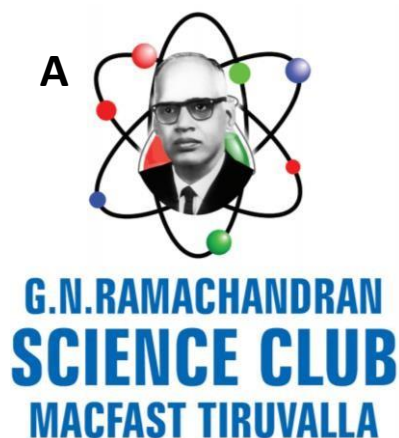


**COMPILED REPORT  
ON  
GN RAMACHANDRAN SCIENCE CLUB  
2016 - 2021**

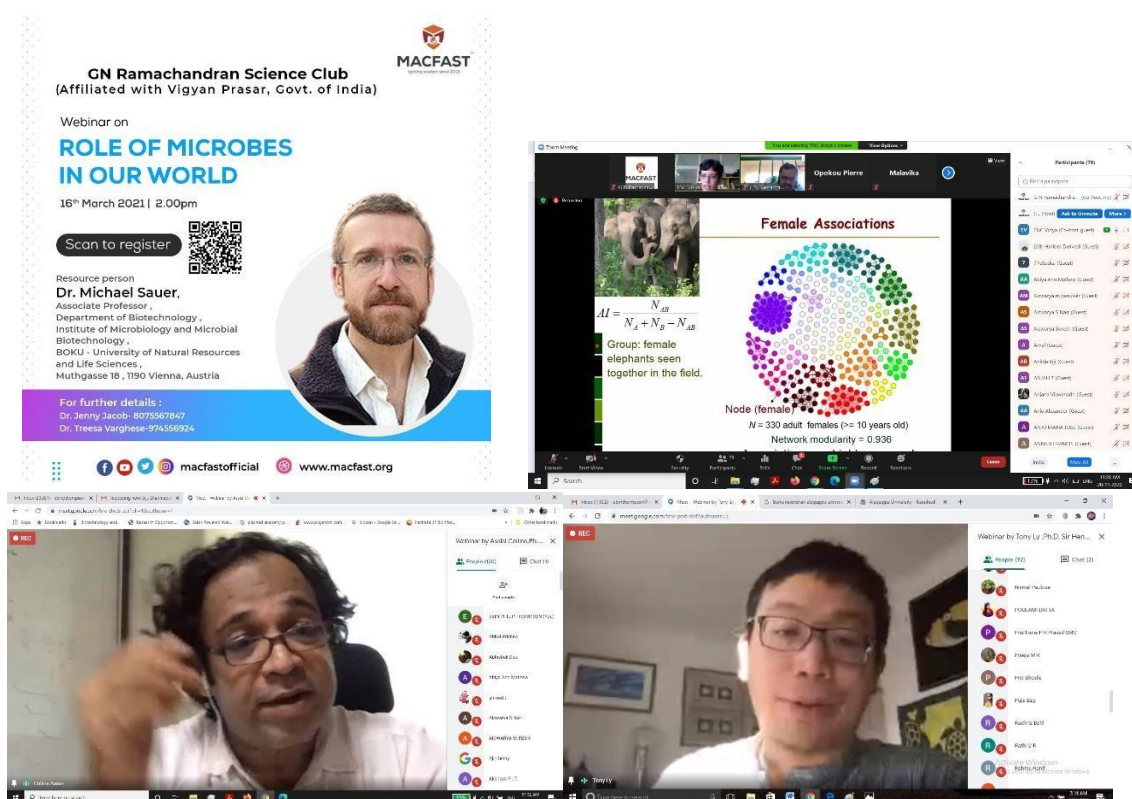
Professor G. N. Ramachandran was a renowned Indian scientist who was a pioneer in the field of biophysics. He has made several landmark discoveries especially in the study of protein structure. The formulation of “Ramachandran Plot” is still used to study and describe protein structure. In addition to being a brilliant scientist he was a wonderful teacher and speaker who inspired many to take up and flourish in science. To honour this great scientist, in 2014, the School of Biosciences initiated the ‘G. N. Ramachandran Science Club’ which is affiliated to Vigyan Prasar, Government of India. The club frequently conducts scientific deliberations and seminars by eminent scientists from around the world. The topics and speakers are chosen with a wholesome perspective to expose students to a wide array of scientific and associated technical and legal aspects. Students are encouraged to interact with the speakers to overcome their inhibitions and to nurture their curiosity.



***(A) G. N. Ramachandran Science Club. (B) Dr. Shijulal Nelson Sathi Scientist C, Rajiv Gandhi Centre for Biotechnology delivering a scientific talk.***

Over the years many scientists working in prestigious national institutes have associated with the G. N. Ramachandran club seminars. Some of these eminent personalities include Prof. Gagandeep Kang, FRS, Director THSTI; Prof. Suddhasatwa Basu, FNASc, FRSC, FICS, Director, CSIR-Institute of Minerals & Materials Technology (IMMT), Bhubaneswar; Dr. Anurag Agarwal, Director, CSIR-IGIB, New Delhi; Dr. Gitanjali Yadav, NIPGR; Dr. Arun Kumar P. (CFTRI); Dr R. P. Singh (CFTRI); Dr Era (NBPGR); Dr. Gopinathan P (IIT-R); Dr Vibin Ramakrishnan, IIT-G; Dr Sandhya Koushika TIFR; Prof. Partha P Majumder, National Science Chair, National Institute of Biomedical Genomics; Dr. Bipin Kumar Gupta, CSIR-NPL; Dr Veda Krishnan, IARI; Dr. Sridhar Sivasubbu, CSIR-IGIB;

Dr. Vishwesh Guttal, IISc; Dr. Debasmita P. Alone, NISER; Dr Vatsala Thirumalai, NCBS; Prof. P Balram, Former Director IISc; Dr. Axel Brockmann, NCBS; Dr. Assisi Collins, Ph.D., Indian Institute of Science Education and Research (IISER), Pune; Prof. S.C. Lakhotia, BHU; Dr. G Umapathy, CSIR-CCMB; Dr Vinay Varshney, FRI Dehradun; Prof. Ramaswamy S.; Padma Shri M Chandra Dathan and Padma Shri. Prof. Dr. Palpu Pushpangadan.



***Clockwise from top-left: Brochures on sessions featuring Dr. Michael Sauer and Dr. Vidya T.N.C. Talks being delivered by Dr. Assisi Collins and Dr. Tony Ly.***

International scientists including Dr. William C. Earnshaw, FRS, University of Edinburgh; Dr. Bruce Alberts, University of California, San Francisco; Dr. Alejandro Sánchez Alvarado, Scientific Director and Investigator at the Howard Hughes Medical Institute; Dr. Christopher P. Baines, University of Missouri; Dr. Sander Granneman, University of Edinburgh, Prof. Robin Allshire, FRS, University of Edinburgh; Dr. Annette Becker, Germany; Dr. Gauri Kulkarni, Wake Forest Institute for Regenerative Medicine North Carolina, USA ; Supriya G. Prasanth Ph.D., University of Illinois; K Prasanth, Ph.D., University of Illinois ; Prof. Rams, University of Purdue; Dr Uday Kishore, Brunel University & University of

Oxford, London; Joshua A. Bell, Smithsonian Institution; Prof. David Harel, Vice President,

Israel Academy of Science and Humanities, Jerusalem; Prof. Jonathan Pines, Institute of Cancer Research, London; Dr. Michael Sauer, University of Natural Resources and Life Sciences Vienna are some of the other noted speakers who have graced the occasion.

One of the highlight sessions at the G. N. Ramachandran science club was the talk and interactive session with the noble laureate Prof. Richard Timothy Hunt in 2018. He delivered the EMBO Keynote Address at the International Workshop on Cell Cycle and Cell Death conducted by the School of Biosciences, MACFAST.



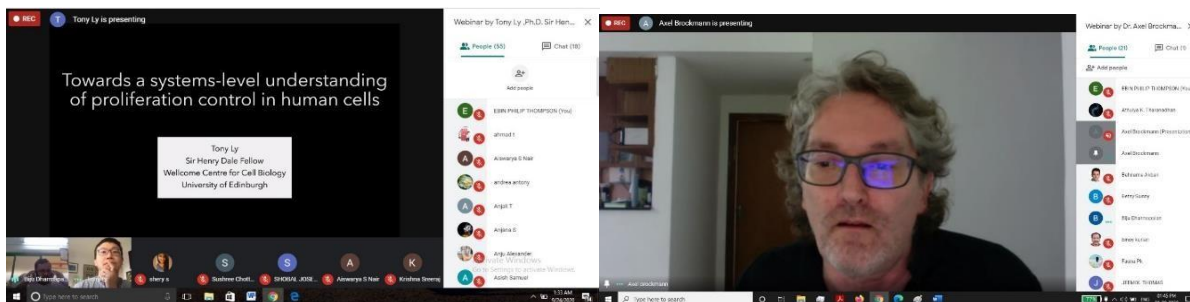
***Prof. Richard Timothy Hunt delivering EMBO Keynote Address at the International lecture Workshop on Cell Cycle and Cell Death conducted by the School of Biosciences, MACFAST in coordination with G. N. Ramachandran Science Club***

In addition to moulding students' scientific temperament, the club is also instrumental in exposing the students to the multifaceted opportunities in science communication and publication, Intellectual Property Rights and entrepreneurship. The science club has hosted Dr. Magdalena Skipper, the editor of the reputed scientific journal *Nature* and Dr. Valda Vinson, the editor of the journal *Science*. Session focusing on Intellectual Property Rights have been organised frequently to provide insights into the possibilities of patenting discovering and technologies. Dr. Majeed, Founder and Managing Director of SAMI's lab, Bangalore and Dr. C. N. Ramchand, CEO, Saksin Life Science Pvt. Ltd, Chennai who are the leaders of renowned biotechnology companies in the country have interacted with the students as a parts of club activities providing them a glimpse into the challenges and opportunities in the entrepreneurship.



***Students interacting with invited scientists at the G. N. Ramachandran Science Club sessions***

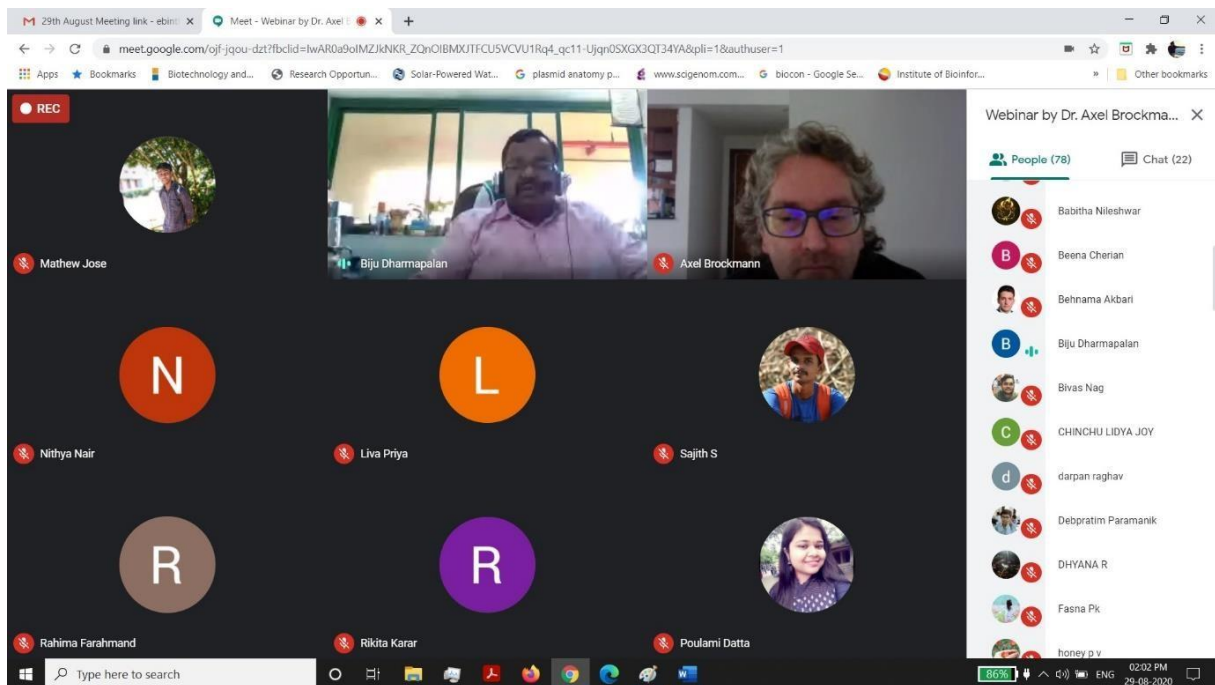
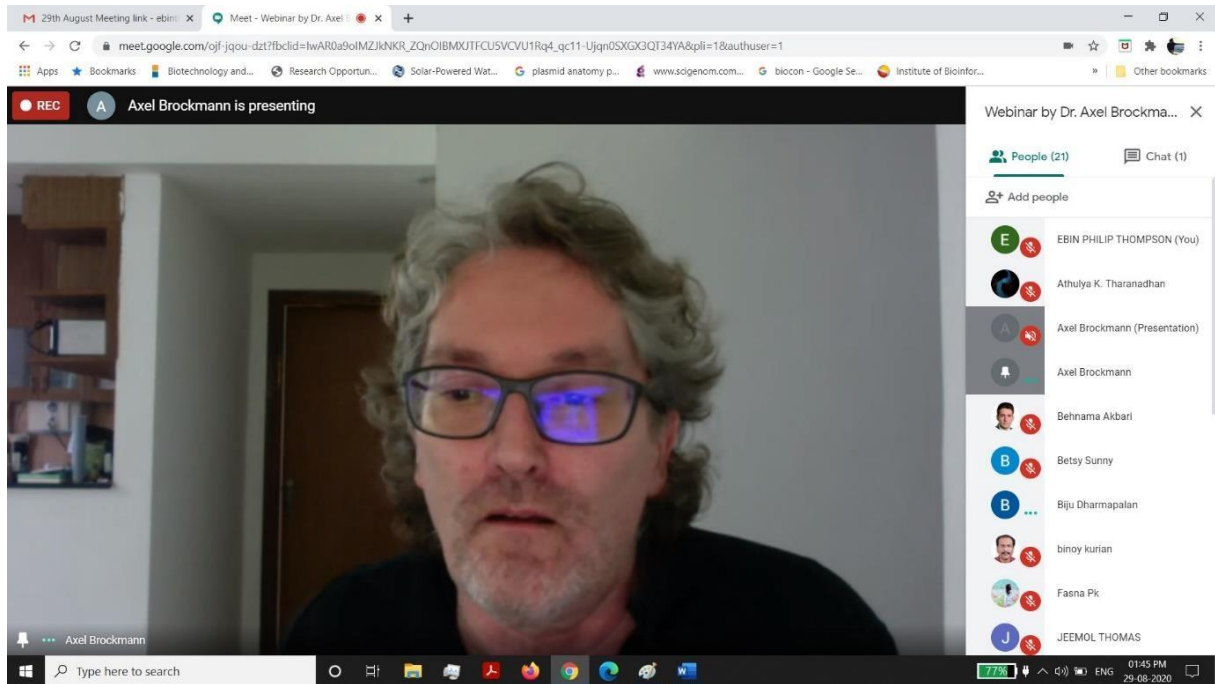
Remarkably, even during the COVID-19 pandemic, the School has persisted and successfully conducted more than 81 webinar sessions. Many of these webinars were also open to attendees from other colleges which include students and faculties. These webinars have been very well appreciated and are attended by large number of participants, many of them from countries such as Afghanistan, Dubai, New Zealand and Nepal.



