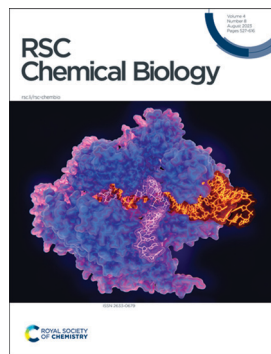


rsc.li/rsc-chembio

The Royal Society of Chemistry is the world's leading chemistry community. Through our high impact journals and publications we connect the world with the chemical sciences and invest the profits back into the chemistry community.

IN THIS ISSUE

ISSN 2633-0679 CODEN RCBSAO 4(8) 527-616 (2023)



Cover

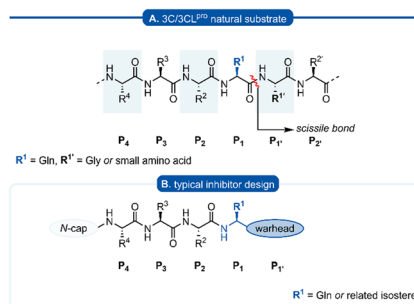
Image Credit: © Juan Gaertner/Science Photo Library/Getty Images.

REVIEWS

533

P₁ Glutamine isosteres in the design of inhibitors of 3C/3CL protease of human viruses of the *Pisoniviricetes* class

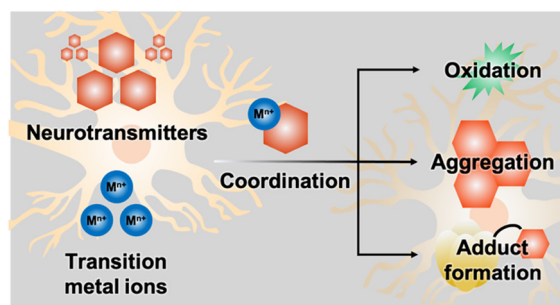
Louise A. Stubbing, Jonathan G. Hubert, Joseph Bell-Tyrer, Yann O. Hermant, Sung Hyun Yang, Alice M. McSweeney, Geena M. McKenzie-Goldsmith, Vernon K. Ward, Daniel P. Furkert and Margaret A. Brimble*



548

Transition metal ions and neurotransmitters: coordination chemistry and implications for neurodegeneration

Jeasang Yoo, Jiyeon Han* and Mi Hee Lim*



Executive Editor

Anna Rulka

Deputy Editor

Audra Taylor

Editorial Production Manager

Viktoria Titmus

Assistant Editors

Angelica-Jane Kechinyere Onyekwere, Shwetha Krishna, Michael Whitelaw, Alexander Whiteside

Editorial Assistant

Samantha Campos

Publishing Assistant

Brittany Hanlon

Publisher

Neil Hammond

For queries about submitted papers, please contact Viktoria Titmus, Editorial Production Manager in the first instance. E-mail: chembio@rsc.org

For pre-submission queries please contact Anna Rulka, Executive Editor. Email: chembio-rsc@rsc.org

RSC Chemical Biology (electronic: ISSN 2633-0679) is published 12 times a year by the Royal Society of Chemistry, Thomas Graham House, Science Park, Milton Road, Cambridge, UK CB4 0WF.

RSC Chemical Biology is a Gold Open Access journal and all articles are free to read. Please email orders@rsc.org to register your interest or contact Royal Society of Chemistry Order Department, Royal Society of Chemistry, Thomas Graham House, Science Park, Milton Road, Cambridge, CB4 0WF, UK Tel +44 (0) 1223 432398; E-mail: orders@rsc.org

Whilst this material has been produced with all due care, the Royal Society of Chemistry cannot be held responsible or liable for its accuracy and completeness, nor for any consequences arising from any errors or the use of the information contained in this publication. The publication of advertisements does not constitute any endorsement by the Royal Society of Chemistry or Authors of any products advertised. The views and opinions advanced by contributors do not necessarily reflect those of the Royal Society of Chemistry which shall not be liable for any resulting loss or damage arising as a result of reliance upon this material. The Royal Society of Chemistry is a charity, registered in England and Wales, Number 207890, and a company incorporated in England by Royal Charter (Registered No. RC000524), registered office: Burlington House, Piccadilly, London W1J 0BA, UK, Telephone: +44 (0) 207 4378 6556.

