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The advance scanned copy of the nomination may be sent by email. In case total number of participants exceeds 25, preference will be given on first come first serve basis and based on the selection criteria set by the evaluation committee.

Note: The candidates will be notified about the selection latest by 16/09/2022. In case of any query please contact Course Director, Co-Director or Coordinator.

IMPORTANT DATES

Last date of application	15/09/2022
Communication to participants	16/09/2022
Commencement of training programme	29/09/2022

For Updates visit: www.ndri.res.in

75
Azadi Ka
Amrit Mahotsav

100
NDRI
CELEBRATING
100 Years of Foundation
in Dairy Science



High-End Workshop (Karyashala) on

Probiotics for Human and Animal Health

Sponsored by

**Science and Engineering Research Board
(Accelerate Vigyan Scheme)**

September 29 to October 12, 2022



Jointly Organised by
**Dairy Microbiology Division
&
Animal Nutrition Division**



ICAR-National Dairy Research Institute
(Deemed University)
Karnal- 132001 (Haryana) INDIA
www.ndri.res.in

About NDRI

ICAR- National Dairy Research Institute (NDRI), Karnal is the renowned institute undertaking research, teaching, and extension activities for dairy development in India. ICAR- NDRI conducts basic and applied research aiming to enhance productivity and to develop cost-effective technologies for income enhancement of dairy farmers. Further, it provides high-quality manpower to meet the human resource requirements for the overall dairy development in the country. Over the last several decades, the institute has been continuously striving to fine-tune its R&D and HRD programmes to better serve the nation in terms of food and nutritional security, human resource generation, technology dissemination, and economic prosperity of dairy farmers.

About the Workshop

Probiotics that evolved in the early 20th century as “Beneficial Microbes” have gained tremendous popularity as natural therapeutics to promote human and animal health. These beneficial organisms have immense potential to influence various physiological functions such as; digestion, absorption, metabolism, vitamin synthesis, host cell development, immune system function, intestinal barrier function, defense against pathogens, and other activities that are critical to human and health. Their prophylactic and therapeutic effects have been well established in the prevention and treatment of wide range physiological, gastro-intestinal, metabolic, cardio-vascular, immunological, respiratory and neurological diseases

and disorders in numerous in-vitro, in-vivo, clinical and meta-analysis studies. In comparison, probiotics have more credible potential than their counterpart such as antibiotics and pharmaceuticals as safe, low cost dietary interventions for human and animal health. Hence the High-end workshop (Karyashala) on “Probitics for Human and Animal health has been crafted to provide elite knowledge on probiotics and their application in human and animal health to young research scholars (PG and Ph. D students) power to do highly competitive and productive research in the area of probiotics.

Workshop contents

- » Origin, history and probiotics applications in human and animals health
- » Isolation and Identification of probiotics strains of human and animal origin
- » Characterization of probiotics for health benefits
- » Probiotic and Gut Homeostasis
- » Immunomodulatory activities of probiotic bacteria
- » Bioproduction of Conjugated Linoleic Acid by Probiotic Bacteria
- » Dairy Foods as carriers of probiotic bacteria
- » Designing and conducting animal studies for evaluation of efficacy of probiotics
- » Legal status of probiotics, safety and regulatory aspects and future prospects
- » Next generation probiotics: A patho-biotechnology approach to probiotic research and applications, “Bioengineered Bugs’
- » Exploiting the power of OMICS approaches and bioinformatic tools to assess probiotic functionality
- » Rumen microbial diversity and implication in animal productivity
- » Molecular bioinformatics tools to explore rumen metagenome data
- » Preparation of fermented probiotic product
- » Lyophilization and encapsulation of probiotics
- » Microbes and silage preparation for animals

Eligibility

Students currently pursuing Masters or Ph.D. in Microbiology / Animal Nutrition / Biochemistry / life Science or any other related disciplines at Government Universities, Colleges or private academic institutions are eligible to apply. The number of participants for the programme will be limited to 25. The selection of the candidates will be made by screening committee as per SERB guidelines.

How to Apply?

Nomination for participation in the workshop may be made as per the attached format. The scanned copy of the duly filled application signed by the Head of the Department / Principal or the competent authority may be sent to rashmi.ndri@gmail.com, arensachin@gmail.com. Along with filled application, students must also send scan copy of the University ID card and Aadhar card. Selected students should register themselves through ‘Register as Student’ option provided on login page of AV portal (**acceleratvigyan.gov.in/login**), to facilitate their participation in “VigyanVarta” section of the Accelerate Vigyan Portal. Selected candidates should bring “ NO Objection Certificate (NOC)” from their Supervisor/ Head of the department/Head of the institute while joining the workshop.

Mode of Selection

The candidates will be selected based on the evaluation criteria set by the evaluation committee. The number of candidates is restricted to 25.

Travel, Boarding and Lodging

Selected participants are eligible for TA (max. AC-III Train fare or state transport buses by shortest route as per Gol norms). Food and accommodation will be provided by the organizers. Participants should produce Covid vaccination certificate on arrival at NDRI, Karnal and must follow Institute’s Covid guidelines.

Venue, Date and Duration

The SERB sponsored High-end workshop (Karyashala) will be conducted from September 29 to October 12, 2022 at ICAR-National Dairy Research Institute, Karnal, Haryana.



APPLICATION FORM FOR PARTICIPATION

in a SERB sponsored High-End Workshop (Karyashala)

on

Probiotics for Human and Animal Health

Organised at

ICAR-National Dairy Research Institute

Karnal-132001 (Haryana) INDIA

September 29 to October 12, 2022

1. Full Name (in block letters) :
2. Enrolment/Registration No. :
3. Course (PG/Ph.D.) :
4. Year of Study (1st/ 2nd/ Final) :
5. Department :
6. Institute/University :
7. Correspondence Address :
8. Mobile No. :
10. E-mail ID :
11. Academic record

Sr. No.	Examination passed	Subject main/ subsidiary	Year of passing	Class ranks distinctions etc.	University or Institution	Other Information
1.	Bachelor degree					
2.	Master degree					
3.	Doctoral degree					
4.	Other certificates, Diploma, Degree, if any					

The above information provided is true to the best of my knowledge. If selected, I agree to abide by the rules and regulations of the programme and ICAR-NDRI, Karnal.



Signature of the applicant

Date

Place

12. Recommendation by forwarding authority (Head of the Department / Head of the Institute) :

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Signature

Designation

Date

Address