



**2<sup>nd</sup> INTERNATIONAL CONFERENCE ON ADVANCES IN  
BIOPOLYMERS-2021 & WORKSHOP ON FERMENTED FOODS  
AND GUT HEALTH**

08-09 November, 2021

Organized by

Department of Food Science and Technology, University of Kashmir  
Hazratbal, Srinagar, Jammu and Kashmir, India 190006

*In Collaboration with*

*Association of Food Scientists and Technologists of India  
(Srinagar Chapter)*

**Programme**

**Day 1: 8<sup>th</sup> November, 2021**

<b>Programme</b>	<b>Time</b>
<b>On spot registration</b>	<b>09:30 -10:30 AM</b>
<b>Inaugural Session</b>	<b>10:30 -11:30 AM</b>
<b>Dignitaries: Hon'ble Vice Chancellor, Dean Academic Affairs, Dean Research, Registrar</b>	

**Tea Break      11:30 AM-11:50 AM**

<b>Session I:</b>		<b>11: 50 AM - 2:00 PM</b>	
<b>Chair: Prof. Zafar. A. Reshi</b>		<b>Co-Chair: Dr. Idrees Ahmed Wani</b>	
<b>Invited Speakers</b>			
1	<b>Prof. Kasiviswanathan Muthukumarappan</b> (Key note Speaker) South Dakota State University, USA	11:50 AM-12:10 PM	
2	<b>Prof. Mohd Ashraf Ganie</b> Sher-I-Kashmir Institute of Medical Sciences India	12:10 PM -12:25 PM	
3	<b>Prof. Manzoor A Shah</b> Professor, Department of Botany, University of Kashmir, India	12:25 PM -12:40 PM	
4	<b>Dr. Ajaz ul H Wani</b> Scientist-D, Wellcome Trust-DBT Intermediate Fellow Ramanujan Fellow, Department of Biotechnology, University of Kashmir, India	12:40 PM -12:55 PM	
5	<b>Dr. M S Khuroo</b> Ex. Director SKIMS, Ex. Consultant Hepatologist, Head Gastro-enterology and Liver Transplantation, KFSHRC, Ryadh	12:55 PM -01:10 PM	
<b>Oral Presentations (Time: 5+2 minutes each)</b>			
	<b>Presenters</b>	<b>Mode</b>	<b>Title</b>
1	Dr. Susheel Kalia	Online	Enzymatic Biografting: Green Surface Functionalization of Ligno-cellulosic Fibers
2	Showkat Ali Ganie	Offline	Functionalization Of Biopolymers For Biomedical

			Applications
3	Jibraan Asim	Offline	Encapsulation Of Bioactives With Emphasis On Flax Seed Oil, Fish Oil Powder And Food Colorants
4	Basharat Ahmad Bhat	Offline	Potential Antioxidants In Diet And Their Implications On Human Health
5	Bashir Ahmad Sheikh	Offline	Emerging Perspectives Of Plant-Derived Products As Potential Drugs Against Tuberculosis
6	Zubair Ahmad Akhoun	Offline	Drug Residues In Milk And Meat And Its Impact On Health And Environment
7	Rifat Basharat	Offline	Biopolymers and agriculture
<b>Poster Presentations (Parallel Session)</b>			
<b>Chair:</b> Dr. Sajad Mohd Wani		<b>Co-Chair:</b> Dr. Hilal Ahmad Punoo	
<b>Presenters</b>			<b>Title</b>
1	Ishrat Jan	Offline	Dissipation, Risk Assessment, Half-Life And Method Validation Of Carbendazim In Green Pea By High-Performance Liquid Chromatography
2	Divya Pasrija	Online	Extraction Optimization Of Protein From Muskmelon (CucumisMelo) Seeds Using Response Surface Methodology
3	Tajendra Pal Singh	Online	Effect Of Rice Bran Protein On Physical And Instant Properties Of Soy Protein Supplement
4	Seerat Saleem	Offline	Millet Based Biopolymers For Food And Pharmaceutical Application
5	Haamiyah Sidiq	Offline	Functionalization Of Biopolymers Using Metal Nanoparticles
6	Suhail Ahmad Bhat	Online	A Review On The Effect Of Gamma Irradiation On The Gums For The Development Of Delivery Systems
7	Syed Mudassir	Online	Recent Trends In Iron Fortification Of Foods
8	Snober Shabeer Wani	Offline	Exploration Of Medicinal Plant Proteome: Towards Identification And Characterization Of Therapeutically Active Proteins/Peptides
9	Wajahat Rashid Mir	Offline	The Role Of Plant Polyphenolic Antioxidants In Human Health And Diseases.
10	Gopinath Mummaleti	Online	Properties Of Levan Produced From Coconut Inflorescence Sap And Its Application As Sweetener
11	Falak Habeeb	Online	A Review On The Structural Modification Of Food Industrial By-Products For The Development Of Biodegradable Packaging Films
12	Anand Kishore	Offline	Smart Food Waste Material For Bio-Degradable Packaging Film : A Review
13	Butool Maqbool	Online	Fish Waste Biopolymers And Their Applications In Food Packaging
14	Lubna Masoodi	Offline	Post-Harvest Management Of Fresh Walnut Kernels Using Irradiation
15	Naveed Ul Mushtaq	Offline	Millet Based Edible And Biodegradable Starch Biofilm For Food Packaging
16	Sheeba Nazir	Offline	Bionanomaterials and their use in Plant Therapeutics
17	Haseeba Muzaffar	Offline	Effect Of Maize And Lentil Flour On Quality Characteristics Of Multigrain Noodles
18	Munazah Sidiq	Offline	Utilization Of Underutilized Petals Of Saffron Flowers For Nutraceutical Enrichment Of Some Foods

