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**MAR ATHANASIOS COLLEGE FOR ADVANCED STUDIES  
TIRUVALLA (MACFAST)  
Thiruvalla - 689101**

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# **SEMINAR, WORKSHOP & OUTREACH PROGRAMMES**



## INTERNATIONAL CONFERENCE ON NANOMEDICINE AND NANOMATERIALS (ICNN-2021)

### Conference report

The international conference on nanomedicine and nanomaterials was held on the online platform (ZOOM) from 03- 05 September 2021. The conference was jointly organized by School of Biosciences, Mar Athanasios College for Advanced Studies Tiruvalla MACFAST and International and Inter-University Centre for Nanosciences and Nanotechnology (IIUCNN), Mahatma Gandhi University Kottayam. 360 registered participants from national and international domains attended the conference. Dr Jyothish Kumar Parameshwaran Pillai, Research Director, MACFAST served as the conference convener and Dr Smitha Vijayan, Associate Professor, School of Biosciences, MACFAST was the coordinator for the ICNN 2021.

The inaugural ceremony of the conference started with a warm welcome to the delegates and invited speakers by Dr Jenny Jacob, Head of the Department, School of Biosciences, MACFAST. She also gave an introduction about the genesis of the programme. The conference was inaugurated by Prof (Dr) Sabu Thomas, Hon. Vice-chancellor, Mahatma Gandhi University Kottayam at 8.30 am IST on 03/08/2021. The event was presided by Rev Dr Cheriyan J Kottayil, Principal MACFAST and felicitated by Prof. Varghese Abraham, Chief Administrator, MACFAST and Prof. Beena Cheriyan, Dean of Science, MACFAST. Vote of thanks was delivered at the event by Dr Jyothish Kumar Parameshwaran Pillai, Research Director, MACFAST.

After the inaugural ceremony the keynote speech of ICNN-21 was delivered by Prof (Dr) Sabu Thomas, Hon. Vice-chancellor, Mahatma Gandhi University Kottayam on Circular Economy: New Opportunities in Sustainable Nano Materials. The invited talks in the ICNN were handled by eminent scientist from different parts of the world. The list of invited speakers is on 03/08/2021 is as follows.,

1. **Prof. Jacques Desbrieres, Emeritus Professor, National Center for Scientific Research, France**
2. **Prof. (Dr.) Nandakumar Kalarikkal, Director, IUCNN M.G. University, Kottayam, India.**
3. **Dr. Sanjay Mavinke Rangappa, Research Scientist, King Mongkut's University of Technology, Thailand**
4. **Dr. Gerardo F Goya, Department of condensed matter Physics, INMA, University de Zaragoza, Spain**
5. **Dr. Ramesh T Subramaniam, Professor, Faculty of Science, University of Malaya, Malaysia**
6. **Prof. Marina Buranelo Egea, Federal Institute of Education, Brazil**
7. **Prof. Bingyun Bing Li, Professor, Department of Orthopedics, West Virginia, USA University**

On the second day of the conference, along with invited talks there was an oral paper presentation session on nanoscience chaired by Dr Smitha Vijayan, Associate Professor, School of Biosciences, MACFAST and Dr P Sathyanathan, Postdoctoral fellow, IIUCNN, Mahatma Gandhi University, Kottayam. In the oral paper presentation session, we had 8 presentations from research scholars, students and from the faculty. The list of invited speakers is on 04/08/2021 is as follows.,

1. **Dr. Sabarish R, Researcher, King Mongkut's University of Technology, Thailand**
2. **Dr. Sayan Ganguly, Researcher, Institute of Nanotechnology and Advanced Materials, Barllan University, Israel**
3. **Prof. Sarawut Rimdusit, Chair of Chemical Engineering Graduate Program, Department of Chemical Engineering Chulalongkorn University, Thailand**
4. **Dr. Sashidhran Sreenivasan, Associate Professor, Deputy Director, INFOMM, University of Malaysia**
5. **Dr. Sreeraj Gopi, President, SG Innovations, Visiting Professor, University of Manitoba**
6. **Dr. Ranu Dutta, Scientist and consultant, DY Patil International University, Pune Maharashtra**
7. **Prof. Maria J Sabater, Institute of Chemical Technology, Polytechnic University, Valencia, Spain**

On the third/ final day of the conference we had invited session and technical session for oral paper presentations in the life sciences category. The session was chaired by Dr. Sibiu Simon, Associate Professor, School of Biosciences, MACFAST and Dr Raji V Postdoctoral fellow, IIUCNN, Mahatma Gandhi University, Kottayam. 12 papers were presented in the session by research scholars, students and faculty from various institutions.

