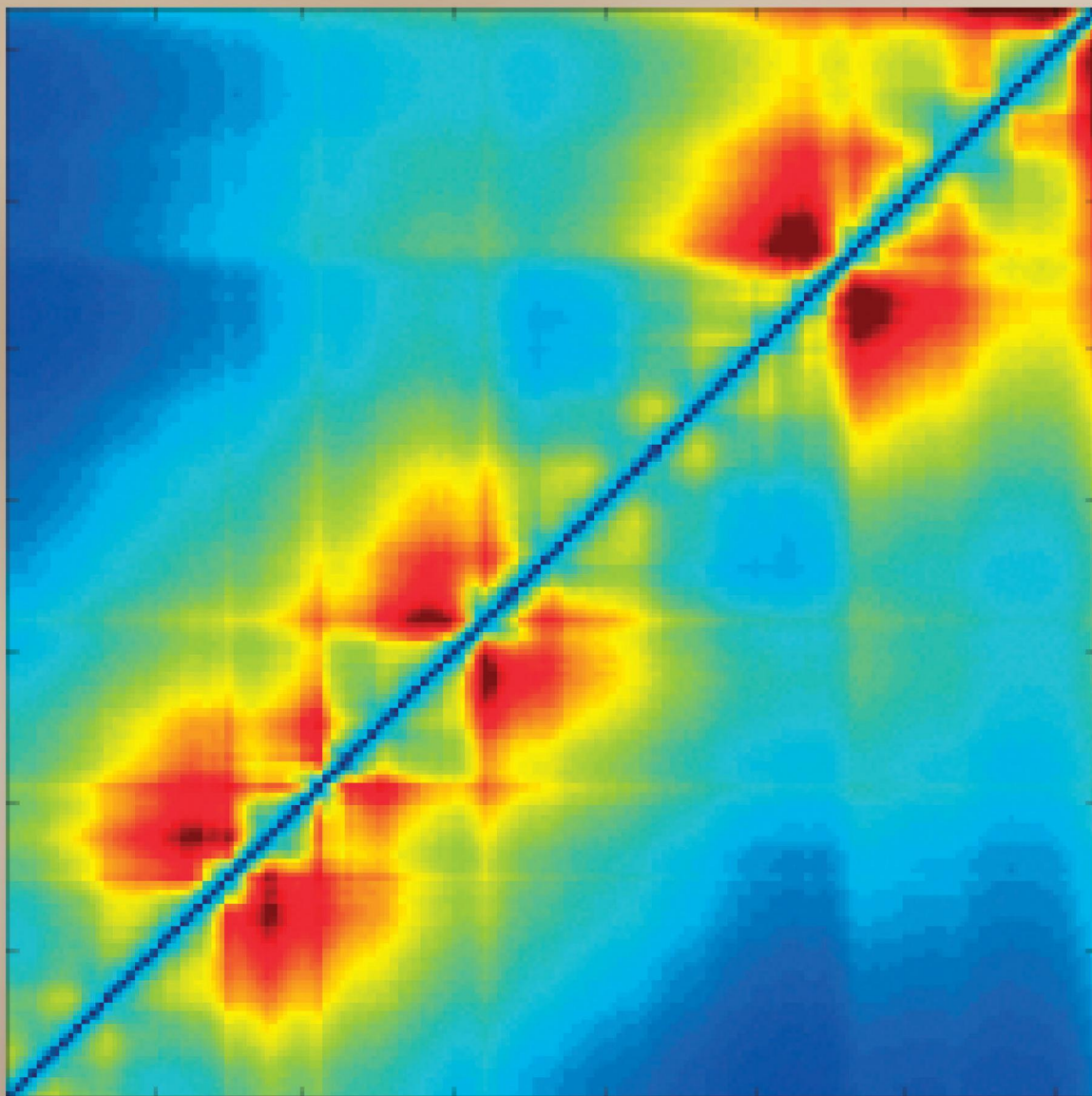


BIOCHEMISTRY

including biophysical chemistry & molecular biology

MARCH 17, 2015 • VOLUME 54 NUMBER 10

pubs.acs.org/biochemistry



ACS Publications
Most Trusted. Most Cited. Most Read.

