

7<sup>th</sup> Edition of International Conference on  
**Nanotechnology for Better Living NBL-2021**

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**Poster Presentations for Hybrid Conference**

Time	Paper. Id.	day	Topic	Name	Institute
	NBL21-PO-1		Radiofrequency heating- an emerging innovative heating method in food processing	Ufaqfayaz and Dr Syed Zameer Hussain	Division of Food Science and Technology, Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir, Shalimar-Srinagar, 190025 (J&K), India
	NBL21-PO-2		Image processing and its applicability in food processing	Nazrana Rafique Wani, Aiman Farooq ,Syed Zameer Hussain, AabidaJabeen	Division of Food Science and Technology, Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir, Shalimar-Srinagar, 190025 (J&K), India
	NBL21-PO-3		Micronization and it's role in food processing	Aiman Farooq, Nazrana Rafique Wani, AabidaJabeen and Syed Zameer Hussain	Division of Food Science and Technology, Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir, Shalimar-Srinagar, 190025 (J&K), India
	NBL21-PO-4		A review on emerging use of nanoparticles in anthelmintics	Ishrat Ara, Humira Rashid Khan, Syed Tanveer	Department of Zoology, University of Kashmir Srinagar-190006, India
	NBL21-PO-5		Leveraging Nanotechnology for Enhancement of Oral Bioavailability: Design and Characterization of Solid Lipid	Divya Chauhan, Wahajuddin	<sup>1</sup> Pharmaceutics and Pharmacokinetics Division, CSIR - Central Drug Research Institute, Lucknow 226001, Uttar Pradesh, India

			Nanocarrier System for Artemether		
	NBL21-PO-6		Image processing and its applicability in food processing	Nazrana Rafique Wani, Aiman Farooq ,Syed Zameer Hussain, AabidaJabeen	Division of Food Science & Technology, SKUAST-Kashmir, Shalimar J&K India 190025
	NBL21-PO-7		Applications of nanotechnology in food safety	Mariya Nayeem, Aasima Rafiq and Bushra Manzoor	Division of Food Science and Technology, Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir, Shalimar-Srinagar, 190025 (J&K), India
	NBL21-PO-8		Impact of vehicular Pollution on edaphic features along Tangmarg- Magam Road, Kashmir Valley	Jallalud-din Najar and S.A. Shameem	<sup>1</sup> Uttaranchal College of Science and Technology, <sup>2</sup> Divison of Vegetable Science, SKUAST-Kashmir-190025
	NBL21-PO-9		Promoting electrocatalytic oxygen reduction in a model composite using selective metal ions	Zubair Ahmed and Vivek Bagchi	Institute of Nano Science and Technology, Habitat Centre, Mohali, Punjab- 160062
	NBL21-PO-10		Study of Structural and Thermal Properties of Alkali Borate Glasses Containing Titanium ions	Vikas, Meena Malik, Ashima Hooda and Satish Khasa	<sup>1</sup> Department of Physics, DeenbandhuChhotu Ram University of Science and Technology, Murthal, Haryana India
	NBL21-PO-11		In vitro evaluation of antibacterial activity of copper nano particles on pure culture of Staphylococcus aureus	S. Taifa, A. Muhee*,R.A. Bhat, S. Akhter, S.U. Nabi, M.Nisar, S. Irshad, O.R. Parray and Z.A. Akhoun	Division of Veterinary Medicine, Faculty of Veterinary Sciences and Animal Husbandry, Srinagar, Jammu and Kashmir, India
	NBL21-PO-12		Cold Plasma, Its Current Applications And Future Scope In Food Processing	Saadiya, Tabeenjan, H.R.Naik	<sup>1</sup> Research Scholar, Department of Food technology, SKUAST-K, <sup>2</sup> Dean Research, IUST, Awantipora, Jammu and Kashmir

