Science Setu Webinars by NIPGR

"Understanding role of sugar signal transduction in regulating plant growth development and stress responses"

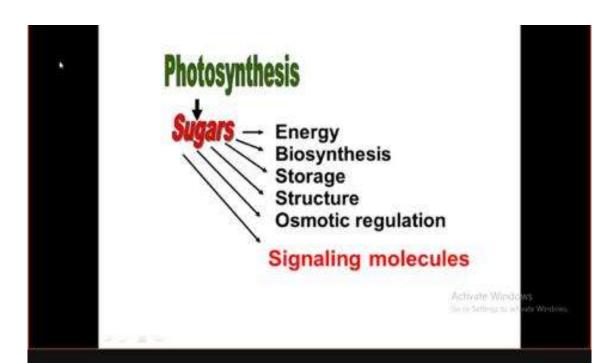
Press-Note

Date:09-07-2021, Friday

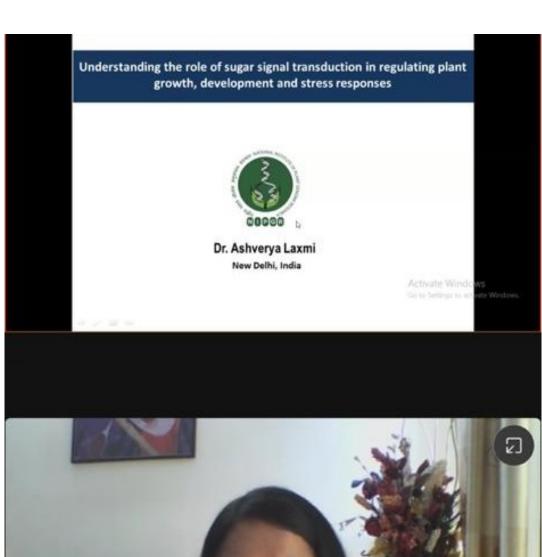
Resource person: Dr. Ashverya Laxmi, Scientist V, NIPGR

The Department of Biotechnology, Government of India, has planned "Science Setu" as a virtual platform to connect research Institutes with undergraduate students. Under this, our college has been assigned to National Institute of Plant Genome Research (NIPGR), New Delhi. NIPGR is an autonomous institution aided by the Department of Biotechnology. Research at NIPGR focuses on functional, structural, evolutionary and applied genomics of plants, including crop plants. Through the Science Setu program, our students and faculty virtually connect with NIPGR, New Delhi and got to know about the multifarious kinds of plant based research. It is a unique opportunity for science students at undergraduate level to get an exposure to high-level research.

Dr. Pinky Agarwal, Scientist, NIPGR gave welcome note on this event. Resource person: Dr. Ashverya Laxmi, Scientist V, NIPGR started her lecture by giving an introduction and physiological role of sugar molecules. Sheemphasized on the role of sugar signal transduction in regulating plant growth, development and stress responses. She started her talk with an example of AtHXK1 mutant lines, in which AtHXK1 overexpression lines are hypersensitive while antisense expression lines are hyposensitive towards glucose. In addition, she discussed about her research on how glucose regulates many aspects of early seedling root growth and development in *Arabidopsis thaliana*. Further, she explained the role of glucose in acquired thermotolerance, SnRKs, flz6, flz10 mutants and regulating mechanism behind stress responses. Her webinar was very resourceful. Faculty of Science and total 7science students attended the event. Dr. Pinky Agarwal, Scientist, NIPGR attended the questions of the participants and gave vote of thanks. It was an intellectual and exciting experience for all the participants.

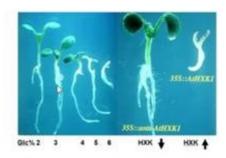








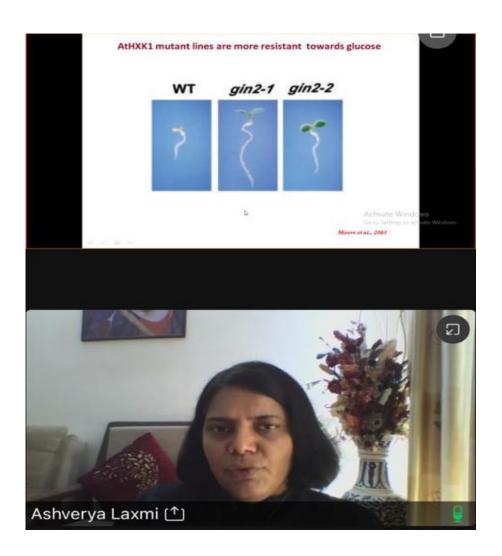
AtHXK1 overexpression lines are hypersensitive while antisense expression lines are hyposensitive towards glucose

