

June 12, 2012

Volume 51, Issue 23

Pages 4627-4772

## RAPID REPORTS

### Association of Neonicotinoid Insensitivity with a Conserved Residue in the Loop D Binding Region of the Tick Nicotinic Acetylcholine Receptor

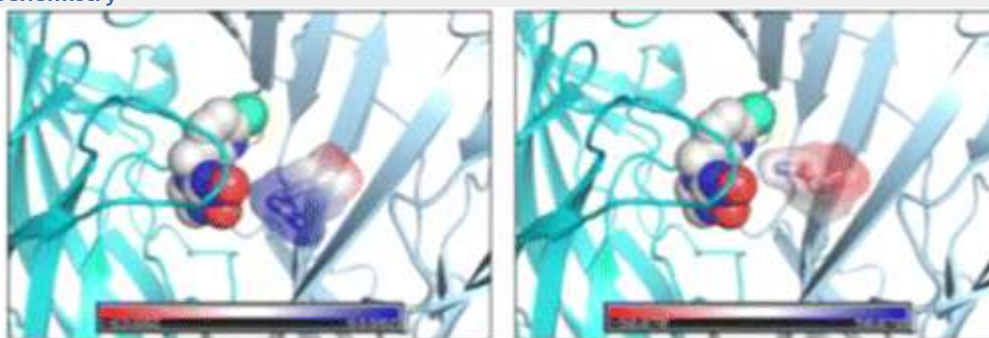
Laura Erdmanis, Andrias O. O'Reilly, Martin S. Williamson, Linda M. Field, Andreas Turberg, and B. A. Wallace

pp 4627-4629

Publication Date (Web): May 28, 2012 (Rapid Report)

DOI: 10.1021/bi300522s

Section:  
General Biochemistry



### Orotidine 5'-Monophosphate Decarboxylase: Transition State Stabilization from Remote Protein-Phosphodianion Interactions

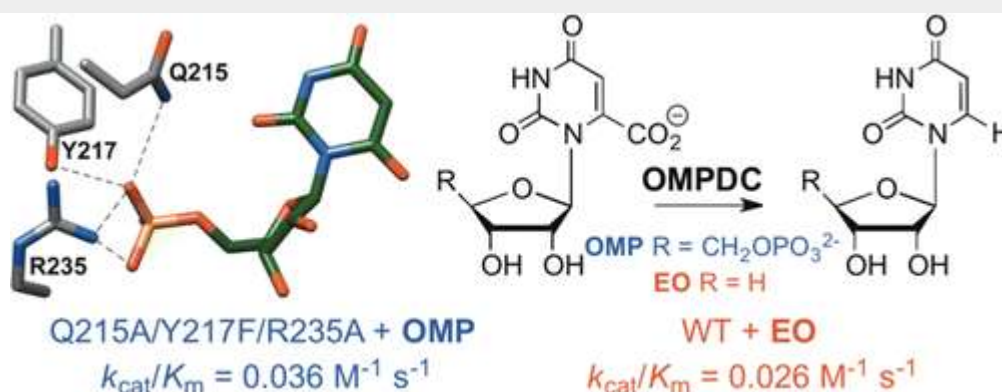
Tina L. Amyes, Shonoi A. Ming, Lawrence M. Goldman, B. McKay Wood, Bijoy J. Desai, John A. Gerlt, and John P. Richard

pp 4630-4632

Publication Date (Web): May 24, 2012 (Rapid Report)

DOI: 10.1021/bi300585e

Section:  
Enzymes



## NEW CONCEPTS

## Role of Apolipoprotein A-II in the Structure and Remodeling of Human High-Density Lipoprotein (HDL): Protein Conformational Ensemble on HDL