NBL21-PO-13		Dietary Nano zinc oxide (ZnO) and vitamin E supplementation helps to alleviate cold stress in broiler chickens	PeerzadaTajamu I Mumtaz <sup>1</sup> , ShowkeenMuza mil Bashir <sup>1*</sup> , Muzafar Ahmad Rather <sup>1</sup> , Sofi ImtiyazAli <sup>1</sup> , Wajid Mohammad Sheikh <sup>1</sup>	Division of Veterinary Biochemistry, Faculty of Veterinary Sciences and Animal Husbandry, Shuhama, Sher-e- Kashmir University of Agricultural Sciences and Technology – Kashmir, India -190006
NBL21-PO-14		Design of Self-Assembled Anisotropic Cobalt-based Nanostructures: An efficient electrocatalyst for O <sub>2</sub> and Cl <sub>2</sub> Evolution Reaction	SupriyaRana <sup>a,b</sup> , Krishna K. Yadav <sup>a</sup> , Kritika Sood <sup>a</sup> , Ritika Wadhwa <sup>a</sup> S. K. Mehta <sup>b</sup> and MenakaJha <sup>a</sup>	<sup>a</sup> Energy and Environmental Unit, Institute of Nano Science and Technology, Knowledge city, Sector-81, Mohali. <sup>b</sup> Department of Chemistry, Panjab University, Sector-14, Chandigarh
NBL21-PO-15		A review on structural and experimental dielectric Properties of Nd <sub>2</sub> NiMnO <sub>6</sub> and its first principle study of dielectric properties.	ShohaibAbass, Khalid Sultan	Department of Physics, Central University of Kashmir, Tulmulla Campus, Ganderbal, 191131
NBL21-PO-16		Prospects of using dendrimers as nano-delivery vehicle for beta-carotene, safety and security	Nusrat Jan <sup>1*</sup> and Tawheed Amin	Division of Food science and Technology, SKUAST-Kashmir, 190025 (J&K), India
NBL21-PO-17		Trends in Dielectric and Ferroelectric properties of Rare Earth doped Barium Titanate: A Review	Saima Jahan <sup>1</sup> , Khalid Sultan <sup>1</sup>	<sup>1</sup> Department of Physics, Central University of Kashmir, Tulmullah-Ganderbal, 190015(J&K), India
NBL21-PO-18		Synthesis of Iron oxide from scrap iron thereby harnessing its potential in environment remediation	Arushi Arora, Ritika Wadhwa, Menaka Jha	Institute of Nano Science and Technology, Knowledge City, Sec-81, Mohali, 140306, Punjab, India
NBL21-PO-19		Efficacy of Banana Peel as unexplored Source of Antioxidants in Meat based Products: A Review	Shubli Bashir <sup>*1</sup> , Mifftha Yaseen <sup>1</sup> , Taha Mukhtar <sup>1</sup> , Syed Zameerhussain	<sup>1</sup> Division of Food Science and Technology, Faculty of Horticulture, SKUAST-K-190025

NBL21-PO-20		Green Energy Generation from Multiferroics NBT-MnFe <sub>2</sub> O <sub>4</sub> based Hydroelectric Cell	Monika Dhall <sup>1*</sup> , Ashima Hooda <sup>1</sup> and Satish Khasa <sup>1</sup>	<sup>1</sup> Material Research Laboratory, Department of Physics, DeenbandhuChottu Ram University of Science & Technology, Murthal – 131039 (Sonipat), Haryana, India
NBL21-PO-21		Dielectric and Refraction trends in La <sub>2</sub> NiMnO <sub>6</sub> Double Pervoskite substitutionally doped by gadolinium: A First Principle Study	Feroz A. Najar <sup>1</sup> and Khalid Sultan <sup>1</sup>	<sup>1</sup> Department of Physics, Central University of Kashmir, Tullmullah-Ganderbal , 190015(J&K), India
NBL21-PO-22		Nanotechnology in Agriculture:A Future Technology for Sustainable Agriculture	Bushra Bashir, Monica Reshi and Aasima Rafiq	Division of Food Science and Technology, Sher-e-Kashmir University of Agricultural Sciences and Technology, Shalimar
NBL21-PO-23		Fabrication and characterization of Vitamin D3 encapsulated gum arabic nanoemulsions	Iqra Bashir <sup>1*</sup> and Dr. Sajad Mohammad Wani <sup>1</sup>	<sup>1</sup> Division of Food Science and Technology, Sher-e-Kashmir University of Agricultural Sciences and Technology, Shalimar Srinagar,190025(J&K), India.
NBL21-PO-24		CNT Based Field Effect Transistor: An Alternative To Silicon Based Transistor - A Review	Younus Ahmad Dar <sup>1</sup>	Department of Electronics and Instrumentation Technology, University of Kashmir, Hazratbal-Srinagar, 190006 (J&K), India
NBL21-PO-25		PHYSICOCHEMICAL STUDIES ON PHARMACEUTICALLY KNOWN NICOTINAMIDE BASED SOME BINARY ORGANIC EUTECTICS	SUMIT CHAUDHARY and R.N. RAI	Department of Chemistry, Institute of Science, Banaras Hindu University, Varanasi-221005,
NBL21-PO-26		Self-Sorting of micelles using amphiphilic polymers for drug delivery application	Shaifali Sartaliya , Ritu Mahajan, Govindasamy Jayamurugan	Institute of Nano Science and Technology, Mohali
NBL21-PO-27		Towards development of Nano-agrochemicals for crop improvement.	Aneesa Batool <sup>1</sup> , <sup>2</sup> , Madhiya Manzoor <sup>3</sup> , Momina Nazir <sup>2</sup> , Gajendra Kumar <sup>1</sup> , Sajad Majeed Zargar <sup>3*</sup>	<sup>1</sup> Bhawant Iniversity of Ajmer, Rajasthan, Sikar Road, Ajmer-305004, Rajasthan (INDIA) <sup>2</sup> Department of Chemistry, WomensCollege, Cluster University Srinagar-19000 INDIA, <sup>3</sup> Proteomics Laboratory, Division of Plant Biotechnology, Shere-e-Kashmir, University of Agricultural Sciences & Technology of Kashmir, Srinagar, J&K-190025, INDIA

