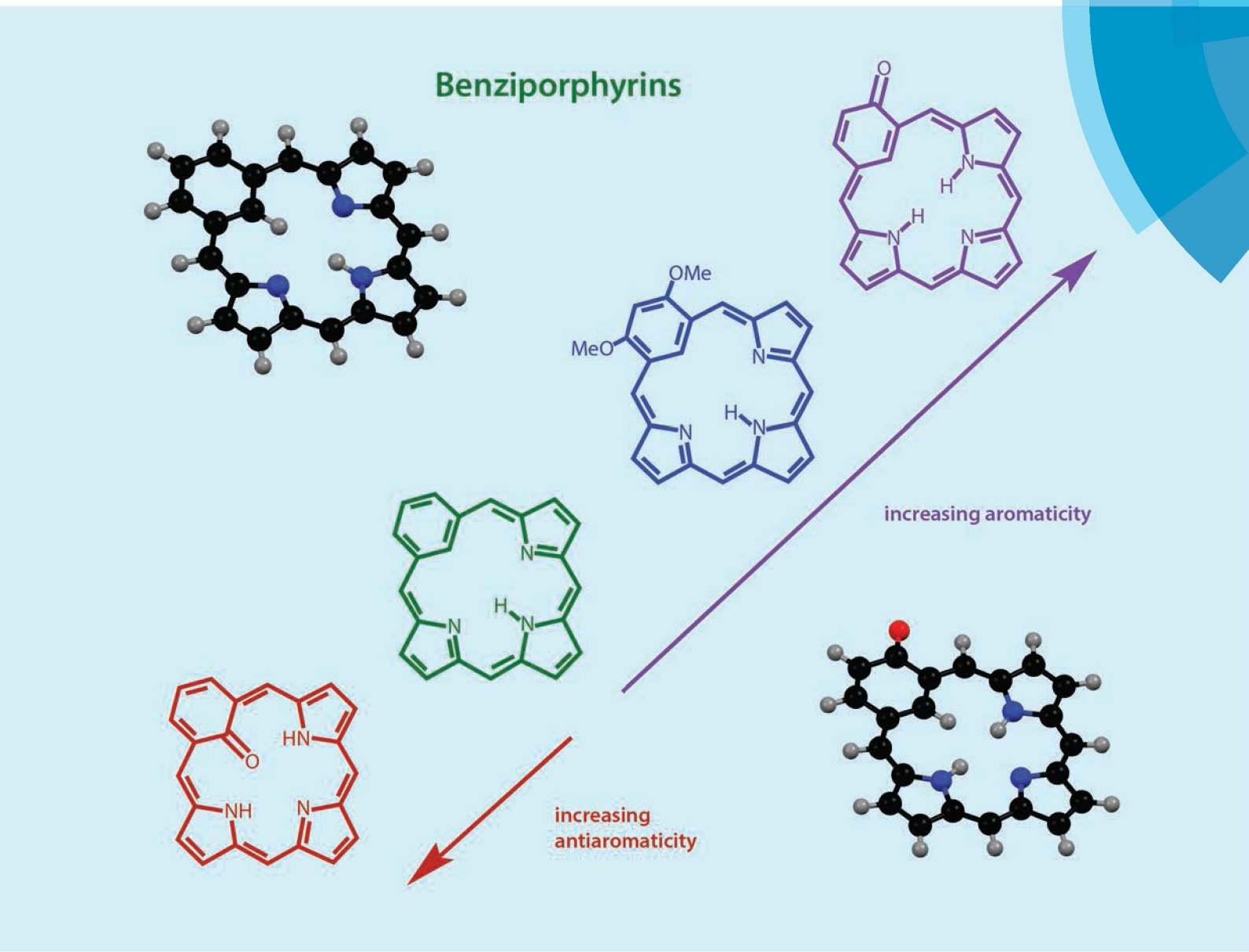

ISSN 1477-0520

ROYAL SOCIETY OF CHEMISTRY

REVIEW ARTICLE
Timothy D. Lash
Benziporphyrins, a unique platform for exploring the aromatic characteristics of porphyrinoid systems

Organic & Biomolecular Chemistry

An international journal of synthetic, physical and biomolecular organic chemistry

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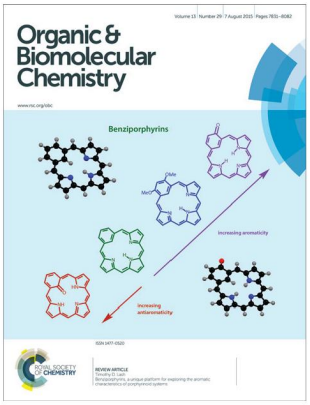

Cover
See Timothy D. Lash, pp. 7846–7878.