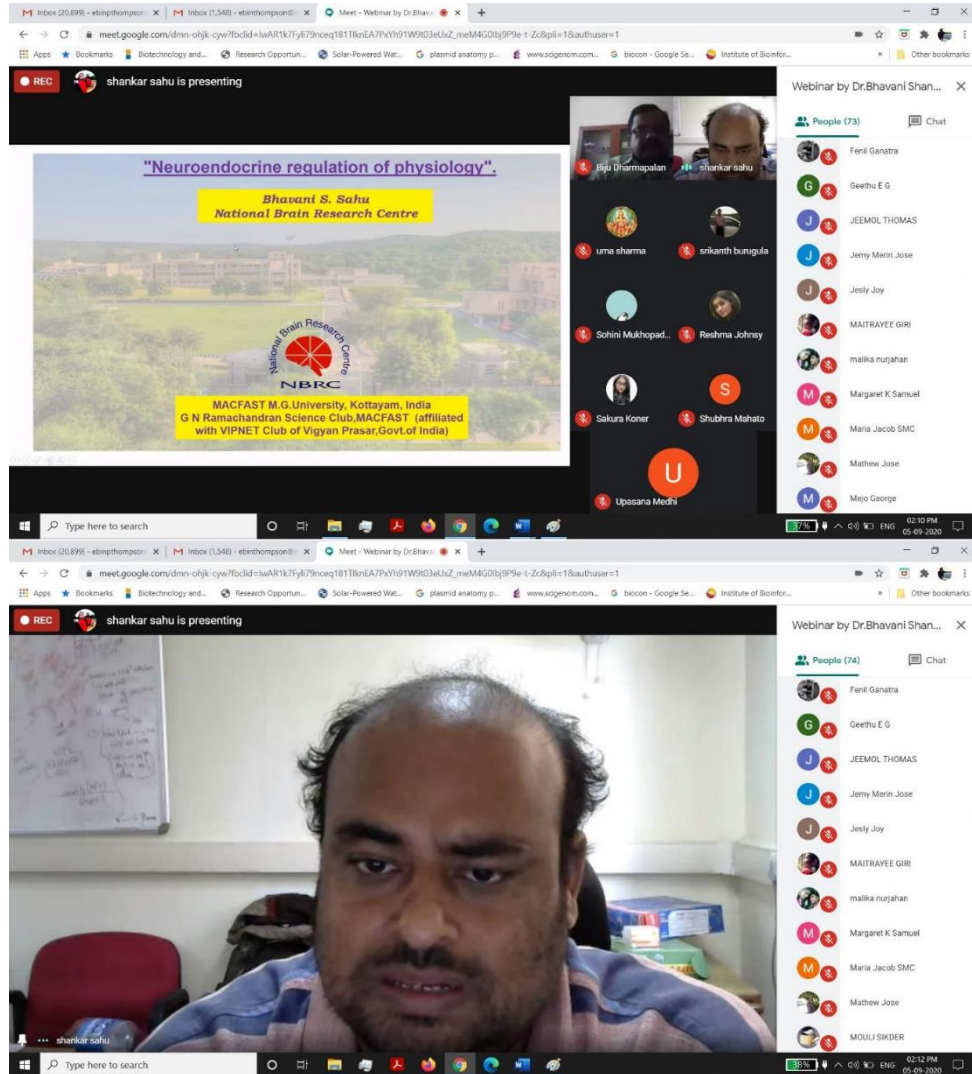
***Online webinars conducted by G. N. Ramachandran Science Club.***

The club has also initiated a “Monday Seminar” series wherein students are encouraged to deliver seminars on current research trends. The science club also organises screening of science documentaries. In addition, the club has organised various sessions focussing on career development of the students and provides timely as training in CV preparation, research methodology, life skill training and career guidance.

**Online talks being delivered by National and International Speakers**



***Dr. Axel Brockmann, National Centre for Biological Sciences, Tata Institute of Fundamental Research, Bangalore delivering a webinar on "Studying Asian Honey Bees"***

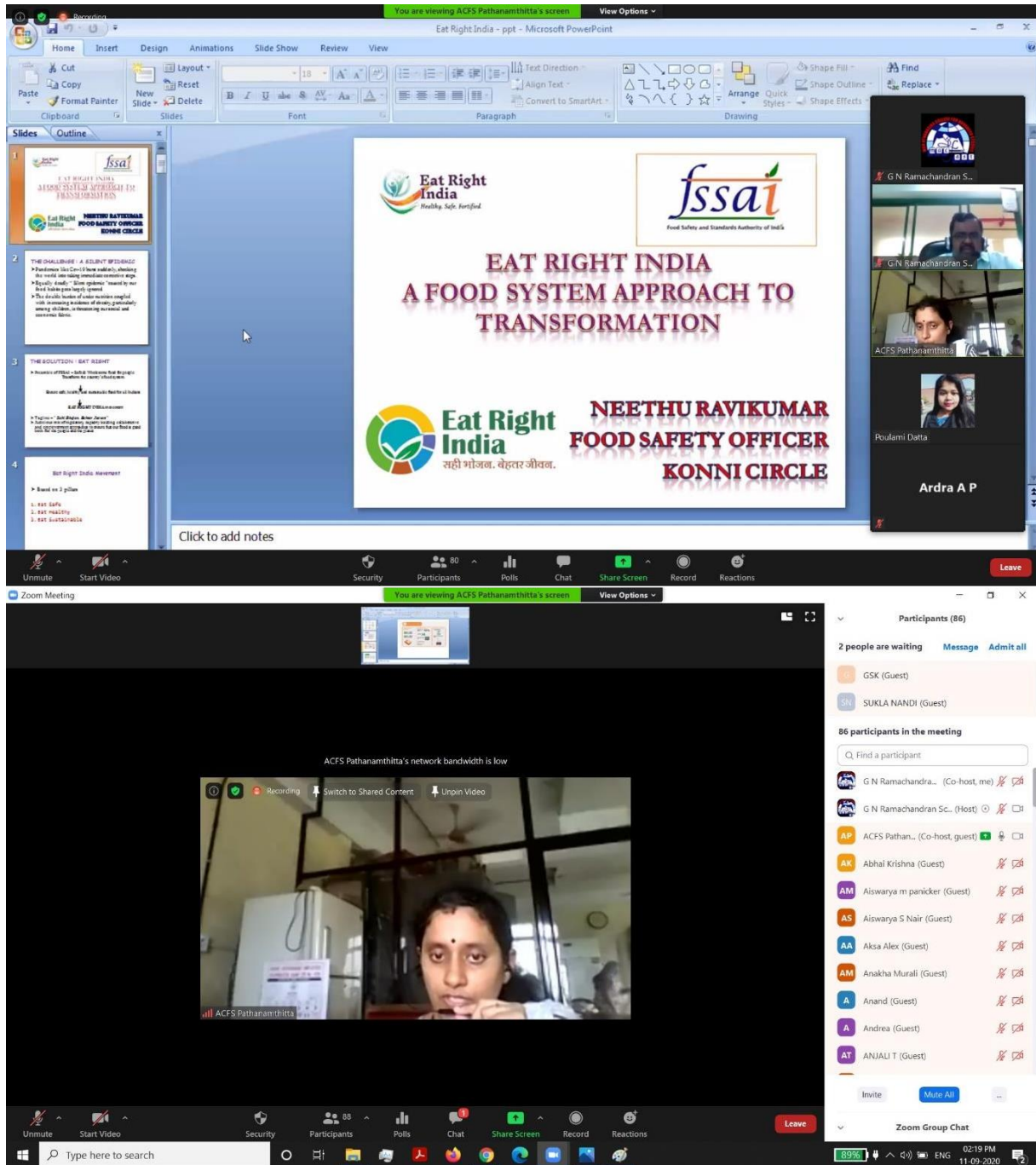


**Dr. Bhavani S Sahu, National Brain Research Centre, Manesar delivering a Webinar on  
“Neuroendocrine regulation of metabolic physiology”**



**Dr. Assisi Collins, IISER Pune, delivering a webinar on Webinar "A theoretical perspective on the coding capacity of olfactory networks"**





The image shows a Zoom webinar interface. The main window displays a PowerPoint presentation titled "Eat Right India - ppt - Microsoft PowerPoint". The slide content includes:

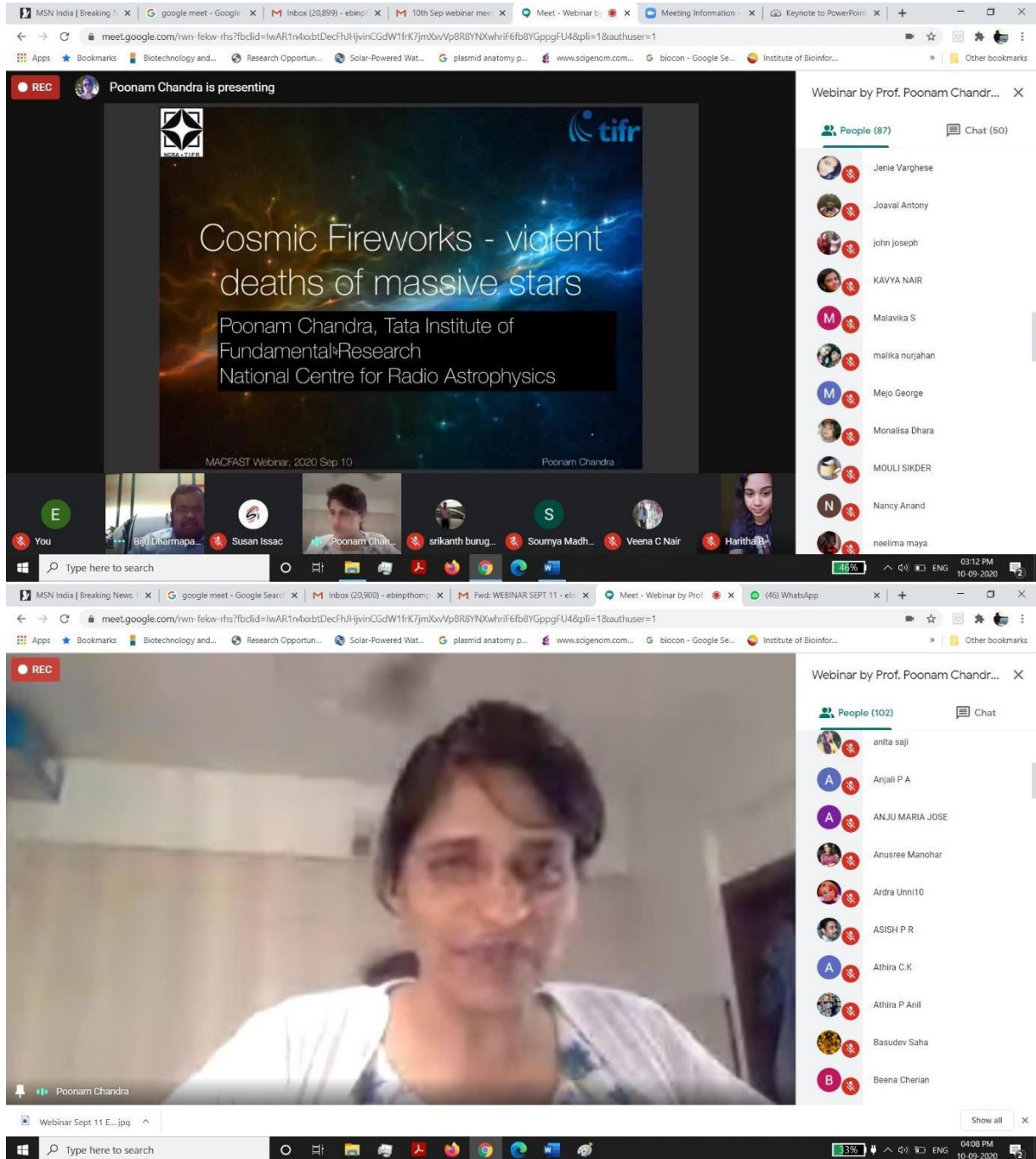
- Logos:** Eat Right India (Healthy, Safe, Fortified) and fssai (Food Safety and Standards Authority of India).
- Text:** "EAT RIGHT INDIA A FOOD SYSTEM APPROACH TO TRANSFORMATION"
- Speaker:** NEETHU RAVIKUMAR, FOOD SAFETY OFFICER, KONNI CIRCLE.
- Footer:** Eat Right India logo and the motto "सही भोजन. बेहतर जीवन."

The Zoom interface shows a list of participants on the right side:

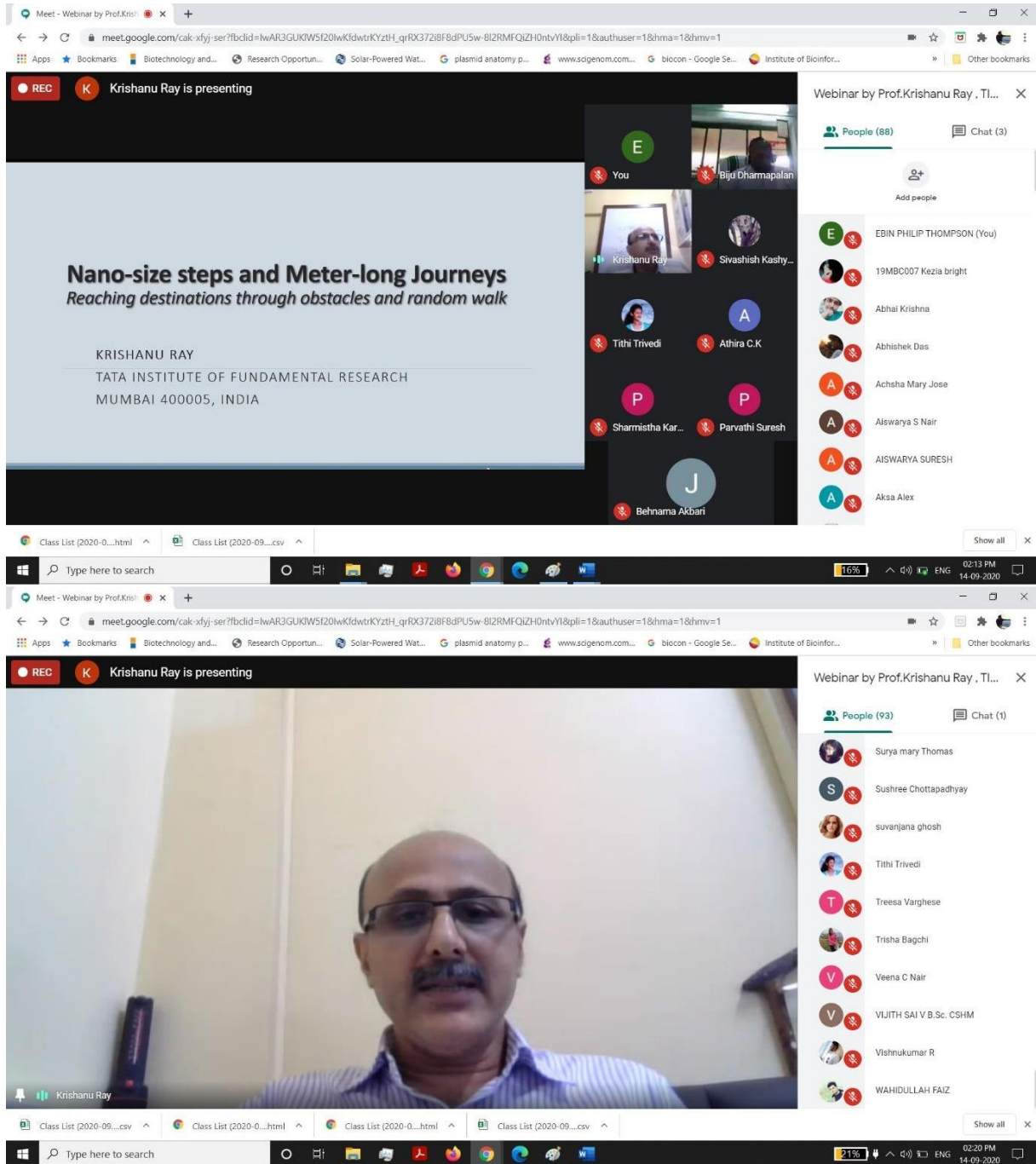
- Participants (86)
- 2 people are waiting (Message, Admit all)
- Guests: GSK, SUKLA NANDI
- 86 participants in the meeting
- Participants in the meeting: G N Ramachandra... (Co-host, me), G N Ramachandran Sc... (Host), ACFS Pathan..., Abhai Krishna (Guest), Aiswarya m panicker (Guest), Aiswarya S Nair (Guest), Aksa Alex (Guest), Anakha Murali (Guest), Anand (Guest), Andrea (Guest), ANJALI T (Guest)

The Zoom meeting controls at the bottom show: Unmute, Start Video, Security, Participants (86), Polls, Chat, Share Screen, Record, Reactions, and a Leave button. The system tray at the bottom right shows the time as 02:19 PM on 11-09-2020.

