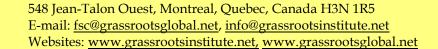


Summer Field School [Online] on MOUNTAIN ECOSYSTEMS AND RESOURCE MANAGEMENT Ivano-Frankivsk Region, Ukraine :: 19-28 September, 2021

DELEGATE PARTICIPANT'S PROFILE

	Mr. Arup Khakhlari
	Research Scholar
	Department of Biosciences
	Assam Don Bosco University
	Tapesia Campus, Sonapur, Guwahati, Assam
	Tel: +917086586235
	Email: <u>arupkhakhlari304@gmail.com</u>
Highest Education	Masters of Science (Microbiology)
Personal Statement	Dear Friends, I would like to say few words in order to
	present myself as the delegate participant in the upcoming
	Summer School on "Mountain Ecosystems and Resource
	Management". I am a Research Scholar, currently working on
	Insect-plant interaction and microorganisms. In 2016, I
	completed my Bachelor of Science in Botany from Pragjyotish
	College, under Guwahati University. In 2018, I accomplished
	the Masters of Science in Microbiology and in the same year
	enrolled myself for the PhD programme. In 2020, I worked as
	a Research Assistant in Ouija Biosolution Pvt. Ltd., Guwahati
	Biotech Park, IIT Guwahati.
Paper/Presentation Title	Articulating Fragrant Agarwood Formation as an Outcome of the
(Unpublished Research or	Interaction between the Insect Zeuzera conferta
Review or Field Work)	and Aquilaria Trees – A Review
Keywords	Insecticides; Frass; Taxonomy; Artificial rearing; Interaction;
	Lepidopteran
Abstract (100-300 words)	Agarwood is the resinous infected wood formed
	by Aquilaria species, which is a highly priced product in the
	flavour and fragrance market. Its formation is a complex
	process of interaction between the plant, insect, and
	microorganisms. Multiple studies concerning the interaction
	of microorganisms with the <i>Aquilaria</i> tree have been reported.
	However, the significant interaction between the
	insect Zeuzera conferta Walker (Lepidoptera: Cossidae) with





Summer Field School [Online] on MOUNTAIN ECOSYSTEMS AND RESOURCE MANAGEMENT Ivano-Frankivsk Region, Ukraine :: 19-28 September, 2021

(weblinks)	1 , , , , ,
More Information	https://orcid.org/0000-0003-4660-868X
	production.
	sustainable livelihood of farmers dependent on agarwood
	technology for the insect Z. conferta as a strategy for ensuring
	infestation and simultaneously develop artificial rearing
	suitable management strategies to prevent uncontrolled
	perspectives of understanding the interaction in devising
	Compounds (MVOCs). The review also scrutinizes the future
	Plant Volatiles (HIPVs) and Microbial Volatile Organic
	Volatile Organic Compounds (VOCs), and Herbivore Induced
	form of complex chemical signalling via release and sensing of
	microorganisms as a possible continuum operating in the
	interaction between Z. conferta, Aquilaria and associating
	The review lays emphasis on the chemical ecology of the
	proffered by researchers and the insect life cycle is discussed.
	attempted. The taxonomy, morphological descriptions
	literature on this interesting phenomenon a review has been
	have been accomplished. Considering the dearth of available
	Aquilaria have been overlooked and only exiguous studies