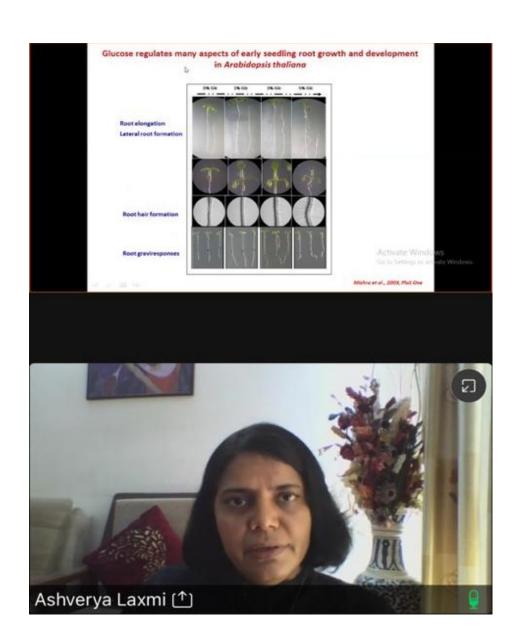


Overexpression-Antisense expressionHypersensitive Hyposensitive

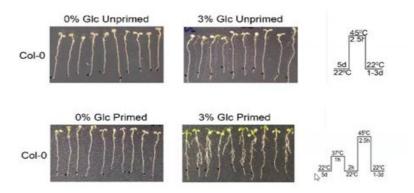
Activate Wind

Jang and Sheen, 2003





Glucose plays a role in acquired thermotolerance





Chat with Everyone

Pinky Agarwal:

Please write the name of your college, for reporting to DBT.

Shikha Vashist:

Ms.Shikha Vashisht, Kanya Maha Vidyalaya, Jalandhar

riya kumar:

Riya Kumar Meerut College, Meerut Uttar Pradesh

Supriya kammar:

Supriya S Kammar, JSS Academy of Higher Education and Research, Mysore, Karnataka.

JYOTI SANKAR PADHY:

Jyoti Sankar Padhy
MSc (Plant Breeding and
Genetics)
Bidhan Chandra Krishi
Vishwavidyalaya, WestBengal,
India

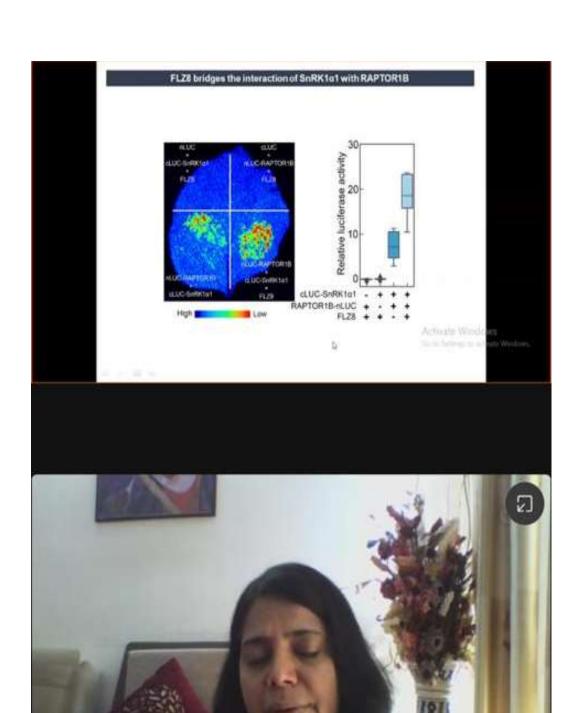
Rajeshwari Pathak:

Rajeshwari Pathak bsc

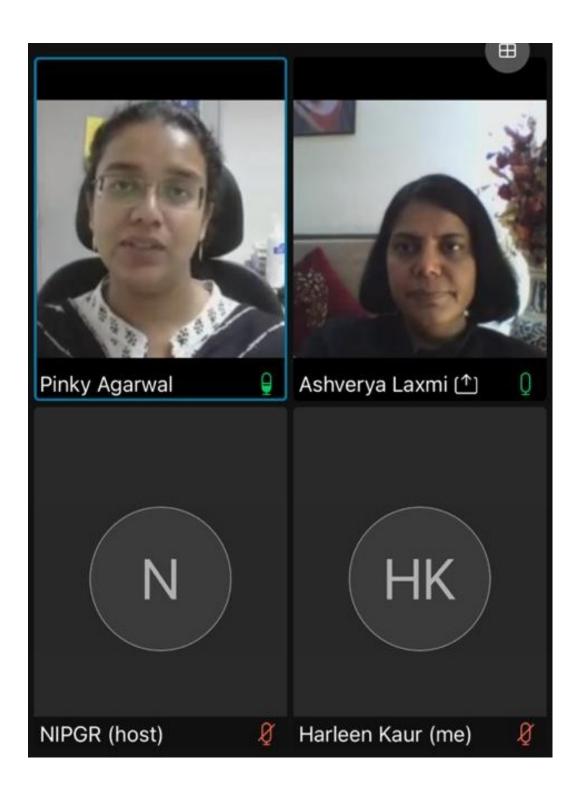
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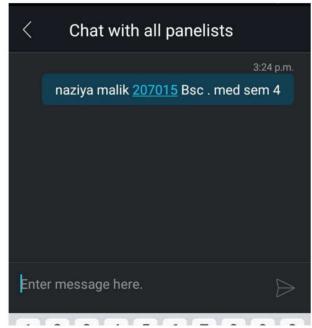
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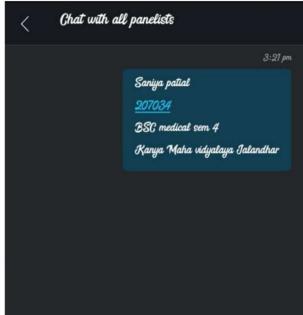
Sand



Ashverya Laxmi 🐴







Chat with all panelists

kritika thakur KMV COLLEGE JALANDHAR

3:23 PM

Chat with all panelists

3:24 p.m.

naziya malik 207015 Bsc . med sem 4

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