


# **Biophysics, Structural and Computational Biology**

2013 Retreat

October 14, 2013

## **Poster Presentations**

- 1. Amber Can Predict the Conformational Preference for Tandem GA Pairs in RNA**

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- 13. Investigation of the Mechanism of Antimicrobial Lipopeptides Using Coarse-Grained Molecular Dynamics Simulations**  
Dejun Lin, Joshua N. Horn, Zhen Xia, Pengyu Ren and Alan M. Grossfield
  - 14. Initiation Factor 2 Stabilizes the Ribosome in a Partially Rotated State**  
Clarence Ling, Jillian Dann and Dmitri N. Ermolenko
  - 15. Pre-mRNA Splicing Factor Targeting by the CAPER U2AF Homology Motif at 1.7 Å Resolution**  
Sarah Loerch, Valerie Manceau, Alexandre Maucuer, Michael R. Green and Clara L. Kielkopf
  - 16. A Tool for Making New Tools for Analyzing Molecular Simulations**  
Tod D. Romo and Alan M. Grossfield
  - 17. Structural Dynamics of Elongation Factor G During Ribosomal Translocation**  
Enea Salsi, Elie Farah, Jillian Dann and Dmitri N. Ermolenko
  - 18. Covariance Ration Analysis of Molecular Dynamics Trajectories of HIV-1 Reverse Transcriptase**  
James Seckler, Serdal Kirmizialtin, Kenneth Johnson and Alan M. Grossfield
  - 19. Parallelization of RNA Structure Software Package for RNA Secondary Structure Prediction**  
Michael Sloma and David H. Mathews
  - 20. Human Cytochrome C: Residue 41 Mutations Affect Electron Transfer Rate and Hydrogen-Bonding Network Near the Heme**  
Rebecca M. Smith, Matthew D. Liptak, Benjamin Snyder and Kara L. Bren
  - 21. Improving RNA Nearest Neighbor Parameters for Predicting Helical Stability by Going Beyond the Two-State Model**  
Aleksandar Spasic, Jonathan Chen, Matthew Seetin, Douglas H. Turner and David H. Mathews
  - 22. Nanoscale Silicon Photonic Devices for Ultrasensitive Virus Detection**  
Rashmi Sriram, Dhruvo Jyoti Basu Roy, Jim E. Baker, Mark Lifson, Amrita R. Yadav, Sudeshna Pal, Philippe M. Fauchet, Matthew Yates and Benjamin L. Miller
  - 23. The Study of tRNA Modifications by Molecular Dynamics**  
XiaoJu Zhang and David H. Mathews
  - 24. Identification of Mutations Stabilizing Ste2p, a G Protein Coupled Receptor in *S. Cerevisiae***  
Jeffrey Zuber and Mark E. Dumont
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