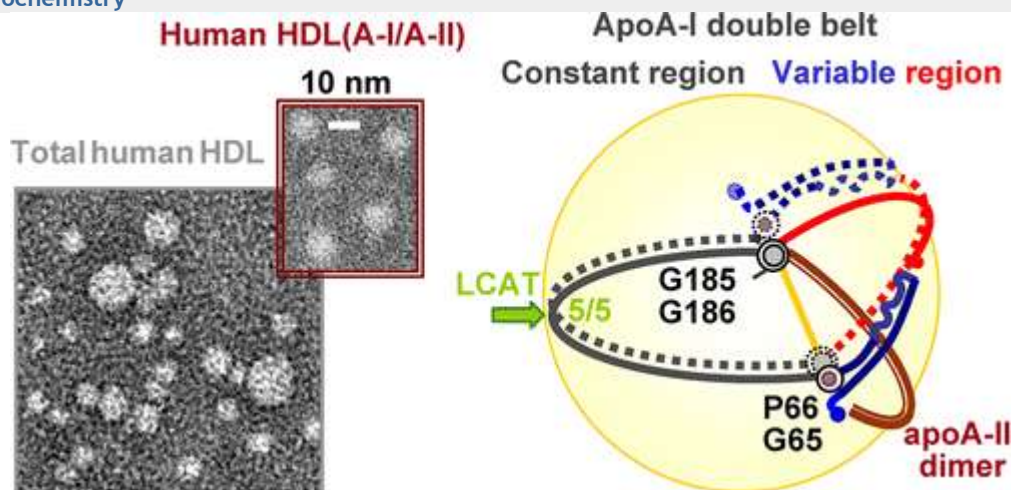
Xuan Gao, Shujun Yuan, Shobini Jayaraman, and Olga Gursky

pp 4633-4641

Publication Date (Web): May 25, 2012 (New Concept)

DOI: 10.1021/bi300555d

CCS Section:  
General Biochemistry



### ACCELERATED PUBLICATIONS

## Dissection of Events in the Resistance to $\beta$ -Lactam Antibiotics Mediated by the Protein BlaR1 from *Staphylococcus aureus*

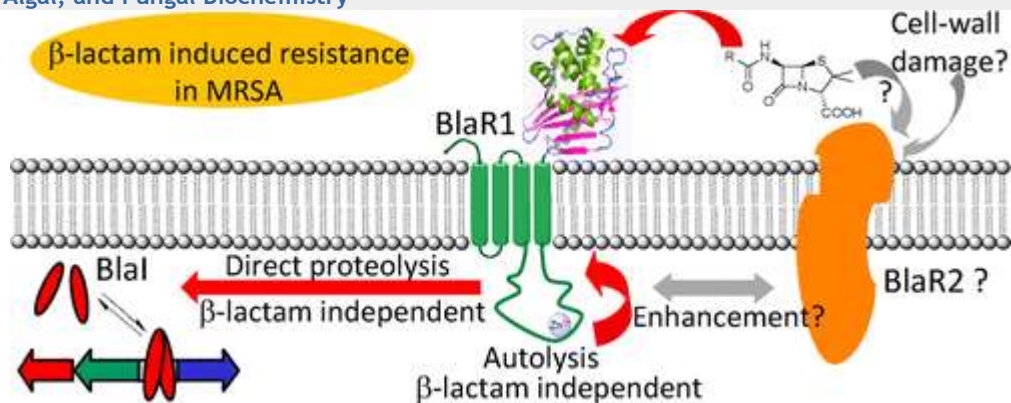
Leticia I. Llarrull and Shahriar Mobashery

