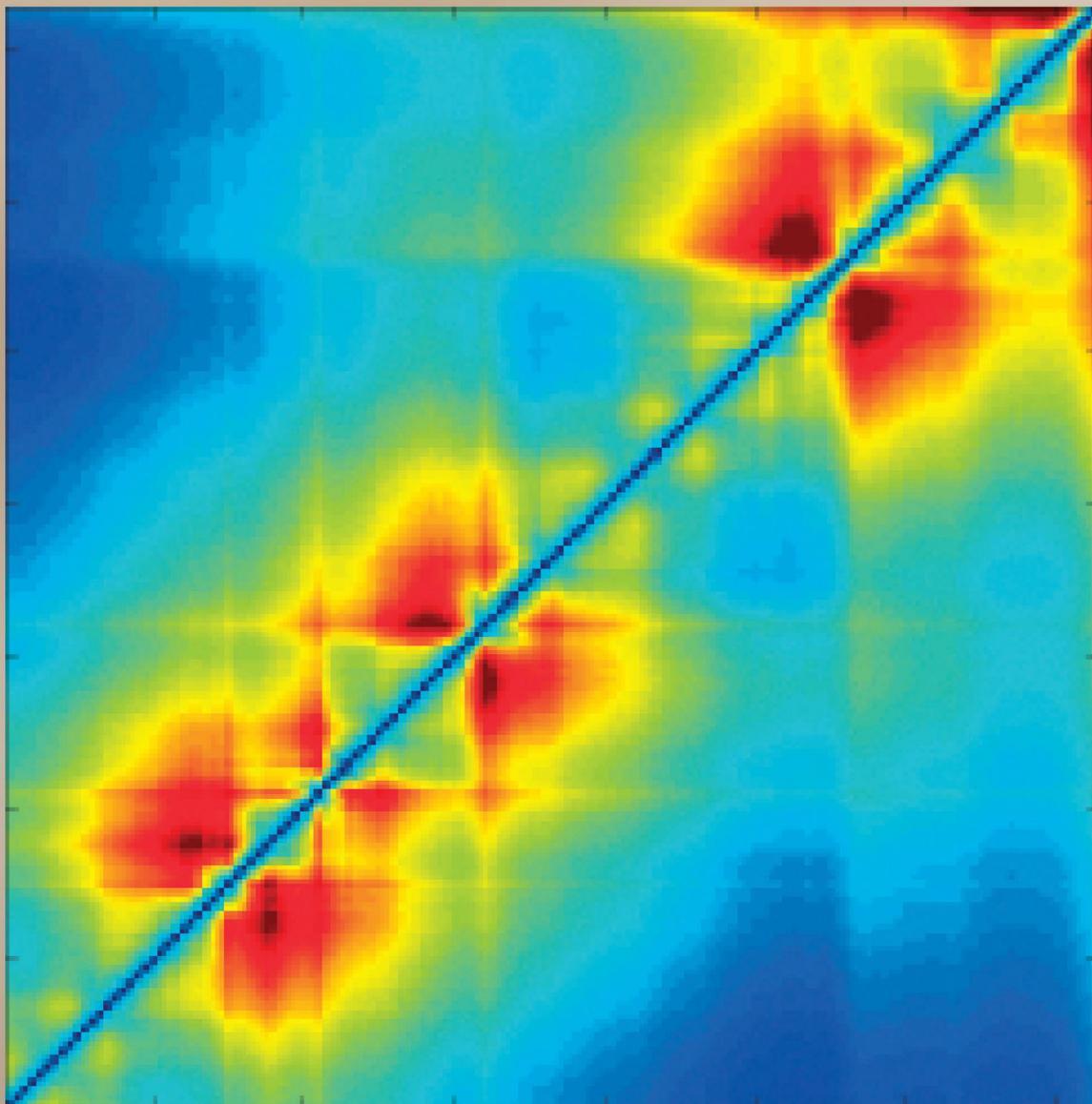


BIOCHEMISTRY

including biophysical chemistry & molecular biology

MARCH 10, 2015 • VOLUME 54 NUMBER 9

pubs.acs.org/biochemistry



ACS Publications
Most Trusted. Most Cited. Most Read.

