

## IN THIS ISSUE

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### Cover

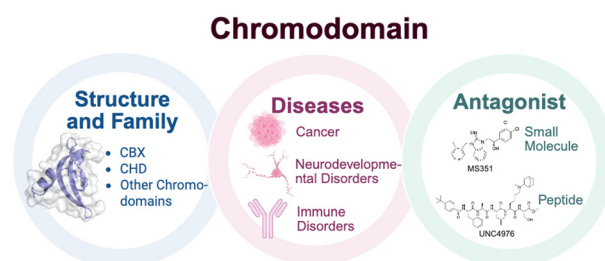
See John Paul Pezacki *et al.*, pp. 860–868. Image reproduced by permission of Eryn Lundrigan from *RSC Chem. Biol.*, 2025, 6, 860.

## REVIEW

833

### Epigenetic reader chromodomain as a potential therapeutic target

Shivangi Sharma, J. Trae Hampton, Tatiana G. Kutateladze\* and Wenshe Ray Liu\*

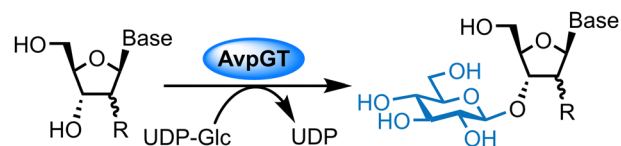


## COMMUNICATIONS

845

### 3'-O-β-Glucosylation of nucleoside analogues using a promiscuous bacterial glycosyltransferase

Jonathan P. Dolan,\* Tessa Keenan, Aisling Ní Cheallaigh, Martin A. Fascione and Gavin J. Miller\*



- Acceptance of Pyrimidine and Purine Nucleosides
- 15 Examples - Nucleobase modification
  - D-Ribo and D-Arabino Configuration
  - 2'-Deoxy and Fluorination
  - 4'-Thio Nucleosides



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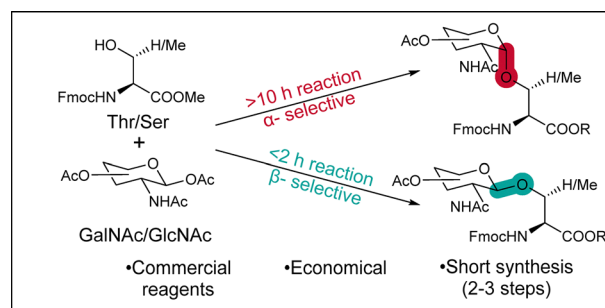
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## COMMUNICATIONS

851

Efficient synthesis of *O*-glycosylated amino acids

Felicity J. Frank, Rebecca A. Lawson and Tom E. McAllister\*



## PROFILE

857

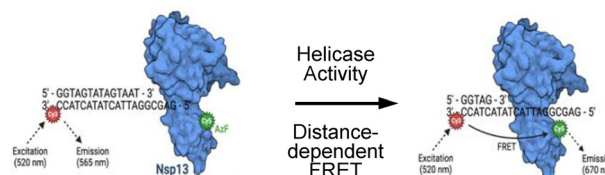
Contributors to the *RSC Chemical Biology* Emerging Investigators Collection 2024

## PAPERS

860

## Monitoring SARS-CoV-2 Nsp13 helicase binding activity using expanded genetic code techniques

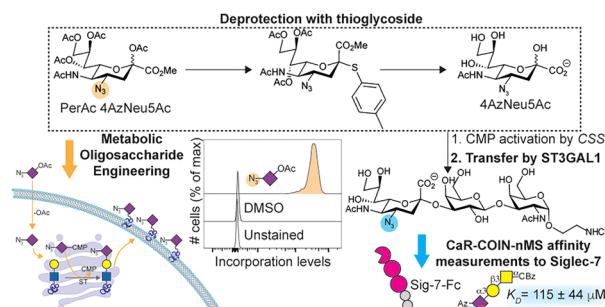
Eryn Lundrigan, Christine Hum, Nadine Ahmed and John Paul Pezacki\*