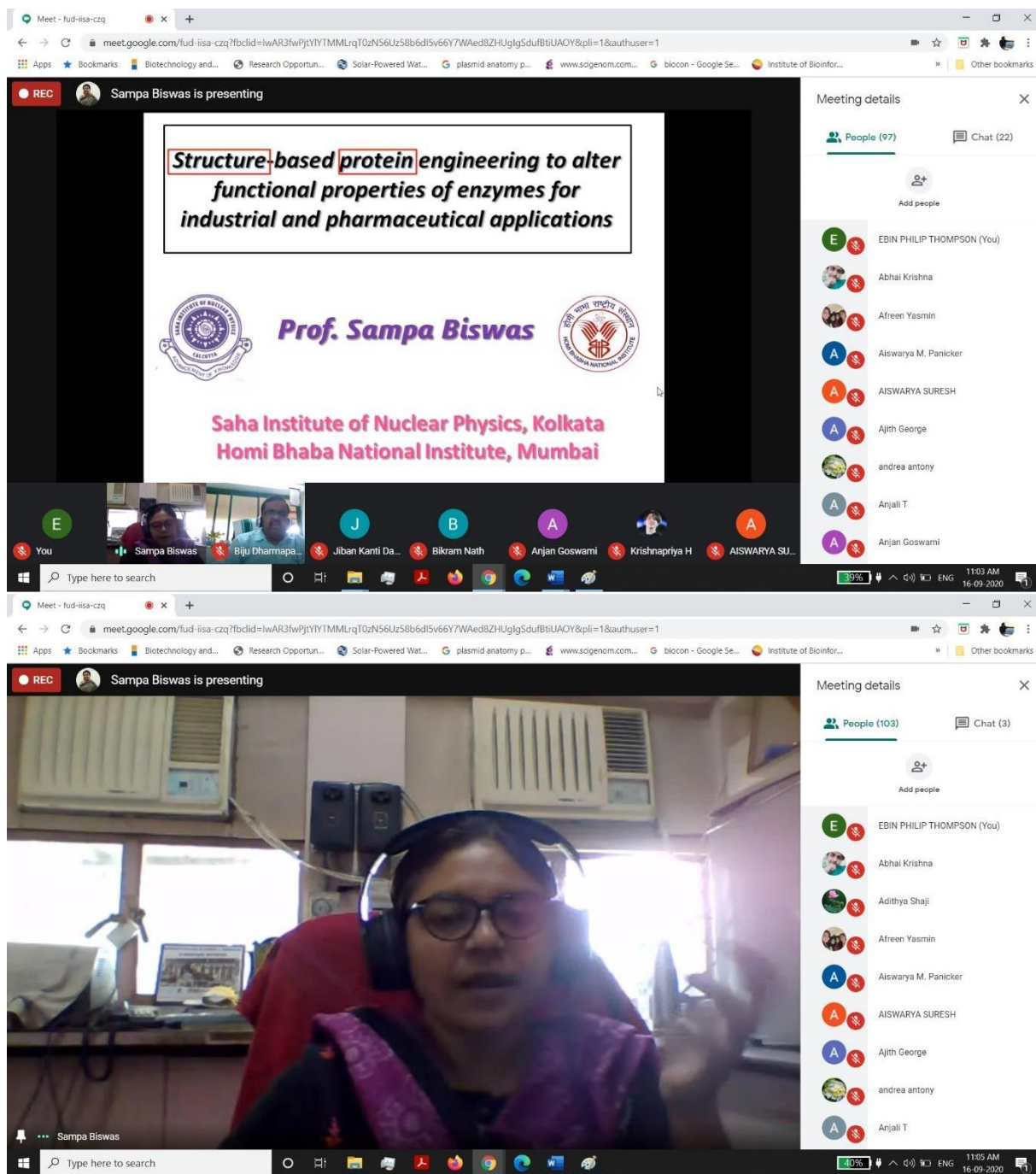
**Neethu Ravikumar, Food Safety Officer Konni Circle, Department of Food Safety Pathanamthitta, Govt.of Kerala delivering a webinar on "Eat Right India-A Food System Approach for transformation"**



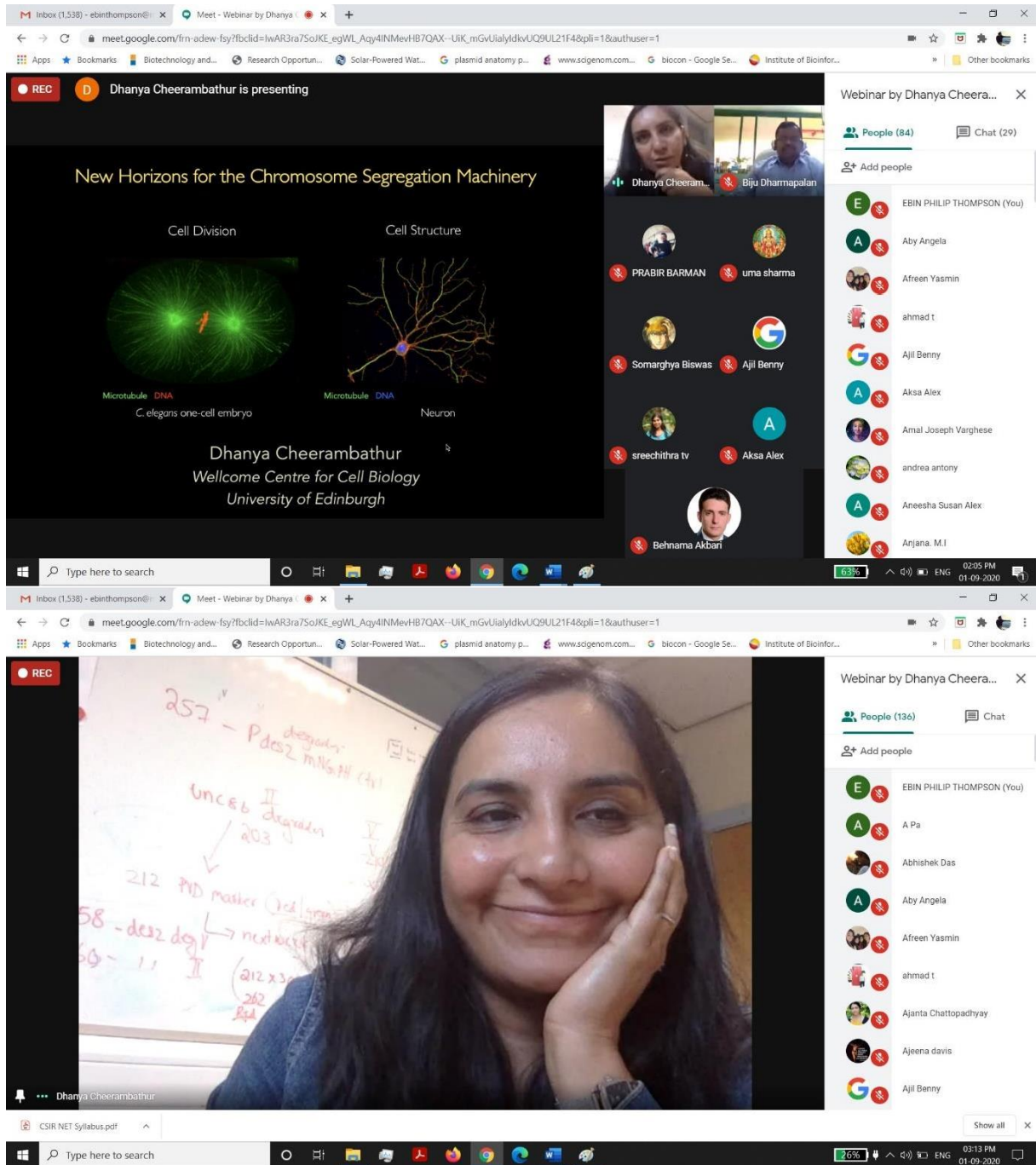
**Dr. Poonam Chandra, Associate Professor, National Centre for Radio Astrophysics, Tata Institute of Fundamental Research Pune, delivering a webinar on "Cosmic Fireworks: Violent death of exotic stars"**



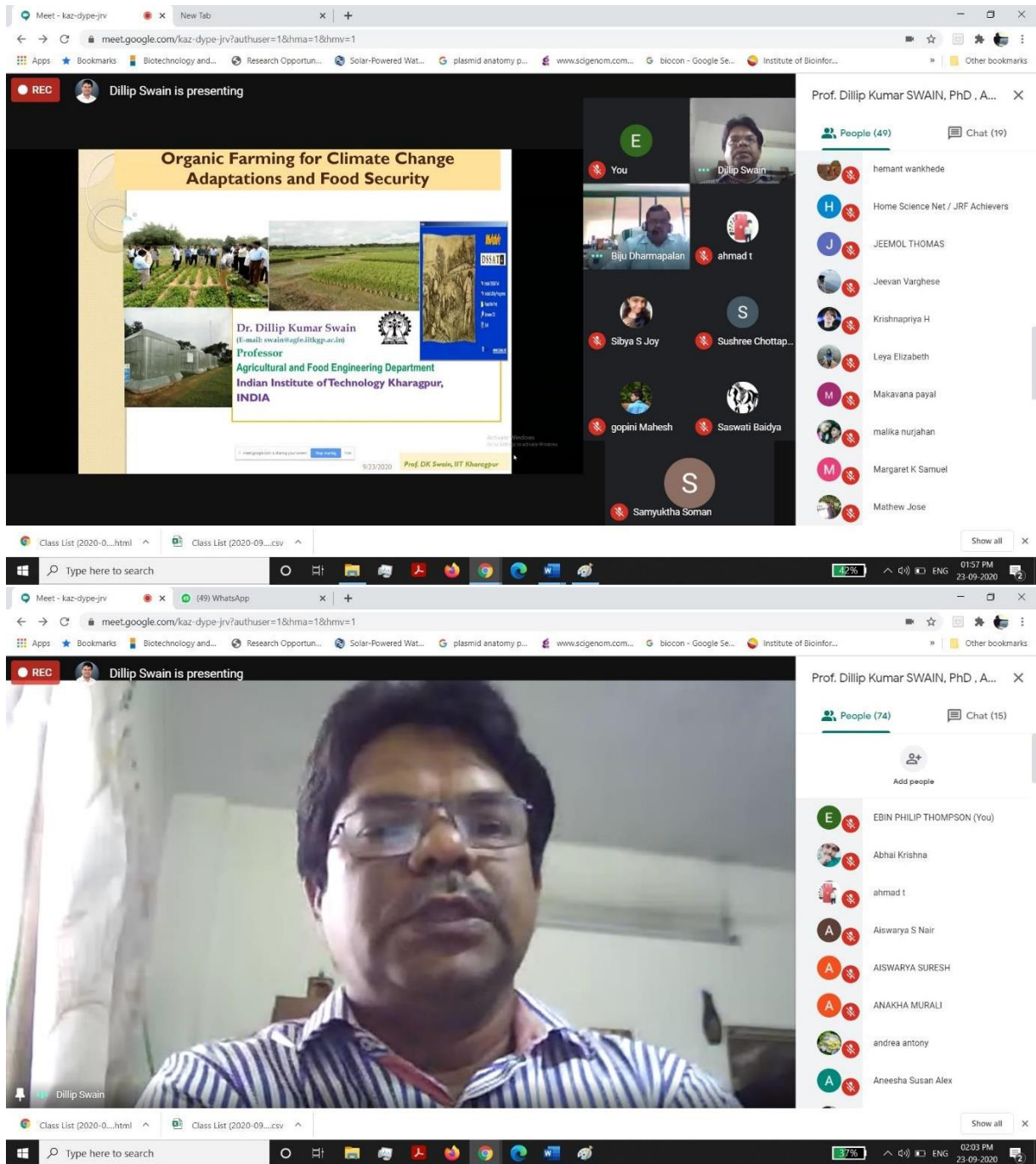
**Dr. Krishanu Ray, Department of Biological Sciences, Tata Institute of Fundamental Research delivering a webinar on “Nano-size steps and meter-long journeys– Reaching destinations through obstacles and random walk”**



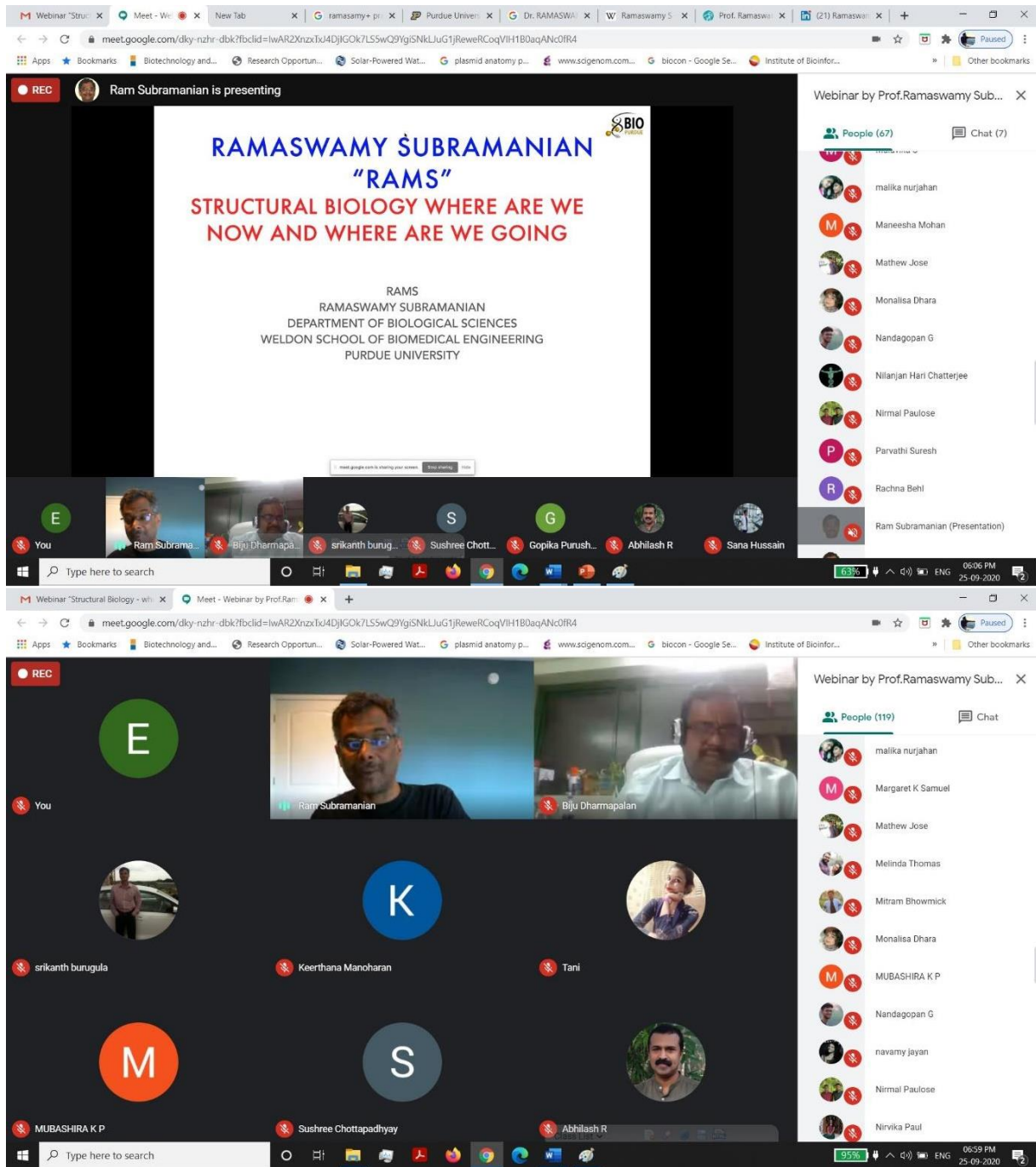
**Dr. Sampa Biswas, Crystallography & Molecular Biology Division, Saha Institute of Nuclear Physics, Kolkata delivering a webinar on “Structure-based protein engineering to alter functional properties of enzymes for industrial and pharmaceutical**