www.acs.org

March 17, 2015 Volume 54, Issue 10 Pages 1859-1988

Content

- 1. Unlike Catalyzing Error-Free Bypass of 8-OxodGuo, DNA Polymerase λ Is Responsible for a Significant Part of Fapy-dG-Induced G \rightarrow T Mutations in Human Cells**
Paritosh Pande, Kazuhiro Haraguchi, Yu-Lin Jiang, Marc M. Greenberg, and Ashis K. Basu
Biochemistry 2015 54 (10), 1859-1862
DOI: 10.1021/acs.biochem.5b00119
- 2. Moving Protons and Electrons in Biomimetic Systems**
Jeffrey J. Warren and James M. Mayer
Biochemistry 2015 54 (10), 1863-1878
DOI: 10.1021/acs.biochem.5b00025
- 3. An Independently Folding RNA G-Quadruplex Domain Directly Recruits the 40S Ribosomal Subunit**
Debmalya Bhattacharyya, Paige Diamond, and Soumitra Basu
Biochemistry 2015 54 (10), 1879-1885
DOI: 10.1021/acs.biochem.5b00091
- 4. Effect of Loop Composition on the Stability and Folding Kinetics of RNA Hairpins with Large Loops**
Artem V. Melnykov, Rajesh K. Nayak, Kathleen B. Hall, and Alan Van Orden
Biochemistry 2015 54 (10), 1886-1896
DOI: 10.1021/bi5014276
- 5. Detergent-Type Membrane Fragmentation by MSI-78, MSI-367, MSI-594, and MSI-843 Antimicrobial Peptides and Inhibition by Cholesterol: A Solid-State Nuclear Magnetic Resonance Study**
Dong-Kuk Lee, Anirban Bhunia, Samuel A. Kotler, and Ayyalusamy Ramamoorthy
Biochemistry 2015 54 (10), 1897-1907
DOI: 10.1021/bi501418m
- 6. Overexpression in Yeast, Photocycle, and in Vitro Structural Change of an Avian Putative Magnetoreceptor Cryptochrome4**
Hiromasa Mitsui, Toshinori Maeda, Chiaki Yamaguchi, Yusuke Tsuji, Ryuji Watari, Yoko Kubo, Keiko Okano, and Toshiyuki Okano
Biochemistry 2015 54 (10), 1908-1917
DOI: 10.1021/bi501441u
- 7. Characterization of Binding Mode of Action of a Blocking Anti-Platelet-Derived Growth Factor (PDGF)-B Monoclonal Antibody, MOR8457, Reveals Conformational Flexibility and Avidity Needed for PDGF-BB To Bind PDGF Receptor- β**
Jun Kuai, Lidia Mosyak, Jon Brooks, Michael Cain, Gregory J. Carven, Shinji Ogawa, Tetsuya Ishino, May Tam, Edward R. Lavallie, Zhiyong Yang, Dirk Ponsel, Robert Rauchenberger, Robert Arch, and Nick Pullen
Biochemistry 2015 54 (10), 1918-1929
DOI: 10.1021/bi5015425

- 8. Structural Basis for Xyloglucan Specificity and α -d-Xylp(1 \rightarrow 6)-d-Glcp Recognition at the -1 Subsite within the GH5 Family**
Camila Ramos dos Santos, Rosa Lorizolla Cordeiro, Dominic W. S. Wong, and Mario Tyago Murakami
Biochemistry **2015** 54 (10), 1930-1942
DOI: 10.1021/acs.biochem.5b00011
- 9. An Ordered Water Channel in *Staphylococcus aureus* FabI: Unraveling the Mechanism of Substrate Recognition and Reduction**
Johannes Schiebel, Andrew Chang, Benjamin Merget, Gopal R. Bommineni, Weixuan Yu, Lauren A. Spagnuolo, Michael V. Baxter, Mona Tareilus, Peter J. Tonge, Caroline Kisker, and Christoph A. Sotriffer
Biochemistry **2015** 54 (10), 1943-1955
DOI: 10.1021/bi5014358
- 10. Conformational Difference in Human IgG2 Disulfide Isoforms Revealed by Hydrogen/Deuterium Exchange Mass Spectrometry**
Aming Zhang, Jing Fang, Robert Y.-T. Chou, Pavel V. Bondarenko, and Zhongqi Zhang
Biochemistry **2015** 54 (10), 1956-1962
DOI: 10.1021/bi5015216
- 11. Omecamtiv Mecarbil Modulates the Kinetic and Motile Properties of Porcine β -Cardiac Myosin**
Yingying Liu, Howard D. White, Betty Belknap, Donald A. Winkelmann, and Eva Forgacs
Biochemistry **2015** 54 (10), 1963-1975
DOI: 10.1021/bi5015166
- 12. Structural Basis of Activity against Aztreonam and Extended Spectrum Cephalosporins for Two Carbapenem-Hydrolyzing Class D β -Lactamases from *Acinetobacter baumannii***
Joshua M. Mitchell, Jozlyn R. Clasman, Cynthia M. June, Kip-Chumba J. Kaitany, James R. LaFleur, Magdalena A. Taracila, Neil V. Klinger, Robert A. Bonomo, Troy Wymore, Agnieszka Szarecka, Rachel A. Powers, and David A. Leonard
Biochemistry **2015** 54 (10), 1976-1987
DOI: 10.1021/bi501547k