



The National Academy of Sciences, India (NASI)

5, Lajpatrai Road, Prayagraj-211002, India

Monthly Summary for the month of October 2020

1. Workshop on Recent Advances in Molecular Biology Techniques (Sept. 28-Oct. 2, 2020), organised by NASI-Bhopal Chapter in collaboration with the AKS Univ., Rewa and other esteemed institutes/laboratories (a copy of the notice issued, enclosed herewith - [Annex. 1](#)).
2. Inauguration of NASI-Kerala Chapter and Webinar, held on 30th September 2020 (details enclosed herewith - [Annex. 2](#)).
3. A) Webinar on 'Nutrition: A Weapon to Combat COVID-19', held on October 1, 2020, organized by NASI, Prayagraj & NIPGR, New Delhi under NASI's programme on Nutrition (a copy of the programme enclosed herewith - [Annex. 3 'a'](#)), as per announcement made by the Hon'ble PM to celebrate 'Poshan Mah'.

B) Webinar organized by the NASI (Prayagraj) on 16th October, 2020, under the Theme "Bioresources for combating COVID-19" under the initiative of observing the special program on "Poshan - A focus on children and their education, immunity against COVID -19" (a copy of the programme enclosed herewith - [Annex. 3 'b'](#)).
4. WEB Talk on COVID-19 & Online 3-day Course (Oct. 8 to 10, 2020) on Immunology (A virtual school - From Basic to advanced Immunology), were organized by NASI-Chandigarh Chapter & FIMSA.
5. Webinar on the "Role of Functional Nanomaterials in Combating COVID-19 Pandemic" organized/to be organised by the Govt. VYT Autonomous PG College, Durg, in association with Mumbai Chapter of the NASI on 29th and 30th October, 2020 (a copy of the programme enclosed herewith - [Annex.4](#)).
6. Popular Science Web Lectures were also delivered for the +2 level school students (a copy of the programme enclosed herewith - [Annex. 5](#)).
7. Several programmes are being organized to support the **JAGRUKTA ABHIYAN FOR COVID-19 PANDEMIC**, launched by the Hon'ble Prime Minister of India; the detailed report would be submitted soon.

Several other NASI Chapters also organized online scientific activities.

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A collaborative initiative by
Merck High-End Skilled Development Centre,
A CSIR-Institute of Microbial Technology (CSIR-IMTech) Initiative
(Ministry of Science & Technology, Govt. of India), Chandigarh

Workshop-IX

Recent Advances in Molecular Biology Techniques, Real Time PCR, Sequencing and Protein Analysis

28 September - 02 October, 2020

During this
course **you will learn:**

- Research design- defining questions, designing experiments, data analysis and data handling
- DNA techniques- DNA isolation, basics of PCR, gel electrophoresis,
- RNA techniques- RNA isolation, electrophoresis and quality control
- Expression analysis- by RT-PCR, cDNA synthesis, data analysis
- Protein techniques- protein isolation, Western Blotting by SNAP-ID

Scan for Registration



Registration Fee: Rs. 300

Registration Link: http://ebiotechcourse.aksuniversity.ac.in/Online_Registration.php

For more details: www.ebiotechcourse.aksuniversity.ac.in

9302812369, 9877594047 (11AM to 5PM)

E-Certificate will be issued

Report of the Inauguration of the National Academy of Sciences, India (NASI), Kerala Chapter

The inauguration of National Academy of Science, India, Kerala Chapter was conducted online (Google Meet) in the forenoon of 30 September 2020. The meeting started with the welcome address of Professor KV Peter, President of the chapter, and was followed by an obituary reference to seven departed fellows and members of the chapter.

The meeting was chaired by Prof. (Dr) Manju Sharma, NASI-DST Distinguished Woman Scientist Chair and former Secretary, Department of Biotechnology, Government of India. In her presidential address, Prof. Manju Sharma highlighted the potential role of the Kerala Chapter in spearheading science popularization activities in the state of Kerala. In particular, she emphasized the need for developing programmes with special reference to bioresources and bioeconomy, biofortification, genomics-assisted crop improvement and diversification of food basket, benefiting women, children and the tribal people.

Professor G. Padmanabhan, President of NASI, in his inaugural address narrated his association with various scientific institutions in Kerala. Specifically, he referred to the evolution of space research in India, which had its origin in Thiruvananthapuram and recalled the stellar roles played by stalwarts like Vikram Sarabhai and APJ Abdul Kalam in building space research capabilities locally. He also set the agenda for the Kerala Chapter and made a clarion call to take science to the people and to project science in Kerala to outside the state so that Kerala becomes an important science destination of the country.