pp 4642-4649

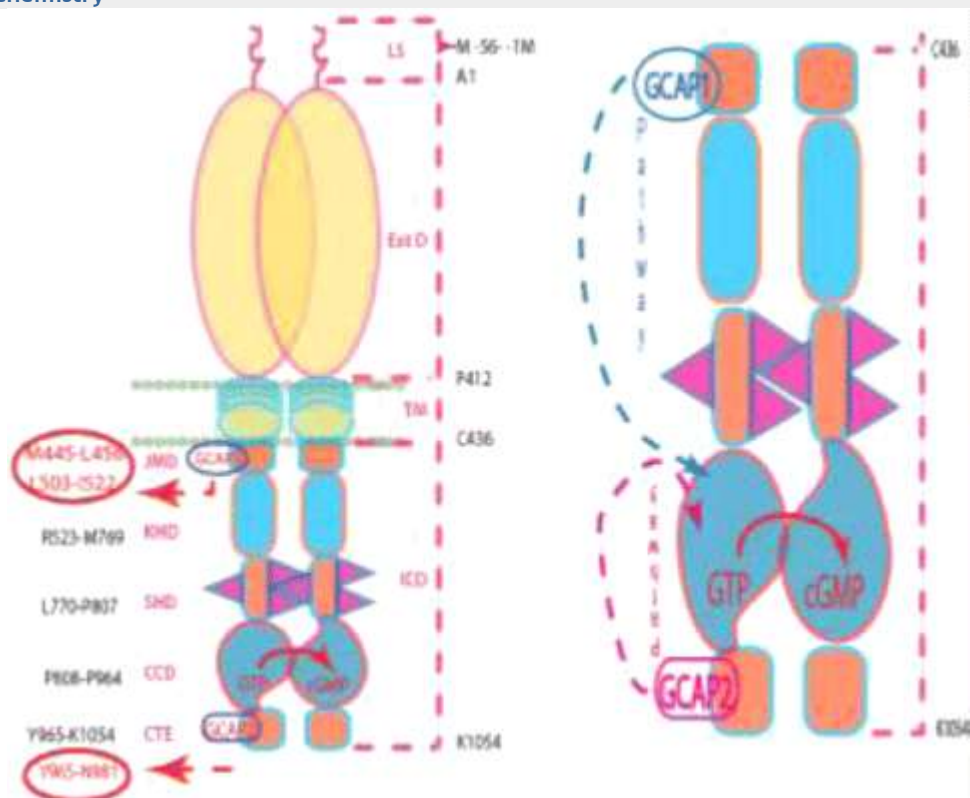
Publication Date (Web): May 22, 2012 (Accelerated Publication)

DOI: 10.1021/bi300429p

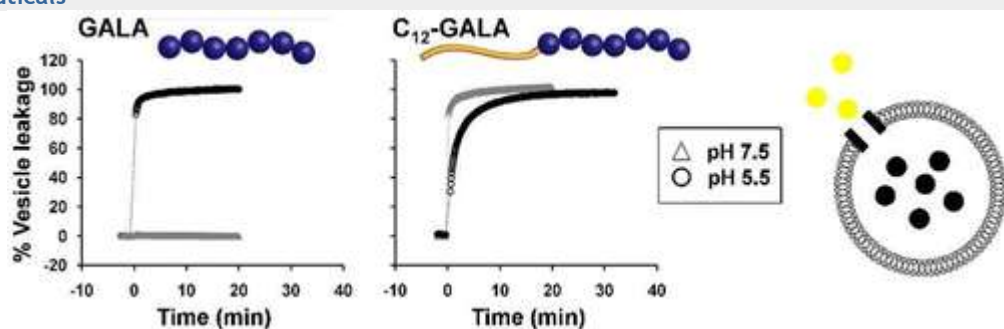
CCS Section:  
Microbial, Algal, and Fungal Biochemistry



**CAS**Section:  
**General Biochemistry**



**COS** Section:  
**Pharmaceuticals**



## Mobility of Xe Atoms within the Oxygen Diffusion Channel of Cytochrome *ba*<sub>3</sub>Oxidase

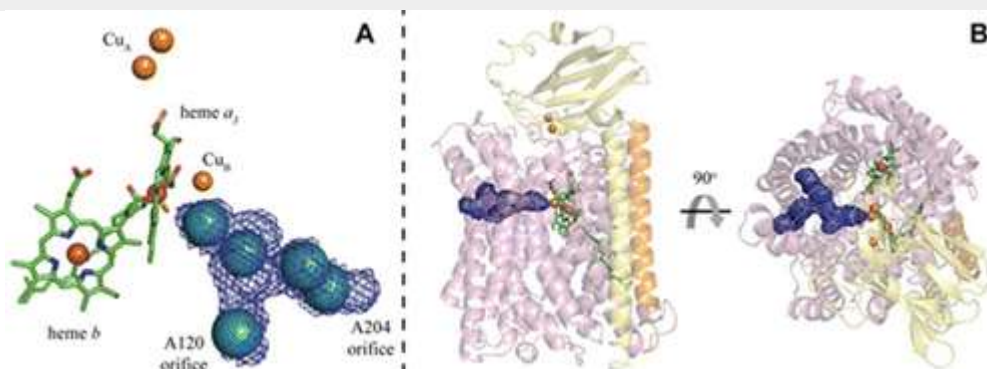
V. Mitch Luna, James A. Fee, Ashok A. Deniz, and C. David Stout

pp 4669-4676

Publication Date (Web): May 19, 2012 (Article)