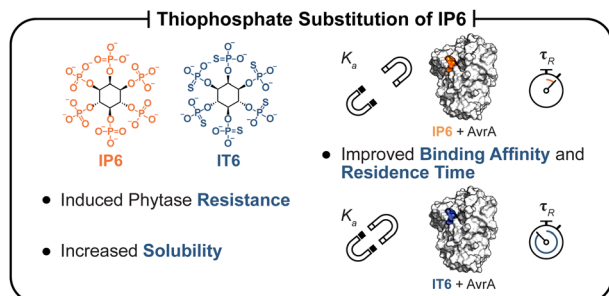
869

## Synthesis of 4-azido sialic acid for testing against Siglec-7 and in metabolic oligosaccharide engineering

Taylor E. Gray, Kristin B. Labasan, Gour C. Daskhan, Duong T. Bui, Maju Joe, Dhanraj Kumawat, Edward N. Schmidt, John S. Klassen and Matthew S. Macauley\*



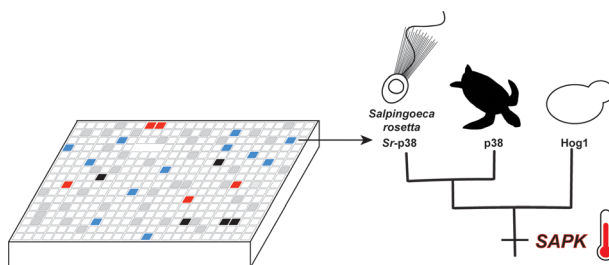
882



### Thiophosphate bioisosteres of inositol hexakisphosphate enhance binding affinity and residence time on bacterial virulence factors

Rebecca Cummer, Garvit Bhatt, Lauren M. Finn, Bettina G. Keller, Bhushan Nagar and Bastien Castagner\*

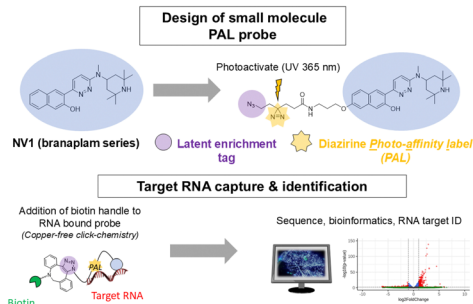
891



### A stress-responsive p38 signaling axis in choanoflagellates

Florentine U. Rutaganira,\* Maxwell C. Coyle, Maria H. T. Nguyen, Iliana Hernandez, Alex P. Scopton, Arvin C. Dar and Nicole King

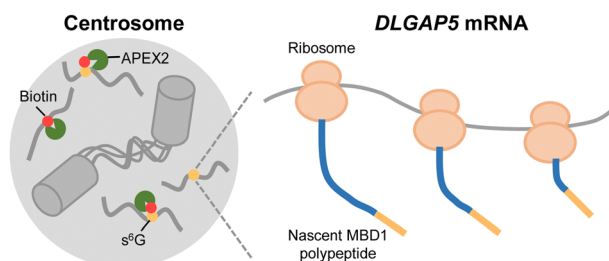
905



### Photoaffinity enabled transcriptome-wide identification of splice modulating small molecule–RNA binding events in native cells

Raven Shah, Wanlin Yan, Joyce Rigal, Steve Mullin, Lin Fan, Lynn McGregor, Andrew Krueger, Nicole Renaud, Andrea Byrnes\* and Jason R. Thomas\*

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### Enzyme-mediated proximity labeling reveals the co-translational targeting of DLGAP5 mRNA to the centrosome during mitosis

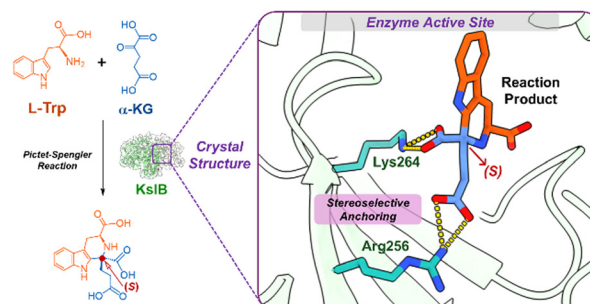
Gang Wang, Mo Li\* and Peng Zou\*



933

### Structural and mechanistic insights into KslB, a bacterial Pictet–Spenglerase in kitasetaline biosynthesis

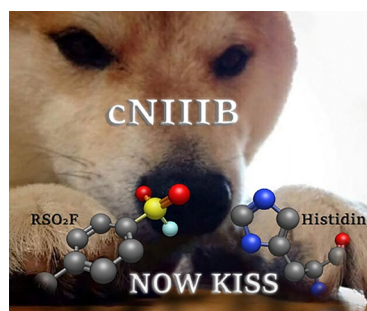
Wantae Kim, Ziyang Zheng, Kangsan Kim, Yu-Hsuan Lee, Hung-wen Liu\* and Y. Jessie Zhang\*



