

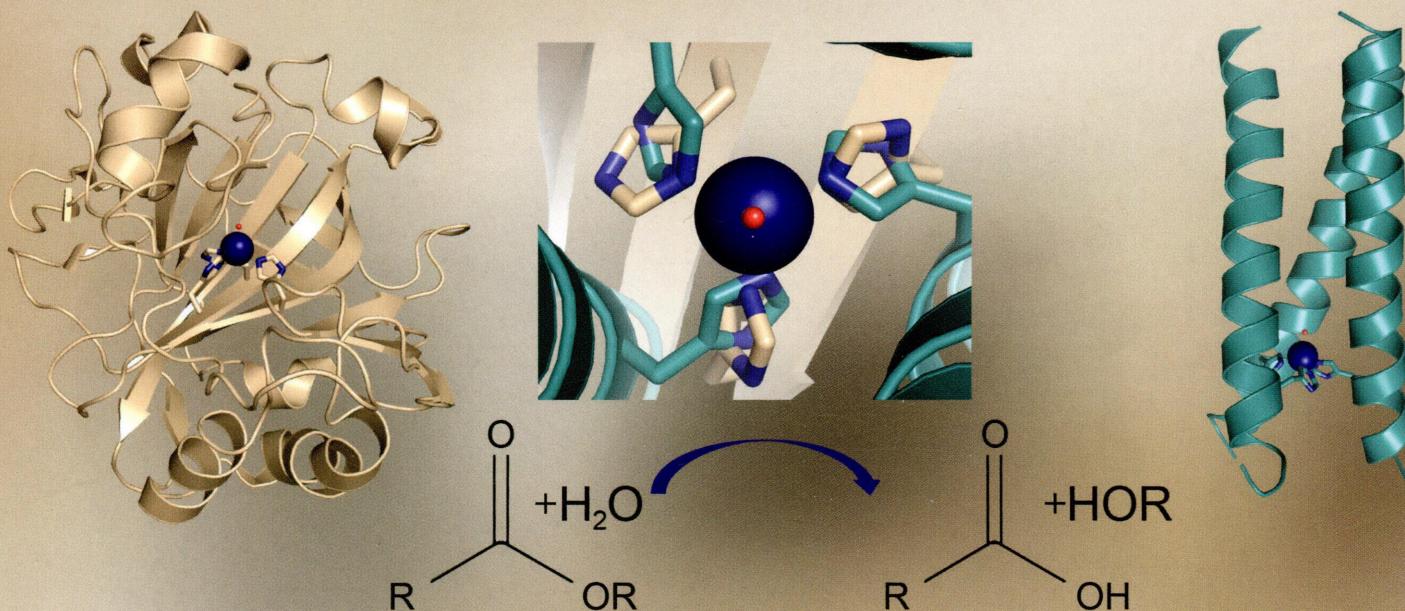
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ON THE COVER: Using de novo and redesign approaches toward the preparation of structural and functional models of hydrolytic zinc metalloenzymes. [Zastrow, M. L., and Pecoraro, V. L. (2014) *Biochemistry* 53, 957–978]

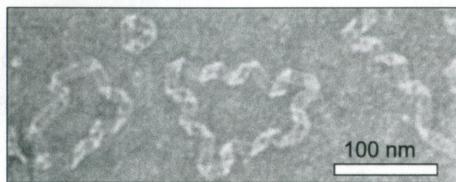
Rapid Reports

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Amyloid Triangles, Squares, and Loops of Apolipoprotein C-III
Michel de Messieres, Rick K. Huang, Yi He, and Jennifer C. Lee*

[dx.doi.org/10.1021/bi500502d](https://doi.org/10.1021/bi500502d)

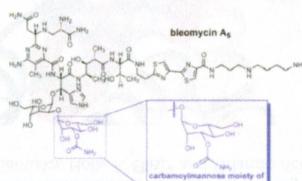


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The Carbamoylmannose Moiety of Bleomycin Mediates Selective Tumor Cell Targeting
Chandrabali Bhattacharya, Zhiqiang Yu, Michael J. Rishel, and Sidney M. Hecht*

[dx.doi.org/10.1021/bi500482q](https://doi.org/10.1021/bi500482q)



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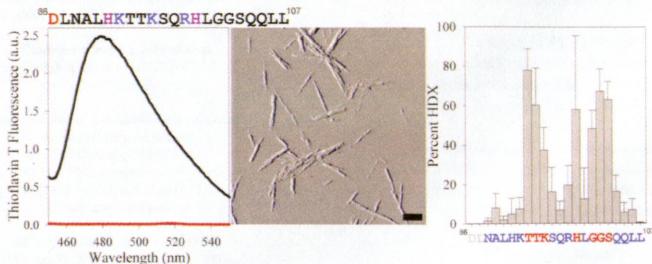
3267



dx.doi.org/10.1021/bi500427r

Structural Characterization of Semen Coagulum-Derived SEM1(86–107) Amyloid Fibrils That Enhance HIV-1 Infection

Kinsley C. French, Nadia R. Roan, and George I. Makhadze*



Articles

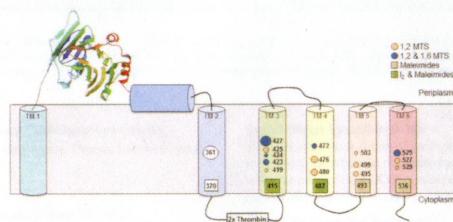
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dx.doi.org/10.1021/bi500257u