The international Conference on Nanomedicine and Nanomaterials were successfully concluded with the valedictory function held from 4.40 pm to 5.40 pm on 04/08/2021. Dr Jenny Jacob, Head of the Department, School of Biosciences, MACFAST delivered the welcome address at the event and it was presided by Prof. Varghese Abraham, Chief Administrator, MACFAST. Conference Convener, Dr Jyothish Kumar Parameshwaran Pillai, Research Director, MACFAST presented the conference report at the event. The best paper awards for the oral paper presentation session were declared by Dr. Sibiu Simon, Associate Professor, School of Biosciences, MACFAST. In the nanosciences category the best paper award was shared by Ms Meenu Thampy of School of Biosciences, Mahatma Gandhi University for her paper entitled Induction of defence response in *Oryza sativa* L. by chitosan nanoparticles against *Rhizoctonia solani* (Kuhn) and Ms Vandita Raj for her paper entitled mChlorine-free Extraction and Structural Characterization of Cellulose Nanofibers from Waste Husk of Millet (*Pennisetum glaucum*). In the life sciences category, Ms Adithya R S won the best paper award for the paper entitled Genetics and epigenetics of P-body components: expression analysis of MLN51 & RNASET2 in breast cancer cells after 5-

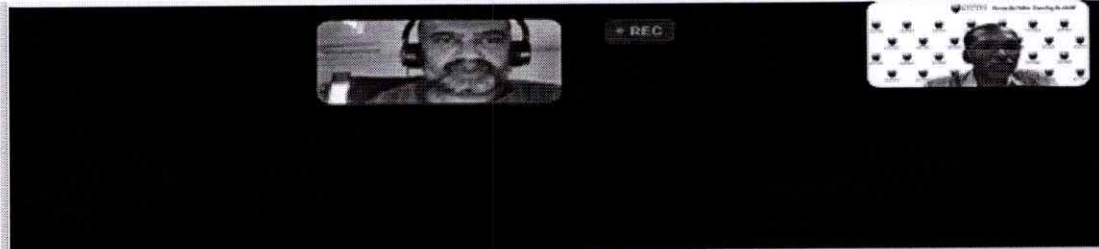
azacytidine treatment. The valedictory session came to an end with the vote of thanks delivered by Dr Smitha Vijayan, Conference Co Ordinator, Associate Professor, School of Biosciences, MACFAST.

The webinar provided a platform for effective discussions related to the recent progress and future prospects of nanomedicine and nanomaterials, and hope the webinar gave an opportunity for the delegates to interact with experts in the field. As the eminent nanotechnologist pointed out in the discussions, the advances in the nanotechnology field have to be explored more and such webinars would definitely give a thrust to the dissemination of knowledge on emerging techniques and prospects in the field.

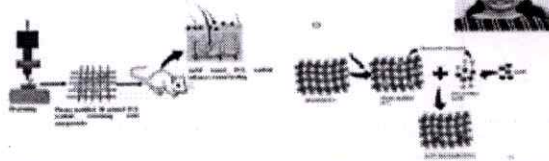
Conference report prepared by Dr Smitha Vijayan, Conference Co Ordinator, Associate Professor, School of Biosciences, MACFAST

#### Photos from the conference





**Nanocomposite Membranes for Biomedical Applications**  
3D printed PCL immobilized with gold nanoparticles

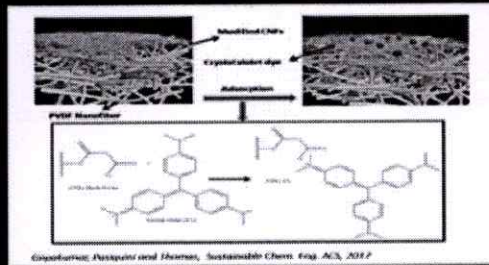
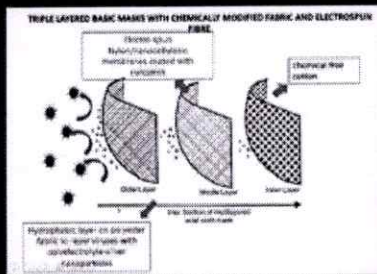


