

**SATURDAY, OCTOBER 27, 2012**

**7:00 – 9:00 PM**

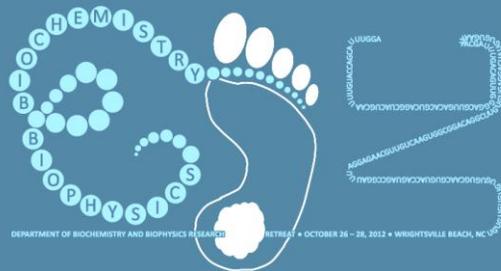
**Odd-numbered first hour | Even-numbered second hour**

**Prefunction Area & Airlie Tidewater**

**Department of Biochemistry and Biophysics  
 Research Retreat Poster Session**

	<b>Presenter &amp; Lab</b>	<b>Poster Title</b>
<b>1</b>	<b>Seth Zimmerman</b> (Student, Kuhlman lab)	<i>"Control of actin affiliated Eng/Vasp by caging a shigella flexneri peptide within a Lov2 domain"</i>
<b>2</b>	<b>Bo Zhao</b> (Student, Zhang Lab)	<i>"Mg<sup>2+</sup>-dependent hierarchical folding underlies ligand recognition by fluoride riboswitch"</i>
<b>3</b>	<b>Bowen Xu</b> (Student, Wang Lab)	<i>"The TUDOR motif of polycomb-like proteins is a novel H3K36me3 binding domain"</i>
<b>4</b>	<b>Peter Thompson</b> (Student, Campbell Lab)	<i>"Actin binding is allosterically linked to vinculin tail domain dimerization and actin filament bundling through a kinked helix"</i>
<b>5</b>	<b>Arpit Tandon</b> (Student, Dokholyan Lab)	<i>"Common surface motif may trigger development of graft vs host disease in hematopoietic stem cell transplantation"</i>
<b>6</b>	<b>Aleksandra Skrajna</b> (Research Staff, Marzluff Lab)	<i>"Assessing the importance of various polyadenylation factors in U7-dependent processing of histone pre-mRNAs using gene reporter systems"</i>
<b>7</b>	<b>David Shirvanyants, PhD</b> (Postdoctoral Fellow, Dokholyan Lab)	<i>"Pore dynamics and ionic conductance of RyR1 channel in molecular dynamics simulations"</i>
<b>8</b>	<b>Ivan Sabath</b> (Student, Marzluff Lab)	<i>"Mechanism for recruitment of the endonuclease CPSF73 to Drosophila histone pre-mRNA for 3' end processing"</i>
<b>9</b>	<b>Rachel Redler</b> (Student, Dokholyan Lab)	<i>"Formation of common misfolded species by wild type and mutant SOD1 - a potential link between sporadic and familial ALS"</i>
<b>10</b>	<b>Mrinalini Ramanan</b> (Student, Zhang Lab)	<i>"Characterization of pre-miRNA-1-1 binding with inhibitory protein Lin28"</i>
<b>11</b>	<b>Kenneth Nesbitt</b> (Student, Riordan Lab)	<i>"Cytoplasmic extensions of CFTR membrane-spanning helices strongly influence single-channel properties"</i>
<b>12</b>	<b>Andrew Monteith</b> (Student, Vilen Lab)	<i>"Defective lysosomal degradation of immune complexes in lupus-prone mice"</i>
<b>13</b>	<b>Leanna McDonald</b> (Student, Lee Lab)	<i>"Segmental motions, not a two-state concerted switch, underlie allostery in CheY"</i>
<b>14</b>	<b>Tina Leisner, PhD</b> (Research Staff, Parise Lab)	<i>"Development of a novel high throughput screening assay to identify small molecule inhibitors against the cancer target, CIB1"</i>
<b>15</b>	<b>Gurpreet Kaur</b> (Student, Dokholyan Lab)	<i>"Plant NADPH oxidases: diversity and structural complexity"</i>
<b>16</b>	<b>Deepak Jha</b> (Student, Strahl Lab)	<i>"Set2 regulates DNA damage response after DNA double strand break"</i>

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17	<b>Tim Jacobs</b> (Student, Kuhlman lab)	<i>"Computational design of a PCSK9 inhibitor"</i>
18	<b>Stephen Holly</b> (Research Faculty, Parise Lab)	<i>"Chemoproteomic discovery of AADACL1 as a novel regulator of human platelet activation"</i>
19	<b>Cassandra Hayne</b> (Student, Neher Lab)	<i>"Structural insights into maturation and activation of lipoprotein lipase"</i>
20	<b>Ryan Hallett</b> (Student, Kuhlman Lab)	<i>"Designing photoswitchable peptides using the AsLOV2 domain"</i>
21	<b>Todd Getz, PhD</b> (Postdoctoral Fellow, Bergmeier Lab)	<i>"The regulation of platelet phosphatidylserine exposure and micro-vesiculation through a Rap1 / 12-lipoxygenase-dependent pathway"</i>
22	<b>Brian Garrett</b> (Student, Neher Lab)	<i>"Development of a phasing probe for crystallographic studies of the mycobacterium tuberculosis lipase, LipY"</i>
23	<b>Thomas Freeman, PhD</b> (Postdoctoral Fellow, Parise Lab)	<i>"Identification of novel integrin binding partners for calcium-integrin-binding protein 1 (CIB1): structural &amp; thermodynamic basis of CIB1 promiscuity"</i>
24	<b>Raghuvar Dronamraju</b> (Postdoctoral Fellow, Strahl Lab)	<i>"Spt6, CTDK-I and the PAF complex contribute in a feed-forward mechanism to promote serine 2 CTD phosphorylation &amp; transcription elongation"</i>
25	<b>Jhuma Das</b> (Postdoctoral Fellow, Dokholyan Lab)	<i>"Effect of charged residues in cytoplasmic extensions of trans-membrane helices on CFTR pore dynamics"</i>
26	<b>Alakananda Das</b> (Student, Slep Lab)	<i>"Probing the role of Che-12 in regulating cilia structure and function"</i>
27	<b>Aaron Cook</b> (Student, Bergmeier Lab)	<i>"CalDAG-GEF1 structure function studies sheds light on Rap1 activation in platelets"</i>
28	<b>S. Niranj Chandrasekaran</b> (Student, Carter Lab)	<i>"Characterization of TrpRS conformational transition states using Minimum Action Path (MinActionPath) calculations"</i>
29	<b>Yacine Boulaftali, PhD</b> (Postdoctoral Fellow, Bergmeier Lab)	<i>"A novel method for the adoptive transfer of platelets into thrombocytopenic mice for studying the specific role of platelets in the maintenance of vascular integrity during inflammation"</i>
30	<b>Justin Black</b> (Student, Parise Lab)	<i>"Disrupting CIB1 binding to <math>\alpha</math>-integrin subunits as a strategy to define CIB1 regulation of integrin function"</i>
31	<b>Rachael Baker</b> (Student, Campbell/Dohlman Lab)	<i>"Monoubiquitination as a regulator of GTPase activity"</i>
32	<b>Melissa Babilonia-Rosa</b> (Student, Neher Lab)	<i>"Molecular interactions required for activation of dimeric lipases by their maturation factor"</i>

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