942

### Proximity-induced SuFEx increases the potency of cytosolic nucleotidase inhibitors and reveals a rare example of covalently targeted histidine

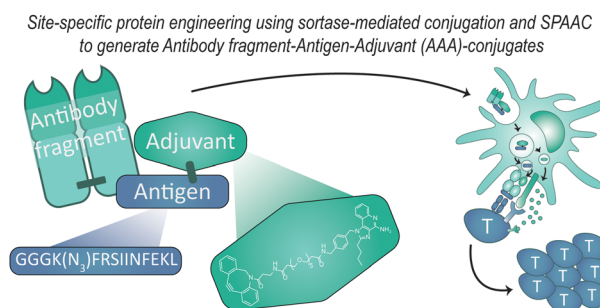
Mikolaj Chrominski,\* Marcin Warminski, Mateusz Kozarski, Dorota Kubacka, Joanna Panecka-Hofman, Tomasz Spiewla, Mikolaj Zmudzinski, Jacek Jemeility and Joanna Kowalska\*



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### Co-delivery of antigen and adjuvant by site-specific conjugation to dendritic cell-targeted Fab fragments potentiates T cell responses

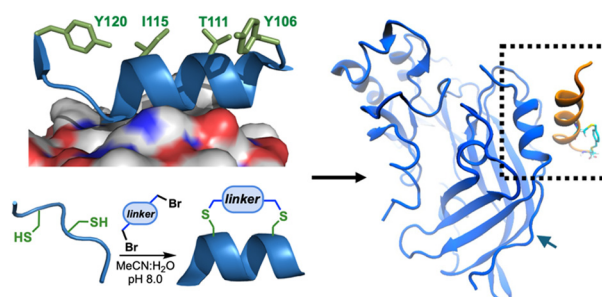
Zacharias Wijnjes, Iván Ramos Tomillero, Camille M. Le Gall, Eric A. W. van Dinther, Frederique Turlings, René Classens, Saikat Manna, Duco van Dalen, Ruud J. R. W. Peters, Kayleigh Schouren, Felix L. Fennemann, Iris M. Hagemans, Floris J. van Dalen, Johan M. S. van der Schoot, Carl G. Figdor, Aaron Esser-Kahn, Ferenc A. Scheeren and Martijn Verdoes\*



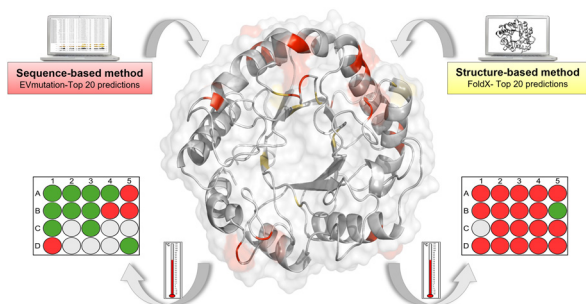
963

### Design of a stapled peptide that binds to the Ebola virus matrix protein dimer interface

Roopashi Saxena, Madison M. Wright, Benjamin M. Rathman, Ukesh Karki, Prem P. Chapagain, Juan R. Del Valle\* and Robert V. Stahelin\*



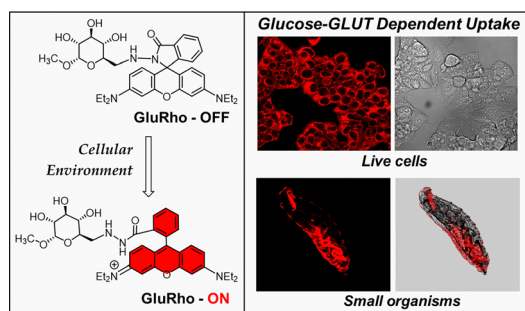
975



### Exploring sequence- and structure-based fitness landscapes to enhance thermal resistance and activity of endoglucanase II with minimal experimental effort

Atul Kumar, Alexander-Maurice Illig, Nicolas de la Vega Guerra, Francisca Contreras, Mehdi D. Davari and Ulrich Schwaneberg\*

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### Turn-on fluorescent glucose transport bioprobe enables wash-free real-time monitoring of glucose uptake activity in live cells and small organisms

Monica S. Hensley, David Hutchings, Aldelrahman Ismail and Marina Tanasova\*

