

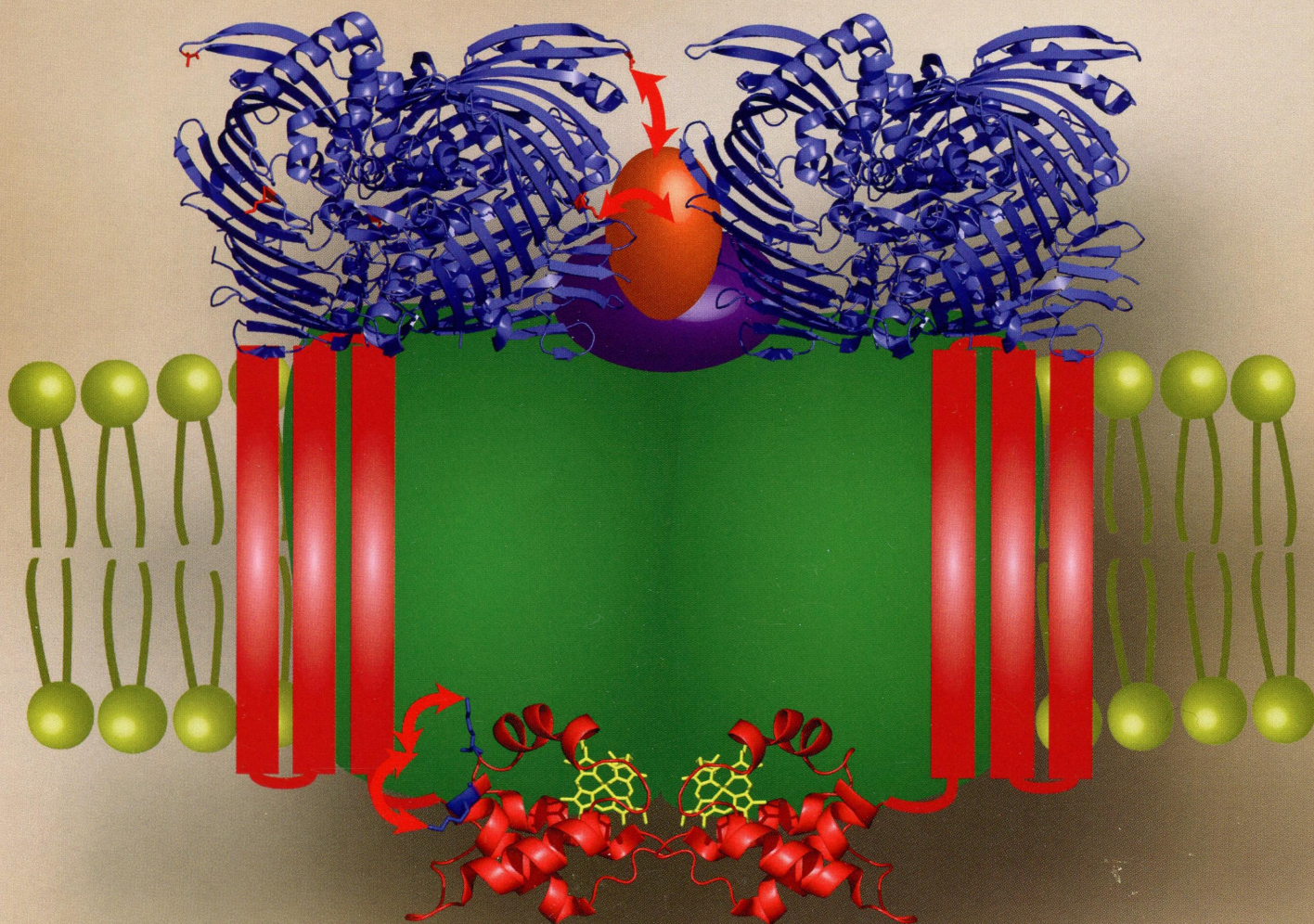
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ON THE COVER: The photosynthetic apparatus of the anoxygenic photosynthetic green sulfur bacterium *Chlorobaculum tepidum* includes the reaction center core (RCC) complex and the FMO antenna protein. The RCC complex is an FeS-type (type I) reaction center, which is composed of a homodimeric core structure formed by two PscA proteins, PscB Fe-S protein, a cytochrome c_{551} (PscC) protein, and a PscD protein. A structural model of the FMO/RCC complex is proposed on the basis of chemical cross-linking results.

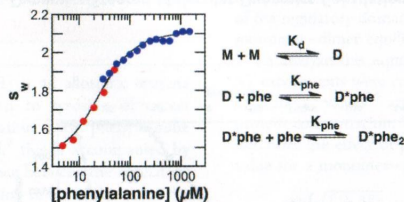
Rapid Reports

6625 **S**

[dx.doi.org/10.1021/bi501109s](https://doi.org/10.1021/bi501109s)

Phenylalanine Binding Is Linked to Dimerization of the Regulatory Domain of Phenylalanine Hydroxylase

Shengnan Zhang, Kenneth M. Roberts, and Paul F. Fitzpatrick*



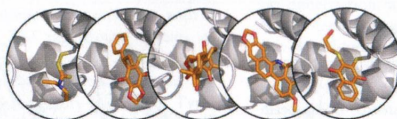
Articles

6628 **S**

[dx.doi.org/10.1021/bi500555z](https://doi.org/10.1021/bi500555z)

