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Cover
See Jorge González-García, Antonio Bauzá *et al.*, pp. 1007–1018.
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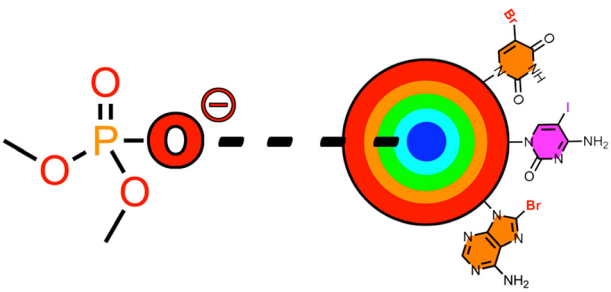
REVIEWS

1007

Halogenation of nucleic acid structures: from chemical biology to supramolecular chemistry

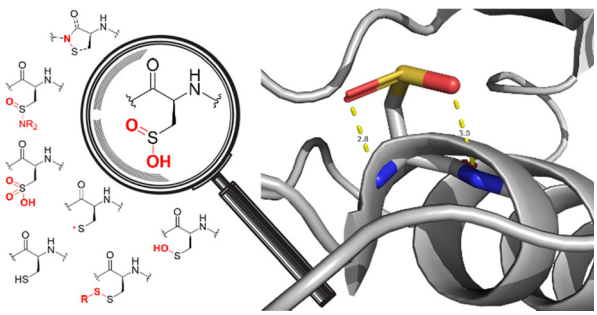
Catalina Nicolau, Julia Requena-Ramírez, Jorge González-García* and Antonio Bauzá*



1019

Cysteine sulfinic acid and sulfinylated peptides

Laura Hayward and Matthias G. J. Baud*



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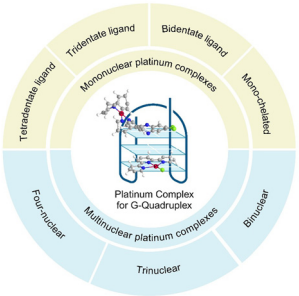
REVIEWS

1034

A state-of-the-art view: G-quadruplex-targeting for platinum complexes' treatment of tumors

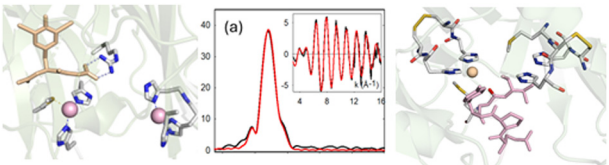
Jinrong Yang, Yu Chen* and Hui Chao*



1048

Metal-mediated peptide processing. How copper and iron catalyze diverse peptide modifications such as amidation and crosslinking

Ninian J. Blackburn

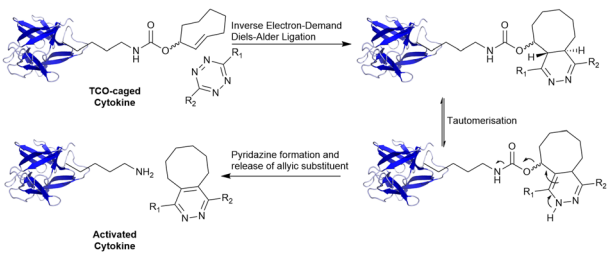


COMMUNICATION

1068

***trans*-Cyclooctene-caged-IL-1β immunocytokine-constructs ligated to unmodified nanobodies allow click-2-release-based control of cytokine activity**

Amber Barendrecht, Heleen H. C. Peeters, Diana Torres-García, M. Thierry Shema, Alexi J. C. Sarris, Shimrit David, Göktuğ Aba, Camille M. Le Gall, Martin Wilkovitsch, Martijn Verdoes, Hannes Mikula, Mark A. Travis and Sander I. van Kasteren*

