

FERMENTATION WEBINAR

Wednesday, December 2, 2020 - 1:00 PM

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Dr. Kritee Kritee

Senior Scientist, Climate Program
Environmental Defense Fund

Host: Dr. Tamar Barkay, Department Biochemistry and Microbiology

Climate smart farming in India: Greenhouse gas measurements, challenges and large scale implementation strategies

Summary:

India is the world's fourth-largest greenhouse gas emitter, on track to overtake the U.S. as second-largest by 2040. About 70% of Indian population (180 million households) still lives in villages cooking on biomass/wood and growing food on <2 acre farms making barely \$2 a day. Along with partners, EDF has been working to chart an affordable, scalable and accessible climate smart development pathway for rural India in ways that leap-frog the business as usual for the past ten years. This talk will cover implications of our nitrous oxide and methane flux data from rice and non-rice farms, current value-chain challenges and policy interventions that EDF has been advocating in India.

Biography:

Kritee is a Senior Scientist at Environmental Defense Fund (EDF). She is an integral part of the organization's climate team that is helping accelerate climate smart rural development in India. Between 2011-2016, she directed a multi-partner research team working at six labs across four states in rural India and examined the effectiveness of different farming practices in increasing yields, improving farmer incomes and soil quality as well as decreasing greenhouse gas emissions. This work is helping lay groundwork for government action on land use change in India such that triple win (i.e., food security, poverty alleviation, and climate adaptation and mitigation) can be achieved. She worked on microbial stable isotope geochemistry of mercury and nitrogen at Rutgers and Princeton Universities before joining EDF.

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