



College of Sciences & Mathematics Newsletter
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CoSM Faculty Spotlight

Faculty Co-Author Water Treatment Research

An article co-authored by **Dr. Hashim Ali** (left), associate professor of chemistry, **Dr. Benjamin Rougeau**, instructor of chemistry, and **Mohd Kotaiba Abugazleh**, Ph.D. student in Ali's lab, has been published in the [*Journal of Environmental Chemical Engineering*](#). Based on research Abugazleh conducted, their work introduces an alternate method for removing organic contaminants from wastewater, improving the quality of recycled water for general use.

CoSM Faculty Spotlight **Medina-Bolivar Receives Technology Patent**

Dr. Fabricio Medina-Bolivar, professor of plant metabolic engineering, along with **Dr. Tianhong Yang**, a former molecular biosciences Ph.D. student, and a colleague from Indiana University have obtained a U.S. patent on "[Stilbenoid prenyltransferases from plants](#)." With the protected technologies, bioactive compounds with potential benefits for human health can be produced in additional ways. The research was conducted at Arkansas Biosciences Institute with funding from USDA and ABI.



CoSM Faculty Spotlight **Fluker is Co-Author of Genetic Diversity Study**

Dr. Brook Fluker, associate professor of aquatic ecology, co-authored an article in [Conservation Genetics](#) with **Brittany McCall**, an environmental sciences Ph.D. researcher in his lab.

CoSM Faculty Spotlight

Izadyar Conducting Biosensor Research

Dr. Anahita Izadyar, associate professor of chemistry, is principal investigator for a research project funded by Arkansas Biosciences Institute. The goal is development of a fast, sensitive and reliable biosensor for detecting glucose. She and her colleagues have introduced a novel enzymatic biosensor using recombinant plant-produced manganese peroxidase (PPMP), a corn enzyme produced in the lab of **Dr. Elizabeth Hood**, co-PI.



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