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रा.पो.सं. मासिक सूचना-पत्र

NIN Monthly Newsletter

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NIN ALUMNUS EMBARKS ON GROUND-BREAKING SPACE MISSION: SIRIUS-23

In a pioneering endeavour, **Mr. RAHUL SAINI**, a researcher and alumnus of the M.Sc. Sports Nutrition 2020-2022 batch at ICMR-National Institute of Nutrition, has joined forces with Russian space scientists on the ambitious Scientific International Research In Unique terrestrial Station (SIRIUS)-23 project. This innovative initiative involves a one-year isolation experiment, meticulously simulating Mars and Moon missions to investigate the effects of prolonged spaceflight on the human body.

Under the expert guidance of Dr. Galina Vasilyeva, Head of the Laboratory of Bone and Metabolism in Microgravity, Institute for Bio-Medical Problems (IBMP) under the Russian Academy of Sciences (RAS), Russia. Rahul is contributing to this landmark study. The SIRIUS-23 project aims to replicate the conditions of long-duration space travel, enabling scientists to gain invaluable insights into the physiological and psychological impacts on astronauts.

As a Research Assistant, he is actively involved in collecting, analyzing, and interpreting critical data related to the health and nutritional aspects of the crew members. Their work is crucial in identifying potential risks and developing strategies to ensure the well-being of astronauts during extended space missions.

This cutting-edge research has far-reaching implications for future space exploration, particularly as humans prepare to embark on extended missions to the Moon and Mars. His involvement in this project underscores India's growing presence in the global space research community.



Mr. Rahul Saini (second from the left) with crew of the SIRIUS-23 project at IBMP, RAS, Russia



A Foundation for Excellence: NIN Fosters Innovation

His journey to this prestigious position is a testament to the strong foundation laid during their time at NIN. The institute's rigorous academic programs, state of the art research facilities, and experienced faculty provided them with the necessary knowledge and skills to excel in their field.

NIN takes immense pride in the achievements of its alumni. His success reflects the institute's commitment to nurturing talent and fostering innovation. Their contributions to the field of space exploration are inspiring and will undoubtedly have a lasting impact on future missions.

As he continues to push the boundaries of scientific knowledge, ICMR-NIN remains committed to supporting its alumni and fostering a culture of excellence. The institute wishes him continued success in their future endeavours and looks forward to witnessing their contributions to the global scientific community.

VIGILANCE AWARENESS WEEK-2024 WALKATHON



Mr. KOYYADI SUNDER, Project associate -1, Division of Lipid Chemistry secured **FIRST** prize and **Ms. SANA SHEREEN**, student of M.Sc. Applied Nutrition, Sem III, secured **SECOND** prize & **Mr. NIMCHAL KUMAR**, student of M.Sc. Applied Nutrition, Sem III and **Ms. KIRANMAI**, Division of Lipid Chemistry shared **THIRD** Prize in the essay writing competition conducted as a part of the Vigilance Awareness Week on the theme “Culture of Integrity for Nation's Prosperity” (4th Nov).



TRAINING PROGRAMME

NIN Animal Facility conducted the 41st Laboratory Animal Supervisors Training Course-2024 (LASTC) from 3rd Oct to 29th Nov and 3 days Ad-hoc training programme from 26th to 28th Nov.



Congratulations

Dr. G. BHANUPRAKASH REDDY, Scientist G & Head, Biochemistry Division on receiving the 13th Dr. S. G. Srikantia Oration Award at the 56th Annual Conference of Nutrition Society of India held in Symbiosis International Deemed University, Pune (15th Nov).



