14th International Symposium on Buckwheat

(Diversifying food systems for Health and Nutritional security)

Date: September 3-6, 2019

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Paper submission link: https://easychair.org/conferences/?conf=14thisb

Background

Fagopyrum, an important non-poaceous pseudocereal belonging to the family Polygonaceae, is an economically crop with strong potential as a nutraceutical as well as a forage crop. Even though buckwheat is considered to be a minor crop, it is an indispensable food in the temperate and hill regions of India, China, Russia, Ukraine, Kazakhstan, parts of Eastern Europe, Canada, Japan, Korea and Nepal. The plant is a rich source of nutraceutical compounds including vitamins, antioxidants, proteins, dietary fibre, rutin and trace elements. Buckwheat flour is one of the best sources of high-quality proteins in the plant kingdom. While the presence of anti-nutritional factors including tannins and protease inhibitors confers low digestibility to buckwheat protein, absence of gluten in buckwheat flour enhances its potential use in gluten-free diets. Buckwheat flour is also known to reduce and stabilize blood sugar levels following meals, a key factor in preventing diabetes and obesity. The hypoglycemic effect of buckwheat flour has been attributed to the presence of the rare carbohydrate compounds called "Fagopyritols" (especially D-chiro-inositol), of which buckwheat is by far the richest food source, yet discovered. Despite several reports on the beneficial effects of buckwheat in prevention of human diseases, little attention has been devoted to the variability of biochemical and physiological traits in different buckwheat genetic resources. The idea of producing functional food using buckwheat seeds and plants sets new breeding targets such as high levels of bioactive compounds. While the genus *Fagopyrum* is comprised of both self- as well as cross- pollinated species, the occurrence of dimorphic heterostyly renders some of the species self incompatible. This necessitates investigation of the molecular mechanisms involving self-incompatibility processes.

The 14th international Symposium shall discuss on the current status of knowledge on the genus *Fagopyrum* as a model system for exploring the regulatory controls in such processes. With a focus on "Diversifying food systems for health and nutritional security" the Symposium will dwell upon issues related to intensifying the use of Buckwheat grains as a food crop so as to diversify the nutritional basket available to mankind. The symposium would also enhance our knowledge on regulatory controls associated with plant morphological evolution, barriers in sexual compatibility, synthesis and accumulation of bioactive molecules, in non model crop systems such as buckwheat.

Important Dates

Symposium date: September 3-6, 2019

Field tour to: Kaziranga National Park, September 7-8, 2019

Brain storming session: September 9, 2019 at Biodiversity International, New Delhi

Abstract submission deadline: June 29, 2019

Last Date of Early Registration: June 29, 2019

Technical Sessions

Sessions	Name
Session I	Germplasm resources, Evolution and Developmental Biology
Session II	Genetics, Breeding and Molecular Biology
Session III	Bioactive molecules in Buckwheat
Session IV	Metabolite engineering for value addition
Session V	Physiology and cultivation practices
Session VI	Processing technology and buckwheat as a Functional food
Session VII	Buckwheat in human Health

Each session would have at least one key note speakers and 3 invited talks followed by paper presentations

About Shillong

It is the capital and hill station of Meghalaya, also known as "The Abode of Clouds", one of the smallest states in India. It is the headquarters of the East Khasi Hills district and is situated at an average altitude of 4,908 feet (1,496 m) above sea level, with the highest point being Shillong Peak at 6,449 feet (1,966 m).

Shillong can also be reached by air from Kolkatta (CCU). The airport at Shillong (SHL) is located at Umroi, 24 km (14.9 mi) from Shillong. Air India operates flights from the airport to Kolkatta (CCU). Air India operates regular flights from Kolkatta Shillong. The organizers would make arrangements for receiving the participants at Shillong airport.

Call for Papers

Authors are invited to submit full papers for consideration (maximum 12 Pages). Submission of paper must be original and should not have been previously published or under consideration for publication. All accepted papers will be sent for peer review and the corresponding author will be notified of the outcome of the review process.

Registration Fee

Deadlines for early bird registration: June 31, 2019
Deadline for abstract submission: June 31, 2019

Registration fee	Early bird payment	Late registration
Registration fee for full delegates	US$ 300.00	US$ 350.00
Participants from SARC countries	US$ 200.00	US$ 250.00
Students	US$ 200.00	US$ 250.00
Accompanying persons	US$ 250.00	US$ 300.00

Committees

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