DOI: 10.1021/bi3003988

CCS Section:  
Enzymes



## Protein-Bound Water as the Determinant of Asymmetric Functional Conversion between Light-Driven Proton and Chloride Pumps

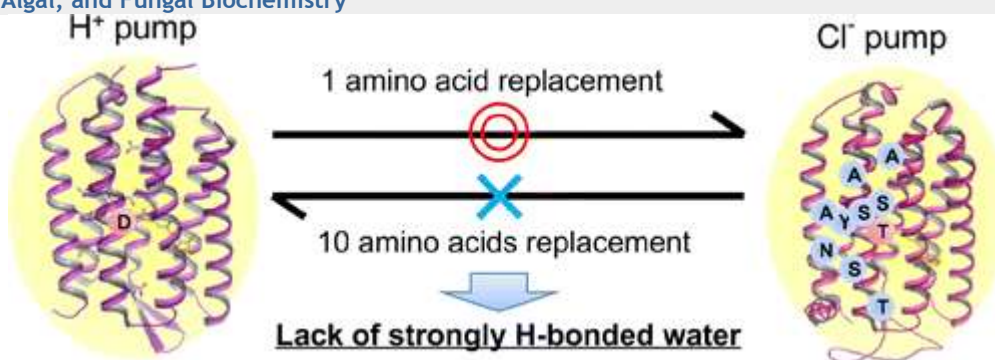
Kosuke Muroda, Keisuke Nakashima, Mikihiro Shibata, Makoto Demura, and Hideki Kandori

pp 4677-4684

Publication Date (Web): May 14, 2012 (Article)

DOI: 10.1021/bi300485r

CCS Section:  
Microbial, Algal, and Fungal Biochemistry





## Conantokins Derived from the *Asprella* Clade Impart conRI-B, an *N*-Methyl D-Aspartate Receptor Antagonist with a Unique Selectivity Profile for NR2B Subunits

Konkallu Hanumae Gowd, Tiffany S. Han, Vernon Twede, Joanna Gajewiak, Misty D. Smith, Maren Watkins, Randall J. Platt, Gabriela Toledo, H. Steve White, Baldomero M. Olivera, and Grzegorz Bulaj

pp 4685-4692

Publication Date (Web): May 18, 2012 (Article)

DOI: 10.1021/bi300055n

CCS  
Section:  
Pharmacology



## Selective NMDA receptor antagonist

### Ascorbic Acid Reduction of Compound I of Mammalian Catalases Proceeds via Specific Binding to the NADPH Binding Pocket

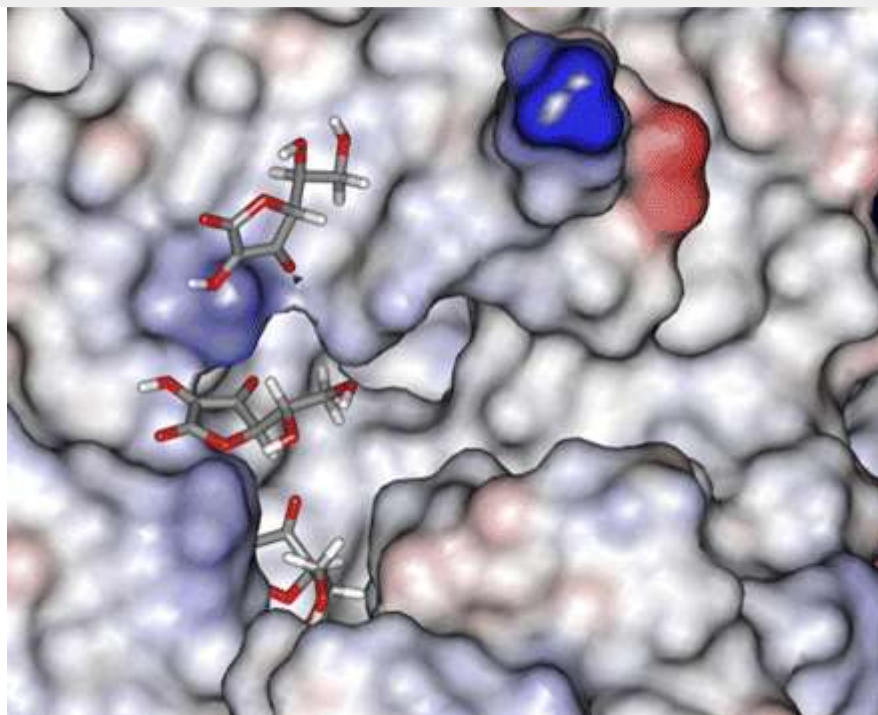
Hans-Gert Korth, Ann-Cathérine Meier, Oliver Auferkamp, Willi Sicking, Herbert de Groot, Reiner Sustmann, and Michael Kirsch