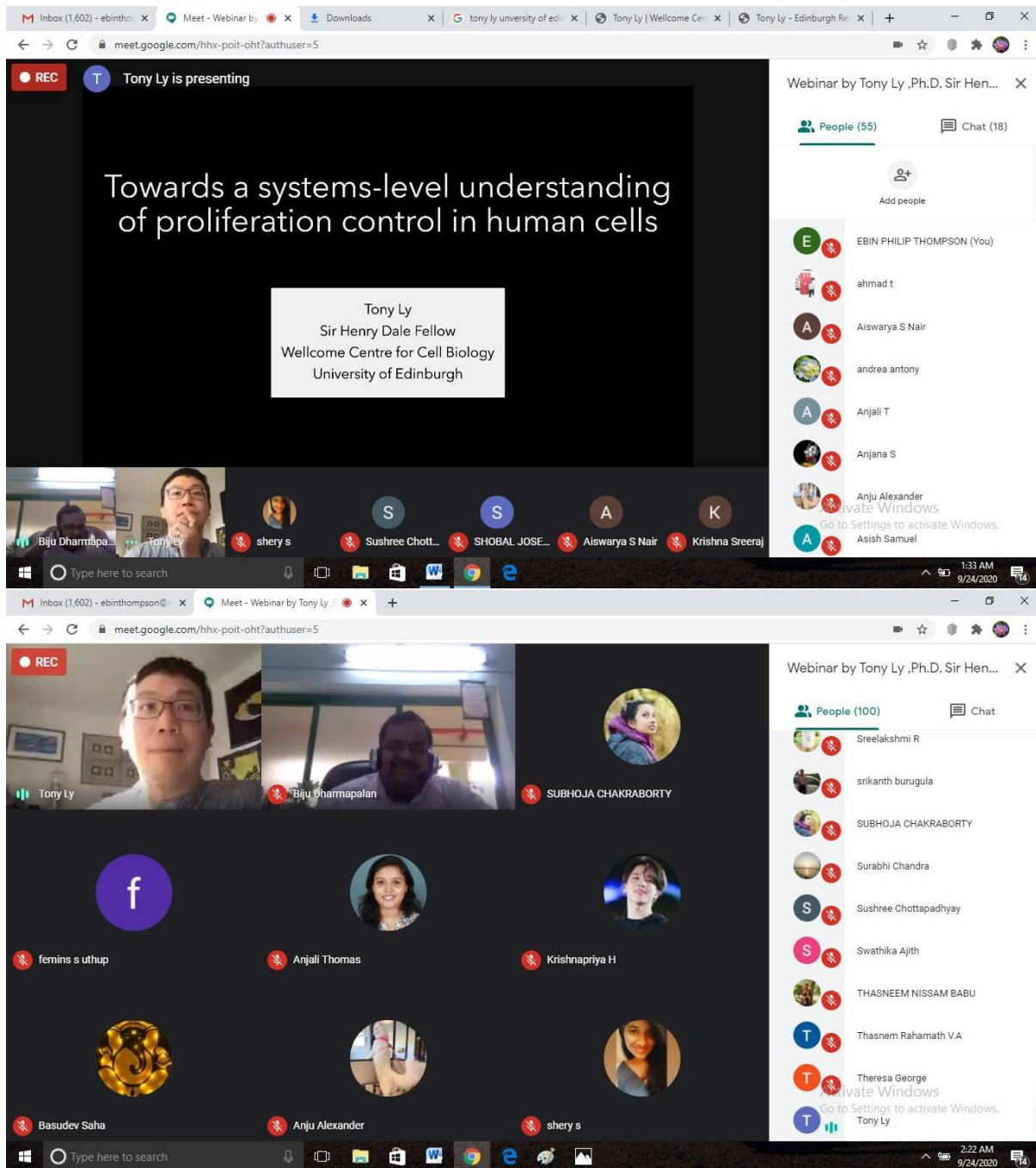
**Dr. Dhanya Cheerambathur, Wellcome Centre for Cell Biology, University of Edinburgh, Scotland UK delivering a webinar on “New Horizons for the Chromosome Segregation Machinery”**



**Dr. Dilip Kumar Swain, IIT Kharagpur delivering a webinar on organic farming for climate change adaptation and food security**

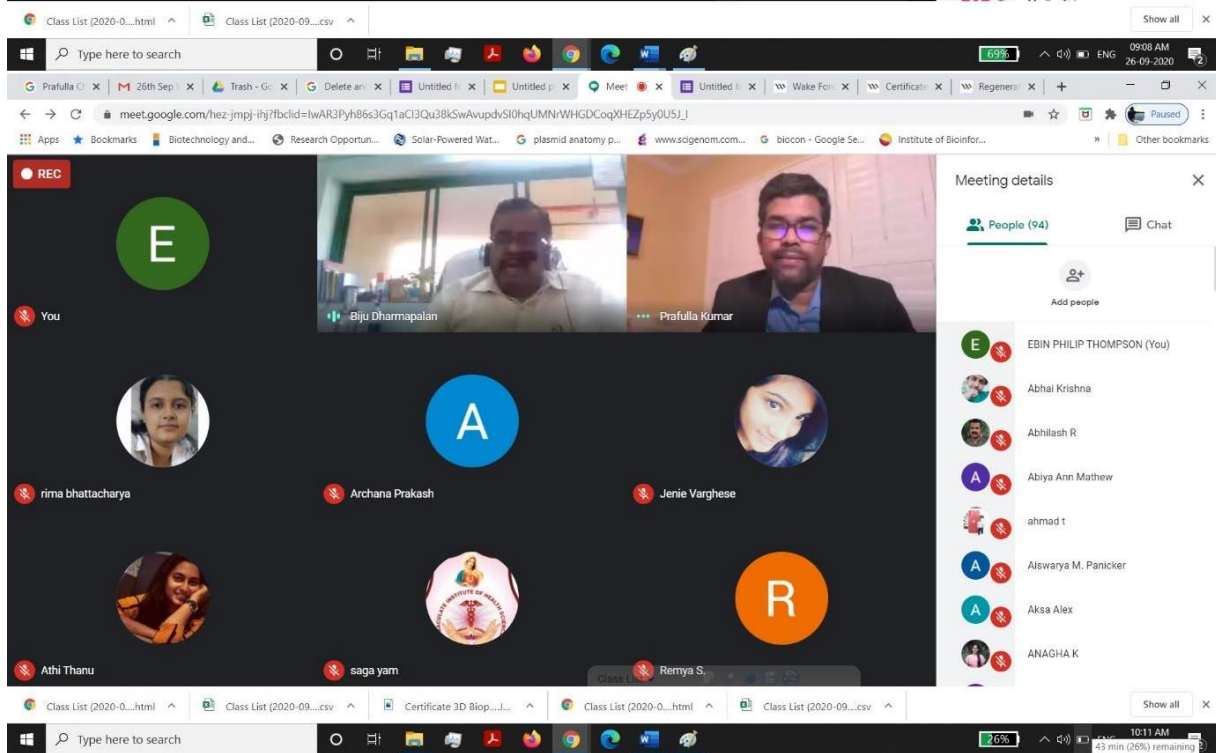
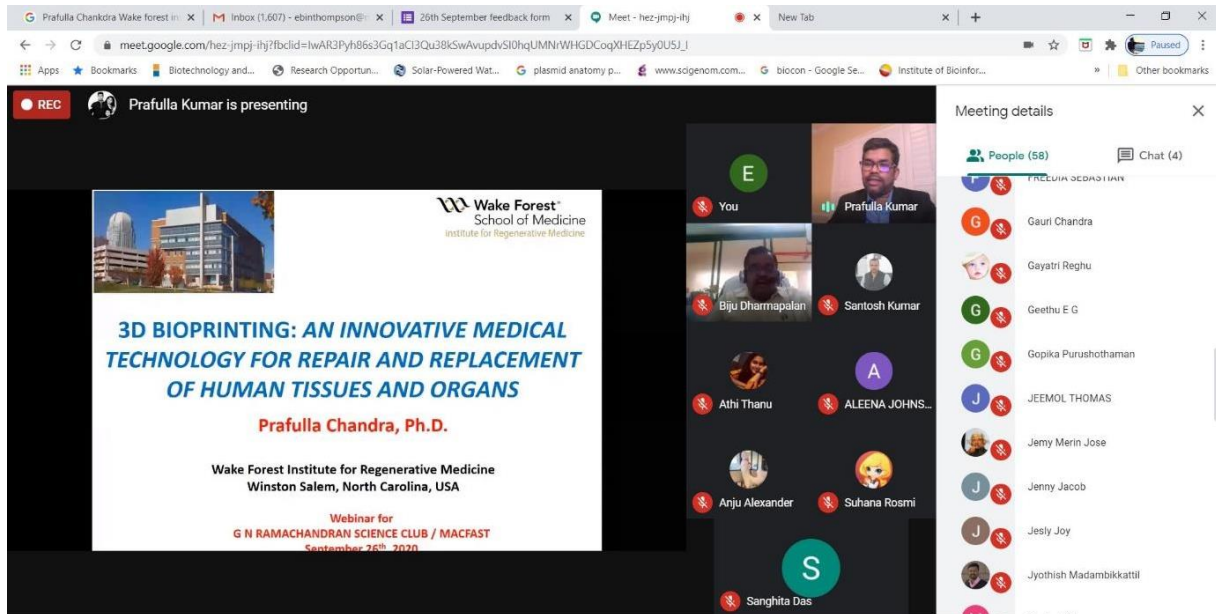


**Ramaswamy Subramanian, Weldon school of biomedical engineering, Purdue University delivering a talk on “Structural Biology : Where are we now and where are we going”**

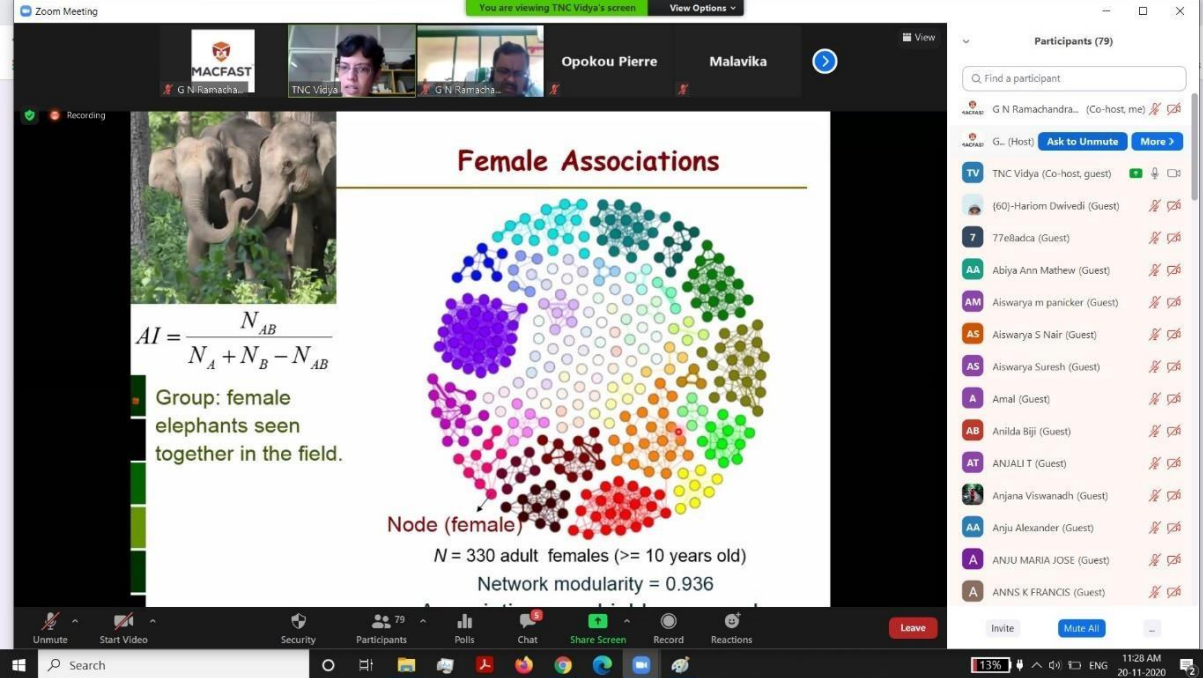


**Tony Ly, Wellcome Centre for Cell Biology, University of Edinburg delivering a webinar on “Towards a system level understanding of proliferation control in Mammalian cells using MS-based proteomics”**



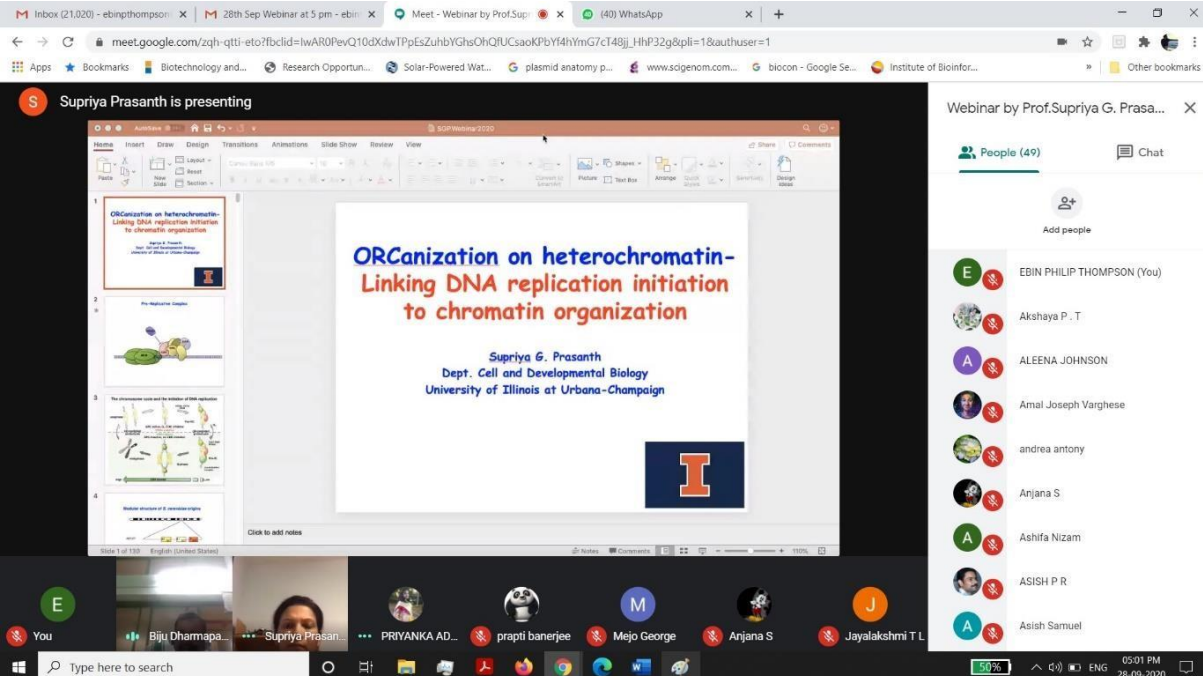


**Dr. Prafulla Chandran, Wake Forest Institute for Regenerative Medicine delivering a talk on “3D Bioprinting: An Innovative Medical Technology for Repair and Replacement of human tissues and organs”**



The screenshot shows a Zoom meeting interface. The main content is a presentation slide titled "Female Associations". On the left, there is a photo of two elephants and the formula  $AI = \frac{N_{AB}}{N_A + N_B - N_{AB}}$ . Below the formula, it says "Group: female elephants seen together in the field." The main part of the slide features a circular network diagram with nodes of various colors (purple, blue, green, yellow, red) arranged in a spiral pattern. A label "Node (female)" points to a node in the diagram. Below the diagram, it states "N = 330 adult females (>= 10 years old)" and "Network modularity = 0.936". The Zoom interface includes a top bar with "Zoom Meeting" and "You are viewing TNC Vidya's screen", a top right "View Options" menu, a top left "Recording" indicator, and a top center participant list showing "Opokou Pierre" and "Malavika". A right sidebar shows a "Participants (79)" list with names like "G N Ramachandra...", "TNC Vidya", and many others. The bottom of the screen shows the Windows taskbar with a search bar and system tray icons.