Advertisement sales:

Tel +44 (0) 1223 432246; Fax +44 (0) 1223 426017; E-mail advertising@rsc.org

For marketing opportunities relating to this journal, contact marketing@rsc.org

RSC Chemical Biology

rsc.li/rsc-chembio

RSC Chemical Biology publishes exceptionally significant findings in chemical biology

Editorial Board

Chair

Hiroaki Suga, The University of Tokyo, Japan

Associate Editors

Claudia Höbartner, University of Würzburg, Germany
Lingyin Li, Stanford University, USA
Zaneta Nikolovska-Coleska, University of Michigan, USA

Andrea Rentmeister, University of Münster, Germany
Roderich Süßmuth, Technical University of Berlin, Germany
Cai-Guang Yang, Shanghai Institute of Materia Medica, China

Members

Michelle Arkin, University of California San Francisco, USA
Jennifer Heemstra, Washington University, St Louis, USA
Ali Tavassoli, University of Southampton, UK

Advisory Board

Christopher Chang, University of California, Berkeley, USA
Dorothea Fiedler, FMP Berlin, Germany
Christian Hackenberger, FMP Berlin, Germany
Maja Köhn, University of Freiburg, Germany
Yamuna Krishnan, University of Chicago, USA
Jennifer Prescher, University of California, Irvine, USA
Christopher Schofield, University of Oxford, UK
Pamela Silver, Harvard Medical School, USA
Kira Weissman, University of Lorraine, France

Christopher Schofield, University of Oxford, UK
Peng Chen, Peking University, China
Hermen Overkleef, Leiden University, Netherlands
Xiu-Jie Wang, Bayes Business School London, UK
Don Hilvert, ETH Zürich, Switzerland
Jin Zhang, University of California San Diego, USA
Laura Kiessling, MIT, USA

Giulio Superti-Furga, Medical University of Vienna, Austria
Luc Brunsveld, Eindhoven University of Technology, Netherlands
May Khanna, University of Arizona, USA
Paul Joseph Dyson, Swiss Federal Institute of Technology Lausanne, Switzerland
Lei Liu, Tsinghua University, China
Guifang Jia, Peking University, China
Chudi Ndubaku, ORIC Pharmaceuticals, USA

Information for Authors

Full details on how to submit material for publication in RSC Chemical Biology are given in the Instructions for Authors (available from <http://www.rsc.org/authors>). Submissions should be made via the journal's homepage: rsc.li/rsc-chembio

Authors may reproduce/republish portions of their published contribution without seeking permission from the Royal Society of Chemistry, provided that any such republication is accompanied by an acknowledgement in the form: (Original Citation)– Reproduced by permission of the Royal Society of Chemistry.

This journal is © The Royal Society of Chemistry 2023.

Apart from fair dealing for the purposes of research or private study for non-commercial purposes, or criticism or review, as permitted under the Copyright, Designs and Patents Act 1988 and the Copyright and Related Rights Regulation 2003, this publication may only be reproduced, stored or transmitted, in any form or by any means, with the prior permission in writing of the Publishers or in the case of reprographic reproduction in accordance with the terms of licences issued by the Copyright Licensing Agency in the UK.

US copyright law is applicable to users in the USA.

