



# MUGBERIA GANGADHAR MAHAVIDYALAYA

P.O.—BHUPATINAGAR, Dist.—PURBA MEDINIPUR, PIN.—721425, WEST BENGAL, INDIA

NAAC Re-Accredited B+Level Govt. aided College

CPE (Under UGC XII Plan) & NCTE Approved Institutions

DBT Star College Scheme Award Recipient

E-mail : mugberia\_college@rediffmail.com // www.mugberiangadharmahavidyalaya.ac.in

## REPORT OF

UGC Sponsored National Seminar  
on

# "Recent Innovations in Food and Nutritional Sciences"

**Date: 31st August, 2018**



*Organized by -*

Department of Nutrition

Mugberia Gangadhar Mahavidyalaya

Bhupatinagar, Purba Medinipur

*In Collaboration with -*

Internal Quality Assurance Cell (IQAC)

Mugberia Gangadhar Mahavidyalaya



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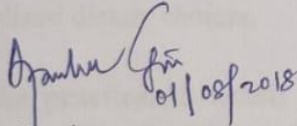
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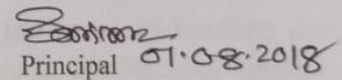
Date: 01/08/2018

## NOTICE

It is hereby notified that Dept. of Nutrition, Mugberia Gangadhar Mahavidyalaya is going to organize a **National Level Seminar on “Recent Innovations in Food and Nutritional Sciences” on 31<sup>st</sup> Aug. 2018**. So all the students of B.Sc. (Honours), B.Voc. (Food Processing), students and faculties of the Dept. of Nutrition, are informed to present and participate positively at 10:00 a.m. to make it a successful one. Looking forward for your gracious presence and participation.

  
01/08/2018

Head  
Dept. of Nutrition  
Mugberia Gangadhar Mahavidyalaya

  
01-08-2018

Principal  
Mugberia Gangadhar Mahavidyalaya

Head  
Dept. of Nutrition  
Mugberia Gangadhar Mahavidyalaya

Principal  
Mugberia Gangadhar Mahavidyalaya



## **Objectives:**

The objective of recent innovations in food and nutritional science is to address key challenges such as sustainability, health, and customization. These innovations aim to:

- **Sustainability:** Develop eco-friendly alternatives like plant-based proteins and cultured meats to reduce the environmental impact of traditional animal agriculture.
- **Health Improvement:** Advance personalized nutrition approaches using genetic and lifestyle data to tailor dietary recommendations, promoting individual well-being and preventing nutrition-related health issues.
- **Technological Advancements:** Utilize cutting-edge food processing technologies to enhance nutritional content, preserve freshness, and extend shelf life, contributing to food safety and reduced food waste.
- **Diverse Food Sources:** Explore novel sources of nutrition, such as insect-based foods, to diversify diets and address global food security challenges.
- **Innovation in Functional Foods:** Create functional foods enriched with specific nutrients or bioactive compounds to offer health benefits beyond basic nutrition.

Overall, the objective is to revolutionize the food and nutrition landscape, making it more sustainable, personalized, and technologically advanced to meet the evolving needs of a growing global population.

**The context:**Recent innovations in food and nutritional science have focused on sustainable alternatives, personalized nutrition, and advanced food processing technologies. Plant-based proteins, cultured meats, and alternative protein sources are gaining traction for their environmental benefits. Additionally, personalized nutrition, utilizing data such as genetics and lifestyle, is enhancing dietary recommendations. Advanced food processing techniques, like high-pressure processing and cold plasma treatment, aim to preserve nutritional quality while extending shelf life. These innovations signify a shift towards healthier, more sustainable food options with a greater emphasis on individualized dietary choices.

