

RSC Chemical Biology

rsc.li/rsc-chembio

The Royal Society of Chemistry is the world's leading chemistry community. Through our high impact journals and publications we connect the world with the chemical sciences and invest the profits back into the chemistry community.

IN THIS ISSUE

ISSN 2633-0679 CODEN RCBSAO 5(10) 955-1076 (2024)



Cover

See Max Crüsemann *et al.*, pp. 970–980. Image reproduced by permission of Max Crüsemann from *RSC Chem. Biol.*, 2024, 5, 970.



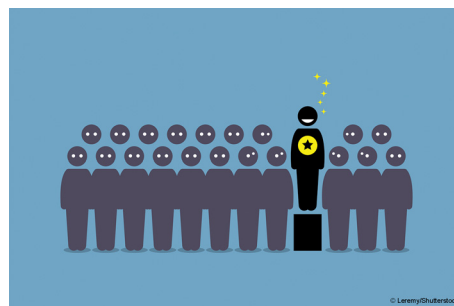
Inside cover

See Tessa R. Calhoun *et al.*, pp. 981–988. Image reproduced by permission of Tessa R. Calhoun from *RSC Chem. Biol.*, 2024, 5, 981.

EDITORIAL

962

Outstanding Reviewers for *RSC Chemical Biology* in 2023



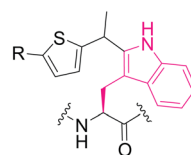
COMMUNICATION

963

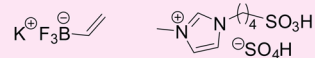
Redox-neutral, metal-free tryptophan labeling of polypeptides in hexafluoroisopropanol (HFIP)

Mohammad Nuruzzaman, Brandon M. Colella, Zeinab M. Nizam, Isaac JiHoon Cho, Julia Zagorski and Jun Ohata*

redox-neutral, metal-free labeling of polypeptides and lysates



non-metal acid catalysts



trifluoroborate acidic ionic liquid



**GOLD
OPEN
ACCESS**

EES Solar

**Exceptional research on solar
energy and photovoltaics**



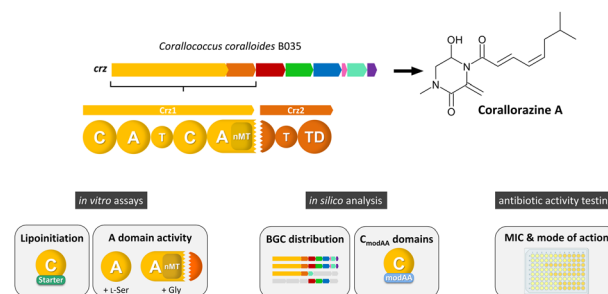
Part of the EES family

**Join
in** | Publish with us
rsc.li/EESSolar

970

Biosynthesis of the corallorazines, a widespread class of antibiotic cyclic lipopeptides

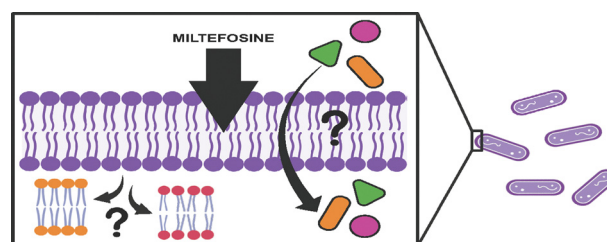
Teresa M. Dreckmann, Lisa Fritz, Christian F. Kaiser, Sarah M. Bouhired, Daniel A. Wirtz, Marvin Rausch, Anna Müller, Tanja Schneider, Gabriele M. König and Max Crüsemann*



981

Miltefosine impacts small molecule transport in Gram-positive bacteria

Marea J. Blake, Eleanor F. Page, Madeline E. Smith and Tessa R. Calhoun*



989

Enhancement of tryptophan 2-monoxygenase thermostability by semi-rational enzyme engineering: a strategic design to minimize experimental investigation

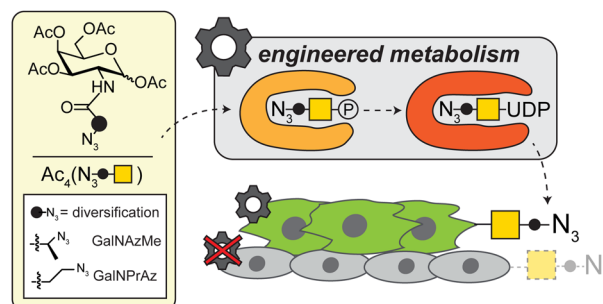
Sirus Kongjaroon, Narin Lawan, Duangthip Trisrivirat and Pimchai Chaiyen*



