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IN THIS ISSUE

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Cover

See Hiroshi Inaba, Kazunori Matsuura *et al.*, pp. 737–745. Image reproduced by permission of Hiroshi Inaba, Kazunori Matsuura from *RSC Chem. Biol.*, 2025, 6, 737.



Inside cover

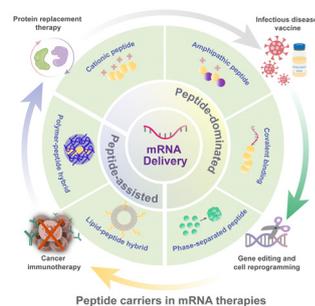
See Sabine Schneider *et al.*, pp. 731–736. Image reproduced by permission of Simsir, Walter, Sahin, Carell, Schneider from *RSC Chem. Biol.*, 2025, 6, 731.

REVIEWS

666

Peptides: potential delivery systems for mRNA

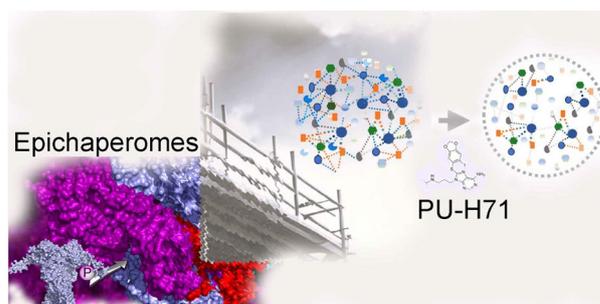
Huiting Liang, Yun Xing, Kexin Wang, Yaping Zhang,* Feng Yin* and Zigang Li*



678

Epichaperomes: redefining chaperone biology and therapeutic strategies in complex diseases

Chiranjeevi Pasala, Chander S. Digwal, Sahil Sharma, Shujuan Wang, Alessia Bubula and Gabriela Chiosis*



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Fundamental questions
Elemental answers

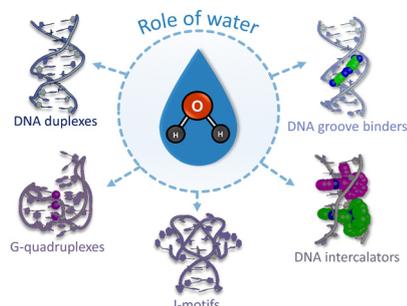


REVIEWS

699

The role of water in mediating DNA structures with epigenetic modifications, higher-order conformations and drug–DNA interactions

Roshan Satange and Ming-Hon Hou*

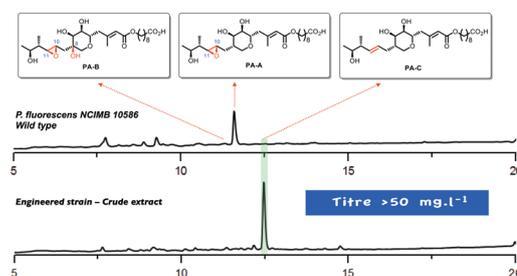


721

Synthetic biology routes to new and extinct natural products

Thomas J. Simpson

Pathway engineering to optimise biosynthesis of improved antibiotic structure

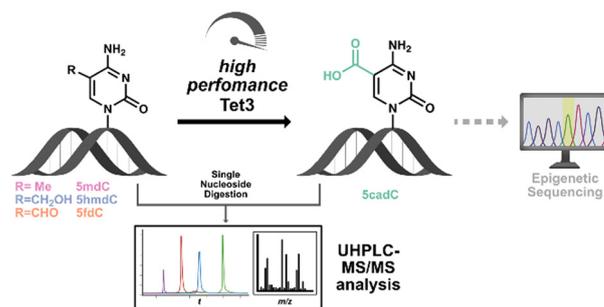


COMMUNICATION

731

Novel Tet3 enzymes for next-generation epigenetic sequencing

Özge Simsir, Tobias Walter, Hanife Sahin, Thomas Carell* and Sabine Schneider*

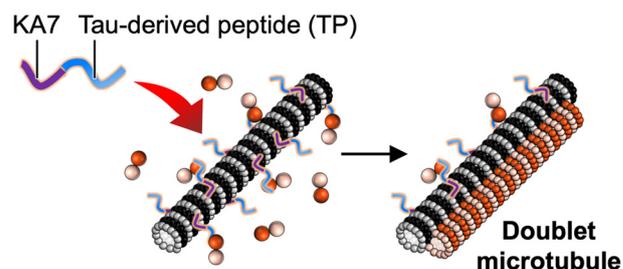


PAPERS

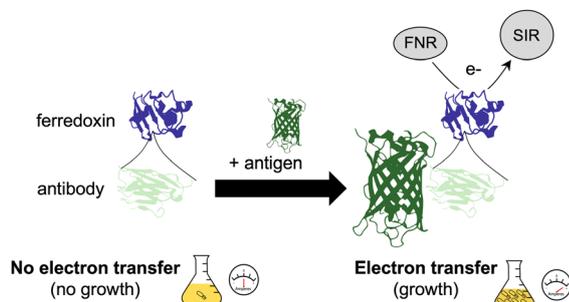
737

Peptide-mediated display of Tau-derived peptide for construction of microtubule superstructures

Hiroshi Inaba,* Daichi Kageyama, Soei Watari, Mahoko Tateishi, Akira Kakugo and Kazunori Matsuura*



