

**12th Annual VPA Symposium Lightning Round Talks (AM Session begins at 9:45 AM, PM Session begins at 2 PM)  
Thursday, April 12th, Student Life Center Ballroom B**

<b>Sess, Order</b>	<b>Presenter</b>	<b>Presentation Title</b>	<b>Poster #</b>
AM 1	Dhivya Sudhan	Hyperactivation of mTORC1 drives acquired resistance to the pan-HER tyrosine kinase inhibitor neratinib in HER2 mutant cancers	42
AM 2	Caleb Fischer	Deciphering the bioactive chemical arsenal of myxobacterial predation	19
AM 3	Meher Juttukonda	Noninvasive characterization of cerebral hemodynamics in sickle cell anemia	77
AM 4	Abigail LaBella	Codon usage in the Saccharomycotina - How the silent codon position can be used as window into gene expression and ecological adaptation	9
AM 5	Mindy Leelawong	Molecular Assessment of Antimalarial Drug Resistance Using Sentinel L-DNA Thermal Probes	33
AM 6	Lauren Palmer	Dietary zinc restriction compromises host immunity to Acinetobacter baumannii lung infection	63
AM 7	Lindsey Seldin	Mammary myoepithelial cells respond to damage by altering cell fate in vivo	16
PM 1	Priyanka Manchanda	Chemically stabilized DT-MoS <sub>2</sub> alloys for enhanced electrocatalytic activity	60
PM 2	Daniel Blackwell	Improved calcium handling in human induced pluripotent stem cell cardiomyocytes	31
PM 3	Gregory Sliwoski	The implications of human genetic diversity for structural biology	11
PM 4	Alessandro Fascetti	Dual random lattice modeling of erosion in flood protection infrastructure	58
PM 5	Stacey Mont	Inhibition of CDK4/6 and Pi3Ky modulates mammary tumor immune microenvironment to enhance response to immunotherapy	74
PM 6	Matthew Mead	Evolutionary rewiring of the genetic regulatory network controlling spore formation in filamentous fungi	29
PM 7	Sun Wook Kim	Microvillar sensation of shear stress induces autophagic flux in the intestinal epithelium	13