

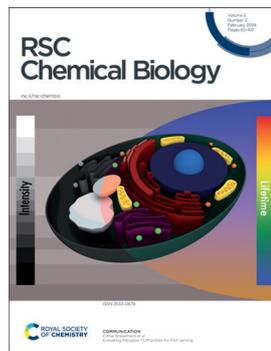
RSC Chemical Biology

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(2) 65-160 (2024)



Cover

See Esther Braselmann *et al.*, pp. 109–116. Image reproduced by permission of Esther Braselmann from *RSC Chem. Biol.*, 2024, 5, 109. All authors would like to acknowledge Luke Shafik and Zachary Berger for the creation of the cover image.

EDITORIAL

71

Introduction to the themed collection on 'Molecular and Nanotheranostics'

Thimmaiah Govindaraju

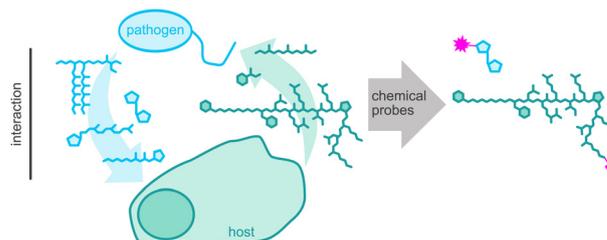


REVIEWS

73

Monitoring host–pathogen interactions using chemical proteomics

Angela Weigert Muñoz, Weining Zhao* and Stephan A. Sieber*



Royal Society of Chemistry approved training courses

Explore your options.
Develop your skills.
Discover learning
that suits you.

**Courses in the classroom,
the lab, or online**

Find something for every
stage of your professional
development. Search our
database by:

- subject area
- location
- event type
- skill level

Members **get at least 10% off**

Visit rsc.li/cpd-training



**SAVE
10%**

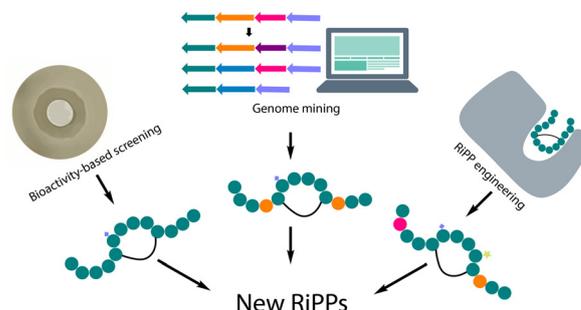


REVIEWS

90

Discovery and engineering of ribosomally synthesized and post-translationally modified peptide (RiPP) natural products

He Li, Wei Ding and Qi Zhang*



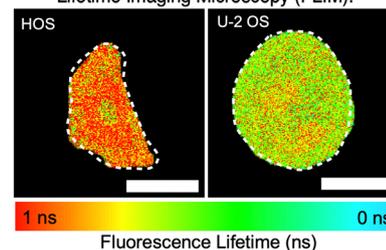
COMMUNICATION

109

Evaluating Riboglow-FLIM probes for RNA sensing

Nadia Sarfraz, Luke K. Shafik, Zachary R. Stickelman, Uma Shankar, Emilia Moscoso and Esther Braselmann*

Riboglow probe Cbl-Cy5 in an HOS and U-2 OS cell visualized distinctly using Fluorescence Lifetime Imaging Microscopy (FLIM).

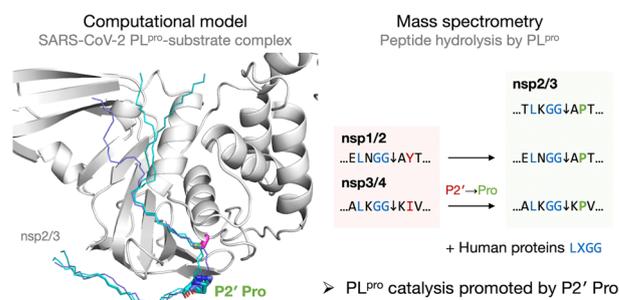


PAPERS

117

Studies on the selectivity of the SARS-CoV-2 papain-like protease reveal the importance of the P2' proline of the viral polyprotein

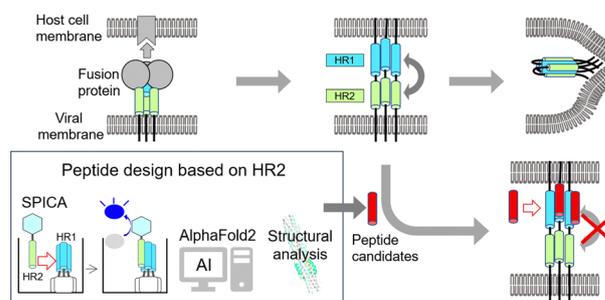
H. T. Henry Chan, Lennart Brewitz, Petra Lukacik, Claire Strain-Damerell, Martin A. Walsh, Christopher J. Schofield* and Fernanda Duarte*



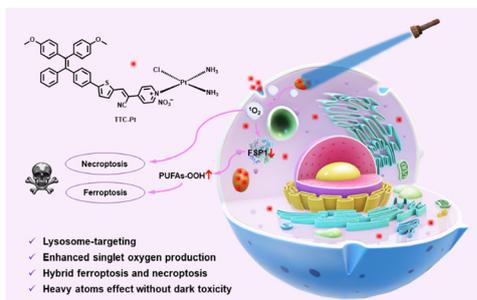
131

Helix-based screening with structure prediction using artificial intelligence has potential for the rapid development of peptide inhibitors targeting class I viral fusion

Satoshi Suzuki, Mio Kuroda, Keisuke Aoki, Kumi Kawaji, Yoshiki Hiramatsu, Mina Sasano, Akie Nishiyama, Kazutaka Murayama, Eiichi N. Kodama, Shinya Oishi and Hironori Hayashi*



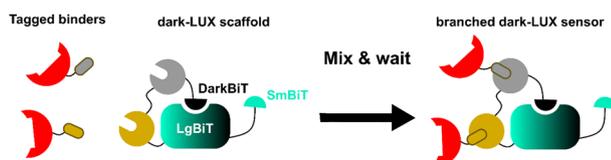
141



An AIE-based monofunctional Pt(II) complex for photodynamic therapy through synergism of necroptosis–ferroptosis

Xiaoxue Zheng, Minglun Liu, Yanping Wu, Yuncong Chen,* Weijiang He* and Zijian Guo*

148



Bioluminescent detection of viral surface proteins using branched multivalent protein switches

Alexander Gräwe, Cindy M. Spruit, Robert P. de Vries and Maarten Merkx*

