



BioPhest 2017

BioPhest 2017 Organizers:

Oliver Beckstein

Rizal Hariadi

Mahzad Khoshlessan

Robert Ros

Morteza M. Waskasi

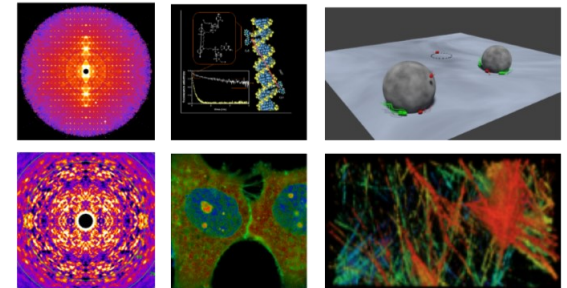
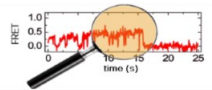
Conference Coordinator:

Deanna Clark

Funding provided by
Center for Biological Physics

Arizona State University
Center for Biological Physics
Physical Sciences, F Wing, Room 186
550 E Tyler Mall,
Tempe, AZ 85287-1504
480-965-4073

ASU Center for
Biological Physics
Arizona State University



April 22, 2017

BioPhest 2017

8:00-8:55 AM Registration and Continental Breakfast in PSF 186

8:55 AM Welcome from **Robert Ros**, Director of ASU Center for Biological Physics

Session 1: Mahzad Khoshlessan, Chair

9:00-9:20 AM Sean Seyler
sseyler@asu.edu

Developing a hybrid atomistic-continuum method for simulating large-scale heterogeneous biomolecular systems

9:20-9:40 AM Salman Seyedi
sseyedi@asu.edu

Dynamical transition in liquids and proteins

9:40-10:00 AM Paul Campitelli
paul.campitelli@asu.edu

Dynamic Flexibility Index Sheds Light on Pin1 Allostery

10:00-10:30 AM COFFEE BREAK

Session 2: Tushar Modi, Chair

10:30 -10:50 AM Suchi Perera
suchi@email.arizona.edu

GPCR Activation Probed by Spectroscopic and Scattering Methods

10:50-11:10 AM Michael Marty
mtmarty@email.arizona.edu

Combining Nanodiscs with Native Mass Spectrometry to Study the Biophysics of Protein-Lipid Interactions

11:10-11:30 AM Phuong-Diem Nguyen
nguyendiem@email.arizona.edu

Phospholipid vesicle microarray as a platform for transmembrane protein study

11:30-11:50 AM Marcia Levitus
marcia.levitus@asu.edu

Fluctuations as a source of information in fluorescence spectroscopy: from protein oligomerization to excited-state dynamics.

11:50-2:30 PM LUNCH BREAK and POSTER SESSION

Session 3: Armin Zjajo, Chair

2:30-2:50 PM Houpu Li
houpuli@asu.edu

EGF-free activation of ERK in epithelial cells by localized AC stimuli through customizable microelectrode chip

2:50-3:10 PM Daihyun Kim
dkim130@asu.edu

Dynamic Constriction Insulator-Based Dielectrophoresis for Particle Manipulation

3:10-3:30 PM Konstantinos Tsekouras
Konstantinos.Tsekouras@asu.edu

A novel method for accurately counting and localizing in time photobleaching steps

3:30-4:00 PM COFFEE BREAK

Session 4: Taylor Colburn, Chair

4:00-4:20 PM Nethmi Ariyasinghe
Nariyasi@asu.edu

Properties of Chromatin Extracted by Salt Fractionation from a Cancerous and Non-cancerous Esophageal Cell Line

4:20-4:40 PM Udeep Chawla
udchawla@email.arizona.edu

Biophysical Studies of the Medicinally Important NAMPT Protein

4:40-5:00 PM Raimund Fromme
raimund.fromme@asu.edu

Structure of the homodimeric reaction center

5:00-5:10 PM Closing Remarks and Poster Prize Announcement by **Oliver Beckstein**