

NATIONAL E-WORKSHOP ON
**“FUNCTIONAL FOODS, BIOACTIVE COMPOUNDS
AND PHYTOCHEMICALS FOR BETTER NUTRITION”**

9th - 11th December, 2020

Organised by

*Society for Plant Biochemistry and Biotechnology
IARI, Pusa Campus, New Delhi*

*& Department of Biochemistry
Uttar Banga Krishi Vishwavidyalaya*

PROGRAMME

INAUGURAL SESSION 9th December 2020, Wednesday		
10.15AM-10.30 AM	Joining for the workshop (through virtual platform)	
10.30 AM -10.40 AM	Welcome address	Prof. Ashok Choudhury, Director of Research, UBKV
10.40 AM -10.55 AM	Opening remarks	Dr. Shelly Praveen, Secretary, SPBB
10.55 AM -11.10 AM	Introductory remarks	Dr. Chirantan Chattopadhyay, Vice Chancellor, UBKV
11.10 AM -11.30 AM	Presidential address	Dr. S.L. Mehta, President, SPBB
11.30 AM -12.30 PM	<i>Plenary Session:</i> Chairperson: Dr. S. L. Mehta, Former Deputy Director General-ICAR Convener: Dr. Pranab Kr. Mandal, Principal Scientist, NIPB, New Delhi <i>Topic: ‘Medicinal and aromatic plants for health and wellbeing’</i> Speaker: Prof. Anil Kr. Tripathi, Director, Institute of Science, BHU, Former Director CSIR-CIMAP	
12.30 PM-12.35 PM	Vote of Thanks	Prof. Dibyendu Mukhopadhyay, Dean Faculty of Agriculture, UBKV
BREAK		

TECHNICAL SESSION 1

Thematic area: Bioactive compounds: Characterizations and Health perspective

9th December 2020, Wednesday

Chairperson: Prof. Dibyendu Mukhopadhyay, Dean, Faculty of Agriculture, UBKV

Convener: Prof. Goutam Kr. Pandit, HOD, Department of Biochemistry, UBKV

Rapporteur: Dr. Binayak Chakraborty, Assistant Professor, Department of PPHT, UBKV

1.00 PM-1.30 PM	<i>Invited Lecture:</i> Bioactive compounds: Classification, functions and application Technique in focus: Extraction and concentration methods for bioactive compounds	Dr. Prodyut Kr. Pal, Dean Faculty Horticulture, UBKV
1.30 PM -2.00 PM	<i>Invited Lecture:</i> Immunogenetic proteins in wheat and managing them through genetic manipulation Technique in focus: High Performance Liquid Chromatography (HPLC) and Electrophoretic techniques	Dr. Pranab Kr. Mandal, Principal Scientist, NIPB, New Delhi
2.00 PM-3.30 PM	Practical session on 'Hands on training of High Performance Liquid Chromatography (HPLC)'	

TECHNICAL SESSION 2

Thematic area: Food derived phytochemicals

10th December, 2020, Thursday

Chairperson: Prof. Apurba Kr. Chowdhury, HOD, Department of Plant Pathology, UBKV

Convener: Dr. Deepak Kumar, Assistant Professor, Department of Biochemistry, UBKV

Rapporteur : Dr. Nipa Biswas, Assistant Professor , Department of SST, UBKV

10.30 AM-11.00 AM	<i>Invited Lecture:</i> <i>Astraeus hygrometricus</i> : from forest to food factory Technique in focus: Different methods of Bioactive compound purification and	Prof. Krishnendu Acharya, Department of Botany, University of Calcutta
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	characterisation	
11.00 AM -11.30 AM	<i>Invited Lecture:</i> Improving micronutrient bioavailability in biofortified wheat with application of phytases Technique in focus: Atomic Absorption Spectrophotometer (AAS)	Dr. Vinod Sangwan, Assistant Scientist, Department of Biochemistry, CCSHAU, Hisar
11.30 AM -12.00 PM	<i>Invited Lecture:</i> Future innovation in food-based industries with special reference to northern Bengal Technique in focus: Techniques of industrial importance in bioactive and nutraceuticals	Prof. Ranadhir Chakraborty, Department of Biotechnology, UNB, Siliguri
BREAK		

TECHNICAL SESSION 3

Thematic area: Nutraceuticals and its bioavailability

10th December, 2020, Thursday

Chairperson: Prof. Gautam Kr. Pandit, HOD, Department of Biochemistry, UBKV

Convener: Dr. Prithusayak Mandal, Assistant Professor, Department of Biochemistry, UBKV

Rapporteur : Dr. Kapudeep Karmakar, Assistant Professor, Department of SSAC, UBKV

1.00 PM-1.30 PM	<i>Invited Lecture:</i> Bio-availability and bio-efficacy of bio-actives/ phytonutrients- concepts, limitation and strategies for improvement Technique in focus: Isoflavone profiling by Ultra Performance Liquid Chromatography (UPLC)	Dr. Anil Dahuja, Principal Scientist and Professor, Division of Biochemistry, IARI
1.30 PM-2.00 PM	<i>Invited Lecture:</i> Nutraceuticals from fruits and vegetables Technique in focus: High Performance Liquid Chromatography (HPLC)	Dr. Supradip Saha, Principal Scientist, Agril. Chemicals, IARI
2.00 PM-3.30 PM	Practical session on 'Hands on training of Gas Chromatography-Mass Spectroscopy (GC-MS)'	

TECHNICAL SESSION 4

Thematic area: Functional Food

11th December, 2020, Friday

Chairperson: Prof. Prodyut Kumar Pal, Dean, Faculty of Horticulture, UBKV

Convener: Prof. Goutam Kr. Pandit, HOD, Department of Biochemistry, UBKV

Rapporteur : Dr. Binayak Chakraborty, Assistant Professor, Department of PPHT, UBKV

10.30 AM-11.00 AM	<i>Invited Lecture:</i> Functional food: Role of composition, matrix interaction and bioavailability Technique in focus: Techniques of starch quality characterisation	Dr. Veda Krishnan, Scientist, Division of Biochemistry, IARI
11.00 AM -11.30 AM	<i>Invited Lecture:</i> Efficient technologies to limit rancidity in nutri-rich pearl millet and methods to improve its dough quality Technique in focus: NIR and Hydrothermal techniques	Dr. Vinutha T Gowda, Scientist, Division of Biochemistry, IARI
11.30 AM -12.30PM	Practical session on ‘Hands on training of Atomic Absorption Spectrophotometer (AAS)’	
BREAK		
1.00 PM-3.00 PM	<i>Flash presentations by students</i> <i>Chairman:</i> Dr. Pranab Kr. Mandal, Principal scientist, NIPB, New Delhi <i>Convener:</i> Dr. Nandita Sahana, Assistant Professor, Department of Biochemistry	

CONCLUDING SESSION

11th December, 2020, Friday

3.00 PM-3.05 PM	Concluding remarks- Dr. Somnath Mandal, Organizing Secretary
3.05 PM-3.15 PM	Announcement of Awards and Concluding Remarks - DR. S. L. Mehta,

	President, SPBB
3.15 PM-3.25 PM	Concluding Remarks - Dr. Chirantan Chattopadhyay, Vice Chancellor UBKV
3.25 PM-3.30 PM	Formal Vote of Thanks- Prof. Goutam K. Pandit, Head, Department of Biochemistry, UBKV

END OF WORKSHOP