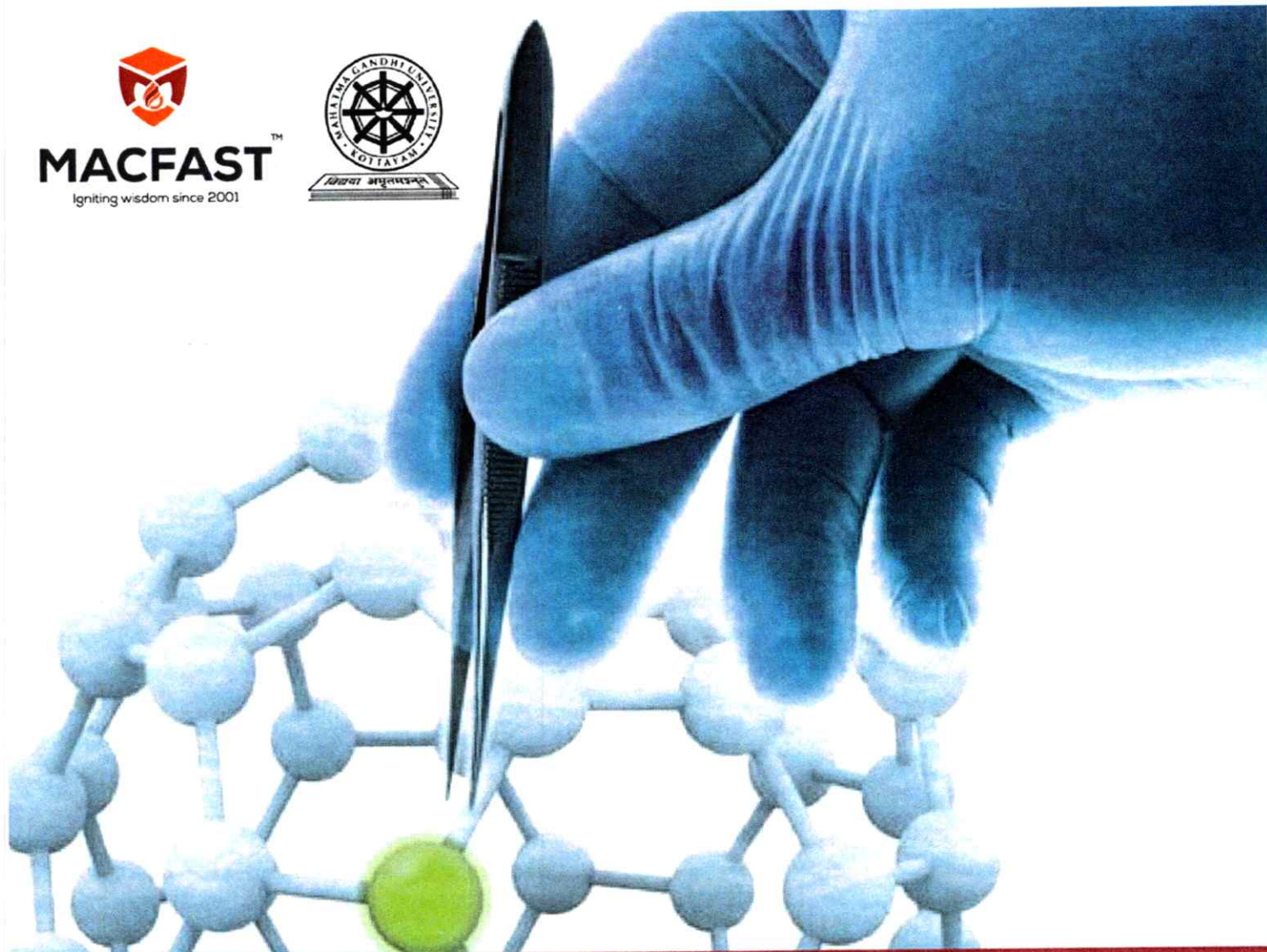
**An electric car battery that can be fully charged in five minutes**

- Major obstacle in buying an electric vehicle is the thought of having to wait for your battery to charge.
- SkyeDot has invented a battery that can be fully charged in five minutes. Five minutes is in the ballpark time of filling up a car with petrol or diesel.
- This paves the way for the launch of second-generation, **silicon-dominant anode**, **outgoing** battery for electric vehicles later this year.
- XFC (extreme fast charging) is possible – in 2019 with an electric scooter and six months ago with a commercial drone.
- Companies around the world are developing fast-charging batteries, with Tesla, Enevate and Sola Nanotechnology all working on **silicon anodes**. Others are looking at different compounds, such as Edison, which uses **graphene oxide nanoparticles**.
- The Storebot battery replaces graphite with semiconductor nanoparticles into which ions can pass more quickly and easily.
- These nanoparticles are currently based on germanium, which is water soluble and easier to handle in manufacturing. Storebot's plan is to use silicon, which is much cheaper.

Nandakumar Kalarikkal's screen

RAMESH T. SUBRAMANIAM's screen





## International Conference on Nanomedicine and Nanomaterials

03/09/2021 to 05/09/2021

Organized by  
**School of Biosciences, Mar Athanasios College for Advanced  
Studies, Tiruvalla (MACFAST)**  
in association with  
**International and Inter University Centre for Nanoscience and  
Nanotechnology (IIUCNN), Mahatma Gandhi University**

[Click Here for Registration](#)