RECOGNITIONS/PARTICIPATION IN MEETINGS/PROGRAMMES

Dr. SUBBARAO M GAVARAVARAPU

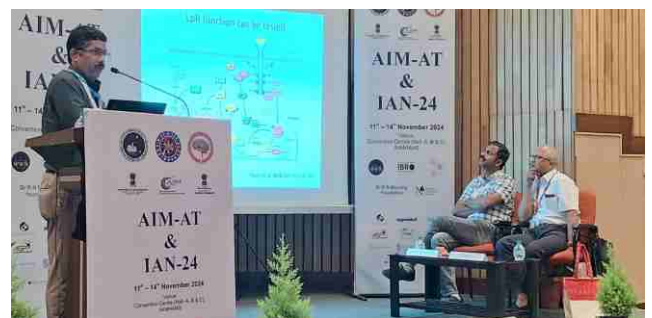
- Invited to deliver a talk on “Promoting Fortified Foods In Diverse Communities - Examining the crucial intersection of nutrition communication & health promotion” at the National Conclave on Food Fortification organised by ICAR and Bill and Melinda Gates Foundation at Assam Agriculture University, Jorhat (6th Nov).
- Attended virtual meeting with the team of Resolve to Save Lives on “Communication and Strategies for reduction of salt consumption” (7th Nov).
- Attended virtual meeting with National Institute of Health and Family Welfare on organising a South Zone Consultation on implementation of Dietary Guidelines for Indians (7th Nov).
- Attended the 49th meeting of the Scientific Committee of the Food Safety and Standards Authority of India (FSSAI) in virtual mode (12th Nov).
- Attended 56th Annual Conference of the Nutrition Society of India (NSI) as the Secretary and Organizing Committee member at Symbiosis Deemed University, Pune (13th-15th Nov).
- Participated virtually as a member in the hybrid meeting of the Let's Fix Our Food Consortium partners with Novo Nordisk Foundation (NNF), held at IIT Delhi (27th Nov).
- Invited by NITI Aayog as the Working Group member for the Meeting of the Advisory Group on the development of the 'Strategy for Improving Nutrition in India' at NITI Aayog, New Delhi (28th Nov).

Dr. K. RAJENDER RAO

- Delivered an invited talk “Nutri-Genomics: An Interference of Gene-Diet Interaction” on the occasion of World diabetes day-2024, organized by the Department of Food and Nutrition, Veeranari Chakali Ilamma Women's University (VCIWU), Hyderabad (14th Nov).

Dr. SHOBI VELERI

- Presented an invited lecture on “Insights into the molecular signature of WNIN/Ob rat,” in the symposium XVI: 'Advances in molecular medicine- Seizures, schizophrenia and more' in the International Conference on “Advances In Mechanisms and Approaches to Neuro-Therapeutics (AIM-AT) & XLII Annual Meeting of Indian Academy of Neurosciences-2024 (IAN-24) held at NIMHANS, Bengaluru (12th - 14th Nov).



Dr. DEVRAJ PARASANNANVAR

- Received the Ramanathan Prize for the Best Oral Presentation in the Community Nutrition category for the paper entitled “Effect of cooked millet diet supplementation on Micronutrients (Vitamin-B12, Folate, Zinc, Calcium, Vitamin-D) status among anaemic women of reproductive age (17-22 years)” at the 56th NSI Pre-conference workshop-I and main conference at Symbiosis International University, Pune (14th - 15th Nov).



Dr. SANTOSH KUMAR B

- Undergone a three days training programme on “Drug Discovery”, conducted by 6DVarsity.com in collaboration with Tiny Earth, University of Wisconsin –Madison, United States at Bio Nest, University of Hyderabad.



Dr. AJANTHA RUDHRA

- Attended the Young Scientist Induction training programme under the aegis of ICMR conducted from 21st to 25th Oct (Online) and from 5th to 24th Nov (off line) at IIM, Visakhapatnam.



Mr. BHASKER REDDY P

- Received the Best Poster Presentation Award for the presentation titled, “Impact of the millet year-2023 campaign on knowledge, attitude, and practices of millet consumption among college-going adult women in urban areas of Telangana”, at the 56th Annual Conference of the Nutrition Society of India (NSI), held at Symbiosis International (Deemed University) [SIU], Pune, Maharashtra, India, from 14th-15th Nov.