**The practice:**All faculty member and students from different institutes, all teaching and nonteaching staff and students of this college, are present and participate in this National Seminar organized by Dept of Nutrition in collaboration with Internal Quality Assurance Cell (IQAC) Mugberia Gangadhar Mahavidyalaya. Dr. Swapan Kumar Misra, Principal, Mugberia G. Mahavidyalaya & President of the Organizing committee of the seminar, deliver his speech. Honourable Chief Guest Dr. D.C. Sen (Former Professor of Dairy Technology, Department of Dairy Technology, West Bengal University of Animal and Fishery Sciences, Mohanpur campus, Nadia), and Guest of Honour, Dr. Krishna Das Saha, (Principal Technical Officer, Cancer Biology and Inflammatory Disorder Division, CSIR-Indian Institute of Chemical Biology, Jadavpur) was present among us. The programme successfully ended with the Vote of thanks by the Departmental Head Dr. Apurba Giri.

## TENTATIVE PROGRAMME SCHEDULE

Registration & Breakfast	9:00 am -10:00 am
Inaugural Session	10:00 am – 11:00 am
10:00 am	Inauguration (Lighting the lamp) by Chief Guest, <b>Dr. D.C.Sen</b> Former Professor of Dairy Technology, Department of Dairy Technology, West Bengal University of Animal and Fishery Sciences, Mohanpur campus, Nadia
10:05 am	Reception of the Guests
10:15 am	Welcome address by <b>Dr. Swapan Kumar Misra</b> , Principal, Mugberia G. Mahavidyalaya& President of the seminar
10:25am	Address by <b>Dr. KalipadaMaity</b> , Assistant Professor.& Head, Dept. of Mathematics, Mugberia G. Mahavidyalaya& Coordinator of IQAC
10:35am	“About the seminar” by <b>Dr. ApurbaGiri</b> , Assist. Prof.& Head, Dept. of Nutrition, Mugberia G. Mahavidyalaya& Organizing Secretary of the seminar
10:45am	Address by Chief Guest <b>Dr. D.C.Sen</b>
10:50 am	Address by Guest of Honour, <b>Dr. Krishna Das Saha</b> , Principal Technical Officer, Cancer Biology and Inflammatory Disorder Division, CSIR-Indian Institute of Chemical Biology, Jadavpur
10:55 am	Publication of the Seminar Abstract
<b>Technical Session</b>	
11:00 -11:30 am	Speaker: <b>Dr. D.C.Sen</b> , <i>Topic: Striking features of milk fat</i>
11:30 am -12:00 noon	Speaker: <b>Dr. Krishna Das Saha</b> , <i>Topic: Bioactive food components in management of cancer</i>
12:00 noon-1:30 pm	Poster Presentation Chair Person: <b>Dr. D.C.Sen</b>
12:00 noon-1:30 pm	Oral presentation-1 <sup>st</sup> session Chair Person: <b>Dr. Krishna Das Saha</b>
1:30-2:30 pm	Lunch
2:30-3:45	Oral presentation-2nd session Chair Person: <b>Dr. ApurbaGiri</b>
3:45-4:00	Award ceremony of Poster Presentation
Valedictory Session	
4:00-4:15	Vote of Thanks by Dr. ApurbaGiri
4:15-4:30	Taking Group Photo

### Oral presentation-1<sup>st</sup> session

1. **Niladri Mukherjee**, Post Doctoral Fellow, Cancer Biology and Inflammatory Disorder Division, CSIR-Indian Institute of Chemical Biology, 4, Raja S.C. Mullick Road, Kolkata-700032, West Bengal, **Topic: *Spergulin a, a triterpenoidsaponin isolated from methanolic extract of glinusoppositifolius aerial part with immunomodulatory and anti-leishmanial property***
2. **Snehasis Mishra**, Research Fellow, Cancer Biology and Inflammatory Disorder Division, CSIR-Indian Institute of Chemical Biology, 4, Raja S.C. Mullick Road,

Kolkata-700032, West Bengal, **Topic: *Quercetin encapsulated folate conjugated magnetite sbal5 composite for theranostics in colon cancer***