### Conference Convener:

**Dr. Jyotishkumar Parameswaranpillai**, Research Director

### Co-ordinator

**Dr. Smitha Vijayan**, Associate Professor, School Of Biosciences, MACFAST

### Organizing Committee

**Prof. Beena Cheriyan,**

Dean School of Biosciences, MACFAST

**Mr. Stephan James,**

Assistant Professor,  
School of Biosciences, MACFAST

**Dr. Blessan Santhosh George,**

Assistant Professor,  
School of Biosciences, MACFAST

**Dr. Treesa Varghese,**

Assistant Professor,  
School of Biosciences, MACFAST

**Ms. Sini Kurien,**

Assistant Professor,  
School of Biosciences, MACFAST

**Dr. Shilpa Lekshmi L,**

Assistant Professor,  
School of Biosciences, MACFAST

**Dr. Soumya Madhavan,**

Assistant Professor,  
School of Biosciences, MACFAST

**Dr. Siby Simon,**

Associate Professor,  
School of Biosciences, MACFAST

**Ms. Teena Merlin,**

Assistant Professor,  
School of Biosciences, MACFAST

**Dr. Dhanya Radhakrishnan,**

Assistant Professor,  
School of Biosciences, MACFAST

**Dr. Haritha VH,**

Assistant Professor,  
School of Biosciences, MACFAST

**Ms. Steffi Merlin,**

Assistant Professor,  
School of Biosciences, MACFAST

**Ms. Ajmal Kallar Moidu,**

Assistant Professor,  
School of Biosciences, MACFAST

# 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 icecream 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 Kingdoms	Elma Susan Reji	MACFAST Student talk
15		Cold plasma technology in food processing	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,

## 2017

1	16.1.2017	High Throughput Sequencing	Kesiya Joy	MACFAST Student talk
2		Next generation sequencing methods	Annu S George	MACFAST Student talk
3	09.01.2017	Dissymetry and Assymetry	Sonia Philip	MACFAST Student talk
4		Pollination in flowering plants	Anashwara Shyam	MACFAST Student talk
5	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
6	06.02.2017	GN Ramachandran Science Club Seminar on "Genomes for Crop Improvement".	Dr. Babu Valliyodan	Division of Plant Sciences, University of Missouri, Columbia



7	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)
8	26.02.2017	State level "Seminar on Recent Innovations in Biomaterial Research from India" organized as part of National Science Day Celebrations	Dr. Bikramjit Basu	Professor, Materials Research Center, Indian Institute of Science, Bangalore
			Dr. Harikrishna Verma P. R.	Scientist, SCTIMST. Programme Funded by Kerala State Council for Science Technology and Environment (KSCSTE)
9	06.03.2017	Structure of Collagen	Ria Elza Varghese	MACFAST Student talk
		Biosensors of Food Industry	Hima Devadas	MACFAST Student talk
10	13.03.2017	Resistant Starch as Prebiotic and Dietary Fibre	Osheen Oliver	MACFAST Student talk
		Nutrition in Infants	Ooshmala B	MACFAST Student talk
11	27.03.2017	Evaluation of new indigenous milkdot ELISA as a field test for the detection of Myobacterium subspecies Paratuberculosis infection in lactating domestic live stock	Litty Thomas	MACFAST Student talk
12	27.03.2017	Antimicrobial activity of Myrobalan (Terminalia Chebula Retz) nuts for the application in raw skin preservation	Gayathri U	MACFAST Student talk
13	03.04.2017	Womb with a view	Varsha S. S.	MACFAST Student talk
14	15.5.2017	Zero Waste Management	Nadiya Nazer	MACFAST Student talk



15	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
16	19.06.2017	A Peel Science	Vishnu C.	MACFAST Student talk
17	20.09.2017	How to start startup companies?	Dr. C. N. Ramchand	CEO, Saksin Life Science Pvt. Ltd, Chennai
18	26.09.2017	Effect of cooking process on the level of enrofloxacin in pork	Teena Joseph	MACFAST Student talk
		Epidemiological studies of monosodium glutamate and health	Ansu Mary	
19	03.10.2017	Hazard analysis critical control point	Athira Rajan	MACFAST Student talk
20	09.10.2017	Ribosome associated protein quality control	Anjali S.	MACFAST Student talk
21	23.10.2017	An Introduction of Genetic Engineering	Neha Lukose	MACFAST Student talk
22	30.10.2017	A Day with an Entrepreneur	Dr. Muhammed Majeed	Founder & Managing Director,SAMI's lab ,Bangalore
23	30.10.2017	Project report presentation at Nestle Nanjangod Maggi Noodles plant	Keerthana Roop	MACFAST Student talk
24	13.11.2017	Lactosomia,Galactosomia,Hereditary Fructose Intolerance	Remina M Shajahan	MACFAST Student talk
		Heat Shock Proteins	Sijila S. P.	MACFAST Student talk
25	20.11.2017	Cryo Electron Microscopy	Basma Yusuf	MACFAST Student talk
		Secondary metabolism in plant cell culture	Amal Anand	MACFAST Student talk