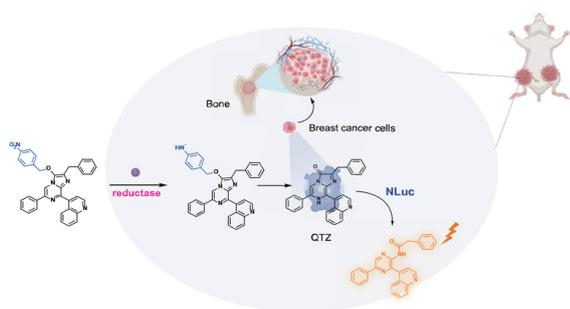
746



Regulating ferredoxin electron transfer using nanobody and antigen interactions

Albert Truong and Jonathan J. Silberg*

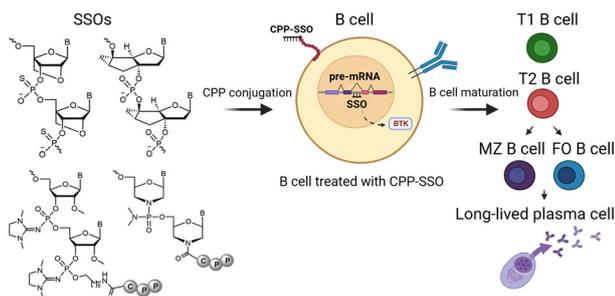
754



Real-time bioluminescence imaging of nitroreductase in breast cancer bone metastasis

Kang Lu, Mengxi Zhang, Zuotong Tian and Han Xiao*

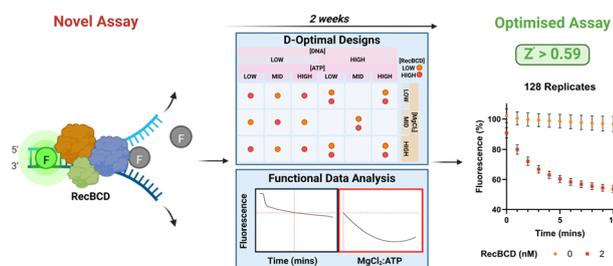
761



Cell-penetrating peptide-conjugated, splice-switching oligonucleotides mitigate the phenotype in *Btk/Tec* double deficient X-linked agammaglobulinemia model

Burcu Bestas, H. Yesid Estupiñán, Qing Wang, Shabnam Kharazi, Chenfei He, Dara K. Mohammad, Dhanu Gupta, Oscar P. B. Wiklander, Taavi Lehto, Karin E. Lundin, Anna Berglöf, Mikael C. I. Karlsson, Frank Abendroth, Samir El Andaloussi, Michael J. Gait, Matthew J. A. Wood, Christian J. Leumann, Dmitry A. Stetsenko, Robert Månsson, Jesper Wengel, Rula Zain and C. I. Edvard Smith*

772



Development of a fluorescence-based assay for RecBCD activity using functional data analysis and design of experiments

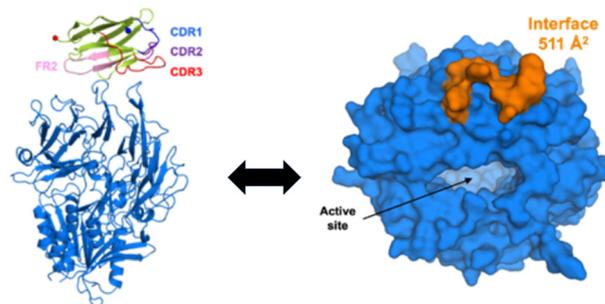
Adam Winniffrith, Steven R. Brown, Piotr Jedryszek, C. Grant, Philip E. Kay, Adam M. Thomas, Jacob D. Bradbury and Thomas Lanyon-Hogg*



780

Cryo-electron microscopy reveals a single domain antibody with a unique binding epitope on fibroblast activation protein alpha

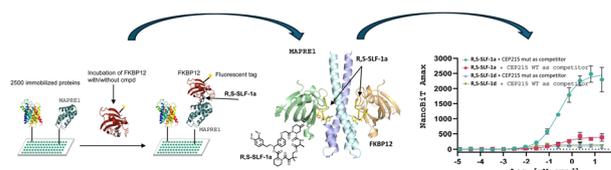
Zhen Xu, Akesh Sinha, Darpan N. Pandya, Nicholas J. Schnicker* and Thaddeus J. Wadas*



788

Identification and characterization of ternary complexes consisting of FKBP12, MAPRE1 and macrocyclic molecular glues

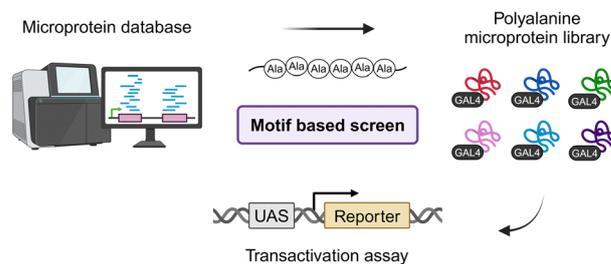
Michael Salcius, Antonin Tutter, Marianne Fouché, Halil Koc, Dan King, Anxhela Dhembli, Andrei Golosov, Wolfgang Jahnke, Chrystèle Henry, Dayana Argoti, Weiping Jia, Liliana Pedro, Lauren Connor, Philippe Piechon, Francesca Fabbiani, Regis Denay, Emine Sager, Juergen Kuehnoel, Marie-Anne Lozach, Fabio Lima, Angela Vitrey, Shu-Yu Chen, Gregory Michaud* and Hans-Joerg Roth*



800

Identification of microproteins with transactivation activity by polyaniline motif selection

Archita Agrawal and Alan Saghatelian*



809

Ganglioside lipids inhibit the aggregation of the Alzheimer's amyloid- β peptide

Zenon Toprakcioglu, Akhila K. Jayaram and Tuomas P. J. Knowles*

