



# John Lawrence Seminar

## From Cradle to Grave: Using Isotopes and Imaging to Track Microbe-Mineral Interactions



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Stimulated by exudates and root decay, rhizosphere organisms control the critical pathways that move C from root tissues to mineral surfaces, and ultimately regulate how soil C is sequestered and stabilized. Yet we have a poor understanding of how roots affect the molecular ecology of microbial decomposers, and how this affects rates of organic matter breakdown or long-term OM association with minerals. Isotope-enabled incubation experiments allow a unique opportunity to decipher both the relevant actors in dynamics rhizosphere settings, and also their physical arrangement and interactions.

**Tuesday  
Jan. 10 at 4:00 PM**

**Emery Station  
Rm. 978-4132/34**

**Host: Steven Singer, Biological Systems & Engineering Division**