pp 4693-4703

Publication Date (Web): May 22, 2012 (Article)

DOI: 10.1021/bi2017602

CCS  
Section:  
Enzymes



## Conversion of a Dodecahedral Protein Capsid into Pentamers via Minimal Point Mutations

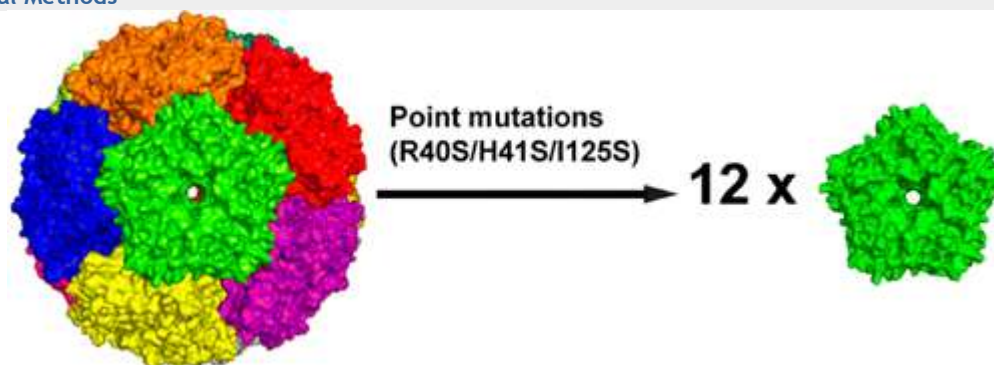
Hsiao-Nung Chen and Kenneth J. Woycechowsky

pp 4704-4712

Publication Date (Web): May 18, 2012 (Article)