Covalent Small Molecule Inhibitors of Ca^{2+} -Bound S100B

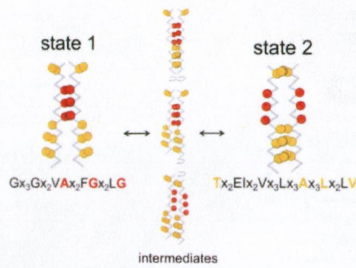
Michael C. Cavalier, Adam D. Pierce, Paul T. Wilder, Milad J. Alasady, Kira G. Hartman, David B. Neau, Timothy L. Foley, Ajit Jadhav, David J. Maloney, Anton Simeonov, Eric A. Toth, and David J. Weber*



Covalent small molecule inhibitors of Ca^{2+} -bound S100B

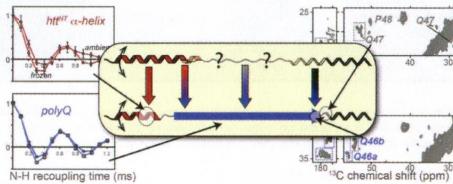
Dimerization of the EphA1 Receptor Tyrosine Kinase Transmembrane Domain: Insights into the Mechanism of Receptor Activation

Matthieu Chavent, Alan P. Chetwynd, Phillip J. Stansfeld, and Mark S. P. Sansom*



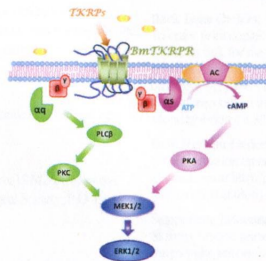
Polyglutamine Amyloid Core Boundaries and Flanking Domain Dynamics in Huntingtin Fragment Fibrils Determined by Solid-State Nuclear Magnetic Resonance

Cody L. Hoop, Hsiang-Kai Lin, Karunakar Kar, Zhipeng Hou, Michelle A. Poirier, Ronald Wetzel, and Patrick C. A. van der Wel*



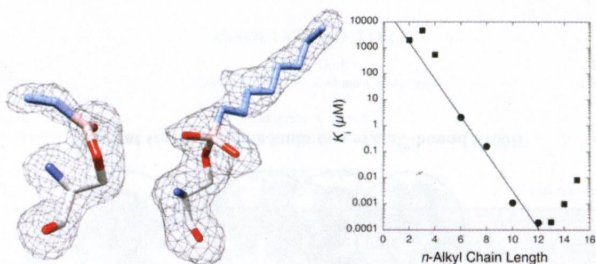
Activation of BNGR-A24 by Direct Interaction with Tachykinin-Related Peptides from the Silkworm *Bombyx mori* Leads to the G_q - and G_s -Coupled Signaling Cascades

Xiaobai He, Jiashu Zang, Xiangmei Li, Jiajie Shao, Huipeng Yang, Jingwen Yang, Haishan Huang, Linjie Chen, Liangen Shi, Chenggang Zhu, Guozheng Zhang,* and Naiming Zhou*



n-Alkylboronic Acid Inhibitors Reveal Determinants of Ligand Specificity in the Quorum-Quenching and Siderophore Biosynthetic Enzyme PvdQ

Kenneth D. Clevenger, Rui Wu, Dali Liu,* and Walter Fast*

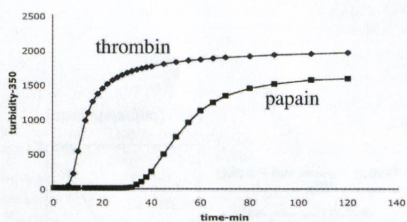


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dx.doi.org/10.1021/bi5010987

Clotting of Mammalian Fibrinogens by Papain: A Re-examination

Russell F. Doolittle*

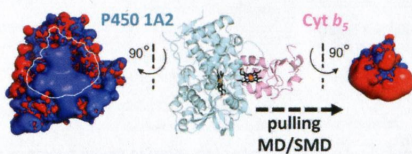


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dx.doi.org/10.1021/bi500814t

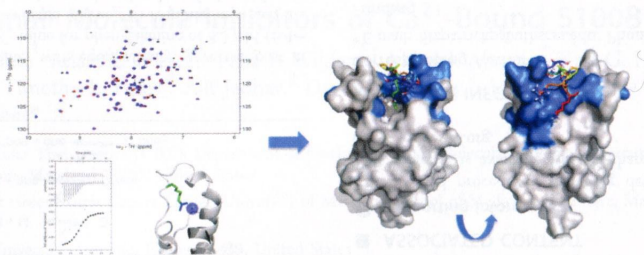
Flexible Docking-Based Molecular Dynamics/Steered Molecular Dynamics Calculations of Protein-Protein Contacts in a Complex of Cytochrome P450 1A2 with Cytochrome b_5

Petr Jeřábek, Jan Florián, Marie Stiborová, and Václav Martínek*



Binding Hotspots of BAZ2B Bromodomain: Histone Interaction Revealed by Solution NMR Driven Docking

Fleur M. Ferguson, David M. Dias, João P. G. L. M. Rodrigues, Hans Wienk, Rolf Boelens, Alexandre M. J. J. Bonvin, Chris Abell, and Alessio Ciulli*

**Modulation of Thin Filament Activation of Myosin ATP Hydrolysis by N-Terminal Domains of Cardiac Myosin Binding Protein-C**

Betty Belknap, Samantha P. Harris, and Howard D. White*

