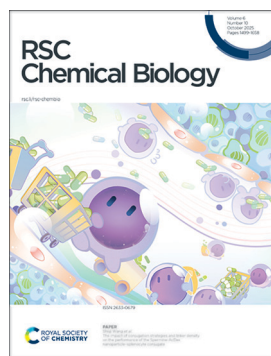


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## IN THIS ISSUE

ISSN 2633-0679 CODEN RCBSAO 6(10) 1499-1658 (2025)



### Cover

See Shiqi Wang *et al.*, pp. 1546–1554. Image reproduced by permission of Shiqi Wang from *RSC Chem. Biol.*, 2025, 6, 1546.



### Inside cover

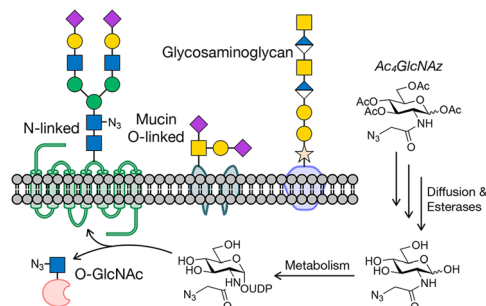
See Jeffery M. Tharp *et al.*, pp. 1555–1565. Image reproduced by permission of Jeffery M. Tharp from *RSC Chem. Biol.*, 2025, 6, 1555.

## REVIEWS

1506

### Achieving cell-type selectivity in metabolic oligosaccharide engineering

Michelle Marie B. Helmeke, Rhianna L. Haynie-Cion and Matthew R. Pratt\*

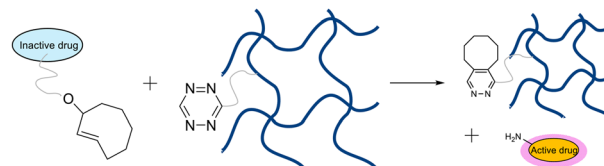


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### Applications of click and click-to-release chemistry in biomaterials to advance skin regeneration

Merel Gansevoort, Matthijs van de Waarsenburg, Thomas J. Boltje, Floris P. J. T. Rutjes,\*  
Toin H. van Kuppevelt and Willeke F. Daamen\*

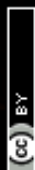
Challenges in wound healing may be solved using click chemistry strategies!



# RSC Applied Polymers

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both natural and synthetic

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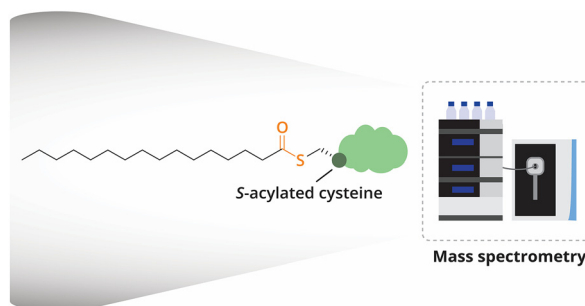
Fundamental questions  
Elemental answers

## REVIEWS

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**Deciphering protein long-chain S-acylation using mass spectrometry proteomics strategies**

Anneroos E. Nederstigt, Samiksha Sardana and Marc P. Baggelaar\*

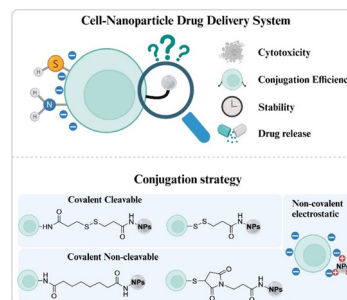


## PAPERS

1546

**The impact of conjugation strategies and linker density on the performance of the Spermine-AcDex nanoparticle–splenocyte conjugate**

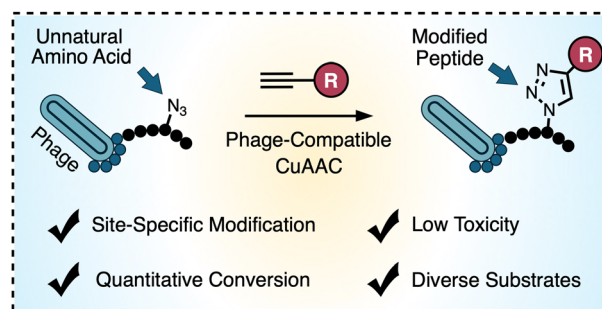
Yuchen Su, Ruoyu Cheng, Bowei Du, Mai O. Soliman, Hongbo Zhang and Shiqi Wang\*