26	24.11.2017	Systems Approach in Biotechnology	Dr. Sharma	Scientist ,CFTRI Mysore
27	18.12.2017	Gut microbiota facilitates dietary heme induced epithelial hyperproliferation by opening the mucus barrier in colon	Durga Venugopal	MACFAST Student talk

## 2018

1	08.01.2018	Workshop on Research Methodology	Dr. Michael Sauer	Department of Biotechnology, BOKU - University of Natural Resources and Applied Life Sciences, Vienna
2	29.01.18	Food laws and food packaging specifications	Twinkle Jose	MACFAST Student talk
3	01.02.2018	“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
4	12.02.2018	Dyes and pigments	Akshaya S. S.	MACFAST Student talk
5	26.02.2018	Scientific Innovations for Sustainable Development	Dr.Irfan Ahmad Ghazi	School of Life Sciences,Central University Hyderabad
6	07.04.2018	A Day with an Entrepreneur	Dr.Muhammad Majeed	Founder & Managing Director,SAMI's lab ,Bangalore
7	28.04.2018	Genetic Engineering	Akshay B.C.	MACFAST Student talk



8	30.04.2018	Phylogenetic Analysis and phylogenetic trees	Benitta Benny	MACFAST Student talk
9	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
10	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
11	21.05.2018	Dinacharya	Amal P. K.	MACFAST Student talk
12	31.06.2018	Emerging foods and their safety concerns	Dr. Asha Martin	Head, Dept. of Food Safety & Analytical Quality Control Laboratory (FSAQCL),CFTRI
13	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,Mysoru
14	03.09.2018	Light and Helio therapy	Anisha	MACFAST Student talk
		Photoimmunotherapy fpr cancer treatment	Veena C Nair	MACFAST Student talk
15	17.09.18	Embedded suestem in automobile	Linus	MACFAST Student talk
16	24.09.2018	An introduction to the world of photography	Amol Joseph Varghese	MACFAST Student talk



17	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
18	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
19	08.10.2018	Hightrouput DNA sequencing, concept and limitations	Staicy Treesa Tommy	MACFAST Student talk
		Bioplastic	Akhil R Chandran	MACFAST Student talk
20	15.10.2018	The weird and wonderful world of bioluminescence	Video show	
21	16th October 2018	Workshop on ‘Intellectual Property Rights, Patent Search and Filing’	Dr.Bismi Gopalakrishnan	Dean & Professor, School of Indian Legal Thought, M.G. University
				Trademark Attorney & Partner, Legalites IP Services, Thrissur
			Adv. Febin James	PIC-Kerala, KSCSTE
			Shri. Vishnu V.A	
22	22.10.2018	An Introduction to malnutrition	Akshaya C	MACFAST Student talk





23	29.10.2018	Tissue culture and next generation sequencing	Appus M V	MACFAST Student talk
24		Eccentric endangered plants, trees and some rare flowers	Athira Thomas	MACFAST Student talk

## 2019

1	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
2	25.02.2019	Bioprocess development of Docosohecanoic acid from novel fungal isolation from Fusarium solani	Gopika S Pillai	MACFAST Student talk
		Isolation and gene expression analysis of phospholipase C in response to abiotic stresses from Vigna radiata	Athira R Thankan	MACFAST Student talk
		Enzyme Therapy	Veena C Nair	MACFAST Student talk
3	27.02.2019	Sensing across scales: Fluorescent biosensors for live cell imaging and discoveries in natural light sensing and eye-brain regeneration	Dr.AkashGulyani	Institute for Stem Cell Science and Regenerative Medicine (inStem) ,Bangalore



4	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;
5	11.03.2019	Evolution of bacterial transcription regulatory networks	Dr.Aswin Sai Narain Seshasayee	National Centre for Biological Sciences (NCBS)
6	25.03.2019	Phylogenetic Structure of the prokaryotic domain:The primary kingdoms	Amal Joseph Varghese	MACFAST Student talk
		Phytochemical screening and evaluation of polyphenols, flavanoids and anti-oxidant activity of Peunus cerasoides	Merin Shaji	MACFAST Student talk
7	06.05.2019	Phytochemistry:Report presentation carried out at JNTBGRI Palode under the guidance of Dr. Rameshkumar	Veena C Nair	MACFAST Student talk
8	06.05.2019	The assessment of Abelmoschus esculentus cultivation using biofertiliser with newspaper waste	Haritha K	MACFAST Student talk
9	20.05.2019	Internship report on Ambadiyil Hi-tech Dairy-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
10	28.06.2019-05.06.2019	Jackfruit –Mango Fest	YMCA Tiruvalla	YMCA Tiruvalla