DOI: 10.1021/bi3003555

CCS Section:  
Biochemical Methods



## Biochemical and Structural Basis for Inhibition of *Enterococcus*

*faecalis* Hydroxymethylglutaryl-CoA Synthase, *mvaS*, by Hymeglusin

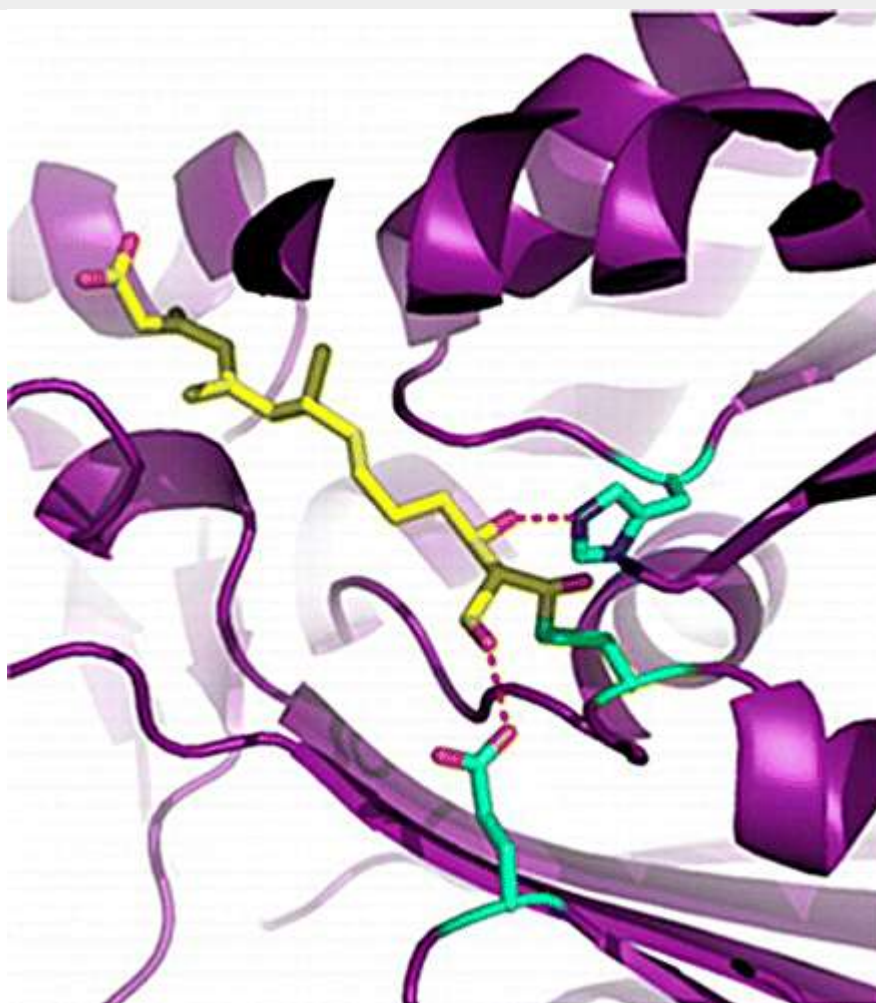
D. Andrew Skaff, Kasra X. Ramyar, William J. McWhorter, Michael L. Barta, Brian V. Geisbrecht, and Henry M. Miziorko

pp 4713-4722

Publication Date (Web): April 17, 2012 (Article)

DOI: 10.1021/bi300037k

CCS Section:  
Enzymes



## Four-State Folding of a SH3 Domain: Salt-Induced Modulation of the Stabilities of the Intermediates and Native State

Amrita Dasgupta and Jayant B. Udgaonkar

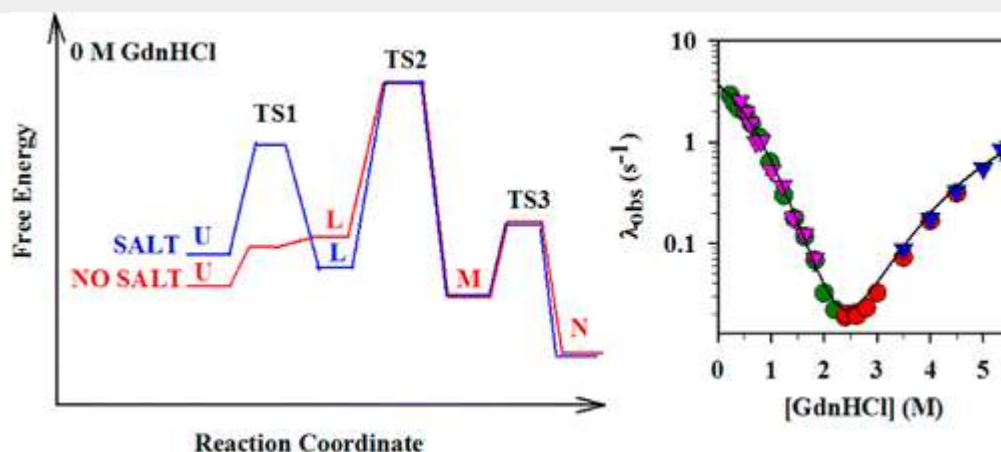
pp 4723-4734

Publication Date (Web): May 30, 2012 (Article)

DOI: 10.1021/bi300223b

Section:

Enzymes



## Human Complement C3 Is a Substrate for Transglutaminases. A Functional Link between Non-Protease-Based Members of the Coagulation and Complement Cascades