**Lunch - 2:00 -2:30 PM**

<b>Session II:</b>		<b>2: 30 PM - 4:40 PM</b>	
<b>Chair:</b> Dr. Sajad Mohd Wani		<b>Co- chair:</b> Dr. Amir Ahmad Dar	
<b>Invited Speakers</b>			
1	<b>Prof. Giorgia Spigno</b> Universita Cattolica del Sacro Cuore, Italy	2: 30 PM - 2:45 PM	
2	<b>Dr. Shakeel ur Rehman</b> Chief Science Officer, fairlife, LLC, USA	2: 45 PM - 3:00 PM	
3	<b>Dr. Nasir Javed</b> Rutgers University USA	3: 00 PM - 3:15 PM	
4	<b>Dr. Ali Abas Wani</b> Fraunhofer Institute for Process Engineering & Packaging, Germany	3: 15 PM - 3:30 PM	
5	<b>Dr. Nisar Ahmad Khan</b> Associate Professor, Pharmaceutical Sciences, University of Kashmir, India	3: 30 PM - 3:45 PM	
6	<b>Prof. Mubashir H. Masoodi</b> Professor, Pharmaceutical Sciences, University of Kashmir, India	3:45PM-4:00PM	
7	<b>Dr. Soumya Ranjan Purohit</b> South Dakota State University USA	4:00PM-4:15PM	
<b>Oral Presentations (Time 5+2 minutes each)</b>			
	<b>Presenters</b>	<b>Mode</b>	<b>Title</b>
1	Reyaz Ahmad Rather	Offline	Multifunctional Graphene Oxide Based Double Network Biopolymeric Hydrogel Beads For Efficient Removal Of Methylene Blue From Waste Waters
2	Alamgir A. Dar	Offline	Validated Analytical Gas Chromatographic Method For The Determination Of Profenofos Residues In/On Green Pea
3	Shoib Mohmad Wani	Offline	Apple Pomace As A Substrate For Biopolymer Production
4	Kausar Jahan	Online	Ultrasound-Assisted Extraction Of Protein Isolate From The Defatted Mustard Meal
5	Chandni	Online	Development Of Bio-Composite Films From Water Chestnut (TrapaBispinosa) Starch Nanoparticles
6	Khushboo	Online	Optimization And Characterization Of Gelatin From Pink Perch Skin And Bones, Surimi Industry Waste, Using Rsm Model
7	Tariq Ahmad Mir	Offline	Gamma Irradiated Cross-Linked Modified Gum Arabic, 2- Hydroxyethyl Methacrylate (Hema) Based Hydrogels For Niacin (Vitamin B3) Release System
8	Mohammed A Bareen	Online	Formulation And Characterization Of Heat Acid Coagulated Milk Gels For Application In Additive Manufacturing Of Foods Based On 3d Printing
<b>Poster Presentations (Parallel Session)</b>			
<b>Chair:</b> Dr. Sabeera Muzafar		<b>Co-Chair:</b> Dr. Abida Jabeen	

