

**Martin Gruebele**, University of Illinois at Urbana Champaign, Subgroup Chair

**Biopolymers in vivo Subgroup 2016 Symposium**

**Saturday, February 27, 2016**

**Los Angeles, California**

**10:45 AM - 6:45 PM**

**Title:** Translation Dynamics and Nascent Proteome Behavior

**Program Chairs:** *Christian Kaiser*, Johns Hopkins University, *Ed O'Brien*, Penn State University

**10:45 AM Subgroup Business Meeting**

**11:45 AM Lunch Break**

**1:15 PM Introductions**

1:20 PM *Jonathan Weissman*, University of California, San Francisco  
*Monitoring Translation in Space and Time with Ribosome Profiling*

1:50 PM *Zoya Ignatova*, University of Hamburg, Germany  
*Probing Dimensionality Beyond the Linear Sequence of mRNA*

2:20 PM *Helmut Grubmüller*, Max Plank Institute for Biophysical Chemistry, Germany  
*Low Energy Barriers and a Dynamic Contact Network between Ribosomal Subunits Enable Rapid tRNA Translocation*

2:50 PM *Jody Puglisi*, Stanford University  
*Dynamics of Translation*

**3:20 PM Coffee Break**

3:50 PM *Shu-ou Shan*, California Institute of Technology  
*Accurate Decision Making at the Ribosome During Protein Biogenesis*

4:20 PM *Thomas Miller*, California Institute of Technology  
*Regulation of Sec-facilitated Protein Translocation and Membrane Integration*

4:50 PM *Gunnar von Heijne*, University of California, San Francisco  
*Co-translational Protein Translocation, Membrane Insertion and Folding Probed by Arrest-peptide Mediated Force Measurements*

5:20 PM *Judit Perales-Calvo*, King's College London, UK

5:35 PM *Ken Dill, Stony Brook University*  
*Some Cell Behavior is Encoded in Proteome Physics*

**6:05 PM Closing Remarks**

**6:45 PM Dinner**