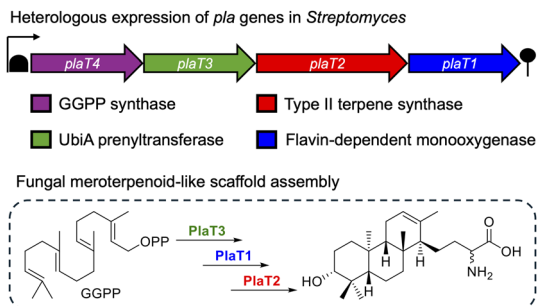
1002

Expanding the repertoire of GalNAc analogues for cell-specific bioorthogonal tagging of glycoproteins

Abdul Zafar, Sandhya Sridhar, Ganka Bineva-Todd, Anna Cioce, Nadia Abdulla, Vincent Chang, Stacy A. Malaker, David S. Hewings and Benjamin Schumann*



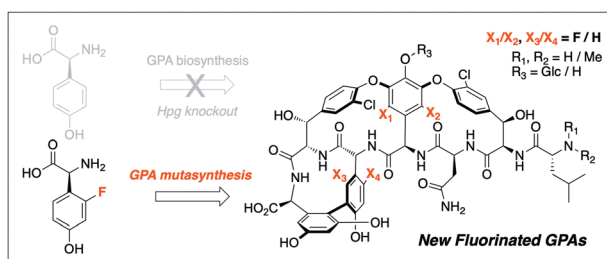
1010



Early-stage biosynthesis of phenalinolactone diterpenoids involves sequential prenylation, epoxidation, and cyclization

Tyler A. Alsup, Zining Li, Caitlin A. McCadden, Annika Jagels, Diana P. Łomowska-Keehner, Erin M. Marshall, Liao-Bin Dong, Sandra Loesgen and Jeffrey D. Rudolf*

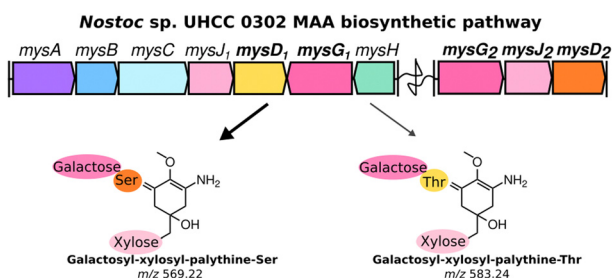
1017



Altering glycopeptide antibiotic biosynthesis through mutasynthesis allows incorporation of fluorinated phenylglycine residues

Irina Voitsekhovskaia, Y. T. Candace Ho, Christoph Klatt, Anna Müller, Daniel L. Machell, Yi Jiun Tan, Maxine Triesman, Mara Bingel, Ralf B. Schittenhelm, Julien Tailhades, Andreas Kulik, Martin E. Maier, Gottfried Otting, Wolfgang Wohlleben, Tanja Schneider, Max Cryle* and Evi Stegmann*

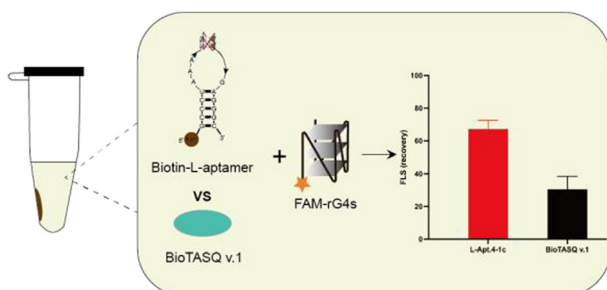
1035



A refactored biosynthetic pathway for the production of glycosylated microbial sunscreens

Sıla Arsin, Majja Pollari, Endrews Delbaje, Jouni Jokela, Matti Wahlsten, Perttu Permi and David Fewer*

1045



Capture of RNA G-quadruplex structures using an L-RNA aptamer

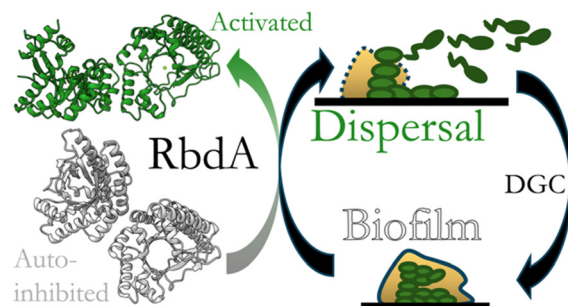
Sin Yu Lam, Mubarak Ishaq Umar, Haizhou Zhao, Jieyu Zhao and Chun Kit Kwok*



1052

Control of phosphodiesterase activity in the regulator of biofilm dispersal RbdA from *Pseudomonas aeruginosa*

Charlotte Cordery, Jack Craddock, Martin Malý, Kieran Basavaraja, Jeremy S. Webb, Martin A. Walsh and Ivo Tews*



1060

Bibacillin 1: a two-component lantibiotic from *Bacillus thuringiensis*

Ryan Moreira, Yi Yang, Youran Luo, Michael S. Gilmore and Wilfred A. van der Donk*

