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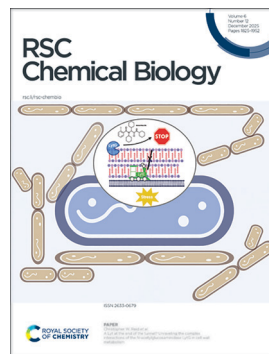
IN THIS ISSUE

ISSN 2633-0679 CODEN RCBSAO 6(12) 1825-1952 (2025)



Cover

See Shirley K. Knauer, Bart Jan Ravoo, Thomas Schrader *et al.*, pp. 1837–1847. Image reproduced by permission of Shirley K. Knauer from *RSC Chem. Biol.*, 2025, 6, 1837. Beach and crab images via Freepik. The 3D protein structure of Taspase 1 (PDB 2A8J) was generated in Pymol. The final image was assembled in ACDsee Canvas X draw.



Inside cover

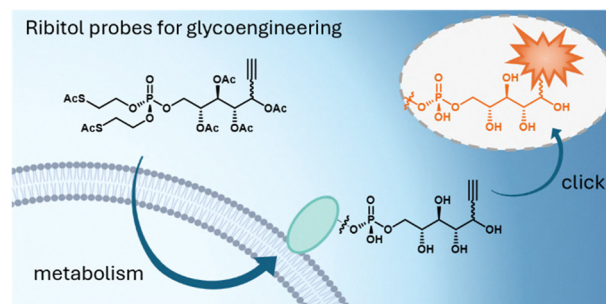
See Christopher W. Reid *et al.*, pp. 1848–1860. Image reproduced by permission of Christopher W. Reid from *RSC Chem. Biol.*, 2025, 6, 1848.

COMMUNICATION

1832

Alkyne-tagged ribitol-5-phosphate derivatives for metabolic labelling of alpha-dystroglycan

Lloyd D. Murphy, Saeed Akkad, Angelo Lopez, Morgan E. Batiste-Simms, Greg L. McNeil, Eva W. Wan, Kathryn E. Huxley, Luke Julyan, Mia Shandell and Lianne I. Willems*

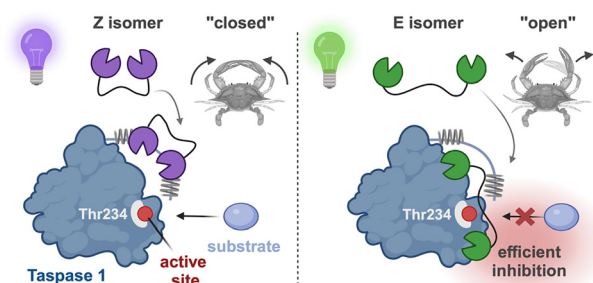


PAPERS

1837

Photoresponsive molecular tweezers modulate Taspase 1 activity

Antonio L. Figueroa Bietti, Alisa-Maite A. Kauth, Katrin Hommel, Mike Blueggel, Laurenz Mohr, Felix C. Niemeyer, Christine Beuck, Peter Bayer, Shirley K. Knauer,* Bart Jan Ravoo* and Thomas Schrader*



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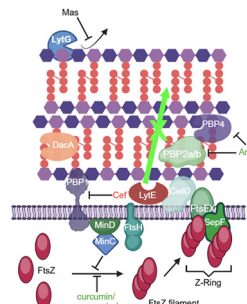


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1848

A Lyt at the end of the tunnel? Unraveling the complex interactions of the *N*-acetylglucosaminidase LytG in cell wall metabolism

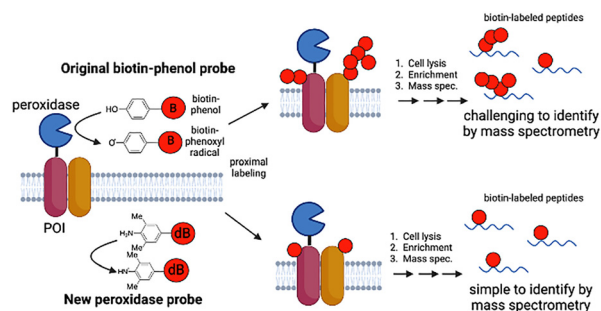
Jazmeen Hernandez, Jett Duval, Taryn Rauff, Ethan Hall, Mika Gallati, Brad A. Haubrich, Monica Thoma, Elimelec Aponte, Amit Basu, Joseph A. DeGiorgis and Christopher W. Reid*



1861

A disubstituted aniline probe for enhanced peroxidase-based proximal protein labelling

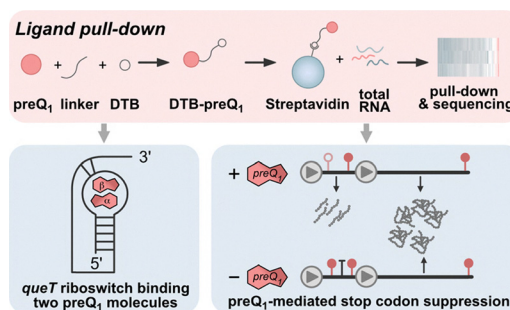
Pornchai Kaewsapsak, Nattavorapon Tantisasirat, Sucheewin Krobthong, Peeraphan Compiro, Ariya Khamwut, Kidakarn Ratchakitprakarn, Naphat Chantaravisoot, Kriangsak Faikhruea, Withsakorn Sangsuwan, Medena Noikham, Worawan Bhanthumnavin, Tirayut Vilaivan, Sunchai Payungporn, Yodying Yingchutrakul, Watthanachai Jumpathong and Chanut Aonbangkhen*