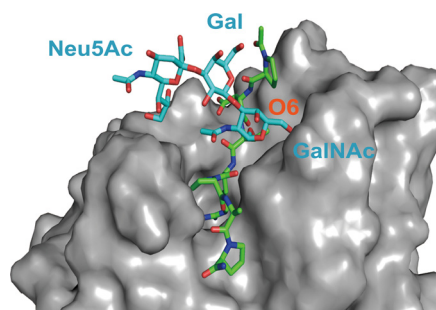
Registered charity number: 207890



564

Structural and molecular insight into antibody recognition of dynamic neopeptides in membrane tethered MUC1 of pancreatic cancer cells and secreted exosomes

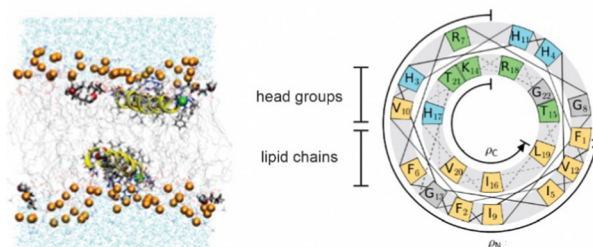
Hajime Wakui, Yasuhiro Yokoi, Chieko Horidome, Toyoyuki Ose, Min Yao, Yoshikazu Tanaka, Hiroshi Hinou and Shin-Ichiro Nishimura*



573

The effect of metalation on antimicrobial piscidins imbedded in normal and oxidized lipid bilayers

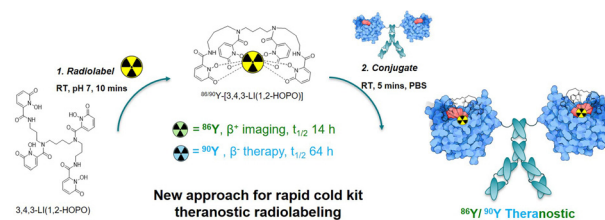
Ana Dreab and Craig A. Bayse*



587

Siderocalin fusion proteins enable a new $^{86}\text{Y}/^{90}\text{Y}$ theranostic approach

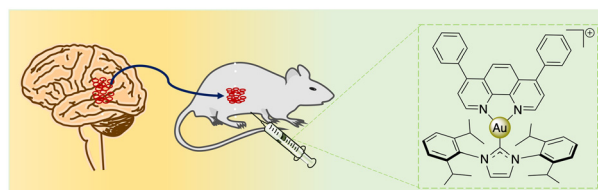
Alexia G. Cosby, Trevor Arino, Tyler A. Bailey, Matthew Buerger, Joshua J. Woods, Luis M. Aguirre Quintana, Jennifer V. Alvarenga Vasquez, Jennifer N. Wacker, Alyssa N. Gaiser, Roland K. Strong and Rebecca J. Abergel*



592

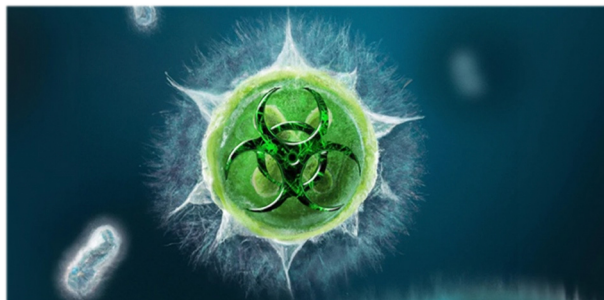
An anti-glioblastoma gold(i)-NHC complex distorts mitochondrial morphology and bioenergetics to induce tumor growth inhibition

Charles E. Greif, R. Tyler Mertens, Gilles Berger, Sean Parkin and Samuel G. Awuah*



PAPERS

600

**Screening under infection-relevant conditions reveals chemical sensitivity in multidrug resistant invasive non-typhoidal *Salmonella* (iNTS)**

Caressa N. Tsai, Marie-Ange Massicotte, Craig R. MacNair, Jordyn N. Perry, Eric D. Brown and Brian K. Coombes*

CORRECTION

613

Correction: Radiolabeling and *in vivo* evaluation of lanmodulin with biomedically relevant lanthanide isotopes

Kirsten E. Martin, Joseph A. Mattocks, Dariusz Śmitowicz, Eduardo Aluicio-Sarduy, Jennifer N. Whetter, Jonathan W. Engle, Joseph A. Cotruvo Jr* and Eszter Boros*