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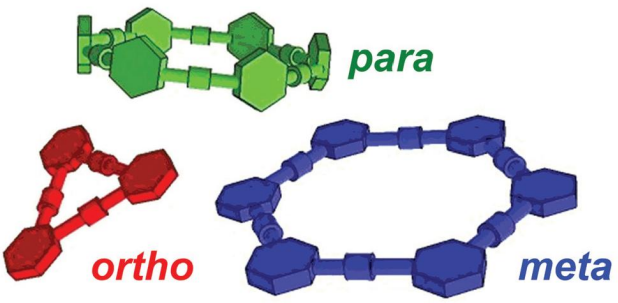
PERSPECTIVE



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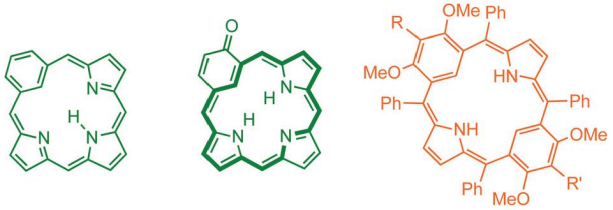

Organic & Biomolecular Chemistry (print: ISSN 1477-0520; electronic: ISSN 1477-0539) is published 48 times a year by the Royal Society of Chemistry, Thomas Graham House, Science Park, Milton Road, Cambridge, UK CB4 0WF.

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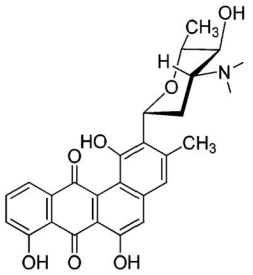

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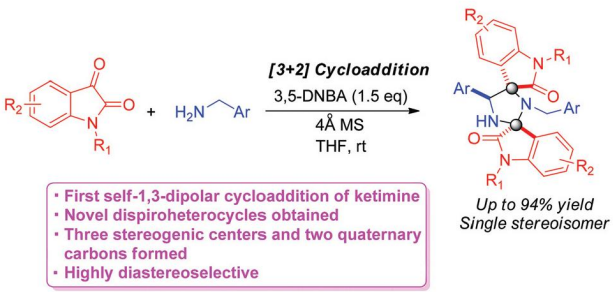

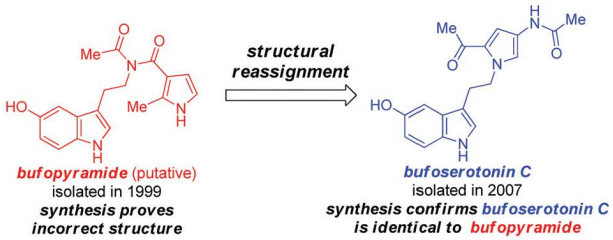

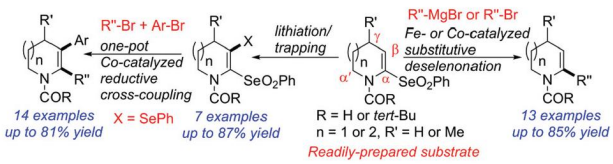

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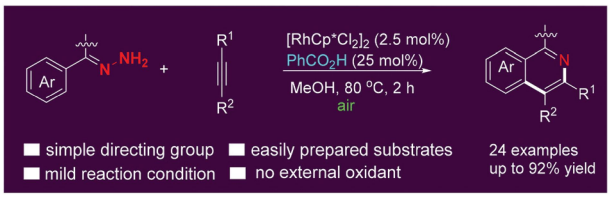
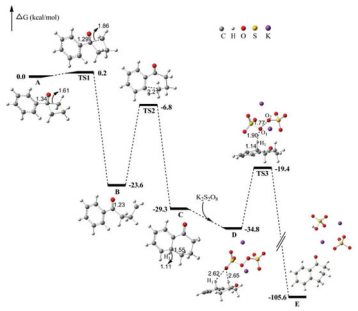


An efficient synthesis of isoquinolines *via* rhodium-catalyzed direct C–H functionalization of arylhydrazines

Sai Zhang, Daorui Huang, Guangyang Xu, Shengyu Cao, Rong Wang, Shiyong Peng and Jiangtao Sun*

Rhodium-catalyzed C–H bond activation of arylhydrazines and coupling with internal alkynes has been realized.