11	03.06.2019	Seminar on Eat Right	Food Safety Department ,Govt. of Kerala	Food Safety Department ,Govt. of Kerala
12	9th May 2019	"Entrepreneurship in Lifesciences"	Dr.Ramchand C.N.	CEO SakshinLifesciencesPvt.Ltd
13	10.06.2019	Comparitive study on organic acid content, phenolic content, antioxidant property of different non-carbonated, natural cool drinks available in the market	Ajith P A	MACFAST Student talk
14	28th June 2019	Applications of Physics and Mathematics in Biology	Dr.V.P.N. Nampoori	CUSAT
15	2nd July 2019	Fundamentals in Technical writing	Dr.K.P.Vijayakumar,	University of Kerala
16	5th July 2019	A career in science	Dr.Smitha Jain	Executive Director, India Bioscience,NCBS
17	8th July 2019	Recent Trends in Molecular Diagnostics	Dr.Anoopkumar T,	SreeChitraThirunalInsititute of Medical Sciences and Technology
18	15.07.2019	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
19	22.07.2019	Coffee consumption and decreased risk of hypertension	Jeemol Thomas	MACFAST Student talk
20	29.07.2019	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
21	05.08.2019	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
22	19.08.2019	You can make a forest- Miyawaki afforestation method	Anisha Anto	MACFAST Student talk
		Lets talk about depression	Sajith S Nair	MACFAST Student talk
23	26.08.2019	Illumina Sequencing		MACFAST Student talk
24	16.09.2019	Bioengineered skin system	Preena S Parvathy	MACFAST Student talk
25	23.09.2019	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
26	30.09.2019	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
27	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
			MurtySrinivasula	IISER Thiruvananthapuram



28	14.10.2019	C. V. Writing		
29	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
30	09.12.2019	Student Interaction with HoD, Mr. Biju Dharmapalan	Mr. Biju Dharmapalan	MACFAST

## 2020

1	09.01.2020	International seminar on Natural products chemistry	Prof.Khozirah Shaari	1. Professor, Laboratory of Natural Products, Institute of Bioscience, Universiti Putra, Malaysia
			Prof. Maribel Nonato,	1. Professor of Chemistry, Vice Rector for Research & Innovation, Office for Research & Innovation, Thomas Aquinas Research Complex, University of Santo Tomas, Manila, Philippines



				1. Padmashri Awardee (Former Director, CSIR-NBRI & CSIR-CIMAP, Lucknow & KSCSTE-JNTBGRI & DBT-RGCB, Thiruvananthapuram), UN Equator Initiative Laureate and Borlaug Awardee, DIRECTOR GENERAL, Amity Institute for Herbal and Biotech Products Development Thiruvananthapuram & Sr. Vice President, RBEF, New Delhi
			Prof.Dr.Palpu Pushpangadan	
			Prof.Dr.Varughese George	Director Amity Institute of Phytochemical and Phytomeddecine. Thiruvananthapuram
2	13.01.2020	Documentary on Space Time		
3	20.01.2020	Application of Bionanotechnology	Dr. Tasneem	
4	27.01.2020	Antidiabetic activity of methanol extract of Phyllanthus reticulatus leaves in mice	Aparna Tom	MACFAST Student talk
		Biosynthesis and characterisation of nano chitin from crab shell	Haritha M. A.	MACFAST Student talk



5	03.02.2020	G N Ramachandran Science Club invited lecture	Dr Shijulal N S	DST-Inspire, Faculty Fellow, RGCB (former Student M.Sc.Bioinformatics (2004-2006))
6	06.02.2020	National Science Day Celebrations - Invited lecture	Dr. Aiswarya G	MIGAL Galilee Research Institute, Kiryat Shmona, Israel ,recipient of Marie Curie Fellowship
7	10.02.2020	Microbial production of biodegradable plastic from agricultural waste	Krishnapriya H	MACFAST Student talk
8	11.02.2020	G N Ramachandran Science Club invited lecture	Bony De Kumar	PhD, Director, COBRE Genomics Core, Rm W127, University of North Dakota, School of Medicine and Health Sciences
9	24.02.2020	Seminar on Corona Virus Infection a possible hygiene precautions	Aspic Club	
		Corona Virus	Thasneem Nissam	MACFAST Student talk
10	03.03.2020	Recent trends in Bioinformatics Research	Dr. Shujilal	Scientist, RGCB
11	05-06-2020	Webinar " Journey from student to researcher"	Dr AjithAshokan,	IISER, Bhopal



12	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
13	22-06-2020	Webinar on Recent Advances in Food Packaging Technology"	Panneerselvam	Sr. Scientist , Department of Food Packaging Technology CSIR - Central Food Technological Research Institute,Mysuru
14	29-06-2020	Webinar on " Nutraceuticals, pomegranate and puniic acid "	Dr. R.P Singh	CSIR - Central Food Technological Research Institute, Mysuru
15	07-07-2020	The Chemical Language of Nature"	Dr. Shannon Olsson,	National Centre for Biological Sciences (NCBS) Bangalore
16	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
17	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
18	13-07-2020 to 14-07-2020	Online Hands on Training Programme in Primer Designing and Recombinant Vector Construction	Mr Stephen James Mr Blessan Santhosh George Mr Biju Dharmapalan	MACFAST Faculty