Camilla Lund Nikolajsen, Carsten Scavenius, and Jan J. Enghild

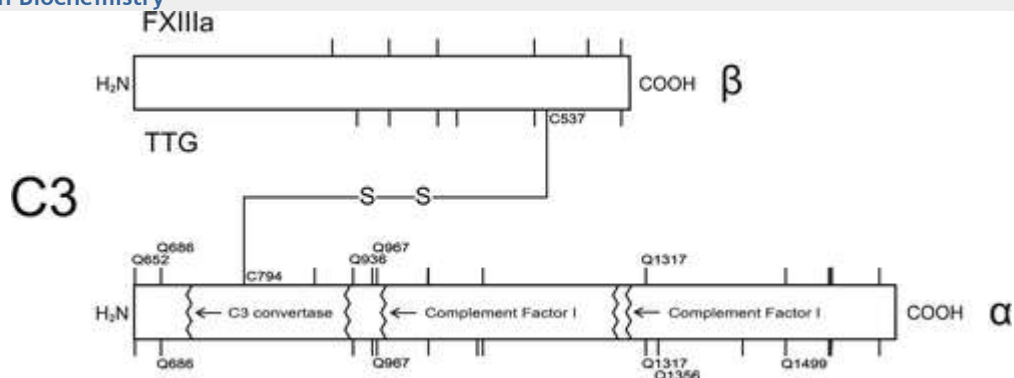
pp 4735-4742

Publication Date (Web): May 25, 2012 (Article)

DOI: 10.1021/bi3004022

Section:

Mammalian Biochemistry



## $\gamma$ -Synuclein: Seeding of $\alpha$ -Synuclein Aggregation and Transmission between Cells

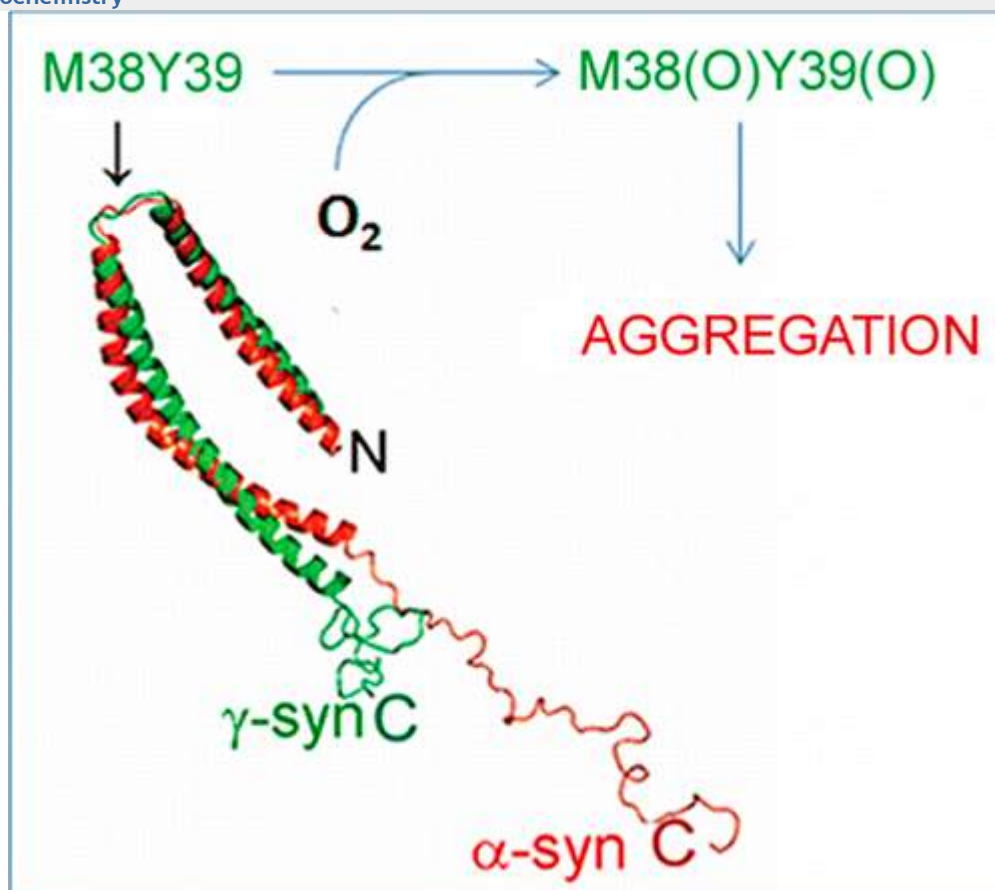
Irina Surgucheva, Victor S. Sharov, and Andrei Surguchov

pp 4743-4754

Publication Date (Web): May 23, 2012 (Article)

