Development and application of the resazurin-resorufin system: A smart tracer approach in ecohydrology

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Thursday 2/11 2:00 pm
215 Coker Hall

To schedule a meeting with Dr. González-Pinzón, please contact Kaylyn at kaylyn@live.unc.edu
Abstract:

Streams continuously exchange nutrients, substrates, heat and oxygen with surrounding aquifers and with the atmosphere. These interactions sustain the development of a wide range of microbial communities that substantially contribute to energy flow and nutrient cycling, thus making streams stand out as key players in global carbon and nutrient budgets. Join us to discuss some novel approaches to quantify, model and predict the synchronized interaction of ecohydrological processes in stream ecosystems. In this seminar I will discuss the use of ‘smart’ tracers to infer controls on transport and reactivity, and uncertainty in modeling approaches. I will present study cases in Oregon, Pennsylvania, Spain, New Mexico and Colombia.