Cross-Linking-Based Flexibility and Proximity Relationships between the TM Segments of the *Escherichia coli* YidC

Seth W. Hennon and Ross E. Dalbey*



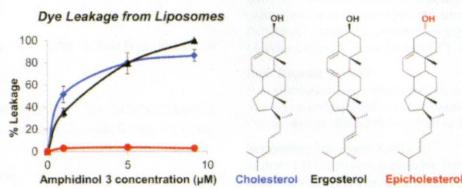
3287



dx.doi.org/10.1021/bi5002932

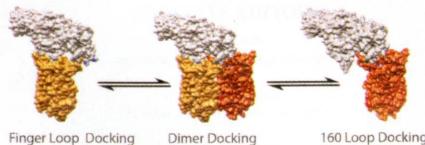
Direct and Stereospecific Interaction of Amphidinol 3 with Sterol in Lipid Bilayers

Rafael Atilio Espiritu, Nobuaki Matsumori,* Masashi Tsuda, and Michio Murata*



Rhodopsin TM6 Can Interact with Two Separate and Distinct Sites on Arrestin: Evidence for Structural Plasticity and Multiple Docking Modes in Arrestin–Rhodopsin Binding

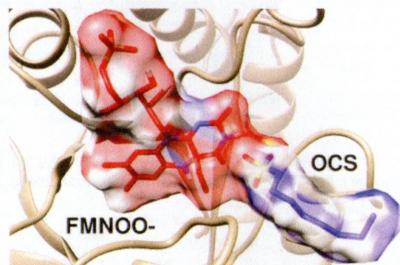
Abhinav Sinha, Amber M. Jones Brunette, Jonathan F. Fay, Christopher T. Schafer, and David L. Farrens*



[dx.doi.org/10.1021/bi5002085](https://doi.org/10.1021/bi5002085)

Exploring the Catalytic Mechanism of Alkanesulfonate Monooxygenase Using Molecular Dynamics

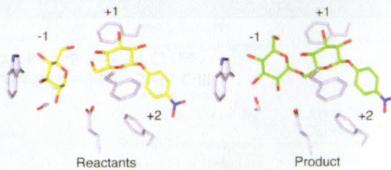
Kira Armacost, Jonathan Musila, Symon Gathiaka, Holly R. Ellis,* and Orlando Acevedo*



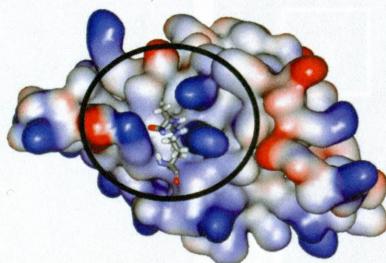
[dx.doi.org/10.1021/bi500239m](https://doi.org/10.1021/bi500239m)

Major Change in Regiospecificity for the Exo-1,3- β -glucanase from *Candida albicans* following Its Conversion to a Glycosynthase

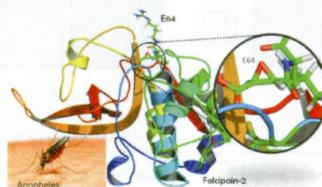
Y. Nakatani, D. S. Larsen, S. M. Cutfield, and J. F. Cutfield*



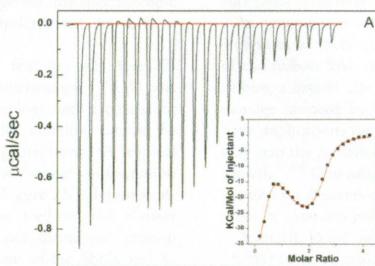
The Receptor for Advanced Glycation End Products (RAGE) Specifically Recognizes Methylglyoxal-Derived AGEs
 Jing Xue, Rashmi Ray, David Singer, David Böhme, David S. Burz, Vivek Rai, Ralf Hoffmann, and Alexander Shekhtman*



Quantum Mechanics/Molecular Mechanics Studies of the Mechanism of Falcipain-2 Inhibition by the Epoxysuccinate E64
 Kemel Arafet, Silvia Ferrer,* Sergio Martí, and Vicent Moliner*

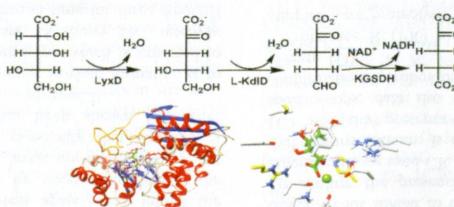


Recognition and Binding of Human Telomeric G-Quadruplex DNA by Unfolding Protein 1
 Jason S. Hudson, Lei Ding, Vu Le, Edwin Lewis, and David Graves*



Discovery of a Novel L-Lyxonate Degradation Pathway in *Pseudomonas aeruginosa* PAO1

Salehe Ghasempur, Subramaniam Eswaramoorthy, Brandan S. Hillerich, Ronald D. Seidel, Subramanyam Swaminathan, Steven C. Almo, and John A. Gerlt*



Partial Unfolding of a Monoclonal Antibody: Role of a Single Domain in Driving Protein Aggregation

Shyam B. Mehta, Jared S. Bee, Theodore W. Randolph, and John F. Carpenter*