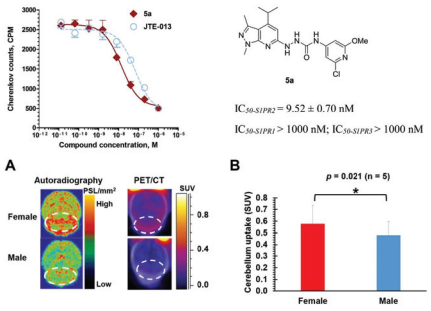


A facile and regioselective synthesis of 1-tetralones *via* silver-catalyzed ring expansion

Jiajia Yu, Huijun Zhao, Shuguang Liang, Xiaoguang Bao* and Chen Zhu*

A regioselective synthesis of 1-tetralones *via* silver-catalyzed ring expansion is described.

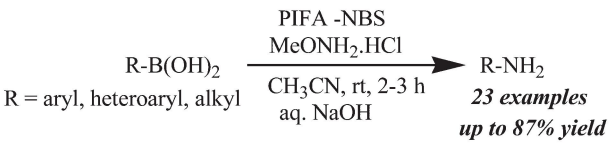
PAPERS



A potent and selective C-11 labeled PET tracer for imaging sphingosine-1-phosphate receptor 2 in the CNS demonstrates sexually dimorphic expression

Xuyi Yue, Hongjun Jin, Hui Liu, Adam J. Rosenberg, Robyn S. Klein* and Zhude Tu*

Sphingosine-1-phosphate receptor 2 (S1PR2) plays an essential role in regulating blood–brain barrier (BBB) function during demyelinating central nervous system (CNS) disease.



Metal and base free synthesis of primary amines *via ipso* amination of organoboronic acids mediated by [bis(trifluoroacetoxy)iodo]benzene (PIFA)

Nachiketa Chatterjee and Avijit Goswami*

A metal and base free synthesis of primary amines has been developed at ambient temperature through *ipso* amination of diversely functionalized organoboronic acids, employing a combination of [bis(trifluoroacetoxy)iodo]-benzene (PIFA)–*N*-bromosuccinimide (NBS) and methoxyamine hydrochloride as the aminating reagent.

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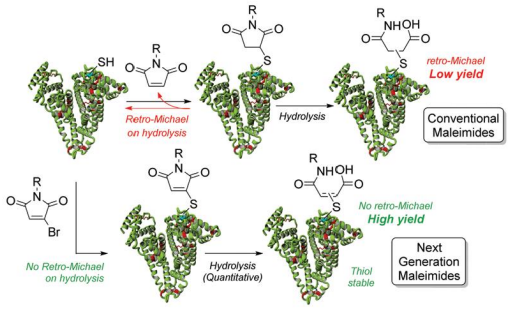

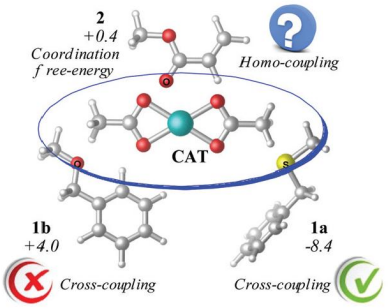

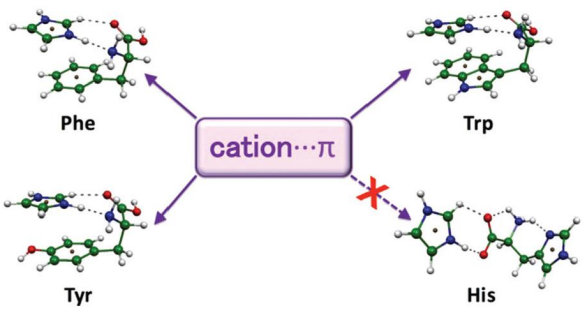

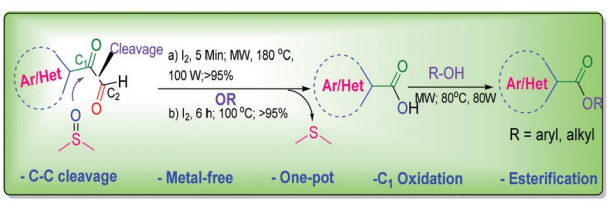

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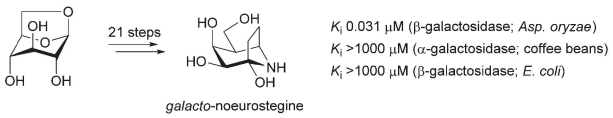
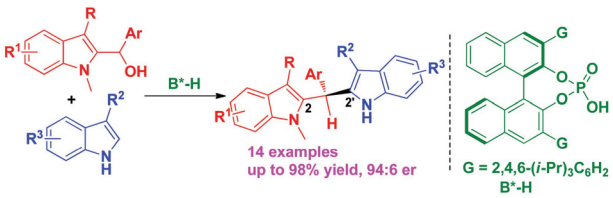


Synthesis and evaluation of *galacto*-noeurostegine and its 2-deoxy analogue as glycosidase inhibitors