	<b>Presenter</b>		<b>Title</b>
1	Mehvish Habib	Online	Physical Modification Of Potato Peel Starch For The Development Of Biodegradable Packaging Films
2	Jeelani Raja	Offline	Effect Of Methyl Jasmonate Coating On Enzyme-Specific Activities And Quality Of Different Cultivars Of Apricot During Different Storages
3	Mehnaza Manzoor	Online	Characterization Of Apple ( <i>Malus Domestica</i> ) Seed Flour For Its Structural And Nutraceutical Potential
4	Mahak Majeed	Offline	Micro And Nano-Encapsulation Of Bioactives From Plants Using Biopolymers As Wall Material
5	Jahnavi Singh	Online	Characterization And Evaluation Of Bacteriocin Produced By Bacterial Isolates From Fermented Foods
6	Manjeera	Online	Studies On Interaction Between Whey And Sorghum Proteins: Effect Of Heat Treatment
7	Zahida Shah	Offline	Phytochemical Analysis Of Ethnomedicinal Plant From Kashmir Himalayan Region
8	Naira Noor	Online	Development And Characterization Of Active Packaging Films/ Coatings Loaded With Phytochemicals From Pomegranate Peel – A Review
9	Asifa Khan	Online	Development Of Biodegradable Packaging Films Loaded With Phytochemicals Extracted From Orange Peel Extract- A Review
10	Aiman Zehra	Offline	Chitosan/Zno Composite Films For Biodegradable Food Packaging Applications
11	Danish Rizwan	Offline	Bioactive Peptides From Fermented Foods As Promising Anti-Hypertensive Agents
12	Maeena Naman	Offline	Monitoring Of Pesticide Residues In Commonly Used Fruits And Vegetables In Kashmir Valley
13	Alweera Ashfaq	Online	Protein-Based Functional Colloids And Their Potential Applications In Food: A Review
14	Ab Raouf Bhat	Online	Choline: From Diet To Ionic Liquids
15	Daud Hussain	Online	Fabrication And Characterization Of Mesoporous Guar Gum/Niwo <sub>4</sub> Nanocomposite For Efficient Adsorption Of Phloxine B And Crystal Violet From Aqueous Solution
16	Umar Mehraj	Offline	Cell-Penetrating Peptides (Cpps) As Promising Tools To Deliver Therapeutic Molecules Into Tumors
17	Ishrat Ara	Offline	Biopolymers In Food Industry
18	Neelam Dubey	Online	Chemical Composition And Extraction Of Biopolymer From Quinoa Seeds
19	Nikita Sanwal	Online	Microbial Production Of Cellulose Using Scoby Fermentation Of Sea Buckthorn ( <i>Hippophae Sp.</i> ) Leaves During The Development Of Novel Process Technology For Kombucha Tea Manufacturing
20	G N Bader	Offline	Recent Advancements In Biopolymer Based Materials In The Management Of Diabetic Wound Healing
21	Dr. Shafia Nazir	Offline	Hypothyroidism and psychological issues in women

22	Dr. Muzamil Jan	Offline	Food consumption pattern among <i>Kashmiri</i> Women during their Pregnancy
23	Nisha Kumari Jha	Online	To Screen And Characterize Anti-Quorum Sensing Metabolites From Fermented Food Bacteria Against Foodborne Pathogens
24	Swati Tiwari	Online	Development Of An Emulsion-Based Delivery System For Cumin Essential Oil Using Bacterial Exopolysaccharide As A Natural Emulsifier