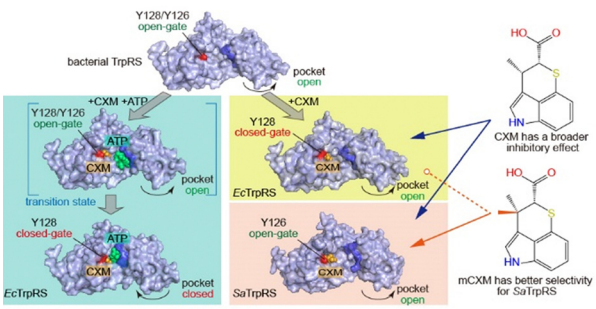


PAPERS

1079

Mechanistic insights into the ATP-mediated and species-dependent inhibition of TrpRS by chuangxinmycin

Yichen Ren, Sili Wang, Wen Liu,* Jing Wang* and Pengfei Fang*



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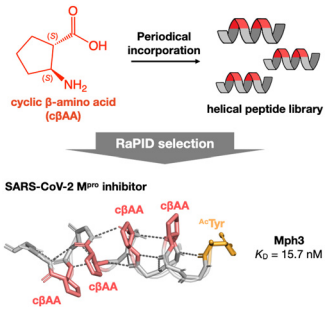
PAPERS

1089



RaPID discovery of cell-permeable helical peptide inhibitors con-taining cyclic β-amino acids against SARS-CoV-2 main protease

Marina Kawai, Tika R. Malla, H. T. Henry Chan, Anthony Tumber, Lennart Brewitz, Eidarus Salah, Naohiro Terasaka, Takayuki Katoh, Akane Kawamura, Christopher J. Schofield, Fernanda Duarte and Hiroaki Suga*

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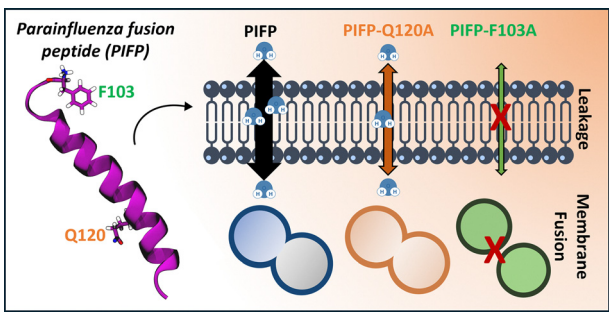

Unravelling the role of key amino acid residues of the parainfluenza fusion peptide in membrane fusion

Mariana Valério, Carolina C. Buga, Diogo A. Mendonça, Miguel A. R. B. Castanho, Manuel N. Melo, Cláudio M. Soares,* Diana Lousa* and Ana Salomé Veiga*

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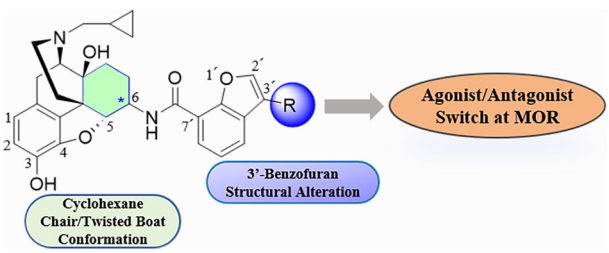
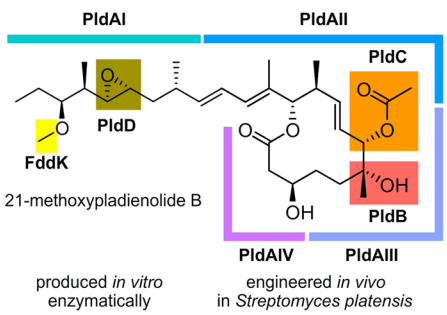


Exploring substitution effects on the potential dominant conformations of NBF derivatives leading to functional conversion at the mu opioid receptor

Ennian Li, Ahmed Reda, Hongguang Ma, Samuel Woodard, James C. Gillespie, Dana E. Selley, William L. Dewey, Piyusha P. Pagare and Yan Zhang*

1126



Engineering regiospecific methylation of the pladienolides

Emily R. Smith, Dua H. Al-Smadi, Yitao Dai, Manead Khin, Joanna E. Burdette, Brendan M. Duggan, James J. La Clair, Alessandra S. Eustáquio* and Michael D. Burkart*

