



## **2007 Keck Center Annual Research Conference**

### ***Science in Our Future***

Co-Chairs: Ted Wensel, Professor of Biochemistry, Baylor College of Medicine  
Stan Watowich, Associate Professor of Biochemistry and Molecular Biology,  
University of Texas Medical Branch at Galveston

October 11-12, 2007  
South Shore Harbour Resort and Conference Center  
League City, TX

### **Agenda**

#### **Thursday, October 11**

- 7:30 am - 8:30 am Poster set-up, registration, and continental breakfast
- 8:30 am - 8:35 am Welcome: Stan Watowich, Associate Professor of Biochemistry and Molecular Biology, UT Medical Branch at Galveston
- 8:35 am - 8:45 am Keck Center overview: Ted Wensel, Professor of Biochemistry, Baylor College of Medicine
- 8:45 am - 9:35 am Panel talks "Biomedical Science 5 Years from Now: Challenges, Funding and Job Prospects"
- Neal Lane, Malcolm Gillis University Professor and former director of the NSF, Rice University  
Bill Brinkley, Senior Vice President and Dean of the Graduate School, Baylor College of Medicine  
Steven M. Block, S.W. Ascherman Professor of Sciences, Stanford University
- 9:35 am - 10:00 am Panel discussion: "Biomedical Science 5 Years from Now: Challenges, Funding and Job Prospects"
- Panel Chair: Kathy Matthews, Professor of Biochemistry and Cell Biology and Dean of Natural Sciences, Rice University
- Panel: Neal Lane, Bill Brinkley, Steve Block
- 10:00 am - 10:30 am Networking break

- 10:30 am - 11:10 am Plenary talk: *Gene Targeting Using Mobile Group II Introns ("Targetrons"), RNAs that Insert Site-Specifically into DNA*
- Alan Lambowitz, Mr. and Mrs. A. Frank Smith, Jr. and Nancy Lee and Perry R. Bass Regents Chairs in Molecular Biology and Director, Institute for Cellular and Molecular Biology, University of Texas at Austin
- 11:15 am - 11:55 am Plenary talk: *Tissue Microfabrication*
- Jason Shear, Associate Professor of Chemistry and Biochemistry, University of Texas at Austin
- 12:00 pm - 1:30 pm Lunch
- 1:30 pm - 3:00 pm Poster team competition: part 1
- 3:00 pm - 3:40 pm Keynote address: *Breaking the Nanometer Barrier: Biophysics, One Molecule at a Time*
- Steven M. Block, S.W. Ascherman Professor of Sciences, Stanford University
- 3:40 pm - 4:30 pm Trainee talks
- 4:30 pm - 6:00 pm Poster team competition: part 2
- 5:15 pm - 6:45 pm Poster viewing and Reception

### Friday, October 12

- 8:00 am - 8:30 am Continental breakfast
- 8:30 am - 9:10 am Plenary talk: *The Evolution of Animal Segmentation and Body Patterning*
- Nipam H. Patel, Howard Hughes Investigator and Professor of Genetics and Development and of Integrative Biology, University of California at Berkeley
- 9:15 am - 9:55 am Plenary talk: *The Future of Measuring Brain States and the Mind they Support*
- P. Read Montague, Brown Foundation Professor of Neuroscience, Baylor College of Medicine
- 10:00 am - 10:30 am Networking break

- 10:30 am -11:35 am Panel talks: "Biomedical Science 20 Years from Now: Visions and Possibilities"
- Robert Wells, Robert A. Welch Endowed Professor of Chemistry and Director of the Center for Genome Research, Texas A&M University
- Nipam H. Patel, Howard Hughes Investigator and Professor of Genetics and Development and of Integrative Biology, University of California at Berkeley
- Alan Lambowitz, Mr. and Mrs. A. Frank Smith, Jr. and Nancy Lee and Perry R. Bass Regents Chairs in Molecular Biology and Director, Institute for Cellular and Molecular Biology, University of Texas at Austin
- Jason Shear, Associate Professor of Chemistry and Biochemistry, University of Texas at Austin
- P. Read Montague, Brown Foundation Professor of Neuroscience, Baylor College of Medicine
- 11:35 am – 12:00 Panel discussion: "Biomedical Science 20 Years from Now: Visions and Possibilities"
- Panel Chair: Robert Wells, Robert A. Welch Endowed Professor of Chemistry and Director of the Center for Genome Research, Texas A&M University
- Panel: Nipam Patel, Alan Lambowitz, Jason Shear, Read Montague
- 12:00 pm - 1:15 pm Lunch
- 1:15 pm - 1:30 pm Poster Awards and summary remarks: Ted Wensel, Professor of Biochemistry, Baylor College of Medicine
- 1:45 pm - 4:45 pm Training grant breakout sessions (3 concurrent sessions)
- Session 1: Biomedical Discovery from Large Scale Data Sets
- Session 2: Pharmacoinformatics, Computational Biology and Medicine (NLM), Computational and Structural Biology in Biodefense, W.M. Keck Virus Imaging Training Program
- Session 3: Nanobiology, Molecular Biophysics (HAMBP)