



College of Sciences & Mathematics Newsletter  
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## CoSM Faculty Spotlight Alam Studies Domino Reaction Development

An invited perspective by Dr. **Mohammad A. Alam**, associate professor of chemistry, was published in *Current Organic Chemistry*. In "[Domino/Cascade and Multicomponent Reactions for the Synthesis of Thiazole Derivatives](#)," Alam discusses the development of various domino reactions to synthesize thiazole derivatives.





## CoSM Faculty Spotlight Research by Izadyar and Team is Published

**Dr. Anahita Izadyar**, associate professor of chemistry, is corresponding author of an article published in the *Journal of the Biocatalysis and Agricultural Biotechnology*. The title is "[Electrocatalytic effect of recombinant Mn peroxidase from corn on microbiosensors to detect glucose.](#)"

The co-authors are **Dr. Elizabeth E. Hood**, emeritus professor of agriculture, and undergraduate students **My Ni Van**, **Marcela Miranda** and **Scout Weatherford**.

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## CoSM Faculty Spotlight Lorence's Research Featured in *Guardian*

**Dr. Argelia Lorence**, professor of metabolic engineering, and her research into climate impact on rice production were highlighted in a [Guardian article](#). NBC News is producing a follow-up. Also, Lorence and **Dr. Karina Medina-Jimenez**, Arkansas Biosciences Institute, co-edited a [book](#) written by research teams from the U.S., Mexico, Canada, Chile and Spain. Each chapter, including two from Lorence's team, describes a step-by-step protocol for high throughput plant phenotyping.





## Alam, Gilmore Co-Author Article

Dr. Mohammad Alam, associate professor of chemistry (left) and Dr. David Gilmore, emeritus professor of microbiology (right), are co-authors of an article in [Antibiotics](#), in which they reported the development of pyrazole derivatives as potent antibacterial agents.

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## CoSM Ecotox Research News Kays Foundation Approves Augusto Proposal

Andressa Alves Augusto, research associate, Ecotoxicology Research Facility, [wrote a successful proposal](#) to the Kays Foundation for a \$11,862 grant to modernize the facility's fish culturing infrastructure. The grant will support a plumbing upgrade and renovations to the equipment used for culturing. The project will be evaluated by comparing fish health, using data collected before upgrade and post-upgrade, along with time spent culturing.



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