3. **Sujata Das**, Research Fellow, Cancer Biology and Inflammatory Disorder Division, CSIR-Indian Institute of Chemical Biology, 4, Raja S.C. Mullick Road, Kolkata-700032, West Bengal; **Topic: *Protective role of andrographolide and nanoandrographolide against arsenic induced liver damage***
4. **Soumi Pal Choudhury**, Assistant Professor, Department of Nutrition, Mahishadal Girls' College, Rangibasan, PO- Mahishadal, Purba Medinipur, West Bengal, Pin-721628, **Topic: *Antioxidants and osteoarthritis – a review***
5. **PratyashaAgrawal**, Lecturer (HOD), Department of Clinical Nutrition and Dietetics, Gokhale Memorial Girls' College. **Topic: *Cooking oil awareness among doctors in kolkata***

#### Oral presentation-2nd session

1. **NiladriChakraborty**, Assistant Professor, Department of Food Technology, Haldia Institute of Technology, Haldia, **Topic: *Preservation of foods by drying and freezing individually and / or combinedly***
2. **MadhuchandaMaity**, Govt. Approved Part Time Teacher, Department of Nutrition, Ramnagar Collage, Depal, Purba Medinipur, West Bengal, **Topic: *Effect on common pond snail (Lymnacidaestagnalis) for bone and teeth formation***
3. **Sk. Khabiruddin**, Assistant Professor, Department of Physical Education, MugberiaGangadharMahavidyalaya, West Bengal **Topic: *Sports nutritionist as career option in physical education***

## Photos:

### About the organizing college and department

Mugberia Gangadhar Mahavidyalaya was established on 2nd July, 1964 at Bhupatinagar, Purba Medinipur as a co-education college. The college with area of 5.84 acre is situated in a culturally rich locale. The college is affiliated to Vidyasagar University and included in the list of colleges maintained under Section 2(f) and 12(B) of the UGC Act, 1956. The college has been re-accredited by NAAC with "B" Grade. This institution is NCTE approved and under UGC XII Plan is identified with "College with Potential for Excellence". At present the college runs with 14 UG Honours subjects, 19 UG General subjects, in Science, Arts and Commerce stream, M.Sc. in Mathematics, M.A in Bengali, along with professional courses like B.P.Ed. and M.P.Ed, diploma course in Tourism and Hotel Management under Community College. This year the college is going to start UGC sponsored three years B.Voc. courses on "Food Processing" and "Tourism & Hotel Management"

At Dept. of Nutrition, the General course in Nutrition commenced on 01.06.2006 and the Honours course in Nutrition saw the light of day on 29.07.2013. At present the department is running by one Assistant Professor, five Guest Lecturers and one Lab Assistant. The department consists of separate departmental staff room, 2 normal theory class rooms, 1 smart class room, 2 laboratory rooms. The laboratory is with sufficient glassware and chemicals, and sophisticated laboratory instruments. The computers are connected with high speed internet. Beside normal theory and practical classes, assignment, presentation, project work, internship, academic excursion are also included in the course curriculum.

### How to reach

The college is situated in between Heria - Itaberia Road, about 10 km from Heria bus stand of Mecheda - Digha Road/Heria Station of Tamluk - Digha Rail link of South Eastern Railway.

Bus/Toto/Auto                      Toto/Auto/Tracker  
Heria → Madhakhali bus stop → Mugberia College  
8km/ 15-20min                      2km/ 5-10min

Train time (Panskura-Digha local): From Panskura (8 am), reaches Heria station at 9:30 am

### For communication (Mobile No.)

Dr. Apurba Giri : 9564289290; Prof. Chandan Khanra : 7001491429/9635273395; Prof. Moumita Samanta : 9564985540; Prof. Pranati Bera: 7384371778; Prof. Keya Dash : 9563987164, Mr. Prabal Das : 9733910825

## REGISTRATION FORM

UGC Sponsored National Seminar on  
"Recent Innovations in Food and Nutritional Sciences"  
At Mugberia Gangadhar Mahavidyalaya  
Date: 31st August, 2018

Name : .....