**Dr. TNC Vidya Associate Professor and Chair, Evolutionary and Integrative Biology Unit, Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR) delivering a webinar on "Understanding an Asian Elephant Society"**

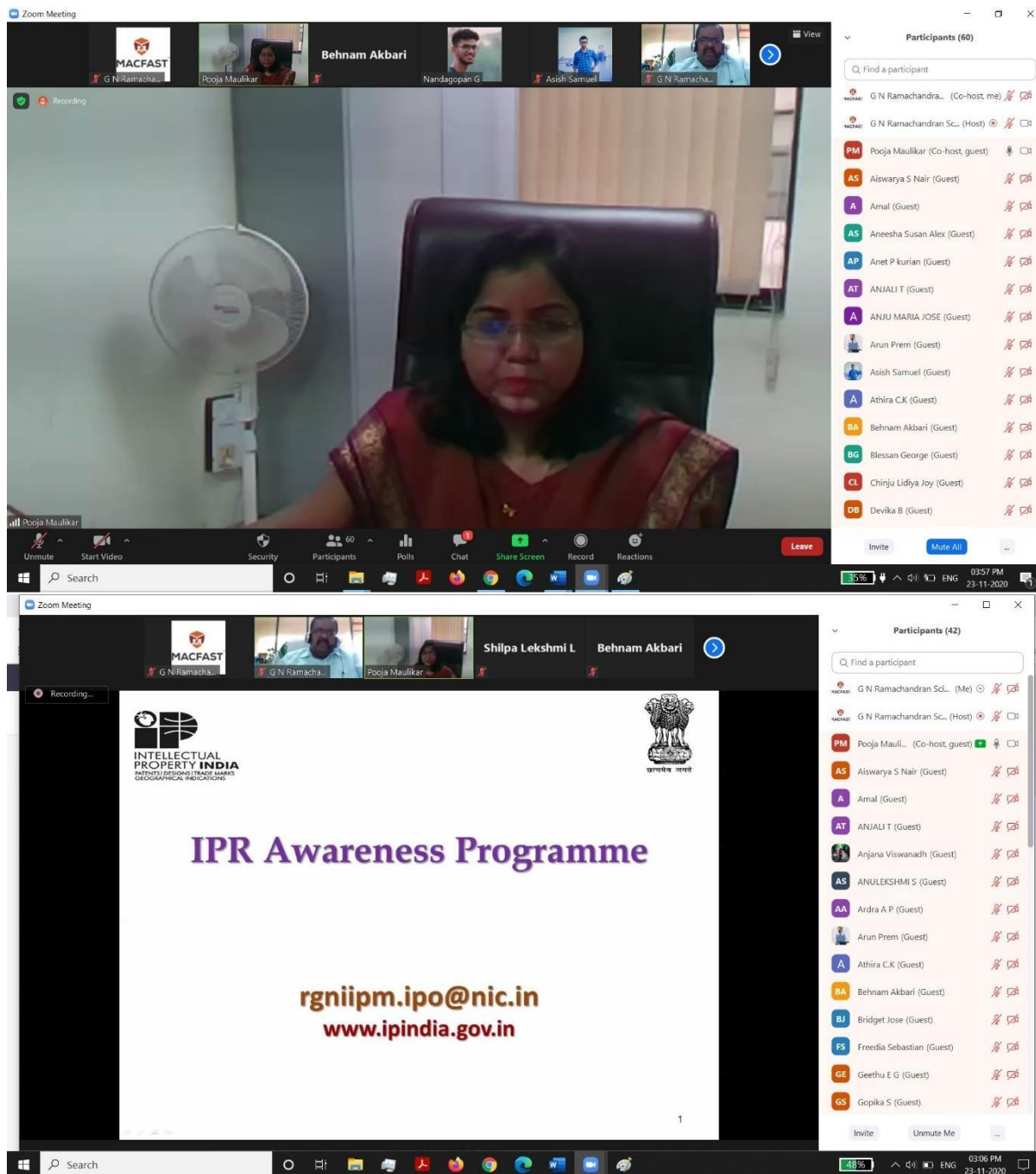


The screenshot shows a Google Meet webinar interface. The main content is a presentation slide titled "ORCization on heterochromatin-Linking DNA replication initiation to chromatin organization". The slide includes the name "Supriya G. Prasanth" and affiliation "Dept. Cell and Developmental Biology, University of Illinois at Urbana-Champaign". The slide also features a large orange letter 'I' logo. The Google Meet interface includes a top bar with browser tabs and a right sidebar showing "Webinar by Prof.Supriya G. Prasa..." with a "People (49)" list including names like "EBIN PHILIP THOMPSON (You)", "Akshaya P. T", "ALEENA JOHNSON", "Amal Joseph Varghese", "andrea antony", "Anjana S", "Ashifa Nizam", "ASISH P R", and "Asish Samuel". The bottom of the screen shows the Windows taskbar with a search bar and system tray icons.

**"Linking DNA replication to chromatin organization, cell cycle progression and genome stability" webinar being delivered by Dr. Supriya G. Prasanth, Professor and Head, Department of Cell and Developmental Biology, University of Illinois at Urbana-Champaign, Chemical and Life Sciences Laboratory, Urbana, IL**



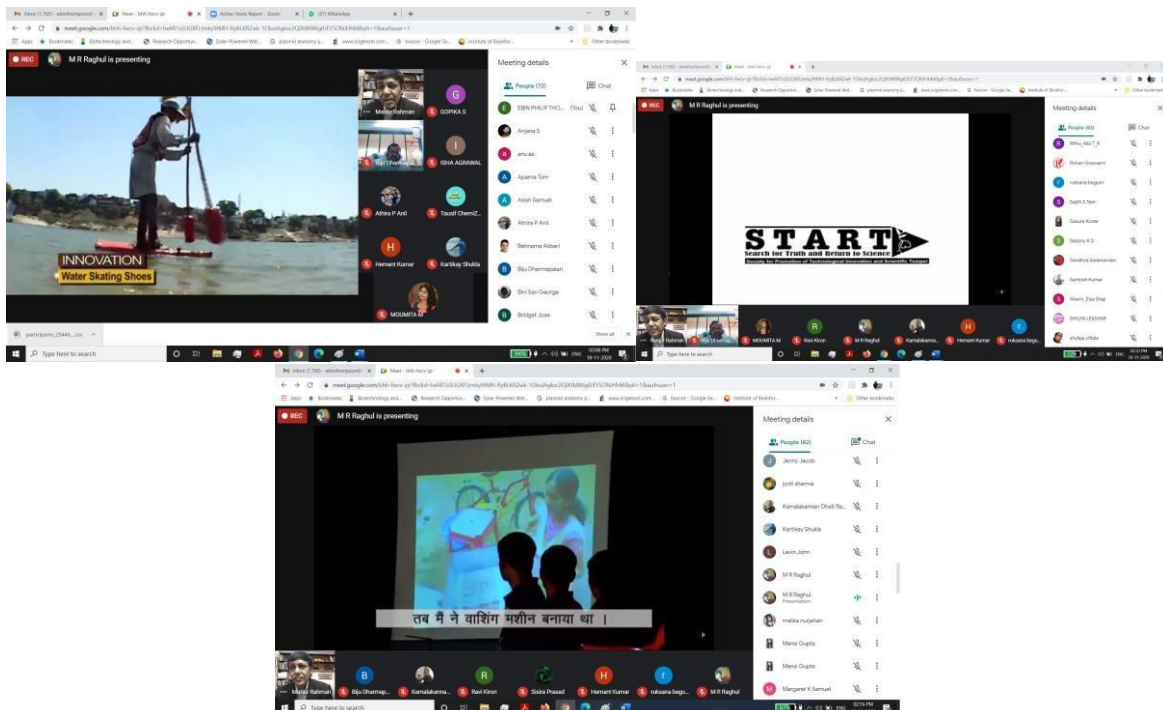
**Prof. Kannanganattu V. Prasanth, University of Illinois at Urbana-Champaign delivering a webinar on "The functions of noncoding RNAs in the cell, and their involvement in cancer. There is "nothing junk" about them"**



**Webinar on IPR, Science Communication and Film Screening  
Pooja Maulikar conducting a IPR awareness programme**



Dr. Manok Kumar Patairiya, Adviser & Scientist G, Science & Engineering Research Council ,Department Of Science & Technology, Govt.of India, delivering a talk on "Prospects and opportunities in Science Communication"



**START (Search for Truth and Return to Science), New Delhi organized a webinar on "Science Film Screening for Skilling ".Speaker : Matiur Rahman, nationally acclaimed film maker.**

# **Session Brochures**

**GN Ramachandran Science Club**  
(Affiliated with Vigyan Prasar, Govt. of India)

Webinar on

## **Microbial and Biochemical Spoilage Mechanisms in Fishery Products**

**8<sup>th</sup> March 2021 | 11.00 am**

**Scan to register**



**Dr. Dhanya P. R**

Assistant professor,  
Department of Aquaculture,  
M. E. S Asmabi College,  
P. Vemballur, Thrissur

**For further details :**

Dr. Jenny Jacob- 8075567847

Dr. Treesa Varghese-974556924



**MACFAST**<sup>TM</sup> **G N Ramachandran Science Club**  
(Affiliated with Vigyan Prasar, Govt. of India)  
Mar Athanasios College for Advanced Studies Tiruvalla

*Webinar on*  
**Gene therapy in Glycogen Storage Disease**  
19-04-2021 | 9.30 am

*Resource Person*  
Dr Nelson George  
Post Doctoral Visiting Fellow  
Section of Cellular Differentiation  
NICHD, NIH, Bethesda, USA



Scan to Register



**For further details:**  
Dr Jenny Jacob - 8075567847  
HOD, School of Biosciences  
Dr Treesa Varghese - 9745569244  
Webinar Coordinator

[www.macfast.org](http://www.macfast.org)





**GN Ramachandran Science Club**  
(Affiliated with Vigyan Prasar, Govt. of India)

Webinar on

# ROLE OF MICROBES IN OUR WORLD

16<sup>th</sup> March 2021 | 2.00pm

Scan to register



Resource person

**Dr. Michael Sauer,**  
Associate Professor ,  
Department of Biotechnology ,  
Institute of Microbiology and Microbial  
Biotechnology ,  
BOKU - University of Natural Resources  
and Life Sciences ,  
Muthgasse 18 , 1190 Vienna, Austria



For further details :

Dr. Jenny Jacob- 8075567847

Dr. Treesa Varghese-974556924



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Listed in the NIRF Rank Band 151-200

## **GN RAMACHANDRAN SCIENCE CLUB**

**Webinar on**

# **ADVANCED GLYCATION ENDPRODUCTS AND KYNURENINE PATHWAY**

**Date: 6 Jan 2021  
Time: 2:00 PM**

 <https://zoom.us/j/2944649601?pwd=NnNLVWt5YVdaRnBudCsxaVILWGhiUT09>



**macfastofficial**



**www.macfast.org**

### **RESOURCE PERSON**



**Cibin T. Raghavan, Ph.D.**  
Assistant Professor  
Department of Biochemistry  
Sree Chitra Tirunal Institute for Medical  
Sciences and Technology



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Listed in the NIRF Rank Band 151-200

**GN RAMACHANDRAN SCIENCE CLUB**

**Webinar on**

**Green and sustainable routes for  
shellfish waste valorization**



<https://zoom.us/meeting/register/tJErcuGtqTorGNIDMyOZZDt05VwTkOu4Fstt>

**RESOURCE PERSON**



Dr. Gincy Marina Mathew  
KSCSTE post-doctoral fellow  
Microbial processes and technology Division  
CSIR-National institute for Interdisciplinary Science and Technology  
Thiruvananthapuram

Date: 22<sup>nd</sup> January 2021

Time: 2:00 PM

For further details, contact :

Dr. Jenny Jacob - 8075567847

Dr. Treesa Varghese - 9745569244



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**GN Ramachandran Science Club**  
(Affiliated with Vigyan Prasar, Govt. of India)

Webinar on

## **Role of FSSAI in Ensuring Food Safety and Good Health**

Date: 06/02/2021 | Time: 2 : 00 PM

Scan to Register



**For further details :**

Dr. Jenny Jacob- 8075567847

Dr. Treesa Varghese-974556924

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 [www.macfast.org](http://www.macfast.org)

**Dr. Sanu Jacob**  
Director ,  
Food Safety and Standards Authority of India  
(Ministry of Health and Family Welfare)  
Government of India



**MACFAST**<sup>TM</sup> *G N Ramachandran Science Club*  
*(Affiliated with Vigyan Prasar, Govt. of India)*  
*Mar Athanasios College for Advanced Studies Tiruvalla*

*Webinar on Essentials of Clinical Research*



**Mr Abhilash TS**  
*Drug Safety Coordinator*  
*Icon Clinical Research*  
*Thiruvananthapuram*  
**29-04-2021 | 11.00 am**

Scan to Register



**For further details:**  
Dr Jenny Jacob - 8075567847  
HOD, School of Biosciences  
Dr Treesa Varghese - 9745569244  
Coordinator, G N Ramachandran Science Club  
Email : [treesa@macfast.org](mailto:treesa@macfast.org)

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**GN Ramachandran Science Club**  
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School of Biosciences Celebrates  
**World Food Safety Day**

Webinar on

**FOOD SAFETY FOR  
MANUFACTURED FOOD ITEMS**

7<sup>th</sup> June 2021 | 11:00 AM

Scan to Register



Resource person

**Dr. MK Mukundan,**  
Managing Faculty, MIST  
Former Director, CIFT



For further details :

Prof. Beena Cherian  
+91 97441 07222



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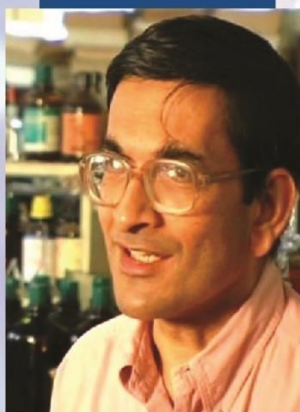
**G N RAMACHANDRAN  
SCIENCE CLUB**  
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**MACFAST**



