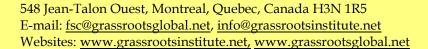


Summer Field School [Online] on MOUNTAIN ECOSYSTEMS AND RESOURCE MANAGEMENT Ivano-Frankivsk Region, Ukraine :: 19-28 September, 2021

DELEGATE PARTICIPANT'S PROFILE

	Phooi Chooi Lin Postgraduate Student Faculty of Agriculture Universiti Putra Malaysia Serdang, Selangor, Malaysia Tel: +60189567466 Email: phooi.chooilin@student.upm.edu.my
Highest Education	Bachelor in Agricultural Science with Honours (Horticulture and Landscaping)
Paper/Presentation Title (Unpublished Research or Review or Field Work)	Dear colleagues! First of all, I extend my heartfelt thanks to the Universiti Putra Malaysia for providing me this opportunity to participate in the forthcoming Summer School on 'Mountain Ecosystems and Resource Management' as a delegate participant. I hold a Bachelor in Agricultural Science with Honours (Horticulture and Landscaping) from Universiti Malaysia Sabah, Malaysia. My Bachelor thesis was on 'Effect of blue-red LED illumination on growth and morpho-physiological performance of leguminous microgreens'. Currently, I am further study at Universiti Putra Malaysia, Malaysia as a postgraduate student. My academic interests include agronomy as well as waste upcycle. Effect of Biopriming with Food Waste Bokashi Leachate on Basella rubra L. Seed Germination and Root Growth Performance
Keywords	Food Waste Bokashi; Biopriming; Seed Germination; Priming Duration; Priming Concentration
Abstract (100-300 words)	Basella rubra L. is a type of spinach, which is edible with high nutrient composition. It is also known to be antioxidant. However, initial germination and root growth remain an issue due to hard exterior seed coating, thus some may germinate within 10 to 21 days, and some may not at all. Inhibited growth may lead to





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

	vegetative propagation and micropropagation, which
	fundamentally reduce the growth and yield. Basella seed treated
	with Bokashi leachate found to improve seed germination and root
	growth. Thus, a study was conducted, using food waste EM
	Bokashi leachate (0%, 0.067%, 0.1%, 0.2%) with biopriming duration
	(6 and 12 hours). Experiment was conducted in completely random
	design (CRD) with 3 replications of 100 seeds, with a total of 24
	experimental units. Based on the results, short biopriming duration
	(6 hours) significantly enhanced the mean germination rate,
	germination speed accumulated and coefficient of the velocity of
	germination. However, germination percentage had no significant
	improvement by leachate. Long priming duration significantly
	reduced the root development due to the seed may loss of
	desiccation tolerance. The concentration of leachate and priming
	duration had no significant interaction. In order to improve the
	germination and root growth performance, 6 hours of seeds
	priming duration or 0.2% (1:500) of food waste Bokashi leachate was
	recommended to soak the Basella rubra seeds.
More Information	www.linkedin.com/in/phooi-chooilin
(weblinks)	https://orcid.org/0000-0002-0380-2741
	https://sciprofiles.com/profile/PhooiChooiLin
	https://www.scopus.com/authid/detail.uri?authorId=57222269680
	https://www.researchgate.net/profile/Chooi_Lin_Phooi