



Fascination of Plants Day May 2022



About the program

1. Google form: <https://forms.gle/fjG6sXJ6aakipbtR9>
2. Google Meet Link: <https://meet.google.com/ecd-gocz-tdw>
3. Pondicherry University Link: https://www.pondiuni.edu.in/university_news/fascination-of-plants-day-2022-webinar-department-of-biotechnology/
4. Date: 13th May 2022
5. Time: 10 AM- 1:30PM
6. Certificate of participation would be given



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Invite talk 1 : Prof. Baishnab Charan Tripathy

Link: <https://www.sharda.ac.in/faculty/details/baishnab-charan-tripathy>

TITLE: Why Plants evolved green?

About the speaker:

Education:

- Basic degrees in Botany from Utkal University
- Ph.D. from Schools of Life Sciences and Environmental Sciences, JNU, New Delhi.

Post-Doctoral Research training

- 1981-1987
- Worked in the USA, Ohio State University - Bioenergetics of chloroplast and mitochondria
- University of Illinois (1984-87) – Heterogeneity of chlorophyll biosynthesis

Profession

- Served in School of Life Sciences, JNU, New Delhi
- Dean, School of Life Sciences, JNU
- Worked as Vice-Chancellor of historic Ravenshaw University, Cuttack, Odisha
- Conducted education reforms and infrastructure developments in the university.

ACADEMIC AND RESEARCH CONTRIBUTION

Areas of interests: Molecular Plant Physiology, Photobiology and Biotechnology

- Photosynthesis
- Plant senescence in relation to chlorophyll metabolism
- Suppression of photomorphogenesis by red light mediated by phytochrome-A
- Cloned the *porC* gene and demonstrated its function in chlorophyll biosynthesis
- Overexpression of Chlorophyllide a oxidase (CAO) – converts chlorophyllide a to chlorophyllide b – altered the chlorophyll a/b ratio – light-harvesting function

NASA:

- Worked on space-grown plants and studied the effect of zero (micro) gravity on photosynthesis that could generate oxygen for human survival in space.

RESEARCH EXPERTISE: Photosynthesis, Abiotic Tolerance, Space Biology, Phytochromes.

CITATIONS	h-index	i10-index
4642	39	66

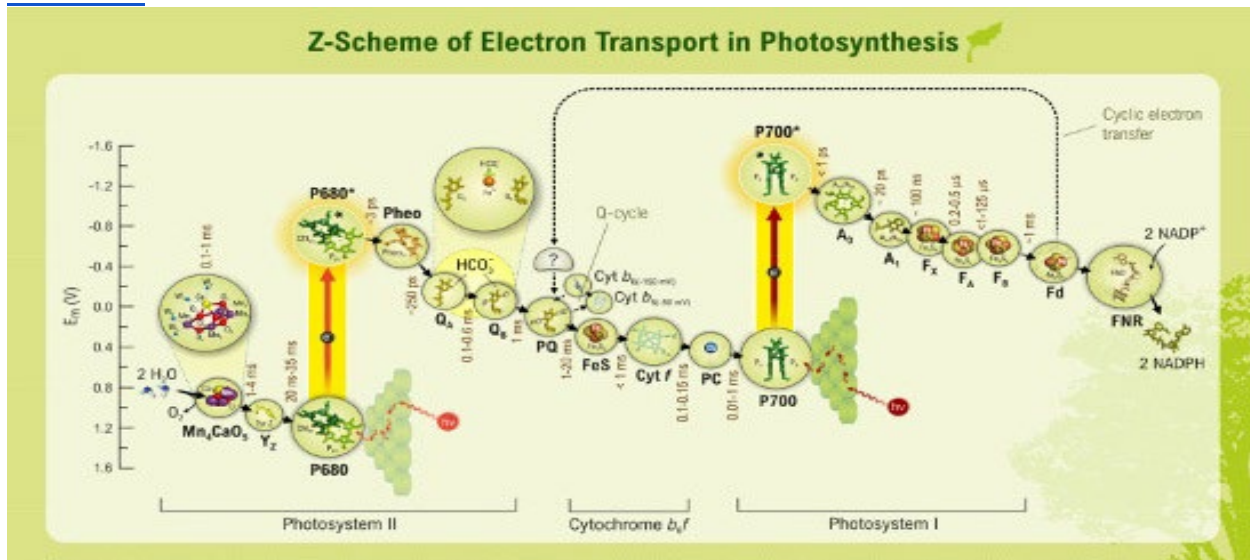


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Photosynthesis Video Link:

https://in.video.search.yahoo.com/search/video;_ylt=AwrzxQfL2ti6QQAPgG7HAX.;_ylu=Y29sbwNzZzMEcG9zAzEEdnRpZAMEc2VjA3BpdnM-?p=photosynthesis+is+easy&fr2=piv-web&type=E211IN826G91686&fr=mcafee#id=49&vid=3ac04c7421c49bf4f71cd913b3a339d2&action=view





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Invite Talk 2: Dr. Sunil Mukherjee

Link: <https://youtu.be/p2iflV7EbeU>

Title: Removal of Plant DNA viruses using Tools of CRISPR-Cas9

About the speaker:

Education

- Basic degrees in Physics
- Ph.D. degree (1983) – Biophysics.