19	15-07-2020	Webinar on Modern Analytical Instrumentation and their application in Food Science	Vatcharavelu K.	Central Instrumentation Facility CSIR-CFTRI Mysuru
20	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
21	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.
22	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



23	27-07-2020	Webinar on "Lessons Learned in Lockdown"	Christopher P. Baines, Ph.D	Associate Professor, Department of Biomedical Sciences, University of Missouri
24	29-07-2020	Webinar on Traffic jams in healthy neurons regulate cargo flow	Dr Sandhya P Koushika	TIFR
25	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
26	03-08-2020	Webinar " Regulation of rapid adaptive responses in microorganisms "	Sander Granneman, Ph.D	MRC Senior Non-Clinical Research Fellow in RNA Biochemistry and Group Leader University of Edinburgh.
27	06-08-2020	Webinar "Science Communication through Scientoons"	Prof. Pradeep K. Srivastava,Ph.D.	Dy. Director (Sr. Principal Scientist) Ex. , Medicinal & Process Chemistry Division, CSIR-CENTRAL DRUG RESEARCH INSTITUTE (CDRI), Lucknow
28	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 Institute for Regenerative Medicine (WFIRM), North Carolina, USA



29	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-National Physical Laboratory, New Delhi
30	10-08-2020	Webinar "Flower evolution in a nutshell"	Dr. Annette Becker,	Justus-Liebig-University,Gießen, Germany
31	11-08-2020	Webinar "Functional Foods: Food Matrix Composition, interactions and bioavailability"	Dr. Veda Krishnan,Ph.D.	Fulbright Fellow Scientist (Senior Scale),Division of Biochemistry ,ICAR-Indian Agricultural Research Institute ,New Delhi
32	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
33	13-08-2020	Webinar "Life at Science"	Valda J. Vinson,PhD.,	Editor, Science
34	14-08-2020	Webinar "Collective animal motion"	VishweshGuttal,Ph.D.,	Associate Professor, Centre for Ecological Sciences,Indian Institute of Science, Bengaluru



35	17-08-2020	Webinar "Multiple Facets of Gene Regulation: through the Eyes of Pseudoexfoliation"	Debasmita P. Alone, Ph.D	Associate Professor, National Institute of Science Education and Research (NISER)
36	18-08-2020	Webinar "Speed Control in Animals: Making and Breaking Rules"	Dr. Vatsala Thirumalai	Associate Professor, Senior Fellow, Wellcome Trust – DBT India Alliance, National Centre for Biological Sciences, Bangalore
37	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
38	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
39	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



40	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
41	28th and 29th August, 2020	Career Guidance and Life skill training Webinar by MAKS	Dr. Jenny Jacob	MACFAST Faculty
42	29-08-2020	Webinar "Studying Asian Honey Bees"	Dr. Axel Brockmann	National Centre for Biological Sciences, Tata Institute of Fundamental Research, Bellary Road, Bangalore
43	01-09-2020	Webinar "New Horizons for the Chromosome Segregation Machinery"	DhanyaCheerambathur, Ph.D.,	Wellcome Centre for Cell Biology, University of Edinburgh, Scotland UK
44	03-09-2020	Webinar " Innate immune surveillance by Surfactant protein SP-D in cancer "	Dr Uday Kishore,	Brunel University & University of Oxford, London



45	04-09-2020	Webinar on Simultaneous Detection of Neurochemicals by a Microfluidic Device"	Prof SuddhasatwaBasu,	FNASc, FRSC, FICS, Outstanding Professor, AcSIR;Director, CSIR-Institute of Minerals & Materials Technology (IMMT);Bhubaneswar
46	05-09-2020	Webinar "Neuroendocrine regulation of metabolic physiology"	Bhavani Shankar Sahu,Ph.D.,	National Brain Research Centre,Manesar,
47	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)
48	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 ResearchPune
49	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
50	14-09-2020	Webinar "Nano-size steps and meter-long journeys– Reaching destinations through obstacles and random walk"	Prof.KrishanuRay,Ph.D.,	FNA,Department of Biological Sciences, Tata Institute of Fundamental Research



51	16-09-2020	Webinar "Structure-based protein engineering to alter functional properties of enzymes for industrial and pharmaceutical	SampaBiswas,Ph.D.,	Crystallography & Molecular Biology Division, Saha Institute of Nuclear Physics,Kolkata
52	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,
53	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
54	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 Edinburg
55	25-09-2020	Webinar "Structural Biology - where are we now and where are we going"	Prof.RamaswamySubramanian,Ph.D.,	Director, Bindley Bioscience Center,Purdue University
56	26-09-2020	Webinar "3D Bioprinting: An Innovative Medical Technology for Repair and Replacement of human tissues and organs"	Prafulla Chandra,Ph.D.,	Wake Forest Institute for Regenerative Medicine