Dr. SHABNA A

- Completed the Young Scientist Induction Programme, conducted under the aegis of the Indian Council of Medical Research (ICMR) at the Indian Institute of Management (IIM), Vishakhapatnam and participated in a four-week training that included one week of online sessions followed by three weeks of offline training from 4th-25th, Nov at IIM Vishakhapatnam.



Mr. PARTH SARIN (DST-JRF)

- Received NSI Prize for Best Oral Presentation in the Community Nutrition category for his work on “Gut microbiota alterations in iron deficiency anemia: Insights from a cross-sectional study on women of reproductive age” at the 56th NSI Conference at Symbiosis International University, Pune (14th-15th Nov).

Ms. NIKHITA B. R (UGC-JRF)

- Attended the 56th NSI Pre-Conference workshop-III (Savouring Health: Exploring the link between culinary nutrition and culinary medicine) and Main Conference session at Symbiosis International University, Pune and presented paper entitled, “Effect of finger millet-based diet supplementation on anthropometry, body composition and biochemical profile among pre-schoolers aged 2-5 with moderate acute malnutrition (MAM)” (13th-15th Nov).

PAPERS PUBLISHED/ACCEPTED FOR PUBLICATION

- Ajmal Aseem, Prarthi Sagar, Nerellapally Samyukthakumar Reddy, Shobi Veleri. The antimicrobial resistance profile in poultry of Central and Southern India is evolving with distinct features Comp Immunol Microbiol Infect Dis. 2024 Oct 16;114:102255. doi:10.1016/j.cimid.2024.102255.PMID: 39432940
- Alekhya Sabbhithi, Naveen Kumar R, SubbaRao M gavaravarapu, Balakrishna N, and V.Sudershan Rao. Prevalence and characterization of selected foodborne pathogens in frequently consumed street foods of Hyderabad, India: An exploratory study. Indian Journal of Microbiology Research. 2024; 11(4):1-8.
- R. Naveen Kumar, M.V. Surekha, S.D.G. Gowthami, A.K. Aditi, M. Satyavani, K. Satyanarayana, R. Hemalatha, P. Uday Kumar. Toxicological Evaluation of Salmonella Phage NINP13076 in BALB/c Mice: Histopathological Studies. Microbial Pathogenesis. 198. 2025. 107146.
- Singhvi B, Singh V, Gavaravarapu SM, Konapur A. "All You Need to Manage Blood Pressure": A Comprehensive e-Education Program for Hypertension. Journal of Nutrition Education and Behavior. 2024 (online first) (Doi: 10.1016/j.jneb.2024.09.010)

JOURNAL CLUB

Ms. T. SANGITA

UGC-SRF, delivered her plan cum progress of PhD work on "Optimization and testing of nutrient dense complementary food mixes for infants and young children- A comprehensive study" (1st Nov).

Guide: Dr. M. S. Radhika, Scientist F & Head, Dietetics Division.



Ms. PRIYANKA CHOUGULE

DST-Inspire SRF, delivered her plan cum progress of PhD work on "Effects of ethyl gallate and propyl gallate on dextran sulfate sodium (DSS)-induced ulcerative colitis in C57BL/6J mice" (1st Nov).

Guide: Dr. SN Sinha, Scientist G & Head, Food Safety Division.



Mr. SAIKANTH VARMA

ICMR-SRF, delivered his PhD final presentation on "Maternal exposure of endocrine disrupting chemicals during development: Impact on reproductive and metabolic homeostasis in the offspring" (8th Nov).

Guide: Dr. Sanjay Basak, Scientist-F, Molecular Biology Division.



STAFF NEWS

RETIREMENT

We bid farewell to **Dr. M. SATYAVANI**, Principal Technical Officer on the eve of her retirement on attaining superannuation.



OBITUARY



ICMR-NIN was shocked and mourned on the sudden demise of **Dr. S. DEVENDRA**, Scientist-E, Dietetics Division. He passed away on 6th November, 2024. He joined the institute as Research Officer subsequently he was promoted as Scientist-C, Scientist-D and Scientist-E and he served the institute for more than 19 years. May his soul rest in peace.