Designation : .....

Dept. & Organization : .....

Address : .....

Mobile No. : .....

E-mail : .....

Details of registration category (Students (UG/PG) / Research Scholar / Faculty Members (Guest/Part Time/Contractual/ Full Time) / Scientists / Other Delegates):.....

Registration Fees:..... In word.....

Whether presenting paper / poster.....

Title of the paper / poster.....

Whether accommodation required (Yes/No).....

Date:                      Signature



Applicant's Name:.....

Details of registration category (Students (UG/PG) / Research Scholar / Faculty Members (Guest/Part time/Contractual/ Full time) / Scientists / Other Delegates):.....

Registration Fees:.....

In word.....

Collector's full signature

UGC Sponsored National Seminar  
on

"Recent Innovations in  
Food and Nutritional Sciences"

Date: 31st August, 2018



Organized by -

Department of Nutrition  
Mugberia Gangadhar Mahavidyalaya  
Bhupatinagar, Purba Medinipur

In Collaboration with -

Internal Quality Assurance Cell (IQAC)  
Mugberia Gangadhar Mahavidyalaya



Venue :

"Shatabdi Sadan Auditorium"  
Mugberia Gangadhar Mahavidyalaya

## Invitation

We have the honour and great privilege to inform all concern of people including scientists, academicians, industrialists, technologists, doctors, health professionals, researchers, nutritionists, students, NGO representatives from all part of our country to attend the national seminar entitled "Recent Innovations in Food and Nutritional Sciences" on 31st August, 2018 at "Shatabdi Sadan Auditorium", Mugberia Gangadhar Mahavidyalaya.

You are cordially invited to participate in this seminar to share knowledge and inspire us to make the event grand success. With regards,

### Organizing committee

- **Patron:** Sri Sisir K. Adhikari, M.P. & President of the College
- **President:** Dr. Swapan Kr. Misra, Principal, Mugberia G. Mahavidyalaya
- **IQAC Co-ordinator:** Dr. Kalipada Maity, Asst. Prof. & Head, Dept. of Mathematics., Mugberia G. Mahavidyalaya
- **Organizing Secretary:** Dr. Apurba Giri, Assist. Prof. & Head, Dept. of Nutrition, Mugberia G. Mahavidyalaya

### National advisory committee

- Dr. S.K. Kanawjia, Emeritus Scientist, NDRI, Karnal
- Dr. H.G. Ramachandra Rao, Ex-Dean, Dairy Science College, Bangalore
- Dr. B.V. Venkatasia, Ex-Dean, Dairy Science College, Bangalore
- Dr. A.K. Chauhan, Prof., Centre of Food Sci. & Tech., BHU
- Dr. Krishna Das Saha, CSIR-Indian Institute of Chemical Biology, Kolkata
- Dr. Runu Chakraborty, Prof., Food Tech. & Biochem. Eng., JU
- Dr. Minakshi Ghosh, Asst. Prof., Com. Sci. & Tech., IEST, Howrah
- Dr. Rama Ranjan Pati, Head, Biochem. & Nutrition, AIIPH, Kolkata
- Dr. Asitava Sur, General Manager, Metro Dairy Ltd., Barasat, WB
- Dr. S. Chakraborty, Asst. Prof., Food Eng. & Tech., ICT, Mumbai
- Dr. Anupam Roy, Asst. Prof., Chemical Eng. & Tech., BIT, Mesra
- Dr. Subrota Hati, Asst. Prof., Dairy Microbiology, SMCCDS, Gujarat
- Dr. Anamika Das, Asst. Prof., Food Sci. & Tech, SHUATS, Allahabad
- Dr. Rakesh Kr. Raigar, Assist. Prof., CAEPHT, Gangtok
- Dr. D.K. Nandi, Assoc. Prof. & Head, Physiology, R.N.L.K. W. College
- Dr. S. Agrawal, Asst. Prof., Food & Nut., Budge Budge College, Kol.
- Dr. A. Mazumder, Res. Cons., Rejuvenation Therapeutics, Bangalore