Stéphane Salamone, Lise L. Clement, Agnete H. Viuff, Ole Juul Andersen, Frank Jensen and Henrik H. Jensen*

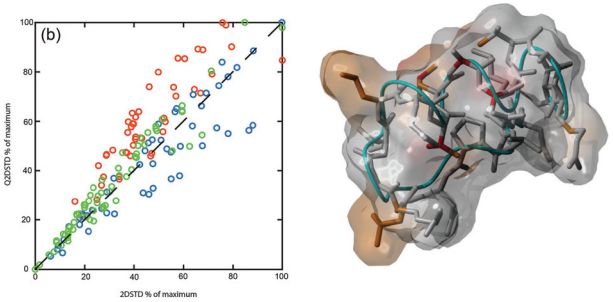
An epimer of the known glycosidase inhibitor noeurostegine, *galacto*-noeurostegine, was synthesised in 21 steps from levoglucosan and found to be a potent, competitive and highly selective galactosidase inhibitor of *Aspergillus oryzae* β-galactosidase.



Enantioselective construction of a 2,2′-bisindolylmethane scaffold *via* catalytic asymmetric reactions of 2-indolylmethanols with 3-alkylindoles

Yu-Xin Gong, Qiong Wu, Hong-Hao Zhang, Qiu-Ning Zhu and Feng Shi*

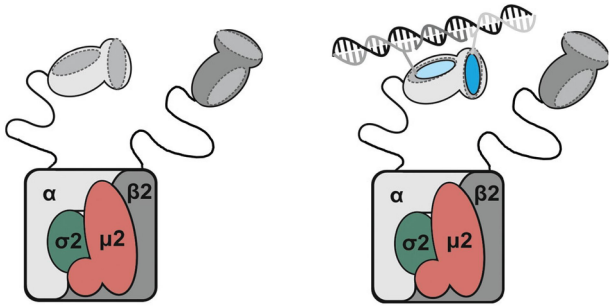
A chiral phosphoric acid-catalyzed asymmetric reaction of 2-indolylmethanols with 3-alkylindoles has been established to construct 2,2′-bisindolylmethane scaffold in good enantioselectivities.



Q2DSTD NMR deciphers epitope-mapping variability for peptide recognition of integrin αvβ6

Jessica L. Sorge, Jane L. Wagstaff, Michelle L. Rowe, Richard A. Williamson* and Mark J. Howard*

^{1}H T_1 relaxation modified 2D STD NMR reveals integrin αvβ6 molecular specificity.



Probing heterobivalent binding to the endocytic AP-2 adaptor complex by DNA-based spatial screening

F. Diezmann, L. von Kleist, V. Haucke and O. Seitz*

The DNA-programmed peptide display in brain extract revealed a co-operation between the binding sites on the AP-2 alpha-appendage domain.

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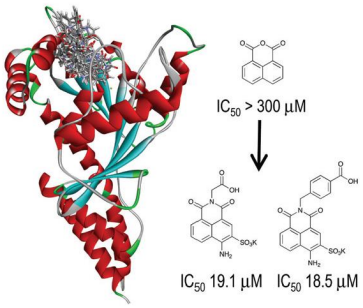

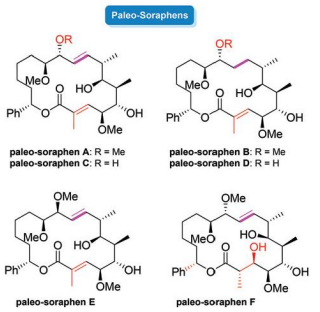

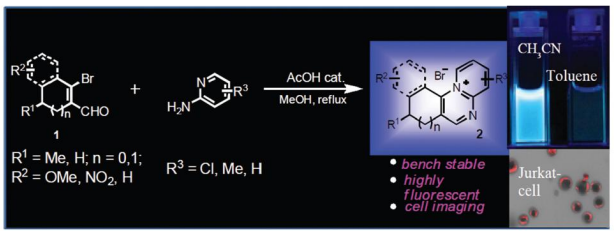

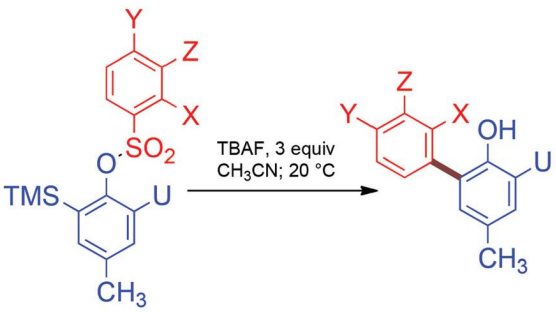

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