**WEBINAR**



**21<sup>th</sup> August 2020  
Time 10 am**

**CHEMISTRY,  
BIOLOGY AND THE  
UNITY OF NATURE**

**By**  
**Prof. P. Balaram, Ph.D.**  
Former Director  
Indian Institute of Science  
Bangalore-560012, India

For registration contact the Moderator,  
Biju Dharmapalan Mob. : 9447121718  
E.mail: [biju@macfast.org](mailto:biju@macfast.org)  
Registration link:  
<https://forms.gle/aY4si5iteMGtpewX8>  
Meeting link: [meet.google.com/yyk-cdpj-guj](https://meet.google.com/yyk-cdpj-guj)

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**COURSES**

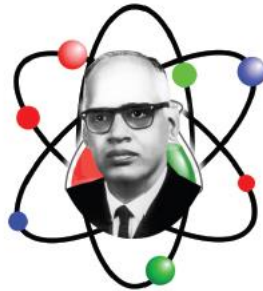
- ▶ M.Sc. Biochemistry
- ▶ M.Sc. Bioinformatics
- ▶ M.Sc. Bionanotechnology
- ▶ M.Sc. Biotechnology
- ▶ M.Sc. Food Technology & Quality Assurance
- ▶ M.Sc. Phytomedicine Science & Technology
- ▶ M.Sc. Plant Biotechnology



INVITED LECTURE ON  
"EMERGING FOODS AND THEIR SAFETY CONCERNS"



**DR. ASHA MARTIN**  
HEAD, DEPT. OF FOOD SAFETY &  
ANALYTICAL QUALITY CONTROL LABORATORY (FSAQCL),  
CSIR – CENTRAL FOOD TECHNOLOGICAL  
RESEARCH INSTITUTE (CFTRI), MYSORE



# G.N.RAMACHANDRAN SCIENCE CLUB MACFAST TIRUVALLA

MACFAST AUDITORIUM  
31<sup>ST</sup> MAY 2018



### About the Speaker

**Dr. Asha Martin** has more than 20 years of experience out of which 15 years are in the field of Food safety and Quality Assurance in the Department of Food Safety and Quality Control Laboratory, at CSIR-CFTRI, Mysore, the nerve centre of food Safety and Quality in India. She has served as the director of the Referral Food Laboratory, Head of the Department of Food Safety and Quality Control Laboratory, as Quality Manager & Management Representative ISO 17025.

Her research interest includes Development of high throughput molecular methods for detection and identification of genetically modified organisms (GMOs) in foods, allergens and food pathogens to monitor food safety and traceability, Studies on the effect of food processing on nucleic acid amplification, Studies on the effect of food processing on nucleic acid amplification, Cloning, expression and characterisation of wax ester synthases from sunflower and Molecular insights into the biological significance of selected natural molecules in cardiovascular health.

Organized by



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Advanced Studies Tiruvalla,  
(Affiliated to MG University) Kerala-689101  
[www.macfast.org](http://www.macfast.org) [www.macfast.in](http://www.macfast.in)



**For Registration Contact**  
Mr. Biju Dharmapalan  
Co-ordinator  
Phone: 09447121718,  
E-mail: [biju@macfast.org](mailto:biju@macfast.org)

**GNR  
SCIENCE CLUB  
MACFAST TIRUVALLA**





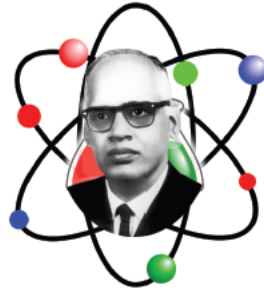
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MEET THE ENTREPRENEUR



**DR. C. N. RAMACHAND PH.D.**  
SAKSIN LIFESCIENCES PVT. LTD. CHENNAI,  
SAN FRANCISCO & MAGGENOME  
TECHNOLOGIES PVT. LTD., COCHIN, KERALA



**G.N.RAMACHANDRAN  
SCIENCE CLUB  
MACFAST TIRUVALLA**

**MACFAST AUDITORIUM  
09<sup>TH</sup> MAY 2019 @ 10 A.M.**



**XPRESSDNA TISSUE KIT BY MAGGENOME TECHNOLOGIES**



**ABOUT THE SPEAKER**

Dr C. N. Ramchand is the President and CEO of Saksin life Sciences Pvt Ltd, a start-up biotech company as well as MagGenome labs Pvt. Ltd, Cochin. He is also a key Adviser to several companies including Scigenome labs, Medgenome Inc, and Director in Theragen lifesciences/Biologics, Thejo Engineering and Accel Limited, Chennai. Dr Ramchand has over 25 years of rich experience in the areas of teaching, basic research, drug discovery programmes and disease mechanisms, guiding M Sc. / Ph D. students and setting up research facilities. Dr. Ramchand has obtained his PhD in Biochemistry from MS University Baroda and also served as assistant professor (1982-84) at MS University. He has also won the Young Scientist award from Charing Cross and Westminster Medical School, UK for 3 times. Dr Ramchand was associated with Sun Pharmaceuticals for five years as its Vice President and Head of Drug Discovery Research (Biological Research Programme) where he was closely involved in the setting up of a multimillion drug discovery centre including its design and development of laboratories. Afterwards he was associated with KEMIN Pharma, India and Kemin Industries South Asia Pvt. Ltd., a part of Kemin Industries Inc, Des Moines, USA. Currently, Dr Ramchand is an Honorary Visiting Professor to European Nanotechnology consortium at University of Newcastle, UK. He is also an adjunct faculty, Visiting Professor and PhD guide at Swinburne University of technology, Australia. Dr. Ramchand has published over 70 peer-reviewed papers in international journals, edited 5 books, has more than 10 patents granted and has applied for over 40 patents. He has done over 100 research presentations at International conferences. He was a special invitee to give a talk at IIM Ahmedabad on Nanotechnology in September 07 and has been invited again by IIM to give a talk during the workshop on Strategic Management of Intellectual Capital and Organisational Knowledge in September 2010.

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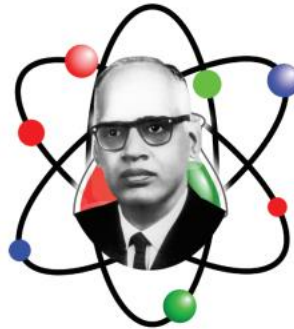
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GNR SCIENCE CLUB MACFAST TIRUVALLA



INVITED LECTURE BY

Prof. Jonathon Noë Joseph Pines FRS



# G.N.RAMACHANDRAN SCIENCE CLUB MACFAST TIRUVALLA

MACFAST AUDITORIUM  
1<sup>ST</sup> FEBRUARY 2018, 11:30 AM



### About the Speaker

Prof. Jonathon Pines studies mitosis, the process by which cells divide. Jon serendipitously entered the mitosis field through cloning 'Cyclin' with Tim Hunt (2001 Nobel laureate). Later, as a consequence of cloning human cyclins with Tony Hunter, Jon began to focus on the spatial organization of mitotic regulators. He pioneered the use of fluorescent protein tags to analyse the dynamic behavior and stability of these regulators in living cells. His discoveries revealed that mitotic regulators are targeted to specific substructures at specific times, and that mitosis is exquisitely coordinated by the destruction of key regulators at different times in cell division. Jon's work has provided insights into how chromosome behavior in mitosis controls both the time and the rate at which essential mitotic regulators are destroyed, and these discoveries have wider implications for how cancers develop.

Professor Jonathon Pines is now Head of the Division of Cancer Biology at the Institute of Cancer Research, London. He is a Member of EMBO, the European Molecular Biology Organisation, and a Fellow of the Academy of Medical Sciences. He was elected as a Fellow of the prestigious Royal Society in 2016

### Abstract of lecture

#### The Spindle Assembly Checkpoint: With Great Power Comes Great Responsiveness

How do cells divide to ensure that their two daughter cells receive an identical copy of the genome? The key to the control of chromosome segregation is the regulation of the Anaphase Promoting Complex/Cyclosome (APC/C) by the spindle assembly checkpoint. We have developed a live cell assay to monitor APC/C activity and its inhibition by the spindle checkpoint. This shows that the SAC and the APC/C are mutually responsive to each other: the APC/C is activated within a minute of turning off the SAC, but the APC/C itself can be rapidly turned off if a kinetochore detaches from the spindle. Our biochemical analyses have begun to reveal the mechanism behind this, which depends on unattached kinetochores catalyzing the production of a short-lived diffusible inhibitor that can turn off the active APC/C by binding through a cassette of low affinity motifs that is highly conserved in evolution. The nature of this inhibitor, how it recognizes the APC/C, and how it is disassembled will be explored.

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E-mail: [biju@macfast.org](mailto:biju@macfast.org)



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# **List of Seminars and Webinars Conducted 2016-2021**

**2016**

Sl. No	DATE	TOPIC	RESOURCE PERSONS	ORGANIZATION
1	11.06.2016	Seminar on "Seminar on Recent Innovations in Food Packaging Technology"	Dr Arunkumar P	Scientist, CFTRI, Mysuru
2	24.06.2016	"Transneurons" and introduction to the book "Genome-The Autobiography of a species" by Lida Lulu	Shanti M S	MACFAST Student talk
3	30.05.2016	Enhancing the functional properties and nutritional quality of ice cream with processed Amala	Simi Sathar	MACFAST Student talk
4		Chemical approach to artificial photosynthesis	Anju Krishna	MACFAST Student talk
5	18.07.2016	Alkyl halides	Anjali Pradeep	MACFAST Student talk
6		Core Promoters	Sajeesha S	MACFAST Student talk
7		Bioinformatics tools, BLAST, FASTA	Asha Antony	MACFAST Student talk
8	26.09.2016	GN Ramachandran Science Club Seminar on "Human Genome project and its implications"	Dr Moinak Banerjee	Scientist F, Human Molecular Genetics Laboratory Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram
9	05.10.2016	GN Ramachandran Science Club Seminar on "Selfish Gene to Selfish Green"	Rev. Dr Rayappa Kasi	Vellore
10	17.10.2016	CRISPR	Santhy M. S.	MACFAST Student talk
11	31.10.2016	Epigenomics and Histone Modification	Prasanthy P.	MACFAST Student talk
12	31.05.2016	A tale of two neurons- does identity matter?	Dr. Suraj Cherain	Department of Ophthalmology, Feinberg School of Medicine, Northwestern University, Chicago
13	07.11.2016	Effect of hydrocolloids on frozen noodles	Aleena T Mathews	MACFAST Student talk
14	21.11.2016	Phylogenetic structure of Prokaryotic domain: Primary	Elma Susan Reji	MACFAST Student talk



		Kingdoms		
15		Cold plasma technology in foodprocessing	Feba Das	MACFAST Student talk
16		Secondary metabolites	Dilna Dinesh	MACFAST Student talk
17	5.12.2016	Thin Layer Chromatography	Vineeth Francis	MACFAST Student talk
18	19.12.2016	Fertilization in flowering plants	Lekshmi S Kumar	MACFAST Student talk
19	22.12.2016	National level workshop on “Patent Information and Drafting for R&D and Industry”	Shri. V. P. Balagangadharan	Former Brahmaprakash Scientist, VSSC, Trivandrum
			Adv. Febin James	Trademark Attorney & Partner, Legalites IP Services, Thrissur
			Shri. Arun Alfred	Project Scientist, PIC-Kerala, KSCSTE
			Shri. R. S. Praveen Raj	Senior Scientist, National Institute of Interdisciplinary Science & Technology,
<b>2017</b>				
20	16.1.2017	High Throughput Sequencing	Kesiya Joy	MACFAST Student talk
21		Next generation sequencing methods	Annu S George	MACFAST Student talk
22	09.01.2017	Dissymetry and Assymetry	Sonia Philip	MACFAST Student talk
23		Pollination in flowering plants	Anashwara Shyam	MACFAST Student talk
25	04.02.2017	GN Ramachandran Science Club Seminar on “Phylogenetics of Carpel Development”	Dr. Annette Becker	Senior Research Scientist, Justus-Liebig-Universität Gießen, Institut für Botanik
26	06.02.2017	GN Ramachandran Science Club Seminar on “Genomes for Crop Improvement”.	Dr. Babu Valliyodan	Division of Plant Sciences, University of Missouri, Columbia
27	23.02.2017	State level Seminar on Chromosomal Abnormalities and its Impact on Human Life, organized as part of National Science Day Celebrations 2017.	Dr. Deepak K Saini	Associate Professor, Department of Molecular Reproduction, Development and Genetics, IISc, Funded by Kerala State Council for Science Technology and Environment (KSCSTE)
28	26.02.2017	State level “Seminar on Recent Innovations in Biomaterial Research from India” organized as part	Dr. Bikramjit Basu	Professor, Materials Research Center, Indian Institute of Science, Bangalore



		of National Science Day Celebrations	Dr. Harikrishna Verma P. R.	Scientist, SCTIMST. Programme Funded by Kerala State Council for Science Technology and Environment (KSCSTE)
29	06.03.2017	Structure of Collagen	Ria Elza Varghese	MACFAST Student talk
		Biosensors of Food Industry	Hima Devadas	MACFAST Student talk
30	13.03.2017	Resistant Starch as Prebiotic and Dietary Fibre	Osheen Oliver	MACFAST Student talk
		Nutrition in Infants	Ooshmala B	MACFAST Student talk
31	27.03.2017	Evaluation of new indigenous milkdot ELISA as a field test for the detection of the Myobacterium subspecies Paratuberculosis infection in lactating domestic live stock	Litty Thomas	MACFAST Student talk
32	27.03.2017	Antimicrobial activity of Myrobalan (Terminalia Chebula Retz) nuts for the application in raw skin preservation	Gayathri U	MACFAST Student talk
33	03.04.2017	Womb with a view	Varsha S. S.	MACFAST Student talk
34	15.5.2017	Zero Waste Management	Nadiya Nazer	MACFAST Student talk
35	12.06.2017	Innovations in food technology for Health	Abhirami S. Nair	MACFAST Student talk
		Black Carrots	Ammu Bejoe	MACFAST Student talk
		DNA Polymerase and Human Diseases	Rehumath A. S.	MACFAST Student talk
36	19.06.2017	A Peel Science	Vishnu C.	MACFAST Student talk
37	20.09.2017	How to start startup companies?	Dr. C. N. Ramchand	CEO, Saksin Life Science Pvt. Ltd, Chennai
38	26.09.2017	Effect of cooking process on the level of enroflaxacin in pork	Teena Joseph	MACFAST Student talk
39		Epidemiological studies of monosodium glutamate and health	Ansu Mary	
40	03.10.20	Hazard analysis critical	Athira Rajan	MACFAST Student talk



	17	control point		
41	09.10.20 17	Ribosome associated protein quality control	Anjali S.	MACFAST Student talk
42	23.10.20 17	An Introduction of Genetic Engineering	Neha Lukose	MACFAST Student talk
43	30.10.20 17	A Day with an Entrepreneur	Dr. Muhammed Majeed	Founder & Managing Director, SAMI's lab ,Bangalore
44	30.10.20 17	Project report presentation at NestleNanjangod Maggi Noodles plant	Keerthana Roop	MACFAST Student talk
45	13.11.20 17	Lactosomia, Galactosomia ,Hereditary Fructose Intolerance	Remina M Shajahan	MACFAST Student talk
		Heat Shock Proteins	Sijila S. P.	MACFAST Student talk
46	20.11.20 17	Cryo Electron Microscopy	Basma Yusuf	MACFAST Student talk
		Secondary metabolism in plant cell culture	Amal Anand	MACFAST Student talk
47	24.11.20 17	Systems Approach in Biotechnology	Dr. Sharma	Scientist ,CFTRI Mysore
48	18.12.20 17	Gut microbiota facilitates dietary heme induced epithelial hyperproliferation by opening the mucus barrier in colon	Durga Venugopal	MACFAST Student talk
<b>2018</b>				
49	08.01.20 18	Workshop on Research Methodology	Dr. Michael Sauer	Department of Biotechnology, BOKU -University of Natural Resources and Applied Life Sciences, Vienna
50	29.01.18	Food laws and food packaging specifications	Twinkle Jose	MACFAST Student talk
51	01.02.20 18	“The Spindle Assembly Checkpoint: With Great Power Comes Great Responsiveness “	Prof. Jonathan Pines FRS	Head of the Division of Cancer Biology at the Institute of Cancer Research, London
52	12.02.20 18	Dyes and pigments	Akshaya S. S.	MACFAST Student talk
53	26.02.20 18	Scientific Innovations for Sustainable Development	Dr. Irfan Ahmad Ghazi	School of Life Sciences, Central University Hyderabad
54	07.04.20 18	A Day with an Entrepreneur	Dr. Muhammad Majeed	Founder & Managing Director, SAMI's lab