### Local advisory committee

- Dr. Kalipada Maity, Asst. Prof. & HOD, Dept. of Math., MGM
- Dr. Nabakumar Ghosh, Asst. Prof., Dept. of Mathematics, MGM
- Dr. Bidhan C. Samanta, Asst. Prof. & HOD, Dept. of Chem., MGM
- Dr. Narottam Sutradhar, Asst. Prof., Dept. of Chemistry, MGM
- Dr. Sourav Sikdar, Asst. Prof. & HOD, Dept. of Zoology, MGM
- Prof. Manas Khalua, Asst. Prof. & HOD, Dept. of Botany, MGM

### Committee members

- Prof. Chandan Khanra, Guest Lecturer, Dept. of Nutrition, MGM
- Prof. Moumita Samanta, Guest Lecturer, Dept. of Nutrition, MGM
- Prof. Pranati Bera, Guest Lecturer, Dept. of Nutrition, MGM
- Prof. Keya Dash, Guest Lecturer, Dept. of Nutrition, MGM
- Mr. Prabal Das, Lab Assistant, Dept. of Nutrition, MGM

## About the seminar

### Main theme

### "Recent Innovations in Food and Nutritional Sciences"

#### Sub-themes / Areas covered by the seminar

- Functional Foods, Nutrition, Nutraceuticals & Bioactives
- Bio-chemistry of Foods
- Food Safety and Hygiene
- Food Borne Microorganisms and Microbial Toxins
- Food and Chemical Toxicology
- Risk Assessment of Biological and Non-Biological Hazards in Food
- Food Production and Storage and Quality Assurance
- Novel Processing and Packaging Technologies
- Green, Clean, and Sustainable Food Process Technology
- Application of Nanotechnology in Food Research
- Human Nutrition and Metabolism
- Nutrition and Health
- Diet and Diseases
- Clinical Nutrition and Therapeutic Dietetics
- Nutritional Biochemistry, Nutrigenomics and Metabolomics
- Other relevant topics

#### Eminent speakers:

- Dr. H.N. Mishra, Professor of Food Tech., Agricultural & Food Engineering Department, IIT Kharagpur
- Dr. Debidas Ghosh, Professor & Head, Dept. of Bio-Medical Lab. Sci. & Management, VU, Medinipur
- Dr. Preetam Sarkar, Asst. Prof., Dept. of Food Process Eng, NIT, Rourkela, Odisha

## Guidelines of abstracts/full paper submission

Abstract: Within 250 words, text in MS word with Times New Roman font and 1.5 spacing; Title : in title case, bold, 14pt; Author(s): bold, 12pt; Address: 11pt, e-mail and mobile No., corresponding author should be marked as \* in super-script; Abstract body: 12pt, Key words: 6 (12pt).

Full Paper: Unpublished, research, review or popular article in the areas of the theme, 1500-3000 words. Format of full paper (research) preparation: Title of the paper, Author(s)-Name, Designation, Affiliation, e-mail id, Mobile No., Abstract, Keywords (6 words), Introduction, Materials and Methods, Results and Discussion, Conclusion and References.

Abstract or full papers have to be sent by email to: [apurbandri@gmail.com](mailto:apurbandri@gmail.com) within 10th August, 2018



## Guidelines of poster presentation

Only UG and PG students can present poster presentation. Poster size should be strictly 24cm X 30cm (width x height), in a single sheet, letter size should be visible from 4ft distance.

## Guidelines oral presentation

Ten min (Presentation 8 min and interaction 2 min) time will be given to each speaker. Presentation is to be made in MS PowerPoint and to be brought with pendrive.

