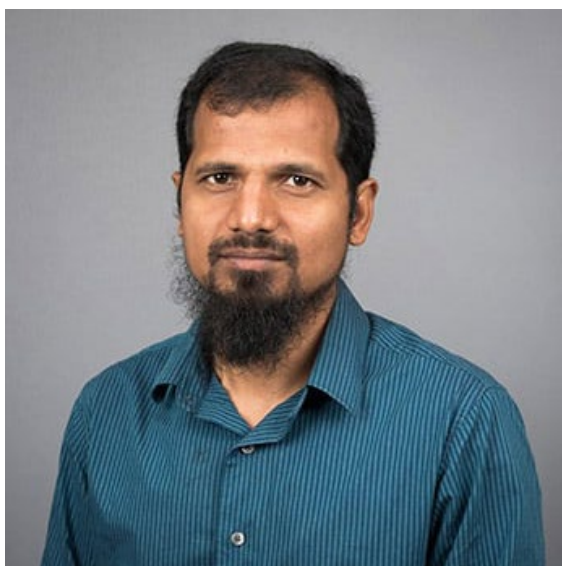




College of Sciences & Mathematics Newsletter
July 2023



CoSM Faculty Spotlight
Alam Awarded
Grant from Kays
Foundation

A grant proposal by **Dr. Mohammad Abrar Alam**, associate professor and Beck Professor in Chemistry, has been approved by the Kays Foundation. Titled "Synthesis antibacterial characterization of novel aminothiazole derivatives," Alam's \$12,400 project will help support development of novel antibiotics as part of his ongoing studies. It involves both undergraduate and graduate STEM students, from underrepresented groups, working on relevant and cutting-edge supporting research.

CoSM Faculty Spotlight

Lorence's Rice Research Covered in Two Articles

The research by **Dr. Argelia Lorence**, professor of metabolic engineering and Vaughn Endowed Professor, and her team of investigators is conducting into the impact of nighttime heat on the growth of rice, was featured in a front-page article published recently in the [Arkansas Democrat-Gazette](#). This follows a related feature in the [New York Times](#). Both articles about rice, a major source of the world's food supply, are available to subscribers.



CoSM Student Spotlight

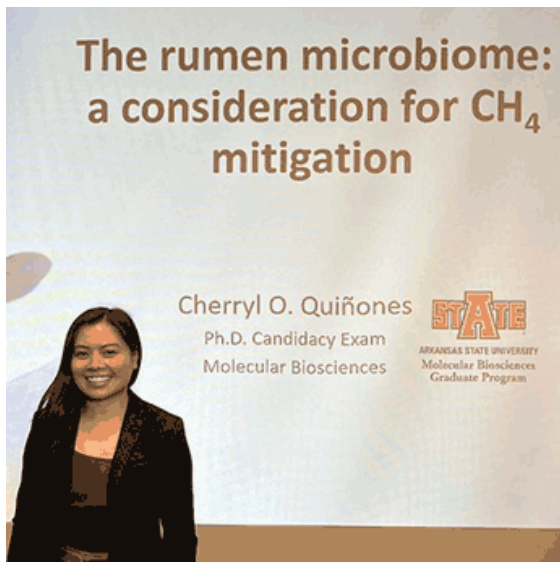
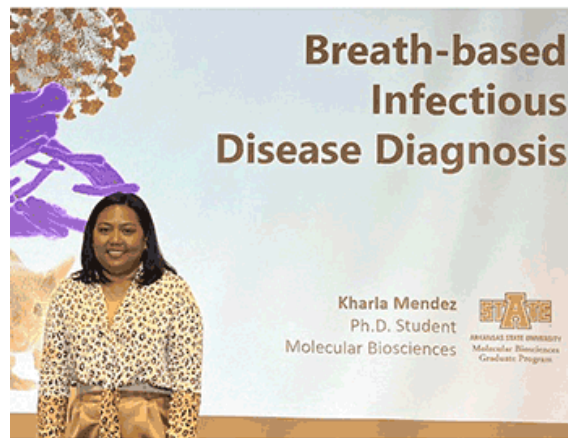
Mohammadhosseinpour Defends Dissertation

Molecular Biosciences student, **Sepideh Mohammadhosseinpour**, successfully defended her Ph.D. dissertation, "Prenylated Stilbenoids as Paclitaxel Adjuvants in Triple Negative Breast Cancer Treatment". She has done amazing research, studying compounds from peanut known as arachidins as a potential adjuvant treatment for triple negative breast cancer. Her adviser is **Dr. Fabricio Medina-Bolivar**.

CoSM Student Spotlight

Mendez Passes Candidacy Defense

Molecular Biosciences Ph.D. student, **Kharla Mendez**, passed her candidacy defense, "Breathomics Approach: Identification of Volatile Compound Biomarkers on COVID-19 and Pulmonary Tuberculosis Co-infection Using a Mouse Model". Her advisers are **Dr. Arlene Adviento-Borbe** and **Dr. Argelia Lorence**.



CoSM Student Spotlight

Quiñones Passes Candidacy Defense

Molecular Biosciences Ph.D. student, **Cherryl Quiñones**, passed her candidacy defense, "The rumen microbiome: A consideration for CH₄ mitigation". Her adviser is **Dr. Argelia Lorence**.

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