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# BIOCHEMISTRY

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# BIOCHEMISTRY

including biophysical chemistry & molecular biology

February 26, 2013  
Volume 52, Issue 8  
Pages 1303-1500

## ***Current Topics***

### ***The Quiet Renaissance of Protein Nuclear Magnetic Resonance***

Paul J. Barrett, Jiang Chen, Min-Kyu Cho, Ji-Hun Kim, Zhenwei Lu, Sijo Mathew, Dungeng Peng, Yuanli Song, Wade D. Van Horn, Tiandi Zhuang, Frank D. Sönnichsen, and Charles R. Sanders  
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**Publication Date (Web):** January 31, 2013 (Current Topic)

**DOI:** 10.1021/bi4000436

## ***Articles***

### ***[2Fe-2S] Proteins in Chlorosomes: CsmI and CsmJ Participate in Light-Dependent Control of Energy Transfer in Chlorosomes of Chlorobaculum tepidum***

Hui Li, Niels-Ulrik Frigaard, and Donald A. Bryant  
pp 1321–1330

**Publication Date (Web):** January 31, 2013 (Article)

**DOI:** 10.1021/bi301454g

 Section:

Plant Biochemistry

### ***[2Fe-2S] Proteins in Chlorosomes: Redox Properties of CsmI, CsmJ, and CsmX of the Chlorosome Envelope of Chlorobaculum tepidum***

T. Wade Johnson, Hui Li, Niels-Ulrik Frigaard, John H. Golbeck, and Donald A. Bryant  
pp 1331–1343

**Publication Date (Web):** January 31, 2013 (Article)

**DOI:** 10.1021/bi301455k

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Plant Biochemistry

### ***Most Methylation-Susceptible DNA Sequences in Human Embryonic Stem Cells Undergo a Change in Conformation or Flexibility upon Methylation***

Yasutoshi Shimooka, Jun-ichi Nishikawa, and Takashi Ohyama  
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**Publication Date (Web):** January 28, 2013 (Article)

**DOI:** 10.1021/bi301319y

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Irine Khutsishvili, Na Zhang, Luis A. Marky, Conor Crean, Dinshaw J. Patel, Nicholas E. Geacintov, and Vladimir Shafirovich

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**Publication Date (Web):** January 29, 2013 (Article)

**DOI:** 10.1021/bi301566v

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## ***The Crystal Structure of $\alpha$ -Dioxygenase Provides Insight into Diversity in the Cyclooxygenase-Peroxidase Superfamily***

Christopher C. Goulah, Guangyu Zhu, Mary Koszelak-Rosenblum, and Michael G. Malkowski

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**Publication Date (Web):** February 1, 2013 (Article)

**DOI:** 10.1021/bi400013k

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## ***Thermodynamic Effects of the Alteration of the Axial Ligand on the Unfolding of Thermostable Cytochrome c***

Rabindra Kumar Behera, Hiroshi Nakajima, Jitumani Rajbongshi, Yoshihito Watanabe, and Shyamalava Mazumdar

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**Publication Date (Web):** January 22, 2013 (Article)

**DOI:** 10.1021/bi300982v

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Carrie Hiser, Leann Buhrow, Jian Liu, Leslie Kuhn, and Shelagh Ferguson-Miller

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**Publication Date (Web):** January 27, 2013 (Article)

**DOI:** 10.1021/bi3014505

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Jonathan B. Soffer, Emma Fradkin, Leah A. Pandiscia, and Reinhard Schweitzer-Stenner

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**DOI:** 10.1021/bi301586e

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**DOI:** 10.1021/bi301613p

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**DOI:** 10.1021/bi301651n

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**DOI:** 10.1021/bi301349c

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***Mutagenesis of a Specificity-Determining Residue in Tyrosine Hydroxylase Establishes That the Enzyme Is a Robust Phenylalanine Hydroxylase but a Fragile Tyrosine Hydroxylase***

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 Section:

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**DOI:** 10.1021/bi3012687

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 Section:

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