Biological Sciences researchers have shown for the first time that these salamanders inhabiting the southern Appalachian Mountains use temperature rather than humidity as the best cue to anticipate changes in their environment. Significantly, the researchers observed that salamanders actually harness their unique ability to regenerate limbs to rapidly minimize the impact of hot temperatures.

Salamanders regenerate to buffer themselves from climate change. A glowing “TIGER mouse” helps understand brain injuries, infections and diseases. Researchers from Biological Sciences’ associate professor David Feliciano and his lab devised a way to track tiny movement of information-rich particles found in bodily fluids throughout the body, called extracellular vesicles. They use a glowing mouse – appropriately dubbed the “TIGER mouse” – to trace the message-carriers in the brain that could prove useful in diagnosing and treating injuries, infections or diseases.

A glowing “TIGER mouse” helps understand brain injuries, infections and diseases. Microbial diversity is key to healthy coastal ecosystems. Microbiomes thrive in seagrass meadows located mainly along tropical coasts, such as the Florida Keys. These seagrasses are important habitats for animals in the area, and also are a source of carbon sequestration, acting like a natural carbon sink. Researchers from Biological Sciences’ associate professor Barbara Campbell recently published a paper indicating that the symbiotic bacteria found in seagrass meadows are more taxonomically diverse than previously thought. For millions of years, symbiotic bacteria have lived inside the gill cells of Lucinidae clams found in seagrass in which the clams live. These bacteria are protective to the clams and together they create a community beneficial to both species. For this reason, the research team is trying to understand the bacterial diversity and composition in these environments.

Sustainability regenerates to buffer themselves from climate change. The Feliciano Lab (left to right): Victoria Neckles, David Feliciano, Tori Riley, Aidan Sokolov, Jennie Holmberg Feliciano. The Feliciano Lab (left to right): Victoria Neckles, David Feliciano, Tori Riley, Aidan Sokolov, Jennie Holmberg Feliciano. New assistant professor Sourabh Dhingra and many more. New assistant professor Bill Baldwin’s lab ties metabolic enzyme to obesity and fatty liver disease. New assistant professor Holmberg Feliciano.

Students explore careers and network with alumni at 2019 Tigers on Call event. An aspiring physician, Biological Sciences sophomore Aimey Jimm knows how important the interview will also play in medical school admissions. An alumni at 2019 Tigers on Call event. Students explore careers and network with alumni at 2019 Tigers on Call event. Students explore careers and network with alumni at 2019 Tigers on Call event. Students explore careers and network with alumni at 2019 Tigers on Call event.

Note from the Chair: It has been an amazing time to be at Clemson, and particularly this past year after a national search this spring. The past 14 years have been selected as Chair of Biological Sciences.

Greetings to all our alumni and friends! I’m thrilled to chair since July, have been an amazing time to be at Clemson. I’m thrilled with the passion and enthusiasm we all bring to elevate our prominence in biological sciences.

We constantly seek ways to build our partnerships, offer international experiences, provide opportunities, and expand our study abroad opportunities. Faculty will help us continue to provide high quality teaching, increase undergraduate research opportunities, and engage the community. We hope you will consider investing in our students, faculty and staff. Give to Biological Sciences.

Drs. Mike Sears and Eric Riddell (Biological Sciences Ph.D. ’17)

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