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ON THE COVER: Pictured is an overlay of 300 states of oxidized cytochrome *c*, starting from the "native" fully folded state to an unfolded state. Soffer et al. describe a previously unseen frustrated state of this protein produced under conditions that promote a misfolded ligation state of the heme iron. This image was rendered using PyMol (Schrödinger, LLC) [Soffer, J. B., et al. (2013) *Biochemistry* 52, 1397–1408].

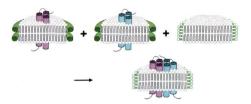
Articles

9405

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dx.doi.org/10.1021/bi401391c

Integral Membrane Protein Fragment Recombination after Transfer from Nanolipoprotein Particles to Bicelles Ginny Lai and Robert Renthal*



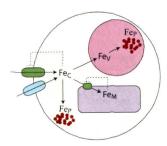
9413



dx.doi.org/10.1021/bi4010304

The Lack of Synchronization between Iron Uptake and Cell Growth Leads to Iron Overload in Saccharomyces cerevisiae during Post-exponential Growth Modes

Jinkyu Park, Sean P. McCormick, Mrinmoy Chakrabarti, and Paul A. Lindahl*





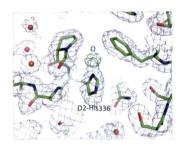
9426

8

dx.doi.org/10.1021/bi401213m

Evidence for an Unprecedented Histidine Hydroxyl Modification on D2-His336 in Photosystem II of Thermosynechoccocus vulcanus and Thermosynechoccocus elongatus

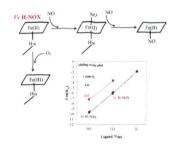
Miwa Sugiura,* Kazumi Koyama, Yasufumi Umena, Keisuke Kawakami, Jian-Ren Shen, Nobuo Kamiya, and Alain Boussac



9432

6 dx.doi.org/10.1021/bi401408x

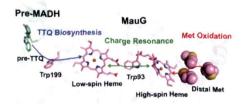
The Selectivity of Vibrio cholerae H-NOX for Gaseous Ligands Follows the "Sliding Scale Rule" Hypothesis. Ligand Interactions with both Ferrous and Ferric Vc H-NOX Gang Wu,* Wen Liu, Vladimir Berka, and Ah-lim Tsai*



9447

dx.doi.org/10.1021/bi401441h

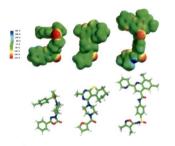
Oxidative Damage in MauG: Implications for the Control of High-Valent Iron Species and Radical Propagation Pathways Erik T. Yukl,* Heather R. Williamson, LeeAnn Higgins, Victor L. Davidson, and Carrie M. Wilmot*



9456

dx.doi.org/10.1021/bi4008885

Identification of the GPR55 Antagonist Binding Site Using a Novel Set of High-Potency GPR55 Selective Ligands Evangelia Kotsikorou, Haleli Sharir, Derek M. Shore, Dow P. Hurst, Diane L. Lynch, Karla E. Madrigal, Susanne Heynen-Genel. Loribelle B. Milan, Thomas D. Y. Chung, Herbert H. Seltzman, Yushi Bai, Marc G. Caron, Larry S. Barak, Mitchell P. Croatt, Mary E. Abood, and Patricia H. Reggio*

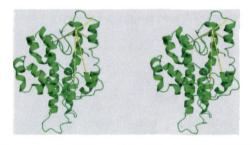


9470

dx.doi.org/10.1021/bi401080k

The Conformation of Lipid-Free Human Apolipoprotein A-I in Solution

Ricquita D. Pollard, Brian Fulp, Michael P. Samuel, Mary G. Sorci-Thomas,* and Michael J. Thomas*



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dx,doi.org/10.1021/bi401337k

Critical Evaluation of the Two-State Model Describing the Equilibrium Unfolding of the PI3K SH3 Domain by Time-Resolved Fluorescence Resonance Energy Transfer

Megha Kishore, G. Krishnamoorthy,* and Javant B. Udgaonkar*