www.acs.org

BIOCHEMISTRY

including biophysical chemistry & molecular biology

March 10, 2015 Volume 54, Issue 9 Pages 1709-1858

Content

1. The Negative Charge of the Membrane Has Opposite Effects on the Membrane Entry and Exit of pH-Low Insertion Peptide

Haden L. Scott, Vanessa P. Nguyen, Daiane S. Alves, Forrest L. Davis, Kristen R. Booth, Jordan Bryner, and Francisco N. Barrera

Biochemistry 2015 54 (9), 1709-1712

2. Analysis of the Radiation-Damage-Free X-ray Structure of Photosystem II in Light of EXAFS and QM/MM Data

Mikhail Askerka, David J. Vinyard, Jimin Wang, Gary W. Brudvig, and Victor S. Batista

Biochemistry 2015 54 (9), 1713-1716

3. Multiple Structural States Exist Throughout the Helical Nucleation Sequence of the Intrinsically Disordered Protein Stathmin, As Reported by Electron Paramagnetic Resonance Spectroscopy

Ashley J. Chui, Carlos J. López, Evan K. Brooks, Katherina C. Chua, Tonia G. Doupey, Gretchen N. Foltz, Joseph G. Kamel, Estefania Larrosa, Amissi Sadiki, and Michael D. Bridges

Biochemistry 2015 54 (9), 1717-1728

4. Effect of an Ala81His Mutation on the Met80 Loop Dynamics of Iso-1-cytochrome c

Swati Bandi and Bruce E. Bowler

Biochemistry 2015 54 (9), 1729-1742

5. The Maize (*Zea mays* L.) Nucleoside Diphosphate Kinase1 (ZmNDPK1) Gene Encodes a Human NM23-H2 Homologue That Binds and Stabilizes G-Quadruplex DNA

Mykhailo Kopylov, Hank W. Bass, and M. Elizabeth Stroupe

Biochemistry 2015 54 (9), 1743-1757

6. Fast Helix Formation in the B Domain of Protein A Revealed by Site-Specific Infrared Probes

Caitlin M. Davis, A. Kat Cooper, and R. Brian Dyer

Biochemistry 2015 54 (9), 1758-1766

7. Visualizing Attack of *Escherichia coli* by the Antimicrobial Peptide Human Defensin 5

Haritha R. Chileveru, Shion A. Lim, Phoom Chairatana, Andrew J. Wommack, I-Ling Chiang, and Elizabeth M. Nolan

Biochemistry 2015 54 (9), 1767-1777

8. Mechanistic Insights into the Lipid Interaction of an Ancient Saposin-like Protein

Matthias Michalek and Matthias Leippe
Biochemistry 2015 54 (9), 1778-1786

9. Identification of Destabilizing and Stabilizing Mutations of Ste2p, a G Protein-Coupled Receptor in *Saccharomyces cerevisiae*

Jeffrey Zuber, Shairy Azmy Danial, Sara M. Connelly, Fred Naider, and Mark E. Dumont
Biochemistry 2015 54 (9), 1787-1806

10. [FeFe]-Hydrogenase Maturation: Insights into the Role HydE Plays in Dithiomethylamine Biosynthesis

Jeremiah N. Betz, Nicholas W. Boswell, Corey J. Fugate, Gemma L. Holliday, Eyal Akiva, Anna G. Scott, Patricia C. Babbitt, John W. Peters, Eric M. Shepard, and Joan B. Broderick
Biochemistry 2015 54 (9), 1807-1818

11. Tryptophan-Dependent Membrane Interaction and Heteromerization with the Internal Fusion Peptide by the Membrane Proximal External Region of SARS-CoV Spike Protein

Ying Liao, Si Min Zhang, Tuan Ling Neo, and James P. Tam
Biochemistry 2015 54 (9), 1819-1830

12. β -Amyloid and α -Synuclein Cooperate To Block SNARE-Dependent Vesicle Fusion

Bong-Kyu Choi, Jae-Yeol Kim, Moon-Yong Cha, Inhee Mook-Jung, Yeon-Kyun Shin, and Nam Ki Lee
Biochemistry 2015 54 (9), 1831-1840

13. Molecular Dynamics Investigation of the Substrate Binding Mechanism in Carboxylesterase

Qi Chen, Zheng-Jiao Luan, Xiaolin Cheng, and Jian-He Xu
Biochemistry 2015 54 (9), 1841-1848

14. Base Excision Repair Enzymes Protect Abasic Sites in Duplex DNA from Interstrand Cross-Links

Suzanne J. Admiraal and Patrick J. O'Brien
Biochemistry 2015 54 (9), 1849-1857