Prof. S. Ayyappan, former Director General, Indian Council of Agricultural Research and Secretary, Department of Agricultural Research and Education, New Delhi and Chancellor, Central Agricultural University, Imphal, delivered a keynote speech titled “Biodiversity and Fisheries Management”. He deliberated on aspects like fish biodiversity in the freshwaters of Western Ghats and the surrounding oceans and stressed on themes like “fish for all” and food-water-energy nexus in his speech.

Prof. R. Chandra Babu, Vice-Chancellor, Kerala Agricultural University and guest of honour of the inaugural function, in his address briefly described the importance of containing the spread of zoonotic diseases, and highlighted the need for scaling up science promotion activities in the state especially in taking science to people. He also offered support to the Kerala Chapter in all its endeavours.

Mr. Oommen V. Oommen, former Chairman of Kerala State Biodiversity Board, emphasised the need to conserve biodiversity and natural resources and offered support for the activities of the NASI-Kerala chapter. He also stressed upon ABS (Access and Benefit Sharing) for sustainable development and the role of biodiversity in food and livelihood security and for providing ecosystem services.

Prof. Satya Deo, General Secretary, NASI, gave a brief account of the ancient scientific contributions of Kerala, especially that of the early mathematician, Mādhava of Sangamagrāma, who made pioneering contributions to the study of infinite series, calculus, trigonometry, geometry, and algebra. In his talk, he also highlighted “The Role of Local Chapters” and emphasized that the NASI programmes are to be operationalized throughout the country with the involvement of its 23 local chapters.

The meeting was attended by 56 individuals (list attached), which included 34 esteemed fellows and members of the Academy and 22 faculty members of the Kerala Agricultural University. Distinguished individuals like Dr.K. Radhakrishnan, former chairman, Indian Space Research Organization, Dr. Ved Prakash Kamboj, former president of NASI, Dr. Pramod Tandon, Ex-Vice-chancellor of North Eastern Hill University, Dr. Wazir Singh Lakra, former Director, Central Institute of Fisheries Education, Mumbai, were part of the audience.

Dr. Niraj Kumar and Dr. Santhosh Shukla delivered felicitation speeches. Prof. B. Mohan Kumar, Secretary of the Kerala Chapter proposed a formal vote of thanks to the guests, fellows and Members, who participated in the event.

Dr. Soniya EV, Scientist G, Rajiv Gandhi Centre for Biotechnology, Advisor, NASI Kerala Chapter anchored the session and Dr. Deepu Mathew, Kerala Agricultural University hosted it.

The meeting came to an end at 1.15 PM.

(B. Mohan Kumar)
Secretary, NASI Kerala Chapter

Inauguration of the National Academy of Sciences, India (NASI), Kerala Chapter on 30 Sep 2020: List of participants

1. Prof. Manju Sharma
2. Prof. Govindarajan Padmanabhan
3. Prof. S. Ayyappan
4. Dr. Radhakrishnan K.
5. Mr. Oommen V. Oommen
6. Prof. R. Chandra Babu
7. Prof. SatyaDeo
8. Prof. Peter K.V.
9. Prof. B. Mohan Kumar
10. Dr. Soniya E.V.
11. Dr. Deepu Mathew
12. Dr. Niraj Kumar
13. Dr. Santhosh Shukla
14. Dr. VPN Nampoori
15. Prof. Prakshkumar R.
16. Prof. Jayachandran K.V.
17. Prof. Muralee Damodaran
18. Prof. Mohanan P.V.
19. Dr. Perumana Sudhakaran
20. Dr. Abdul Jaleel
21. Dr. Amit Jaiswal
22. Dr. Bhanu Pratap Singh
23. Prof. Deepak Verma
24. Dr. Lekshmi R.S.
25. Dr. Malini Laloraya
26. Dr. Manzoor Koyakutty
27. Dr. Delphy Rocha
28. Dr. Naresh Kasoju
29. Dr. Pramod Tandon
30. Dr. Rajalekshmi Kamala
31. Dr. Ved Prakash Kamboj
32. Dr. Wazir Singh Lakra
33. Dr. Lekshmi Srinivas
34. Prof. Edathil Vijayan
35. Prof. Abida PS.
36. Prof. Betty Bastin
37. Dr. Bini K.
38. Dr. Binu Kamalobhavan
39. Dr. Bobby VU.
40. Prof. K. Vidyasagaran
41. Prof. Haseena Bhaskar
42. Prof. Helen S.
43. Prof. Meera V. Menon
44. Prof. Jayasree Sankar
45. Prof. Kurien EK.
46. Dr. Manju Elizabeth
47. Dr. Manju RV.
48. Dr. Nidheesh P.
49. Dr. Binitha NK.
50. Prof. Sudgakara K.
51. Dr. Chitra N.
52. Dr. Divya Vijayan
53. Prof. Kunhamu TK.
54. Dr. Prasanth K.
55. Dr. Rajalekshmi
56. Dr. Ambily AK.