1555

**Copper-catalysed azide–alkyne cycloaddition on live M13 bacteriophage for expanding the molecular diversity of phage-displayed peptide libraries**

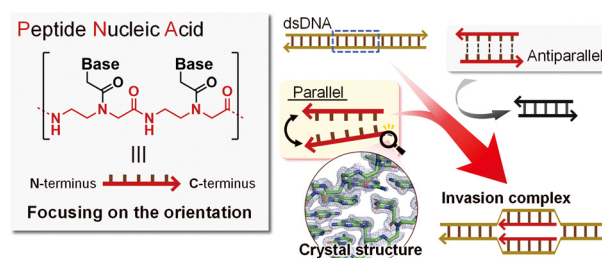
Olabode Dawodu, Cody A. White, Caitlin Specht, Alejandro Tapia and Jeffery M. Tharp\*



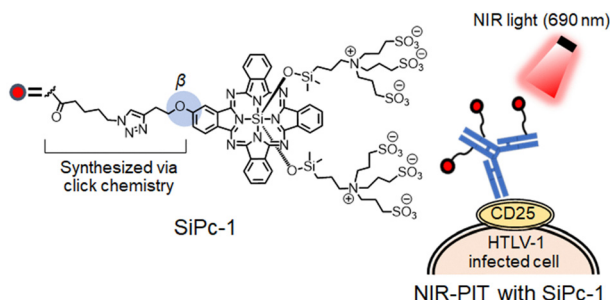
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**Peptide nucleic acids in parallel orientation form invasion complexes with double-stranded DNA**

Masanari Shibata, Hiroshi Sugimoto, Masaki Hibino, Osami Shoji\* and Yuichiro Aiba\*



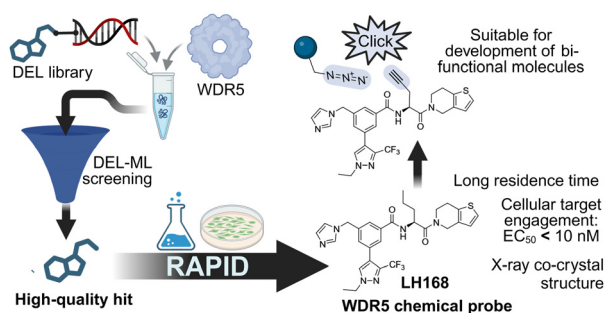
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## Development of a silicon phthalocyanine analogue for near-infrared photoimmunotherapy and its application to HTLV-1-infected leukemic cells

Yoshikazu Fuse, Eita Sasaki, Masaharu Tamaki, Shunto Kawamura, Hisashi Ohno, Sota Yamada, Masahiro Yasunaga, Hideo Takakura, Hirofumi Hanaoka, Hisataka Kobayashi, Hideki Nakasone and Kenjiro Hanaoka\*

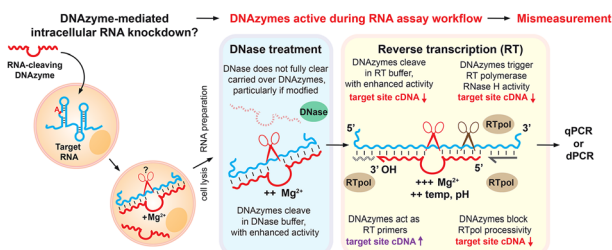
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## Discovery of an exquisitely selective WDR5 chemical probe accelerated by a high-quality DEL-ML Hit

Lasse Hoffmann, Christopher Lenz, Frederic Farges, Serah W. Kimani, Johannes Dopfer, Sabrina Keller, Martin Peter Schwalm, Hanna Holzmann, Andreas Kraemer, Aiping Dong, Fengling Li, Irene Chau, Levon Halabelian, Matthias Gstaiger, Susanne Müller, Stefan Knapp\* and Václav Némec\*