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PAPERS

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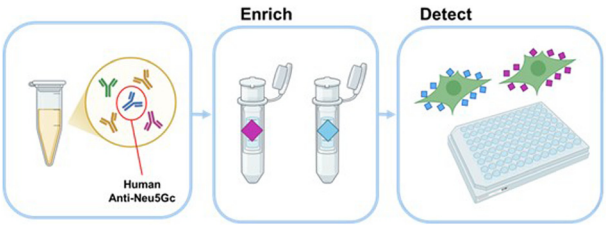
A general and accessible approach to enrichment and characterisation of natural anti-Neu5Gc antibodies from human samples

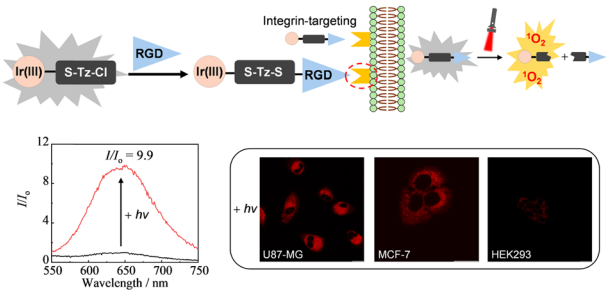
Esme Hutton, Yumiko Uno, Emma Scott, Craig Robson, Martin A. Fascione* and Nathalie Signoret*



1148

An iridium(III) 3-chloro-6-thio-1,2,4,5-tetrazine complex for cysteine conjugation, bioimaging and photoactivated therapy

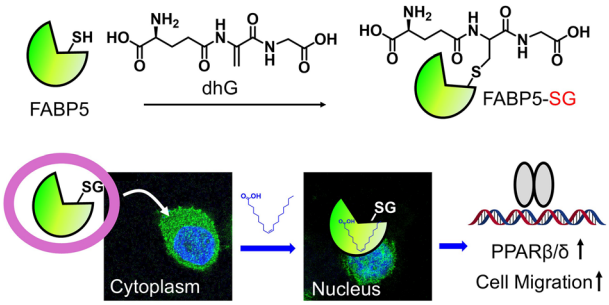
Lili Huang, Justin Shum, Lawrence Cho-Cheung Lee, Guang-Xi Xu, Peter Kam-Keung Leung and Kenneth Kam-Wing Lo*



1156

Dehydroglutathione, a glutathione derivative to introduce non-reversible glutathionylation

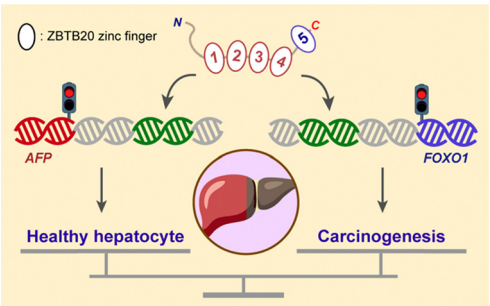
Daniel Oppong, Rayavarapu Padmavathi, Dhanushika S. K. Kukulage, Madhu C. Shivamadhu, Elizabeth A. Newberry, Anneliese M. Faustino, Hsin-Yao Tang and Young-Hoon Ahn*



1165

Regulation of carcinogenesis through multiple zinc fingers in ZBTB20

Hyunyong Kim, Yunha Hwang, Jin Sung Cheong and Seung Jae Lee*



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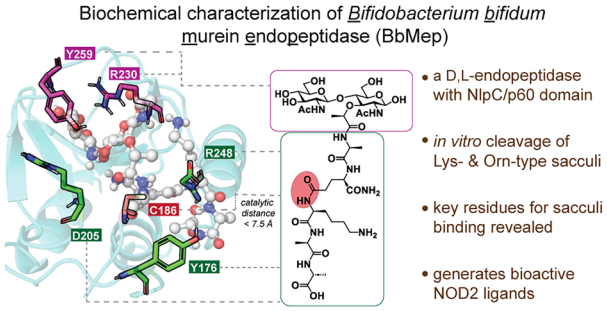
1174



Biochemical characterization of *Bifidobacterium bifidum* peptidoglycan D,L-endopeptidase BbMep that generates NOD2 ligands

Jeric Mun Chung Kwan, Shiliu Feng, Evan Wei Long Ng and Yuan Qiao*

CORRECTION

1184

Correction: 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 Jemielity and Joanna Kowalska*

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