Jointly organized by NASI & DBT-NIPGR

Cordially invite you to



*Webinar on
'Nutrition: A Weapon to Combat COVID-19'
01 October 2020*



Webinar on 'Nutrition: A Weapon to Combat COVID-19'

(Jointly organized by NASI & DBT-NIPGR)



Date: 01 October 2020

Time: 10:30 am-1:00 pm

Programme

- Welcome Address** : **Dr. Subhra Chakraborty** (Coordinator)
Director, NIPGR, New Delhi
- Opening Remarks** : **Prof. (Mrs.) Manju Sharma** (Chair)
Former Secretary to the Govt. of India
Department of Biotechnology, New Delhi
Distinguished Women Scientist Chair, NASI, Allahabad
- Inaugural Address** : **Dr. Renu Swarup**
Secretary, Department of Biotechnology, New Delhi
- Presidential Address** : **Prof. G Padmanaban**
Hon'ble President, NASI
- Lecture-1** : [Meeting Nutritional Challenges for a Healthy Lifestyle](#)
- Speaker : **Prof. Paramjit Khurana**
Head, Department of Plant Molecular Biology,
University of Delhi South Campus, New Delhi;
General Secretary (OS), NASI
- Lecture- 2** : [What is Healthy Nutrition and its Effect on Immunity?](#)
- Speaker : **Prof. Pramod Garg**
Department of Gastro Enterology, AIIMS, New Delhi
- Summary by the Chair**
- Vote of thanks** : **Dr. Naveen Bisht**
Scientist, NIPGR, New Delhi



WEBINAR **"BIORESOURCES FOR COMBATING COVID-19"**

16TH OCTOBER, 2020
11:00 am to 2:00 pm

JOINTLY ORGANIZED BY
**THE NATIONAL ACADEMY OF SCIENCES, INDIA,
PRAYAGRAJ**
&
NASI LUCKNOW CHAPTER
(UNDER NASI NEW INITIATIVES)

Inaugural Address:
Prof. G. Padmanaban,
Hon'ble President,
NASI

Opening Remarks:
Prof. (Mrs.) Manju Sharma,
Chairperson,
NASI New Initiatives



Webinar on 'Bioresources for combating COVID-19'
(Jointly organized by NASI & NASI Lucknow Chapter under NASI New Initiatives)
Date: October 16, 2020
Time: 11:00 am to 2:00 pm

Programme

Welcome Address	Prof. Pramod Tandon CEO, Biotech Park, Lucknow; Chairman, NASI Lucknow Chapter
About NASI's POSHAN Programmes	Ms Archna Pant Young Woman Scientist, NASI
Role of Local Chapters with reference to Lucknow Chapter	Dr. Suchitra Banerjee (Coordinator) NASI Senior Scientist, CSIR - CIMAP, Lucknow; Secretary, NASI Lucknow Chapter
Opening Remarks	Prof. (Mrs.) Manju Sharma Former Secretary to the Govt. of India Department of Biotechnology, New Delhi; Chairperson, NASI New Initiatives
Inaugural address	Prof. G. Padmanaban Hon'ble President, NASI; Former Director, IISc, Bangalore
Lecture Session Presided over by	Prof. Veena Tandon NASI Senior Scientist, Biotech Park, Lucknow
Lecture: 1 Speaker	Ashwagandha-Human Health and Covid19 Prof. Madhu Dikshit National Chair - THISTI, Faridabad; Former Director, CSIR - CDRI, Lucknow
Lecture: 2 Speaker	Potential of essential oils and plant ingredients in preventing the spread of COVID - 19 Prof. Anil Kumar Tripathi Director, Institute of Science, BHU, Varanasi; Former Director, CSIR - CIMAP, Lucknow
Lecture: 3 Speaker	Musculoskeletal health in the times of COVID Dr. Ritu Trivedi Principal Scientist, CSIR - Central Drug Research Institute, Lucknow
Summing up	Prof. Paramjit Khurana Head, Department of Plant Molecular Biology, University of Delhi South Campus, New Delhi; General Secretary (OS), NASI
Vote of Thanks	Dr. Niraj Kumar Executive Secretary, The National Academy of Sciences, India, Prayagraj