Post-Doctoral Research training

- Biochemistry Department of John Hopkins University, USA
- Microbiology Department of Duke University, USA

Worked as scientist at UN Centre

- International Centre for Genetic Engineering and Biotechnology (ICGEB), Since 1990.
- Their most recent publication is 'Management of Gemini viruses focusing on small RNAs in tomato.'

Academic and Research Achievements

- DNA replication since 1984.
- Pea chloroplast DNA replication.
- Gemini viruses.
- A yeast model of Gemini viral DNA replication.
- Three RNAi suppressors Tomato transgenics.

Awards and Honours

- Elected as a Member of Guha Research Conference (1998)
- Fellow of the National Academy of Sciences (India), Allahabad (2001)
- Indian Academy of Sciences, Bangalore (2005).

His research expertise includes DNA replication, RNAi, Gemini virus.

CITATIONS	h-index	i10-index
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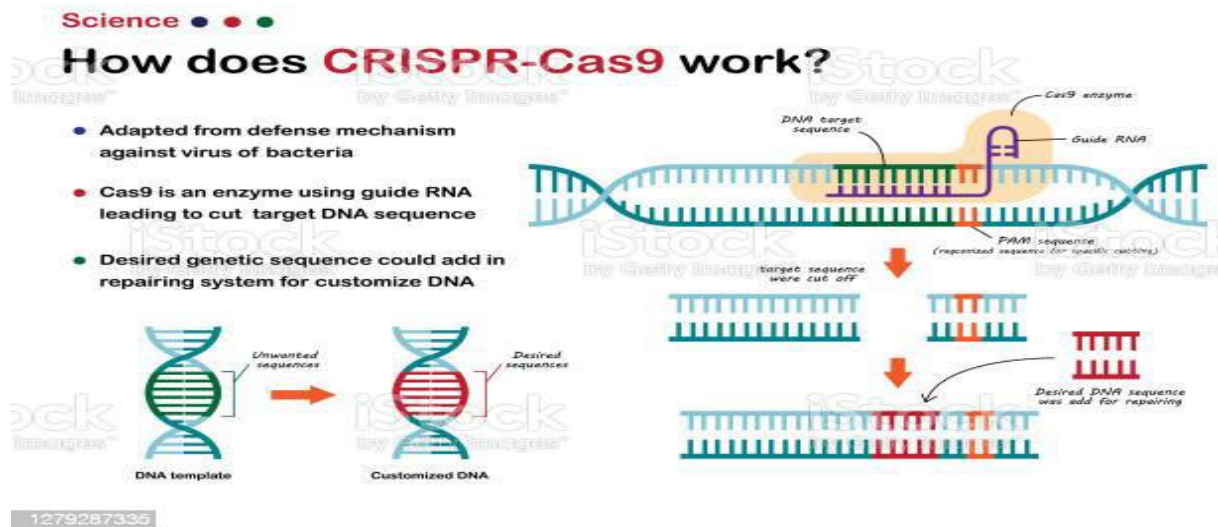


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CRISPR- Cas Video Links:

- <https://youtu.be/4knlPgD6h1U>
- <https://wyss.harvard.edu/media-post/gene-editing-mechanism-of-crispr-cas9/>
- https://in.video.search.yahoo.com/search/video;_ylt=AwrzxQ1MWtiqCMADwC7HAX.;_ylu=Y29sbwNzZzMEcG9zAzEEdnRpZAMEc2VjA3BpdnM-?p=crispr+cas9+wikipedia&fr2=piv-web&type=E211IN826G91686&fr=mcafee#id=2&vid=63ddfa4163b6603fa6b3ed31f2d51f74&action=view



Thanking you,

Sincerely

Dr. Lata Shukla.



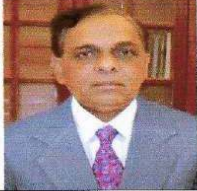

Pondicherry University

School of Life Sciences

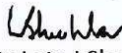
Department of Biotechnology

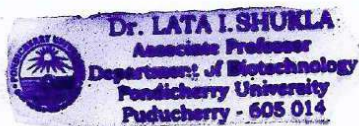
The seventh international "Fascination of Plants Day" (FoPD) -2022, under the umbrella of European Plant Science Organization (EPSO) is celebrated across the world. The objective is to realise importance of plants, its bio-prospecting and enthuse the younger population, about plant sciences research. These broadly include horticulture, forestry, and environment conservation using modern tools of biotechnology. The program includes interactions with eminent plant scientists, the field activities and sharing the plant learning experiences.

As part of the FoPD-2022 celebrations, a webinar is organized by the Department of Biotechnology on 13th May 2022.

Invited Lecture I at 11:00AM Title: Why plants evolved green? Prof B C Tripathy https://www.sharda.ac.in/faculty/details/baishnab-charan-tripathy	
Invited Lecture II at 12:00 PM Noon Title: Removal of Plant DNA viruses using tools of CRISPR-Cas9 Dr. Sunil Mukherjee https://www.youtube.com/watch?v=p2ifV7EbeU	
Web link: https://meet.google.com/ecd-gocz-tdw	
All are cordially invited to join.	

Co-ordinator


(Dr Lata I Shukla)



Head of Department


(Prof Hannah R. Vasanthi)

Dr. A. Hannah Rachel Vasanthi
Professor & Head
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Puducherry - 605 014.