

111/
C 51/2R

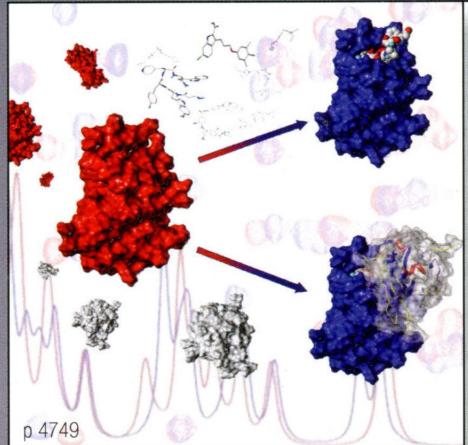
CHEMICAL REVIEWS

MAY 14, 2014

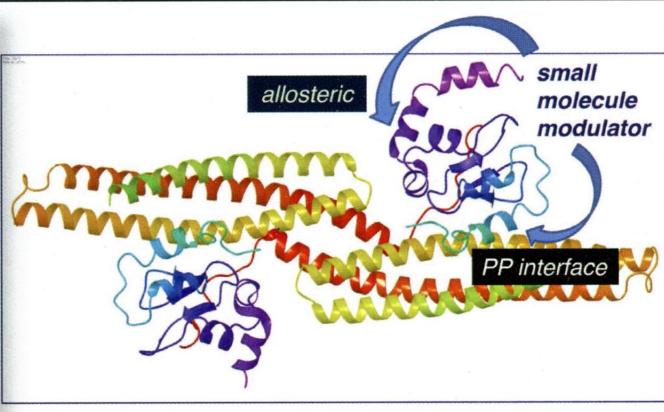
VOLUME 114 NUMBER 9

pubs.acs.org/CR

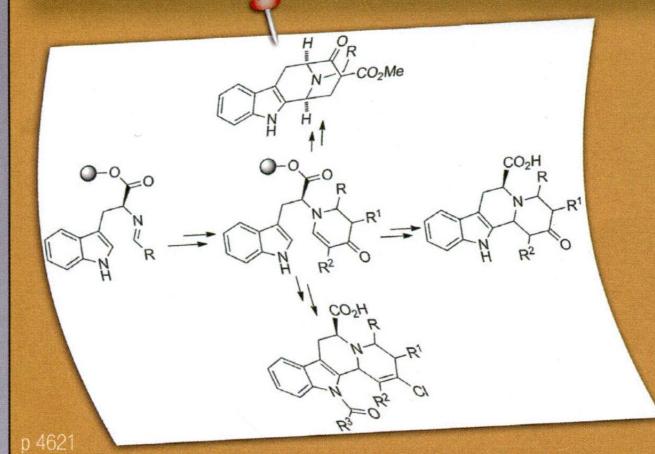
Chemical Biology of Protein-Protein Interactions



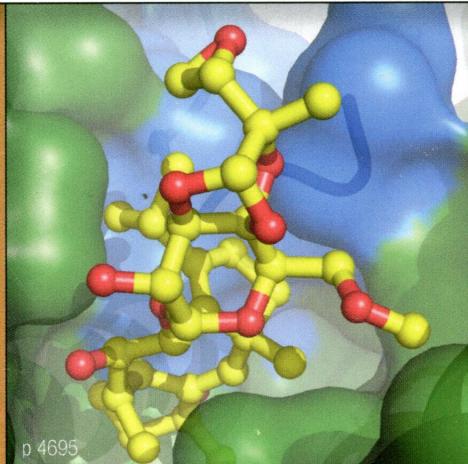
p 4749



p 4640



p 4621



p 4695



ACS Publications
Most Trusted. Most Cited. Most Read.

www.acs.org

CHEMICAL REVIEWS

MAY 14, 2014

VOLUME 114 ISSUE 9

CHREAY 114(9) 4621–5116 (2014)

ISSN 0009-2665

Registered in the U.S. Patent and Trademark Office
© 2014 by the American Chemical Society