INTERNATIONAL WEBINAR

Annex. 4



ROLE OF FUNCTIONAL NANOMATERIALS IN COMBATING COVID-19 PANDEMIC

29th - 30th October, 2020

INAUGURAL FUNCTION

CHIEF GUEST



PROF. ARUNA PALTA
HON'BLE VICE-CHANCELLOR
HEMCHAND YADAV UNIVERSITY, DURG
(C.G.) INDIA

Organized by

Department of Chemistry
Govt. V.Y.T. PG Autonomous College, Durg (C.G.)

[Reaccredited with 'A+' - Grade by NAAC, Bengaluru
Centre for Potential for Excellence, UGC, New Delhi

in association with

The National Academy of Sciences, India
(Mumbai Chapter)

GUEST OF HONOUR



PROF. MANJU SHARMA
PADMA BHUSHAN
CHAIRPERSON- New Initiatives, NASI
DISTINGUISHED WOMAN SCIENTIST
CHAIR, NASI; FORMER
SECRETARY TO GOVT. OF INDIA, DBT

SPECIAL GUEST



PROF. SUSHIL CHANDRA TIWARI
ADDITIONAL DIRECTOR
DEPARTMENT OF HIGHER EDUCATION
(DURG ZONE) (C.G.), INDIA

CHAIRPERSON



PROF. ANIL KUMAR SINGH
CHAIRMAN, THE NATIONAL ACADEMY OF SCIENCES, INDIA
(MUMBAI CHAPTER)

PATRON



PROF. R. N. SINGH
PRINCIPAL, GOVT. VYT PG
AUTONOMOUS COLLEGE, DURG
(C.G.) INDIA

EMINENT SPEAKERS



DR. TATA NARASINGA RAO
SCIENTIST G & ASSOCIATE DIRECTOR
ARCI, HYDERABAD, INDIA



PROF. FRANK ALEXIS
DEPARTMENT OF BIOLOGICAL SCIENCES & ENGINEERING,
YACHAY TECH UNIVERSITY, ECUADO



PROF. ARVIND NERALWAR
PROFESSOR AND HEAD
DEPARTMENT OF MICROBIOLOGY
PT. JLN MEDICAL COLLEGE, RAIPUR, INDIA

VALEDICTORY FUNCTION CHIEF GUEST



DR. RAGHVENDRA MISHRA
SCHOOL OF AEROSPACE,
TRANSPORT AND MANUFACTURING
CRANFIELD UNIVERSITY, U.K.



DR. BIPIN KUMAR
DEPARTMENT OF TEXTILE ENGINEERING
IIT DELHI, INDIA



SHRI MUDIT KUMAR SINGH
DIRECTOR GENERAL,
CHHATTISGARH COUNCIL OF SCIENCE AND TECHNOLOGY,
RAIPUR (CG), INDIA

ABOUT THE WEBINAR

This International Webinar, organized by the Department of Chemistry in association with the National Academy of Sciences, India (Mumbai Chapter) would provide a common platform to experts, young scholars and students to present their works, interact and exchange their innovative ideas in the field of functional nano-materials and their significance in combating the prevailing Covid-19 pandemic. The spread of Novel SARS -CoV-2 threatens social and economic development, human well being and ecological integrity. This webinar will prove instrumental in discussing the prospects of pandemic crisis, ways for maintaining sustainable development and measures of combating the challenges of post Covid-19, with the help of functional nano-materials. Further, the Covid-19 pandemic has caused a huge disruption in the conduct of academic programmes and opening up of academic institutions across the country. Now, these institutions are slowly and cautiously opening. Under these circumstances, it is highly imperative to organize awareness programmes for efficiently tackling the prevailing pandemic. In this context, the webinar is an endeavour towards creating awareness among the campuses and associated masses, towards Covid-19 pandemic.

ABOUT REGISTRATION

- No registration fee.
- Webinar is open to academicians, scientists, environmentalists and researchers.
- Seats are limited and registration shall be done on first come first serve basis.
- Certificates will be awarded to all participants after submitting feedback on all sessions.