Tea	04:40 PM-05:00 PM
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<b>Day 2: 9<sup>th</sup> November, 2021</b>
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<b>Session I:</b>		<b>10: 00 AM - 02:00 PM</b>	
<b>Chair:</b> Dr.Firdous Ahmad Khanday		<b>Co- chair:</b> Dr. Tariq A. Ganie	
<b>Invited Speakers</b>			
1	<b>Dr. Uday S. Annapure</b> Institute of Chemical Technology(ICT), Mumbai	10: 00 AM-10:15 AM	
2	<b>Prof. Mohammad Shafiur Rahman</b> Sultan Qaboos University Oman	10: 15 AM-10:30 AM	
3	<b>Prof. Seid Mahdi Jafari</b> Gorgan University of Agricultural Sciences and Natural Resources, Iran	10: 30 AM-10:45 AM	
4	<b>Dr. Azza Silotry Naik</b> University of Limerick Ireland	10: 45 AM-11:00 AM	
5	<b>Dr. Altaf Bhat</b> Assistant Professor Department of Biotechnology, University of Kashmir, India	11: 00 AM - 11:15 AM	
6	<b>Dr. Saiqa Ikram</b> Associate Professor, Department of Chemistry, Jamia Millia Islamia (Central University) India	11: 15 AM - 11:30 AM	
7	<b>Dr. Nazir Ahmad Dar</b> Associate Professor, Department of Biochemistry, University of Kashmir, India	11: 30 AM - 11:45 AM	
8	<b>Dr. M. A Shah</b> Head, Department of Physics, NIT Srinagar	11: 45 AM - 12:00 PM	
9	<b>Prof. Mohammad Ishaq Geer</b> Professor, Department of Pharmaceutical Sciences, University of Kashmir, J&K, India	12:00 PM -12:15 PM	
<b>Oral Presentations (Time 5+2 minutes each)</b>			
<b>Presenters</b>		<b>Mode</b>	<b>Title</b>
1	Mohd Azhardin	Online	Durable And Multifunctional Waterborne Superhydrophobic Material From Cellulose Nanofiber Building Block

2	IqraQureshi	Online	A Review On The Effect Of Gamma Irradiation On The Gums For The Development Of Delivery Systems
3	HafsaQadr	Offline	Systematic Interplay Between C. Albicans Membrane Mfs-Transporters
4	Tabasum Ali	Offline	Targeting Pi3k-Akt-Mtor Pathway In Cancer By Natural Compounds: A Novel Therapeutic Strategy
5	HinaQayoom	Offline	Biopolymers In Combination With Chemotherapeutic Agents To Target Breast Cancer
6	Laraibah Hamid	Offline	Bio-Polymers As An Alternative For Polymers In Food Packaging To Prevent Their Entry In Food Chain To Preclude Various Health Hazards: A Review
7	Shubham Rohilla	Online	Impact Of High-Pressure Homogenization On Structural, Functional And In Vitro Bioaccessibility Properties Of Phytochemicals Of Tamarillo Puree
8	Qamreen Nassar		Development And Characterisation Of Carbohydrate Based Composite Films
9	Mofieed Ahmed	Online	From Sea-Food Processing By-Products To Food Packaging: Food Wrapping And Antioxidant Release Applications
10	Mushtaq Ahmad Bhat	Offline	Engineering Of Multifunctional Chitosan Hydrogel Adhesion And Stretchability For Wound Healing And Release Of Anticancer And Anti-Inflammatory Agents.
12	Zubaid ul Khazir Rather	Online	Preparation and characterization of Polyvinyl alcohol-Betulinic acid composit film for anti bacterial evaluation
13	Insha Mushtaq Shah	Offline	Dressing Wound By Biopolymers
14	JaffarFarooq Mir	Offline	Synthesis And Functionalization Of Iron Oxide Based Nano Structures For Biomedical Applications: A Review
15	Ram Kumar Deshmukh	Online	Guar Gum/Carboxymethyl Cellulose-Based Antioxidant Film Incorporated With Halloysite Nanotubes And Litchi Shell Waste Extract For Active Packaging

**Poster Presentations (Parallel Session)**

**Chair:** Mr. Abdul Aala Fazli

**Co-Chair:** Dr. Basharat Ahmad/Dr. Sajad A. Mir

	<b>Presenter</b>	<b>Mode</b>	<b>Title</b>
1	Anu Sharma	Online	Degradation Of Carotenoids In Conventional Heating Using Raman Spectroscopy
2	Muneeb Qazi	Offline	Biopolymers: Structure, Chemistry, and Applications in food industry
3	Monaza Rashid	Offline	Application of biopolymers in Nanoscience and Nanotechnology
4	Naseh Nisar	Offline	Protein Based Edible Films And Coatings: Properties Enhancement