SPECIAL SECTION: CHEMICAL BIOLOGY OF PROTEIN-PROTEIN INTERACTIONS

4621

[dx.doi.org/10.1021/cr400442v](https://doi.org/10.1021/cr400442v)

Development of a Natural-Product-Derived Chemical Toolbox for Modulation of Protein Function
Stefano Rizzo and Herbert Waldmann*

4640

[dx.doi.org/10.1021/cr4004049](https://doi.org/10.1021/cr4004049)

Small Molecule Modulators of Protein–Protein Interactions: Selected Case Studies
Madhu Aeluri, Srinivas Chamakuri, Bhanudas Dasari, Shiva Krishna Reddy Guduru, Ravikumar Jimmidi, Srinivas Jogula, and Prabhat Arya*

4695

[dx.doi.org/10.1021/cr400698c](https://doi.org/10.1021/cr400698c)

Modulators of Protein–Protein Interactions
Lech-Gustav Milroy, Tom N. Grossmann, Sven Hennig, Luc Brunsved, and Christian Ottmann*

4749

[dx.doi.org/10.1021/cr500043b](https://doi.org/10.1021/cr500043b)

NMR-Based Approaches for the Identification and Optimization of Inhibitors of Protein–Protein Interactions
Elisa Barile and Maurizio Pellecchia*

Reviews

4764

[dx.doi.org/10.1021/cr400355w](https://doi.org/10.1021/cr400355w)

Cellular Incorporation of Unnatural Amino Acids and Bioorthogonal Labeling of Proteins
Kathrin Lang* and Jason W. Chin*

4807

[dx.doi.org/10.1021/cr400600f](https://doi.org/10.1021/cr400600f)

Two-Dimensional Zeolites: Current Status and Perspectives
Wieslaw J. Roth, Petr Nachtigall, Russell E. Morris, and Jiří Čejka*

4838

[dx.doi.org/10.1021/cr400330g](https://doi.org/10.1021/cr400330g)

Indirect Nonbonded Nuclear Spin–Spin Coupling: A Guide for the Recognition and Understanding of “Through-Space” NMR *J* Constants in Small Organic, Organometallic, and Coordination Compounds
Jean-Cyrille Hierso*

4868

[dx.doi.org/10.1021/cr400290x](https://doi.org/10.1021/cr400290x)

Neoglycoenzymes

María L. Villalonga, Paula Díez, Alfredo Sánchez, María Gamella, José M. Pingarrón, and Reynaldo Villalonga*

4918

[dx.doi.org/10.1021/cr400568b](https://doi.org/10.1021/cr400568b)

Recent Advances in Development of Chiral Fluorescent and Colorimetric Sensors

Xin Zhang, Jun Yin, and Juyoung Yoon*

4960

[dx.doi.org/10.1021/cr400265z](https://doi.org/10.1021/cr400265z)

Chromone: A Valid Scaffold in Medicinal Chemistry

Alexandra Gaspar, Maria João Matos, Jorge Garrido, Eugenio Uriarte, and Fernanda Borges*

4993

[dx.doi.org/10.1021/cr400093w](https://doi.org/10.1021/cr400093w)

Potential of *M. oleifera* for the Treatment of Water and Wastewater

Sushil Kumar Kansal* and Amit Kumari

5011



[dx.doi.org/10.1021/cr4000946](https://doi.org/10.1021/cr4000946)

Scavenging of Organic C-Centered Radicals by Nitroxides

Elena G. Bagryanskaya* and Sylvain R. A. Marque*

5057

[dx.doi.org/10.1021/cr400407a](https://doi.org/10.1021/cr400407a)

Polydopamine and Its Derivative Materials: Synthesis and Promising Applications in Energy, Environmental, and Biomedical Fields

Yanlan Liu, Kelong Ai, and Lehui Lu*

Additions and Corrections

5116

[dx.doi.org/10.1021/cr500124k](https://doi.org/10.1021/cr500124k)

Correction to Classical Electrostatics for Biomolecular Simulations

G. Andrés Cisneros, Mikko Karttunen, Pengyu Ren, and Celeste Sagui*

Supporting Information available via online article