				,Bangalore
55	28.04.2018	Genetic Engineering	Akshay B.C.	MACFAST Student talk
56	30.04.2018	Phylogenetic Analysis and phylogenetic trees	Benitta Benny	MACFAST Student talk
57	18.06.2018	Sacred Groves as a Repository of Medicinal Plants	Dr.Kannan C Warriar	Scientist, Senior Principal Scientist) at the Institute of Forest Genetics and Tree Breeding, Coimbatore
58	17 <sup>th</sup> May 2018	Medicinal plants and their endophytic fungi: prolific sources of known and novel pharmaceuticals	Prof. C. Jayabaskaran	Chairman , Department of Biochemistry, Indian Institute of Science, Bangalore
59	21.05.2018	Dinacharya	Amal P. K.	MACFAST Student talk
60	31.06.2018	Emerging foods and their safety concerns	Dr. Asha Martin	Head, Dept. of Food Safety & Analytical Quality Control Laboratory (FSAQCL), CFTRI
61	08.08.2018	Nutritional Importance of Anti- oxidants with respect to Pomegranate	Dr. R.P Singh, Senior	Principal Scientist, Department of Biochemistry and co-ordinator of HRD, CFTRI, Mysuru
62	03.09.2018	Light and Helio therapy	Anisha	MACFAST Student talk
		Photoimmunotherapy for cancer treatment	Veena C Nair	MACFAST Student talk
63	17.09.18	Embedded system in automobile	Linus	MACFAST Student talk
64	24.09.2018	An introduction to the world of photography	Amol Joseph Varghese	MACFAST Student talk
65	27.11.2018	“Curiosity in science - cockroach milk and blue fish	Prof.Ramaswamy S	Senior Professor Institute of stem cell biology and regenerative medicine (inStem), Bangalore
66	01.10.2018	Food colourants	Sreelekshmi B S	MACFAST Student talk
		Selection of packaging materials based on different types of foods	Susanna Joy	MACFAST Student talk
		Antimicrobials in foods	Aryama Krishna	MACFAST Student talk
67	08.10.2018	High throughput DNA sequencing, concept and limitations	Stacy Treesa Tommy	MACFAST Student talk
		Bioplastic	Akhil R Chandran	MACFAST Student talk
68	15.10.2018	The weird and wonderful world of bioluminescence	Video show	MACFAST Student Initiated
69	16.10.2018	Workshop on ‘Intellectual Property Rights, Patent Search and Filing’	Dr.Bismi Gopalakrishnan	Dean & Professor, School of Indian Legal Thought, M.G. University





			Adv. Febin James	Trademark Attorney & Partner, Legalites IP Services, Thrissur
			Shri. Vishnu V.A	PIC-Kerala, KSCSTE
70	22.10.2018	An Introduction to malnutrition	Akshaya C	MACFAST Student talk
71	29.10.2018	Tissue culture and next generation sequencing	Appus M V	MACFAST Student talk
		Eccentric endangered plants, trees and some rare flowers	Athira Thomas	MACFAST Student talk
<b>2019</b>				
72	10.01.2019-11.01.2019	Two Days Workshop on Restructuring the curriculum of the Post Graduate Degree Courses in Biosciences	Dr Priyasensan	M.G.University
			Dr Padmesh P	Central university of Kerala
			Dr Mohan Kumar C	SCMS, Kochi
73	25.02.2019	Bioprocess development of Docosohexanoic acid from novel fungal isolation from <i>Fusarium solani</i>	Gopika S Pillai	MACFAST Student talk
		Isolation and gene expression analysis of phospholipase C in response to abiotic stresses from <i>Vigna radiata</i>	Athira R Thankan	MACFAST Student talk
		Enzyme Therapy	Veena C Nair	MACFAST Student talk
74	27.02.2019	Sensing across scales: Fluorescent biosensors for live cell imaging and discoveries in natural light sensing and eye-brain regeneration	Dr.Akash Gulyani	Institute for Stem Cell Science and Regenerative Medicine (inStem), Bangalore
75	26.02.2019	KSCSTE SPONSORED National Science day lecture and release of book 'Mushrooms of Kerala'	Padma Shri M Chandra Dathan	Former Director, VSSC & Scientific Advisor to Chief Minister, Govt. of Kerala;
76	11.03.2019	Evolution of bacterial transcription regulatory networks	Dr.Aswin Sai Narain Seshasayee	National Centre for Biological Sciences (NCBS)
77	25.03.2019	Phylogenetic Structure of the prokaryotic domain: The primary kingdoms	Amal Joseph Varghese	MACFAST Student talk
		Phytochemical screening and	Merin Shaji	MACFAST Student talk



		evaluation of polyphenols, flavonoids and anti-oxidant activity of Peunus cerasoides		
78	06.05.2019	Phytochemistry:Report presentationcarried out at JNTBGRI Palodeunderthe guidance of Dr. Rameshkumar	Veena C Nair	MACFAST Student talk
79	06.05.2019	The assessment of Abelmoschus esculentus cultivation using biofertiliser with newspaper waste	Haritha K	MACFAST Student talk
80	20.05.2019	Internship report on Ambadiyil Hi-techDiary-Milk processing	Rowena Susan Pradeep	MACFAST Student talk
		Analysis of milk and milk products	Silpa May John	MACFAST Student talk
		Chemical and Microbiological analysis of milk and milk products	Ajmal Kallar Moidu	MACFAST Student talk
		Bioinformatics tools	Anjana	MACFAST Student talk
81	28.06.2019-05.06.2019	Jackfruit –Mango Fest	YMCA Tiruvalla	YMCA Tiruvalla
82	03.06.2019	Seminar on Eat Right	Food Safety Department, Govt. ofKerala	Food Safety Department ,Govt. of Kerala
83	09.05.2019	"Entrepreneurship in Lifesciences"	Dr.Ramchand C.N.	CEO, Saksin Lifesciences Pvt. Ltd
84	10.06.2019	Comparitive study on organic acid content, phenolic content, antioxidantproperty of different non-carbonated,natural cool drinks available in the market	Ajith P A	MACFAST Student talk
85	28.06.2019	Applications of Physics andMathematics in Biology	Dr.V.P.N. Nampoori	CUSAT
86	02.07.2019	Fundamentals in Technical writing	Dr.K.P.Vijayakumar,	University of Kerala
87	5.07.2019	A career in science	Dr.Smitha Jain	Executive Director, India Bioscience,NCBS
88	8.07.2019	Recent Trends in MolecularDiagnostics	Dr.Anoopkumar T,	SreeChitraThirunalInsititute of MedicalSciences and



				Technology
89	15.07.20 19	Naturally occurring anthraquinones: Chemistry and therapeutic potential in autoimmune diabetes	Brdget Jose	MACFAST Student talk
		Microbial quality of fresh produce from open air markets and supermarkets in the Philippines	Athira P	MACFAST Student talk
90	22.07.20 19	Coffee consumption and decreased risk of hypertension	Jeemol Thomas	MACFAST Student talk
91	29.07.20 19	Production of biologically activated carbon from orange peel	Akshaya P. T.	MACFAST Student talk
		Neurofibromatosis type I and spontaneous hemothorax	Sonet D Thomas	MACFAST Student talk
92	05.08.20 19	Production of paper from sugarcane bagasse and Banana fibres	Tasneem	MACFAST Student talk
		Technology for preservation retention of natural food colour	Freedia	MACFAST Student talk
		Transgenic plants as bioreactors to produce edible vaccines	Ashish	MACFAST Student talk
93	19.08.20 19	You can make a forest-Miyawaki afforestation method	Anisha Anto	MACFAST Student talk
		Lets talk about depression	Sajith S Nair	MACFAST Student talk
94	26.08.20 19	Illumina Sequencing		MACFAST Student talk
95	16.09.20 19	Bioengineered skin system	Preena S Parvathy	MACFAST Student talk
96	23.09.20 19	Bacteriostatic activity of lemon juice on skin Staphylococcal infection	Sruthy	MACFAST Student talk
		Role of HPLC in food analysis	Devika	MACFAST Student talk
		Amazonia	Levin	MACFAST Student talk
97	30.09.20 19	Introgression of semi-dwarf gene in Kalanamak rice using marker assisted selection breeding	Amala Antony	MACFAST Student talk



		Cryonics	Ancy Alfred	MACFAST Student talk
		The importance of forgetting	Mejo George	MACFAST Student talk
		The future of transportation-Hyperloop	Nirmal Paulose	MACFAST Student talk
98	10th & 11th October	EMBO Key note Address International lecture Workshop on Cell Cycle and Cell Death	Richard Timothy Hunt	2001 Nobel Laureate in Physiology or Medicine
99	14.10.2019	C. V. Writing	Murthy Srinivasula	IISER Thiruvananthapuram
100				
101	24th - 26th November	INTERNATIONAL CONFERENCE ON ADVANCES IN FOOD AND INDUSTRIAL BIOTECHNOLOGY	48 international speakers	The Biotech Research Society, India (BRSI) CSIR-NISCAIR Centre for Energy and Environment Sustainability
102	09.12.2019	Student Interaction with HoD, Mr. Biju Dharmapalan	Mr. Biju Dharmapalan	MACFAST

**2020**

103	09.01.2020	International seminar on Natural products chemistry	Prof. Khozirah Shaari	Professor, Laboratory of Natural Products, Institute of Bioscience, Universiti Putra, Malaysia
			Prof. Maribel Nonato,	Professor of Chemistry, Vice Rector for Research & Innovation, Office for Research & Innovation, Thomas Aquinas Research Complex, University of Santo Tomas, Manila, Philippines
			Prof. Dr. Palpu Pushpangadan	Padmashri Awardee (Former Director, CSIR-NBRI & CSIR-CIMAP, Lucknow & KSCSTE-JNTBGRI & DBT-RGCB, Thiruvananthapuram), DIRECTOR GENERAL, Amity Institute for Herbal and Biotech Products Development Thiruvananthapuram & Sr. Vice President, RBEF, New Delhi
			Prof. Dr. Varughese George	Director Amity Institute of Phytochemical and



				Phytomeddecine. Thiruvanathapuram
104	13.01.20 20	Documentary on space time		
105	20.01.20 20	Application of Bionanotechnology	Dr. Tasneem	
106	27.01.20 20	Antidiabetic activity of methanol extract of Phyllanthus reticulatusleaves in mice	Aparna Tom	MACFAST Student talk
		Biosynthesis and characterisation of nano chitin from crab shell	Haritha M. A.	MACFAST Student talk
107	03.02.20 20	G N Ramachandran Science Clubinvited lecture	Dr Shijulal N S	DST-Inspire, Faculty Fellow, RGCB (former Student M.Sc. Bioinformatics(2004-2006))
108	06.02.20 20	National Science Day Celebrations -Invited lecture	Dr. Aiswarya G	MIGAL Galilee Research Institute,KiryatShmona, Israel ,recipient ofMarie Curie Fellowship
109	10.02.20 20	Microbial production of biodegradableplastic from agricultural waste	Krishnapriya H	MACFAST Student talk
110	11.02.20 20	G N Ramachandran Science Clubinvited lecture	Bony De Kumar	PhD,Director, COBRE Genomics Core, Rm W127,University of North Dakota,School of Medicine and Health Sciences
111	24.02.20 20	Seminar on Corona Virus Infection apossible hygiene precautions	Aspic Club	
		Corona Virus	Thasneem Nissam	MACFAST Student talk
112	03.03.20 20	Recent trends in Bioinformatics Research	Dr. Shujilal	Scientist, RGCB
113	05-06- 2020	Webinar " Journey from student to researcher"	Dr AjithAshokan,	IISER,Bhopal
114	10-06- 2020	Webinar on "Emerging trends and opportunities in Life Science Research"	Dr.GitanjaliYadav	Scientist, National Institute of Plant Genome Research (NIPGR) ,New Delhi
115	22-06- 2020	Webinar on Recent Advances in Food Packaging Technology"	Panneerselvam	Sr. Scientist , Department of Food Packaging Technology CSIR - CentralFood Technological Research Institute,Mysuru
116	29-06- 2020	Webinar on " Nutraceuticals, pomegranate and punicic acid "	Dr. R.P Singh	CSIR - Central Food TechnologicalResearch Institute, Mysuru

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117	07-07-2020	The Chemical Language of Nature"	Dr. Shannon Olsson,	National Centre for Biological Sciences(NCBS) Bangalore
118	10-07-2020	Webinar on "Science, biology, and the world's future "	Prof. Bruce Alberts, Ph.D.,	Chancellor's Leadership Chair in Biochemistry and Biophysics for Science and Education , University of California, San Francisco
119	13-07-2020	Webinar on Cryopreservation strategies for long term conservation of germplasm	Dr. Era Vaidya Malhotra ,	Scientist SS ICAR-National Bureau of Plant Genetic Resources
120	13-07-2020 to 14-07-2020	Online Hands on Training Programme in Primer Designing and Recombinant Vector Construction	Mr Stephen James, Biju Dharmapalan, Blessan Santhosh George	MACFAST Faculty
121	15-07-2020	Webinar on Modern Analytical Instrumentation and their application in Food Science	Vatcharavelu K.	Central Instrumentation Facility CSIR-CFTRI Mysuru
122	16-07-2020	Webinar on Progress and pitfalls on Covid Vaccine Development	Gagandeep Kang	Executive Director, Translational Health Science and Technology Institute (An autonomous institute of the Dept of Biotechnology, Govt Of India), NCR Biotech Science Cluster, Faridabad
123	17-07-2020	Webinar on Cancer Nanotechnology	Dr.P.Gopinath Ph.D.,	Associate Professor, Department of Biotechnology, Joint faculty in Centre for Nanotechnology, Indian Institute of Technology Roorkee, Roorkee -247 667, Uttarakhand, India.
124	23-07-2020	Webinar on "Science: the joy of figuring things out."	Prof. Alejandro Sánchez Alvarado	Scientific Director, Investigator, Howard Hughes Medical Institute Investigator Stowers Institute for Medical Research Missouri
125	27-07-2020	Webinar on "Lessons Learned in Lockdown"	Christopher P. Baines, Ph.D	Associate Professor, Department of Biomedical Sciences, University of Missouri
126	29-07-2020	Webinar on Traffic jams in healthy neurons regulate cargo flow	Dr Sandhya P Koushika	TIFR