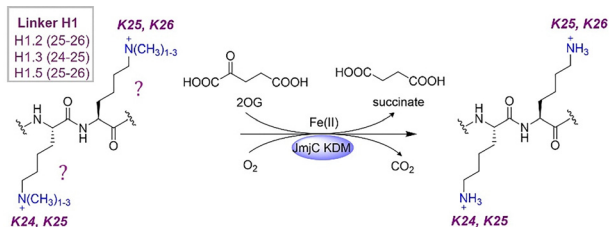
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## Sources of mismeasurement of RNA knockdown by DNazymes and XNazymes

Maria J. Donde, Alicia Montulet and Alexander I. Taylor\*

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## Investigating the N-terminal linker histone H1 subtypes as substrates for JmjC lysine demethylases

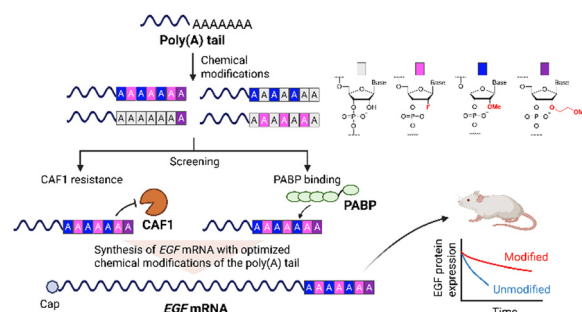
Vildan A. Türkmen, Anthony Tumber, Eidarar Salah, Samanpreet Kaur, Christopher J. Schofield\* and Jasmin Mecinović\*



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### Characterization of nuclease stability and poly(A)-binding protein binding activity of chemically modified poly(A) tail for *in vivo* applications

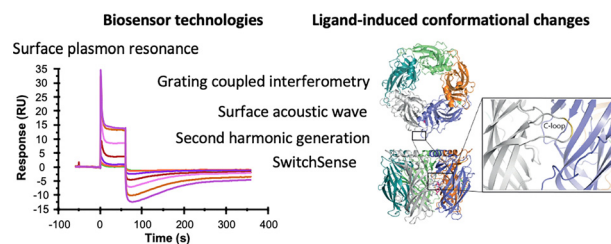
Atsushi Hashimoto, Yuma Kunitomo, Ittoku Kikuchi, Hiroki Yamada, Keiko Kobayashi, Kazuhiro Soshiroda, Hiromi Aman, Yasuaki Kimura, Junichiro Yamamoto, Yasuhisa Shiraishi, Satoshi Uchida,\* Hiroshi Abe\* and Hiroto Iwai\*



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### Detection and characterisation of ligand-induced conformational changes in acetylcholine binding proteins using biosensors and X-ray crystallography

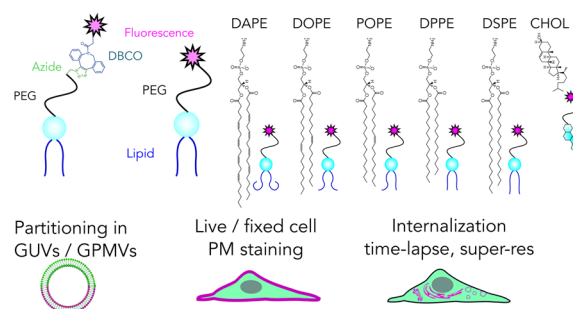
Edward A. FitzGerald, Daniela Cederfelt, Daria Kovryzhenko, Pierre Boronat, Bjarte Aarmo Lund, Doreen Dobritzsch, Sven Hennig, Pablo Porrugas Paseiro, Iwan J. P. de Esch and U. Helena Danielson\*



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### Plasma membrane labelling efficiency, internalization and partitioning of functionalized fluorescent lipids as a function of lipid structure

Erdinc Sezgin



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### The bacterial stress response polymerase DinB tolerates sugar modifications and preferentially incorporates arabinosyl nucleotides

Christina M. Hurley, Jeffrey M. Kubiak, Michael B. Cory, Jared B. Parker, Christian E. Loo, Laura C. Wang and Rahul M. Kohli\*