57	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
58	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
59	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
60	07-10-2020	Webinar "INFORMED WALK ACROSS RAMACHANDRAN MAP IN SEARCH OF NOVEL BIOMATERIALS"	Dr.Vibin Ramakrishnan,	Professor, Biosciences & Bioengineering ,Indian Institute of Technology Guwahati
61	09-10-2020	Webinar "Millets: Nutritional potential and challenges"	Dr. Paras Sharma	Scientist C, Food Chemistry Division, ICMR-National Institute of Nutrition, Hyderabad
62	08-10-2020	Webinar "Nutrition research in India - How does one go about it?"	Raja SriswanMamidi,Ph.D.,	by Scientist C, National Institute of Nutrition, Hyderabad





63	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 91040 &Professor,Dept. of Computer Science and Applied Mathematics, The Weizmann Institute of Science,Rehovot, Israel
64	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
65	14-10-2020	Webinar "Biotechnological tools in biodiversity conservation"	G.UmapathyPh.D	Senior Principal Scientist and Group Leader,Laboratory for the Conservation of Endangered Species (LaCONES) ,CSIR-Centre for Cellular and Molecular Biology (CCMB),Hyderabad



66	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.,	Staff Scientist ,National Institute of Diabetes and Digestive and Kidney Diseases,U.S. Department of Health and Human Services,
6	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
67	20-10-2020	Webinar "Research and its dissemination during the pandemic"	Dr.Magdalena Skipper	Editor-in-chief,Nature
68	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
69	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



70	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
71	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
72	05.11.2020	Webinar "Prospects and opportunities in Science Communication"	Dr Manoj Kumar Patairiya,	Adviser & Scientist G,Science&Engineering Research Council ,Department Of Science & Technology, Govt.of India
73	11.11.2020	Webinar on Covid 19 Vaccines	Dr RaghavanVaradarajan	Molecular Biophysics Unit Indian Institute of Science, Bangalore
74	16.11.2020	Webinar "Green chemical synthesis using bi-functional linkers"	B.S. Balaji,Ph.D.	Associate Professor, School of Biotechnology, Jawaharlal Nehru University ,New Delhi
75	17.11.2020	"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



76	18.11.2020	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
77	20.11.2020	"Understanding an Asian Elephant Society"	VidyaT.N.C,Ph.D.,	Associate Professor and Chair, Evolutionary and Integrative Biology Unit, Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR),Jakkur, Bengaluru 560064
78	23.11.2020	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
79	22.12.2020	GNR science club presentation on "Engineered Nano Structured Materials for Biomedical Applications"	Dr.NandakumarKalarikkal	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,



# 2021

1	01.01.2021	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
2	06.01.2021	GN Ramachandran Science Club webinar on Advanced glycation end products	Dr.Cibin T Raghavan	Department of Biochemistry, SreeChitraTirunal Institute for Medical Sciences and Technology.
3	07.01.2021	G N Ramachandran Science Club lecture on "Critical questions of research during a Pandemic"	Dr Anoopkumar T.	Scientist G, Scientist-in- charge, SCTIMST
4	22.01.2021	GN Ramachandran Science Club webinar on 'Green and Sustainable Routes for Shellfish Waste Valorization'	Dr.Gincy Marina,	CSIR-NIIST, Thiruvananthapuram
5	06.02.2021	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



6	25.02.2021	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
7	08.03.2021	GN Ramachandran Science Club Talk On Microbial and Biochemical Spoilage Mechanisms in Fishery Products	Dr. Dhanya P. K.	Assitant Professor, MES College, Thrissur
8	08.03.2021	Monday Seminar	Nagalakshmi	MACFAST Student talk
9	12.03.21	Session I: Biocide option to control the transmission of pathogen	Dr. Shilpa Sassedharan Nair	
10		Session II: Masters or PhD options in New Zealand		
11	16.03.2021	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 Muthgasse181190Vienna, Austria
12	15.03.21	Bioscience and space research	Goutham	MACFAST Student talk
		Food additives	Aksa	
13	16.03.21	The rule of microbes in our world	Michael Sauer	MACFAST Student talk
14	22.03.21	Monday Seminar	Hannah Daniel	MACFAST Student talk
15		Monday Seminar	Lekshmi	MACFAST Student talk
16	29.03.2021	Monday Seminar	Alphonsa Thomas	MACFAST Student talk
17	12.04.2021	Monday Seminar	Poornima R	MACFAST Student talk



18	19.04.2021	Webinar: Gene Therapy in Glycogen storage Disease	Dr. Nelson George	MACFAST Student talk
19	29.04.2021	Essential of Clinical Research	Mr.Abhilash TS	Drug Safety Coordinator,Icon Clinical Research, Thiruvananthapuram