Registration can be done through the link given below:

<https://forms.gle/7zfniCSMbN4mwhqR8>

Link for attending webinar will be mailed to your email address.

SCHEDULE

PROGRAMME	TIME
Day -1 29.10.2020	
INAUGURAL SESSION	10.00 – 11.00 AM IST
TECHNICAL SESSION- 1	
Dr Tata Narasinga Rao	11:00 to 11:30 AM IST
Dr. Raghvendra Mishra	11.30 to 12.00 PM IST
Day- 2 30.10.2020	
TECHNICAL SESSION- 2	
Prof. Frank Alexis	10:00 to 10:30 AM IST
Prof. Bipin Kumar	10.30 to 11.00 AM IST
Prof. Arvind Neralwar	11.00 to 11.30 AM IST
VALEDICTORY SESSION	11:30 to 12:00 PM IST

FURTHER QUERIES

For any queries regarding the webinar, please contact the organizing team members.

PATRON

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Principal

Govt. V.Y.T. PG Autonomous College, Durg (C.G.)

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Dr. Anupama Kashyap

Dr. Prerna Kathane

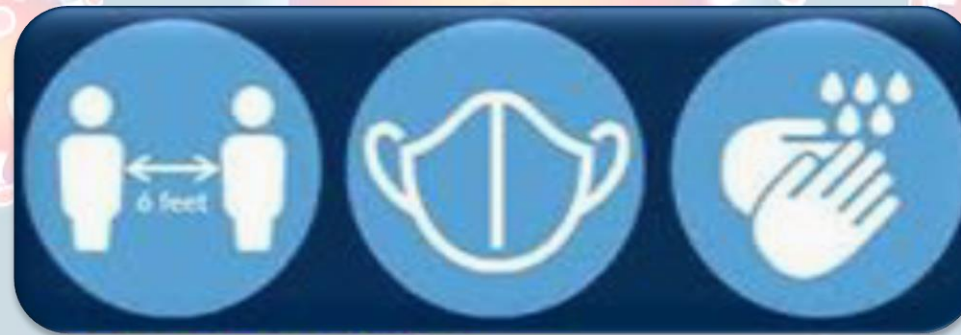


JAGRUKTA ABHIYAN FOR COVID-19 PANDEMIC

Launched by the National Academy of Sciences, India (NASI)
Under 'NASI New Initiatives'

Chairperson: Prof. (Mrs.) Manju Sharma

Former Secretary to the Govt. of India,
Department of Biotechnology
Distinguished Women Scientist Chair, NASI, Allahabad



Wearing Mask - Maintaining Social Distancing & Cleaning Hands with Soap

Stay Safe – Healthy and Happy

(सौजन्य - NASI- Mumbai Chapter)



THE NATIONAL ACADEMY OF SCIENCES, INDIA (NASI)

&

GOVERNMENT GIRLS INTER COLLEGE (GGIC), PRAYAGRAJ

jointly organizes lecture series on “**MISSION SHAKTI**”

(A Special Awareness Campaign Launched by Hon'ble Chief Minister of Uttar Pradesh for Women and Girl-Child towards Ensuring their Safety and Dignity)

--- Tentative programme ---

Date: October 27th, 2020

Web link: <https://nasi.webex.com/nasi/j.php?MTID=m53bbb3c65305cc5de5e35915510e0eae>

Speaker 1 (1.00 pm to 2.00 pm):

- **Shri Susheel Dwivedi**, NASI-Science Teacher Awardee; & State Coordinator, Vidharthi Vigyan Manthan (Vigyan Bharti) & Green Olympiad (TERI)

Date: October 28th, 2020

Web link: <https://nasi.webex.com/nasi/j.php?MTID=mb927f49d1a9d54209ace12c87153f43b>

Speaker 2 (1.00 pm to 2.00 pm)

- **Dr. Archana Pandey**, Department of Chemistry C.M.P.P.G. College, University of Allahabad, Prayagraj

Preside over and Concluding Remarks (2.00 pm to 2.30 pm)

- **Prof. U.C.Srivastava**, Coordinator Science Communication Prog., NASI

✚ Chief Host of the Programme:

Dr.(Mrs.) Indu Singh, Principal, GGIC, Civil Lines, Prayagraj

✚ Programme coordinator:

Dr. Madhu Yadav, GGIC, Civil Lines, Prayagraj