## Awards

Best three posters will be selected for award separately in UG and PG students.

## Registration fee

	Within 10.08.18	After 10.08.18 / Spot registration
Students (UG/PG) Research Scholar	Rs. 200	300
Faculty Members/Delegates	Rs. 300	500

## Important date

Last date for submission of full paper and / or abstract - 10.08.2018

## Tentative programme schedule

Programme	Time
Spot registration and breakfast	9 am -10 am
Inauguration ceremony	10 am -10:30 am
Technical Session -1	10:30 am – 1:00 pm
Lunch	1 pm-1:30 pm
Poster Presentation	1:30 pm- 2:30 pm
Technical Session -2	1:45 pm -4:15 pm
Validictory Session	4:15 pm-4:30 pm









## Students attendance :

National Seminar on "Recent Innovations in Food & Nutritional Sciences"  
Date: 31<sup>st</sup> Aug 2018

Teachers Attendance:

1. Srispan Kumar Mishra
2. Anshu Jini
3. Pooja Das
4. Manisha Samanta
5. Koya Das
6. Chanda Karca
7. Prabal Kanti Das

Students Attendance:

1. Banasri Parua (3rd year)	27. Gritu Santra (2nd sem)
2. Saptami shil (3rd year)	28. Sanjib Das (3rd year)
3. Sathi Pradhan (3rd year)	29. Ankita Kamila (" ")
4. Supriya Majhi (2nd sem)	30. Kedannath Maity (" ")
5. Pratima Das (2nd sem)	31. Susmita Kamila (" ")
6. Prabir Janya (ex student)	32. Abhila Maity (2nd sem)
7. Khokon Chandra Ray (ex stu)	33. Shreyasni Roy Chowdhury
8. Barashree Maity (2nd sem)	34. Sathya Gini (3rd year)
9. Sathya Gini (2nd sem)	35. Anushree Barik (2nd sem)
10. Sayani Das (2nd sem)	36. Aditi Jana (" ")
11. Snigdha De (2nd sem)	37. Sneha Hattua (" ")
12. Sayani Jana (3rd year)	38. Nirupama Barman (3rd year)
13. Krishna Pradhan (3rd " )	39. Rumpa Sheet (" ")
14. Anpita Kamila (2nd sem)	40. Bannali Barik (2nd sem)
15. Priyanka Sahoo (" ")	41. Ananya Manna (" ")
16. Sucheta Sampa (3rd year)	42. Amantya Dey (3rd year)
17. Ankita Maity (" ")	43. Madhusree Maity (" ")
18. Sumitra Das (" ")	44. Puja Maity (" ")
19. Ishita Pradhan (" ")	45. Snigdha Das (2nd sem)
20. Rituparna Kula (" ")	46. Jayshree Sahoo (" ")
21. Atasi Mal (2nd sem)	47. Siuli Kan (" ")
22. Subinita Jana (3rd year)	48. Sampa Das (3rd year)
23. Runa Das (" ")	49. Souparv Mondal (" ")
24. Kakali Jana (2nd sem)	50. Susmita Mondal (" ")
25. Aparna Adak (" ")	51. Sunadip Ojha (" ")
26. Ritika Gayen (" ")	52. Banjana Routh (2nd sem)

### Students Attendance:

53. Namita Mandal (2nd sem)
54. Sibani Jana (" ")
55. Shreya Khanda (3rd year)
56. Punabi Jana (2nd sem)
57. Selina Begam (3rd year)
58. Sudeshna Maity (2nd sem)
59. Poulami Pramanik (" ")
60. Tapati Sahoo (" ")
61. Rakhi Maity (" ")
62. Pampa Panda (3rd year)
63. Puja Rani Mandal (" ")
64. Bithika Jana (" ")
65. Sanchita Gini (" ")
66. Monalisa Roy (PG)

Principal  
Mugheria Gangadhar Mahavidyalaya  
31. 8. 2018