1867

Experimental identification of preQ₁-binding RNAs in the pathogenic bacterium *Listeria monocytogenes*

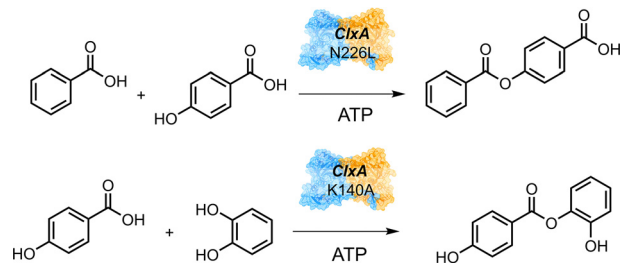
Malou Hanisch, Laurin Flemmich, Christoph Mitteregger, Ingo Bauer, Cristian A. Velandia-Huerto, Ivo Hofacker, Ronald Micura* and Alexandra Lusser*



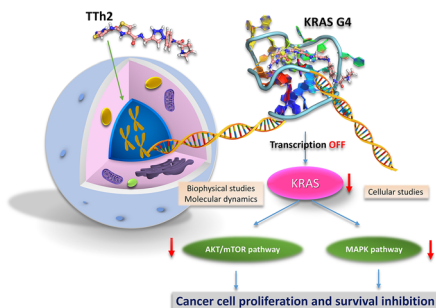
1879

Biocatalytic synthesis of phenyl benzoate esters using the amide ligase ClxA

Alexander Ascham, Qingyun Tang, Ian J. S. Fairlamb and Gideon Grogan*



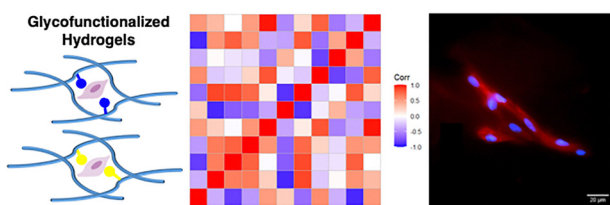
1885



Thiazole peptidomimetics as chemical modulators of KRAS gene expression via G-quadruplex stabilization

Debasmita Biswas, Ananta Gorai, Sandip Maiti, Ritapa Chaudhuri, Sayantan Pradhan and Jyotirmayee Dash*

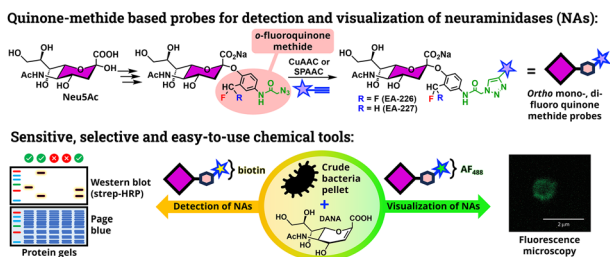
1893



Glyco-functionalization of ECM mimics, influence in morphology and cell behaviour

Maddalena Bracchi, Francesco Nicotra and Laura Russo*

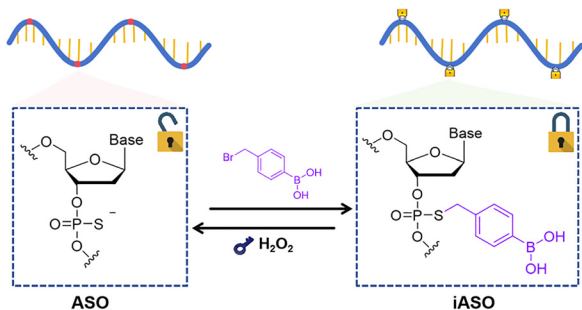
1909



Selective labeling and visualization of viral and bacterial neuraminidases using *ortho*-quinone methide-based probes

Erianna I. Alvarado-Melendez, Simon T. Ruessink, Karin Strijbis and Tom Wennekes*

1920



Chemically inducible antisense oligonucleotides for cell-specific gene silencing

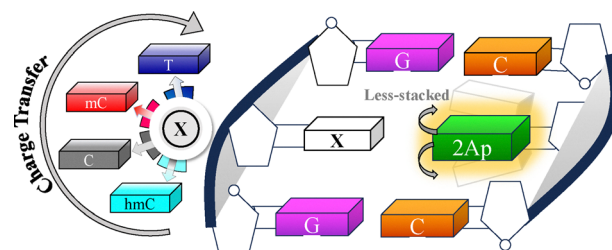
Zhen Xun, Yang Hai, Li-Juan Tang, Jian-Hui Jiang and Zhenkun Wu*



1927

New insights into the structure and dynamics of the epigenetic modifications on DNA

Dineshbabu Takkella, Javier Cerezo, Lara Martinez-Fernandez* and Krishna Gavvala*



1941

Comparative aptamer profiling reveals cell surface remodeling and the emergence of a noncanonical cell surface protein under oncogenic signaling

Jungo Kakuta, Kenji Ohba, Hideaki Ogasawara, Kyohei Okahara, Kazumi Emoto, Hiroaki Sako, Miho Sekai, Yasuyuki Fujita, Toshio Imai and Yogo Sakakibara*