DOI: 10.1021/bi300478w

CCS  
Section:  
General Biochemistry





## Conformational Properties of Nine Purified Cystathionine $\beta$ -Synthase Mutants

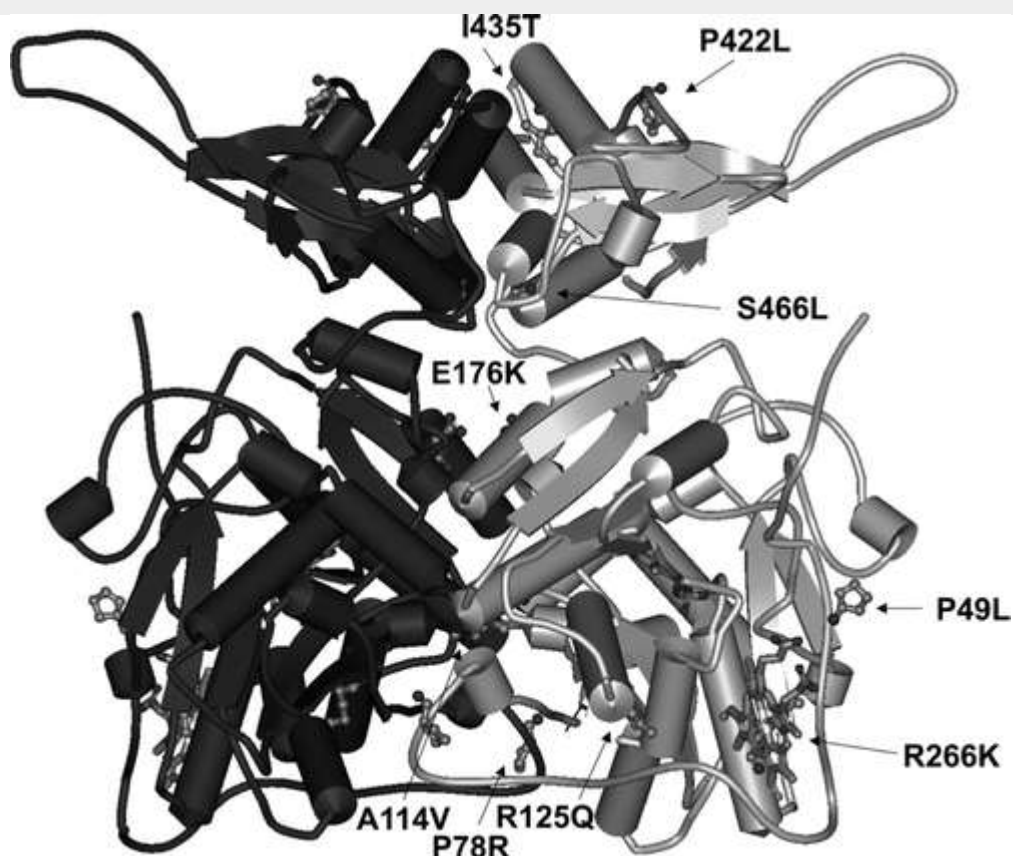
Aleš Hnízda, Tomas Majtan, Lu Liu, Angel L. Pey, John F. Carpenter, Milan Kодиček, Viktor Kožich, and Jan P. Kraus

pp 4755-4763

Publication Date (Web): May 21, 2012 (Article)

DOI: 10.1021/bi300435e

CCS Section:  
Enzymes



## Discovery and Biochemical Characterization of *Plasmodium* Thioredoxin Reductase Inhibitors from an Antimalarial Set

Andrew J. Theobald, Iván Caballero, Isabel Coma, Gonzalo Colmenarejo, Concepcion Cid, Francisco-Javier Gamo, Martin J. Hibbs, Amy L. Bass, and Daniel A. Thomas

pp 4764-4771

Publication Date (Web): May 21, 2012 (Article)

DOI: 10.1021/bi3005076

CCS Section:  
Pharmacology

