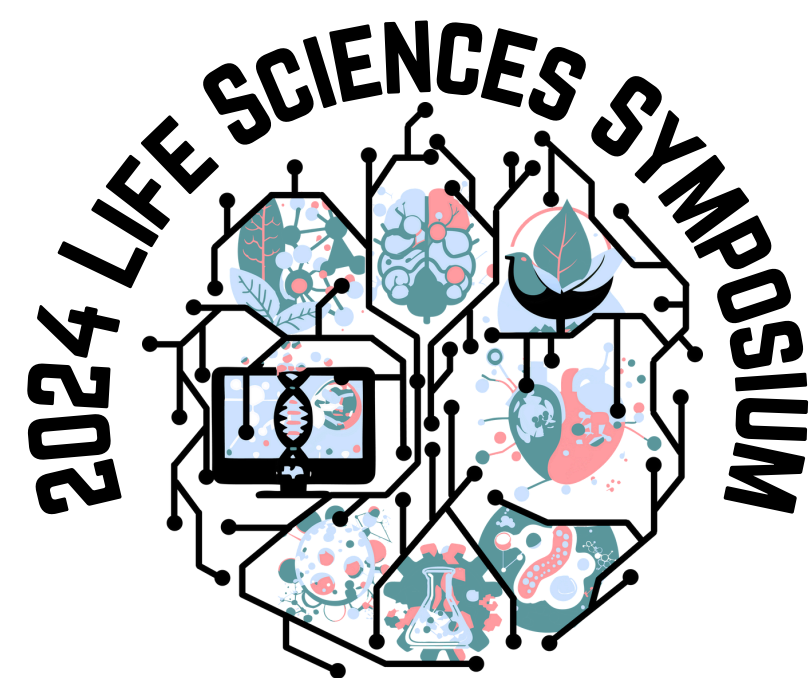


# MORNING SCHEDULE

8:00 AM - 8:45 AM		Breakfast		Atrium
8:45 AM - 9:00 AM		Welcome		110
9:00 AM - 9:55 AM	Keynote	Combining artificial intelligence and biophysics for protein engineering	Dr. Anthony Gitter	110
10:00 AM - 10:55 AM		Poster Session I (odd #)		Atrium
11:10 AM - 12:10 PM	Student Talks	The pod doesn't fall far from the tree: Parental effect on seed lipid content, composition, and thermal characteristics in Theobroma cacao L.	Evelyn Kulesza	110
		DICER-LIKE 1 is Crucial for Generating Trans-Species MicroRNAs in the Parasitic Plant Cuscuta campestris	Ya-Chi Nien	
		The smell of danger: Transcriptomic reprogramming in tall goldenrod (Solidago altissima L.) following exposure to the pheromone of a gall-inducing herbivore	Robert Witkowski	
		Monitoring of solitary bee foraging and nesting behaviors to inform population models using an automated IoT and AI based monitoring system	Edward Amoah	
11:10 AM - 12:10 PM	Student Talks	Developing coral-inspired artificial host cells for living algal symbionts	Dharani Abeysinghe	107
		A synthetic microbiota designed through meta-analysis provides insight to community function in Clostridioides difficile resistance	Susan Tian	
		IS1 mediated PMB heteroresistance in E. coli B strains	Aditi Makarand Ranade	
		Leveraging FracMinHash Containment for Genomic dN/dS Estimations	Judith Rodriguez	
11:10 AM - 12:10 PM	Student Talks	Vitamin D deficiency impacts the development of immunity from embryonic to adulthood	Nicole Froelich	108
		The short-term effect of increasing doses of palmitic and stearic acid on milk fatty acid profile and milk fat thermal properties in Holstein cows	Alanna Staffin	
		Sex differences in brain activity and functional connectivity impact of GLP-1 and amylin in awake rats	Doris Olekanma	
		Scalable high-throughput aspiration-assisted spheroid bioprinting for rapid tissue fabrication	Myoung Hwan Kim	
12:10 PM - 1:00 PM		Lunch Catered by Webster's Bookstore Cafe		Atrium



# AFTERNOON SCHEDULE

Coffee will be provided in the Foyer from 1:00 PM-3:00 PM

12:10 PM - 2:00 PM	Exhibitor Hours			Foyer
1:00 PM - 2:00 PM	Career Panel			Dr. Ted Liberti Dr. Diane Bouis
1:00 PM - 2:00 PM	Workshop	Utilizing Adobe Express to create GenAI graphics	Penn State Media Commons	108
2:10 PM - 3:00 PM	Panel discussion	AI & life sciences research	Dr. Anthony Gitter Dr. Sharon X. Huang Dr. David Hughes	110
3:10 PM - 4:00 PM	Poster Session II (even #)			Atrium
4:10 PM - 5:00 PM	Post Doc Spotlight	Unlocking Biocatalytic Potential: Isothiocyanate Radical Transfer by BesD Nonheme Iron Halogenase	Dr. Vishal Yadav	108
		Short-term caloric restriction alters the microbiome modulating resistance to Clostridioides difficile infection	Dr. Jingcheng Zhao	
		Do different bee species modulate their feeding behavior to regulate their protein and lipid macronutrient intake?	Dr. Jaya Sravanthi Mokkalapati	
		A new frontier in SARS-CoV-2 therapy: Therapeutic Interfering Particles (TIPs) demonstrate potent replication inhibition of the virus	Dr. Abhinay Gontu	
5:30 PM - 6:00 PM	Closing Ceremony			110