

# BIOCHEMISTRY

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## CURRENT TOPICS

### Functional Anatomy of Complement Factor H

Elisavet Makou , Andrew P. Herbert , Paul N. Barlow

pp 3949-3962

Publication Date (Web): May 23, 2013 (Current Topic)

DOI: 10.1021/bi4003452

 Section:

Immunochemistry

## ACCELERATED PUBLICATIONS

### A Route from Darkness to Light: Emergence and Evolution of Luciferase Activity in AMP-CoA-Ligases Inferred from a Mealworm Luciferase-like Enzyme

V. R. Viviani, R. A. Prado, D. R. Neves, D. Kato, and J. A. Barbosa

pp 3963-3973

Publication Date (Web): May 24, 2013 (Accelerated Publication)

DOI: 10.1021/bi400141u

 Section:

Enzymes

## ARTICLES

### **The Lipid Bilayer-Inserted Membrane Protein BamA of *Escherichia coli* Facilitates Insertion and Folding of Outer Membrane Protein A from Its Complex with Skp**

Geetika J. Patel and Jörg H. Kleinschmidt

pp 3974-3986

Publication Date (Web): May 3, 2013 (Article)

DOI: 10.1021/bi400103t

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General Biochemistry

### **Solution Structures of the Linear Leaderless Bacteriocins Enterocin 7A and 7B Resemble Carnocyclin A, a Circular Antimicrobial Peptide**

Christopher T. Lohans, Kaitlyn M. Towle, Mark Miskolzie, Ryan T. McKay, Marco J. van Belkum, Lynn M. McMullen, and John C. Vederas

pp 3987-3994

Publication Date (Web): May 31, 2013 (Article)

DOI: 10.1021/bi400359z

 Section:

General Biochemistry

### **Tranilast Binds to A $\beta$ Monomers and Promotes A $\beta$ Fibrillation**

Christopher R. Connors, David J. Rosenman, Dahabada H. J. Lopes, Shivina Mittal, Gal Bitan, Mirco Sorci, Georges Belfort, Angel Garcia, and Chunyu Wang

pp 3995-4002

Publication Date (Web): May 16, 2013 (Article)

DOI: 10.1021/bi400426t

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### **Interactions between Cytochromes P450 2B4 (CYP2B4) and 1A2 (CYP1A2) Lead to Alterations in Toluene Disposition and P450 Uncoupling**

James R. Reed, George F. Cawley, and Wayne L. Backes

pp 4003-4013

Publication Date (Web): May 15, 2013 (Article)

DOI: 10.1021/bi400422a

Section:

Toxicology

### **The Monomeric Receptor Binding Domain of Tetrameric $\alpha_2$ -Macroglobulin Binds to Cell Surface GRP78 Triggering Equivalent Activation of Signaling Cascades**

Uma Kant Misra, Sturgis Payne, and Salvatore Vincent Pizzo

pp 4014-4025

Publication Date (Web): May 20, 2013 (Article)

DOI: 10.1021/bi400376s

Section:

Mammalian Pathological Biochemistry

### **Discrete Interactions between Bacteriophage T7 Primase-Helicase and DNA Polymerase Drive the Formation of a Priming Complex Containing Two Copies of DNA Polymerase**

Jamie R. Wallen, Jerzy Majka, and Tom Ellenberger

pp 4026-4036

Publication Date (Web): May 15, 2013 (Article)

DOI: 10.1021/bi400284j

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Biochemical Genetics

### **Reversal of the Substrate Specificity of CMP *N*-Glycosidase to dCMP**

Megan D. Sikowitz, Lisa E. Cooper, Tadhg P. Begley, Pierre Alexandre Kaminski, and Steven E. Ealick

pp 4037-4047

Publication Date (Web): May 9, 2013 (Article)

DOI: 10.1021/bi400316p

 Section:

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**Investigation of NADH Binding, Hydride Transfer, and NAD<sup>+</sup> Dissociation during NADH Oxidation by Mitochondrial Complex I Using Modified Nicotinamide Nucleotides**

James A. Birrell and Judy Hirst

pp 4048-4055

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**The Crystal Structure of *Mycobacterium tuberculosis* NrdH at 0.87 Å Suggests a Possible Mode of Its Activity**

Swastik Phulera and Shekhar C. Mande

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Publication Date (Web): May 15, 2013 (Article)

DOI: 10.1021/bi400191z

 Section:

General Biochemistry

**DNA-*N*-Glycosylases Process Novel *O*-Glycosidic Sites in DNA**

Suzanne J. Admiraal and Patrick J. O'Brien

pp 4066-4074

Publication Date (Web): May 20, 2013 (Article)

DOI: 10.1021/bi400218j

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## **Kinetics of O<sup>6</sup>-Pyridyloxobutyl-2'-deoxyguanosine Repair by Human O<sup>6</sup>-alkylguanine DNA Alkyltransferase**

Delshanee Kotandeniya, Daniel Murphy, Shuo Yan, Soobong Park, Uthpala Seneviratne, Joseph S. Koopmeiners, Anthony Pegg, Sreenivas Kanugula, Fekadu Kassie, and Natalia Tretyakova

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Publication Date (Web): May 17, 2013 (Article)

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## **Protected Sulfur Transfer Reactions by the *Escherichia coli* Suf System**

Bruna P. Selbach, Pradyumna K. Pradhan, and Patricia C. Dos Santos

pp 4089-4096

Publication Date (Web): May 14, 2013 (Article)

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Section:

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## **Kinetic Characterization of Hydrolysis of Nitrocefin, Cefoxitin, and Meropenem by $\beta$ -Lactamase from *Mycobacterium tuberculosis***

Carmen Chow, Hua Xu, and John S. Blanchard

pp 4097-4104

Publication Date (Web): May 14, 2013 (Article)

DOI: 10.1021/bi400177y

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## **ADDITIONS AND CORRECTIONS**

**Correction to Metal Binding Properties of *Escherichia coli* YjiA, a Member of the Metal Homeostasis-Associated COG0523 Family of GTPases**

Andrew M. Sydor, Marco Jost, Katherine S. Ryan, Kaitlyn E. Turo, Colin D. Douglas, Catherine L. Drennan, and Deborah B. Zamble

pp 4105-4105

**Publication Date (Web):** May 24, 2013 (Addition/Correction)

**DOI:** 10.1021/bi4006094

