

**Biopolymers in vivo Subgroup 2017 Symposium**  
**Saturday, February 11, 2017**  
**New Orleans, Louisiana**  
**10:00 AM- 6:15 PM**  
**Room 218**

*Gary Pielak*, University of North Carolina at Chapel Hill, Subgroup Chair

**Interactions and Phase Transitions**

10:00 **Business Meeting**

11:30 **Break**

1:00 **keynote lecture**

*Organization of nucleic acids and proteins by lipid membrane*  
Sarah Keller, University of Washington, Seattle

1:45 **Junior Faculty Award winner**

*Folding in the cell - ions, crowders, osmolytes*  
Simon Ebbinghaus, University of Bochum, Germany

2:15

*The role of RNA in tuning the physical properties of polyQ-protein phase transitions*  
Amy Gladfelter, UNC Chapel Hill

2:45 **Graduate Student Talk**

*Attenuating the Toxicity of Amyloid-Beta Aggregation with Specific Species*  
Ryan Limbocker, University of Cambridge

3:00

*Visualizing structural details of disordered domain phase separation associated with ALS and cancers*  
Nicolas Fawzi, Brown University

3:30 **Break**

4:00

*Proteins – forever aging?*  
Jeremy Smith, University of Tennessee and ORNL

4:30 **Graduate Student Talk**

*Glycine Betaine Reverses Osmotic Shock Induced Protein Destabilization in Living Cells*  
Samantha Stadtmiller, University of North Carolina

4:45

*How evolution tunes stress-triggered protein phase separation to promote cell fitness during stress*  
Allan Drummond, University of Chicago

5:15 **Keynote Lecture**

*Phase Behavior and Self-Assembly of a New Family of Stimulus Responsive Peptide Polymers*

Ashutosh Chilkoti, Duke University

6:00 PM **Closing Remarks**