127	01-08-2020	Genomics:What's all this excitement?	Prof.Partha P Majumder,Ph.D.	National Science Chair,National Institute Of Biomedical Genomics, Kalyani, West-Bengal
128	03-08-2020	Webinar " Regulation of rapid adaptiveresponses in microorganisms "	Sander Granneman, Ph.D	MRC Senior Non-Clinical Research Fellowin RNA Biochemistry and Group Leader University of Edinburgh.
129	06-08-2020	Webinar "Science Communicationthrough Sciotoons"	Prof. Pradeep K. Srivastava,Ph.D.	Dy. Director (Sr. Principal Scientist) Ex. ,Medicinal & Process Chemistry Division, CSIR-CENTRAL DRUG RESEARCH INSTITUTE (CDRI), Lucknow
130	08-08-2020	Webinar "Introduction to Tissue Engineering: The State of the art technology to Repair and Regenerate the human body	Dr.Gauri Kulkarni,	Research Scientist, Wake Forest Institutefor Regenerative Medicine (WFIRM), North Carolina, USA
131	09-08-2020	Webinar "Indigenous development of strategic materials for societal benefits:One step ahead towards self-reliant India "	Dr.Bipin Kumar Gupta,	Principal Scientist & Associate Professor (AcSIR),Asia- Pacific Academy of Materials (APAM) Fellow,CSIR-NationalPhysical Laboratory, New Delhi
132	10-08-2020	Webinar "Flower evolution in anutshell"	Dr. Annette Becker,	Justus-Liebig-University,Gießen, Germany
133	11-08-2020	Webinar "Functional Foods: Food Matrix Composition, interactions andbioavailability"	Dr. Veda Krishnan,Ph.D.	Fulbright Fellow Scientist (Senior Scale),Division of Biochemistry ,ICAR- Indian Agricultural Research Institute ,NewDelhi
134	12-08-2020	Webinar "Personal Genomes to Precision Medicine-Implications for Rare Genetic Diseases"	Sridhar Sivasubbu, PhD.,	Sr. Scientist & Associate Professor (AcSIR),CSIR-Institute of Genomics and Integrative Biology (CSIR-IGIB), New Delhi, India
135	13-08-2020	Webinar "Life at Science"	Valda J. Vinson,PhD.,	Editor, Science
136	14-08-2020	Webinar "Collective animal motion"	VishwesaGuttal,Ph.D.,	Associate Professor, Centre for EcologicalSciences,Indian Institute of Science, Bengaluru
137	17-08-2020	Webinar "Multiple Facets of GeneRegulation: through the Eyes of Pseudoexfoliation"	Debasmita P. Alone, Ph.D	Associate Professor,National Institute of Science Education and Research (NISER)
138	18-08-	Webinar "Speed Control	Dr.VatsalaThirumalai	Associate Professor,Senior



	2020	in Animals: Making and Breaking Rules”		Fellow, Wellcome Trust – DBT India Alliance, National Centre for Biological Sciences, Bangalore
139	19-08-2020	Webinar “Antibiotic Resistance: The next pandemic”	Dr Anil Kumar Singh	(Senior Scientist), Biological Sciences & Technology Division, CSIR-North East Institute of Science & Technology, Jorhat, Assam
140	21-08-2020	Webinar “Chemistry, Biology and the Unity of Nature”	Prof. P. Balaram,	Ph.D., (Padma Bhushan Awardee), Former Director, Indian Institute of Science, Bangalore
141	25-08-2020	Webinar "Drosophila and Zebrafish as human disease models"	Prof. Upendra Nongthomba Ph.D.	Professor, Developmental and Biomedical genetics Laboratory (DBGL), Dept. of Molecular Reproduction, Development and Genetics (MRDG), Indian Institute of Science (IISc.), Bangalore
142	26-08-2020	Webinar “Epigenetic regulation, heterochromatin and fungal resistance”	Robin Allshire, Ph.D.,	FRSE, FRS, Wellcome Centre for Cell Biology, Institute of Cell Biology, School of Biological Sciences, University of Edinburgh, Edinburgh, Scotland UK
143	28th and 29th August, 2020	Career Guidance and Life skill training Webinar by MAKS	Dr. Jenny Jacob	MACFAST Faculty
144	29-08-2020	Webinar "Studying Asian Honey Bees"	Dr. Axel Brockmann	National Centre for Biological Sciences, Tata Institute of Fundamental Research, Bellary Road, Bangalore
145	01-09-2020	Webinar “New Horizons for the Chromosome Segregation Machinery”	Dhanya Cheerambathur, Ph.D.,	Wellcome Centre for Cell Biology, University of Edinburgh, Scotland UK
146	03-09-2020	Webinar "Innate immune surveillance by Surfactant protein SP-D in cancer"	Dr Uday Kishore,	Brunel University & University of Oxford, London
147	04-09-2020	Webinar on Simultaneous Detection of Neurochemicals by a Microfluidic Device"	Prof Suddhasatwa Basu,	FNASc, FRSC, FICS, Outstanding Professor, AcSIR; Director, CSIR-





				Institute of Minerals & Materials Technology (IMMT); Bhubaneswar
148	05-09-2020	Webinar “Neuroendocrine regulation of metabolic physiology”	Bhavani Shankar Sahu, Ph.D.,	National Brain Research Centre, Manesar,
149	08-09-2020	Webinar “A theoretical perspective on the coding capacity of olfactory networks”	Assisi Collins, Ph.D	Indian Institute of Science Education and Research (IISER)
150	10-09-2020	Webinar “Cosmic Fireworks: Violent death of exotic stars”	Dr. Poonam Chandra	Associate Professor, National Centre for Radio Astrophysics, Tata Institute of Fundamental Research Pune
151	11-09-2020	Webinar “Eat Right India- A Food System Approach for transformation”	Neethu Ravikumar	Food Safety Officer Konni Circle, Department of Food Safety Pathanamthitta, Govt. of Kerala
152	14-09-2020	Webinar “Nano-size steps and meter-long journeys— Reaching destinations through obstacles and random walk”	Prof. Krishanu Ray, Ph.D.,	FNA, Department of Biological Sciences, Tata Institute of Fundamental Research
153	16-09-2020	Webinar “Structure-based protein engineering to alter functional properties of enzymes for industrial and pharmaceutical”	Sampa Biswas, Ph.D.,	Crystallography & Molecular Biology Division, Saha Institute of Nuclear Physics, Kolkata
154	18-09-2020	Webinar “A plant’s-eye view on diversity, and why plants matter”	Dr. Vinita Gowda	Associate Professor, Dept. of Biological Science, Indian Institute of Science Education and Research (IISER) Bhopal,
155	23-09-2020	Webinar “Organic farming for climate change adaptations and food security”	Prof. Dillip Kumar	Professor, Agricultural and Food Engineering Department, Indian Institute of Technology Kharagpur
156	24-09-2020	Webinar on “Towards a system level understanding of proliferation control in Mammalian cells using MS-based proteomics”	Tony L Y,	Sir Henry Dale Fellow, Wellcome Centre for Biology University of Edinburgh
157	25-09-2020	Webinar “Structural Biology - where are we now and where are we going”	Prof. Ramaswamy Subramanian, Ph.D.,	Director, Bindley Bioscience Center, Purdue University
158	26-09-2020	Webinar “3D Bioprinting: An Innovative Medical”	Prafulla Chandra, Ph.D.,	Wake Forest Institute for Regenerative Medicine



		Technology for Repair and Replacement of human tissues and organs”		
159	28-09-2020	Webinar "Linking DNA replication to chromatin organization, cell cycle progression and genome stability	Prof. Supriya G. Prasanth Ph.D.,	Professor and Head, Department of Cell and Developmental Biology, University of Illinois at Urbana-Champaign, Chemical and Life Sciences Laboratory, Urbana, IL
160	29-09-2020	Webinar “Bioweapons: a view on defense of the crops and foods against insects ”	S. Ezilvendan ,Ph.D.	Scientist & AcSIR Faculty, Food Protectants & Infestation Control Department, CSIR - Central Food Technological Research Institute, Mysore
161	01-10-2020	Webinar “Nonmuscle Myosin II Activity Controls Membrane Protrusive Activities ”	Prof. Siddhartha S. Jana, Ph.D.,	School of Biological Sciences, Indian Association for the Cultivation of Science, Kolkata
162	07-10-2020	Webinar "INFORMED WALK ACROSS RAMACHANDRAN MAPIN SEARCH OF NOVEL BIOMATERIALS"	Dr. Vibin Ramakrishnan,	Professor, Biosciences & Bioengineering , Indian Institute of Technology Guwahati
163	09-10-2020	Webinar "Millets: Nutritional potential and challenges"	Dr. Paras Sharma	Scientist C, Food Chemistry Division, ICMR-National Institute of Nutrition, Hyderabad
164	08-10-2020	Webinar "Nutrition research in India -How does one go about it?"	Raja Sriswan Mamidi, Ph.D.,	by Scientist C, National Institute of Nutrition, Hyderabad
165	12-10-2020	Webinar "On Odor Reproduction, and How to Test For It"	Prof. David Harel,	Vice President, Israel Academy of Sciences and Humanities , Jerusalem, Israel & Professor, Dept. of Computer Science and Applied Mathematics, The Weizmann Institute of Science, Rehovot, Israel
166	13-10-2020	Webinar "Wildlife Forensics	Dr. S. K. Gupta	Scientist-E & Nodal Officer , Wildlife Forensic and Conservation Genetics Cell & Dept. of Animal Ecology & Conservation Biology, Wildlife Institute of India, Dehra Dun
167	14-10-	Webinar	G. Umamathy Ph.D	Senior Principal Scientist and



	2020	"Biotechnological tools in biodiversity conservation"		Group Leader,Laboratory for the Conservation of Endangered Species (LaCONES) ,CSIR- Centre for Cellular and Molecular Biology(CCMB),Hyderabad
168	16-10-2020	Webinar "Modelling the function of type 2 diabetes genes/loci using iPSCs-derived pancreatic-islet like cells and CRISPR/CAS9"	by Anup Kumar Nair, Ph.D.,	ff Scientist ,National Institute of Diabetes and Digestive and Kidney Diseases,U.S. Department of Health and Human Services,
169	19-10-2020	Webinar "The Food Fly: Nutrition specific memories and diet mediated neuronal plasticity in Drosophila"	Dr. Gaurav Das	National Centre for Cell Science (NCCS),Pune
170	20-10-2020	Webinar "Research and its dissemination during the pandemic"	Dr.Magdalena Skipper	Editor-in-chief,Nature
171	26-10-2020	Webinar 'Ethics in Research and Publications'	Prof. S. C. Lakhotia,	FNA, FASc, FNASc, BHU Distinguished Professor (Lifelong) & SERB Distinguished Fellow,Cytogenetics Laboratory,Department of Zoology,Banaras Hindu University,Varanasi
172	28-10-2020	Webinar "At the intersection of Chemistry and Biology: Developing Biocatalysed Reactions"	Prof.Anju Chadha, Ph.D.,	Laboratory of Bioorganic Chemistry, Department of Biotechnology & National Center for Catalysis Research,IIT Madras,Chennai
173	30-10-2020	Webinar 'Application of GC-MS in analysis of essential oils'	Dr. V.K. Varshney,	Scientist-G ,Chemistry and Bioprospecting Division, Forest Research Institute, Dehradun
174	03.11.2020	Webinar " AI in Healthcare: National and Global Imperatives"	Dr.Anurag Agrawal, Ph.D.,	Director, Institute of Genomics and Integrative Biology (CSIR-IGIB), Delhi
175	05.11.2020	Webinar "Prospects and opportunities in Science Communication"	Dr Manoj Kumar Patariya,	Adviser & Scientist G,Science&Engineering Research Council ,Department Of Science & Technology,Govt.of India
176	11.11.2020	Webinar on Covid 19 Vaccines	Dr Raghavan Varadarajan	Molecular Biophysics Unit Indian Institute of Science, Bangalore



177	16.11.20 20	Webinar "Green chemical synthesis using bi-functional linkers"	B.S. Balaji, Ph.D.	Associate Professor, School of Biotechnology, Jawaharlal Nehru University, New Delhi
178	17.11.20 20	"The functions of noncoding RNAs in the cell, and their involvement in cancer. There is "nothing junk" about them"	Prof. Kannanganattu V. Prasanth PhD,	Department of Cell and Developmental Biology, School of Molecular and Cellular Biology Member, University of Illinois at Urbana-Champaign
179	18.11.20 20	START (Search for Truth and Return to Science), New Delhi is organizing a webinar "Science Film Screening for Skilling"	Matiur Rahman	National award winning Science Film Maker
180	20.11.20 20	"Understanding an Asian Elephant Society"	Vidya T.N.C, Ph.D.,	Associate Professor and Chair, Evolutionary and Integrative Biology Unit, Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Jakkur, Bengaluru 560064
181	23.11.20 20	Webinar Intellectual Property Rights (IPR) & Patent process	Dr. Pooja Vishal	Biosciences & IQAC MACFAST in association with Rajiv Gandhi National Institute Of Intellectual Property Management, Nagpur
182	22.12.20 20	GNR science club presentation on "Engineered Nano Structured Materials for Biomedical Applications"	Dr. Nandakumar Kalarikkal	Associate Professor at School of Pure and Applied Physics and Joint Director of International and Inter University Centre for Nanoscience and Nanotechnology of Mahatma Gandhi University, Kottayam, Kerala,
<b>2021</b>				
183	01.01.20 21	G N Ramachandran Science Club lecture on "Careers in Post-COVID world: How do you prepare yourself? "	Prof. Murty Srinivasula	Professor, School of Biology, IISER-Thiruvananthapuram
184	06.01.20 21	GN Ramachandran Science Club webinar on Advanced glycation end products	Dr. Cibir T Raghavan	Department of Biochemistry, Sree Chitra Tirunal Institute for Medical Sciences and Technology.
185	07.01.20 21	G N Ramachandran Science Club lecture on	Dr. Anoopkumar T.	Scientist G, Scientist-in-charge, SCTIMST



		“Critical questions of research during a Pandemic”		
186	22.01.20 21	GN Ramachandran Science Club webinar on ‘Green and Sustainable Routes for Shellfish Waste Valorization’	Dr.Gincy Marina,	CSIR-NIIST, Thiruvananthapuram
187	06.02.20 21	GN Ramachandran Science Club Talk "Role of FSSI in Ensuring Food Safety and Good Health”	Dr. Sanu Jacob, Director	Food Safety and Standard of India, (Ministry of Health and Family Welfare), Government of India
188	25.02.20 21	Webinar on “Valorization of natural byproducts to eco-friendly bioproducts- an interdisciplinary approach	Dr. Subha K,	post-doctoral fellow, Department of Biotechnology, Cochin University of Science and Technology
189	08.03.20 21	GN Ramachandran Science Club Talk On Microbial and Biochemical Spoilage Mechanisms in Fishery Products	Dr. Dhanya P. K.	Assitant Professor, MES College, Thrissur
190	08.03.20 21	Monday Seminar	Nagalakshmi	MACFAST Student talk
191	12.03.21	Session I: Biocide option to control the transmission of pathogen	Dr. Shilpa Sassedharan Nair	
		Session II: Masters or PhD options in New Zealand		
192	16.03.20 21	Webinar on “Role of microbes in our world ”	Dr. Michael Sauer	Associate Professor, Department of Biotechnology, Institute of Microbiology and Microbial Biotechnology BOKU, University of Natural Resources and Life Sciences Muthgasse 181 190 Vienna, Austria
193	15.03.21	Bioscience and space research	Goutham	MACFAST Student talk
		Food additives	Aksa	
194	16.03.21	The rule of microbes in our world	Michael Sauer	MACFAST Student talk
195	22.03.21	Monday Seminar	Hannah Daniel	MACFAST Student talk



		Monday Seminar	Lekshmi	
196	29.03.20 21	Monday Seminar	Alphonsa Thomas	MACFAST Student talk
197	12.04.20 21	Monday Seminar	Poornima R	MACFAST Student talk
198	19.04.20 21	Webinar: Gene Therapy in Glycogenstorage Diease	Dr. Nelson George	MACFAST Student talk
199	29.04.20 21	Essential of Clinical Research	Mr.Abhilash TS	Drug Safety Coordinator,Icon ClinicalResearch, Thiruvananthapuram