5	Monisa Yousuf	Offline	Genetically Engineered Protein Based Bio Polymers For Efficient Controlled Release
6	Mohammad Aasif	Offline	Life Cycle Assessments of Biodegradable Commercial Biopolymers
7	Humira Rashid Khan	Offline	Nanoparticles From Biopolymers: A Review
8	Arizo Mushtaq	Offline	Biopolymers As Wound Healing Material :Challenges And Strategies
9	Sabreena Yousuf	Offline	Waterborne pH Responsive Quince Seed Mucilage Based Hydrogel for Sustainable Release of Vanillin
10	Romee Jan	Offline	<i>Moringa Oleifera</i> As A Novel Source Of Biopolymers And Their Potential Applications: A Review
11	Nissar Ahmad	Offline	GCMS analysis of chemical constituents from underexplored <i>Heracleum candicans</i> Wall. ex DC. from Pahalgam, Kashmir, Northern Himalayan Region of India
12	Rabiah Bashir	Offline	Electrospun polymeric nanofibres for drug delivery applications:
13	Taha Mukhtar	Offline	Biodegradable Polymers: Current Research Trends & Their Applications
14	Suhail Ahmad Mir	Offline	Recent Advances In Combating Cancer With Biopolymers As Drug Delivery Systems: A Review
15	Ifat Jan	Offline	Harnessing Chitosan Nanoparticles In Drug Delivery Systems
16	Zakir Showkat	Offline	Studies On The Functional And Structural Properties Of Seabuckthorn Seed Protein Concentrate As Affected By Different Enzymes
17	Zahida Naseem	Offline	Role Of Exopolysaccharides From Lactic Acid Bacteria As Biotechnological Tools In Food Application
18	Shabnam Kawoosa	Offline	Biopolymers As Emerging Excipients For The Development Of Gastro-Retentive Drug Delivery System
19	Nisha Kumari Jha	Online	To Screen And Characterize Anti-Quorum Sensing Metabolites From Fermented Food Bacteria Against Foodborne Pathogens
20	Nikita Sanwal	Online	Microbial Production Of Cellulose Using Scoby Fermentation Of Sea Buckthorn ( <i>Hippophae</i> Sp.) Leaves During The Development Of Novel Process Technology For Kombucha Tea Manufacturing
21	Bableen Flora	Online	Chemical Synthesis Of Hydroxyapatite Composite And Study Of Its Improved Mechanical Properties
22	Asma Ashraf Khan	Online	To utilize Fungal beta-glucan as an encapsulating agent for delivery of probiotics

23	Mofieed Ahmed	Offline	From Sea-Food Processing By-Products To Food Packaging: Food Wrapping And Antioxidant Release Applications.
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**Lunch (2:00 PM-2:30 PM)**

<b>WORKSHOP (2:30 PM-3:30 PM)</b>	
<b>Theme: FERMENTED FOODS AND GUT HEALTH</b>	
<p><b>Speakers:</b>  <b>Prof. Haroon Rashid Naik</b>          (Professor &amp; Dean Research, Islamic University of Science and Technology),  <b>Prof. Prathap Kumar Shetty</b>          (Dean Research, Pondicherry University India)  <b>Dr. Mubashir Hassan Shah</b>          (Assistant Professor, GMC Srinagar)  <b>Dr. Firdous Ahmad Khanday</b>          (Associate Professor, University of Kashmir)</p>	<p><b>Chair:</b>  <b>Dr. Idrees Ahmed Wani</b>          (Senior Assistant Professor, University of Kashmir)  <b>Co-Chair:</b>  <b>Dr. Sajad Mohd. Wani</b>          (Associate Professor, Sher-e-Kashmir University of Agricultural Sciences and Technology, Kashmir, (SKUAST-K), India)</p>

<b>Panel Discussion (Time 30 Minutes)</b>	
<b>Valedictory Session (4:00 PM- 5:00 PM)</b>	
<b>Dignitaries:</b>	<b>Dean Research, Dean Academics Affairs, Dean Applied Sciences and Technology, Organizing Secretary</b>
<b>Award Ceremony</b>	
<b>Vote of Thanks</b>	

**Tea (05:00 PM- 05:20 PM)**