NBL21-PO-28		Storage studies of modified rice flour extrudates	Beenish*, Dr Syed Zameer Hussain**, Bazil a Naseer*	SKUAST-K
NBL21-PO-29		A novel study on the synthesis of metalloresin through non-conventional approach to explore its flame retardancy	Iram Fayaz <sup>1</sup> , G.M. Peerzada <sup>2</sup> , and Nadeem Bashir <sup>3</sup>	Department of Chemistry, University of Kashmir, Srinagar, India. Department of Chemistry, Govt. College for women, Nawakadal Srinagar, India
NBL21-PO-30		Nanoencapsulation of Phytochemicals: Necessity for Effective Delivery	Mumtahir ul Kousar <sup>a</sup> , AbidaaJabeen <sup>b</sup> , Syed ZameerHussain <sup>c</sup> , AasimaRafiq <sup>d</sup> , QuraazahAkeemu Amin <sup>e</sup>	<sup>e</sup> SKUAST-K, Division of Food Sciences & Technology
NBL21-PO-31		Cryptosporidium: Prevalence and Epidemiology	Pooja Bharti, <sup>1</sup> Syed Tanveer <sup>1</sup> , Khalid.M.Fazili <sup>2</sup> , Yasmeena Jan <sup>1</sup>	Department of Zoology, University of Kashmir, Srinagar-190006, Kashmir.
NBL21-PO-32		Ultrafast dynamics of tin selenide for exploring optoelectronics application	Manoj Kumar <sup>1,2</sup> , Sanju Rani <sup>1,2</sup> , Prince Sharma <sup>1,3</sup> , Mahesh Kumar <sup>1,4</sup> , and V.N. Singh <sup>1,2*</sup>	<sup>2</sup> Indian Reference Materials (BND) Division, CSIR-National Physical Laboratory, Dr. K. S. Krishnan Marg, New Delhi-110012, India
NBL21-PO-33		Highly Selective Room Temperature SnSe Thin Film based NO <sub>2</sub> Sensor	Sanju Rani <sup>1,2</sup> , Manoj Kumar <sup>1,2</sup> , Vishal Baloria <sup>1</sup> and Vidya Nand Singh	<sup>1</sup> CSIR-National Physical Laboratory, Dr K. S. Krishnan Marg, New Delhi-110012, India. <sup>2</sup> Academy of Scientific and Innovative Research (AcSIR), Ghaziabad, Uttar Pradesh- 201002, India
NBL21-PO-34		CNTs/Ag <sub>2</sub> WO <sub>4</sub> /Ga <sub>2</sub> O <sub>3</sub> Heterostructure Synthesis, characterization and their	Madura N Talwar <sup>a,c</sup> Akshat	<sup>a</sup> Department of Studies in Environmental Science, University of Mysore, Manasagangotri, Mysore 570006,

		potential application on industrial wastewater treatment & biological importance	haG <sup>a,b,*</sup> M. R. Abhilash <sup>a</sup> , S. Srikantaswamy <sup>a</sup> , <sup>b</sup> A.P Gnanaprakash <sup>c</sup>	India. <sup>b</sup> Centre for Materials Science and Technology, Vijnana Bhavan, University of Mysore, Manasagangotri, Mysore 570006, India. Department of Studies in physics, University of Mysore, Manasagangotri, Mysore 570006, India
NBL21-PO-35		EFFECT OF NANOCLAY ON BARRIER AND MECHANICAL PROPERTIES OF CHITOSAN BASED FILMS	Aiman Zehra* and SajadMohdWani	Division of Food Scienc and Technology, SKUAST-K Shalimar J&K
NBL21-PO-36		Mn doped CsPbBr <sub>3</sub> Perovskite Nanoplatelet Architecture and Its Exciton Dynamics	Kaliyamoorthy Justice Babu <sup>†</sup> , Gurpreet Kaur <sup>†</sup> , Ayushi Shukla <sup>†</sup> and Hirendra Nath Ghosh	Institute of Nano Science and Technology, Knowledge City, Sector 81, SAS Nagar, Mohali, Punjab-140306, India. Radiation and Photochemistry Division, Bhabha Atomic Research Centre, Mumbai - 400085, India.
NBL21-PO-37		Design of process to synthesize nickel manganese oxide from electronic waste	Sapna Devi <sup>1</sup> , Sunaina <sup>1</sup> , Ritika Wadhwa <sup>1</sup> , Menaka Jha <sup>1</sup>	Institute of Nano Science and Technology, Mohali 140306 (Punjab), India
NBL21-PO-38		Organoids: A New Approach in Toxicity Testing of Nanotherapeutics	Sofi Imtiyaz Ali <sup>1</sup> , Muzafar Ahmad Rather <sup>1</sup> , Wajid Mohammad Sheikh <sup>1</sup> , Showkat Ul Nabi <sup>2</sup> , ShowkeenMuza mil Bashir <sup>1</sup>	<sup>1</sup> Division of Veterinary Biochemistry, Faculty of Veterinary Sciences and Animal Husbandry, Sher-e-Kashmir University of Agricultural Sciences and Technology, Srinagar -190006, Jammu and Kashmir, India. <sup>2</sup> Large Animal Diagnostic Laboratory, Department of Clinical Veterinary Medicine, Ethics & Jurisprudence, Division of Veterinary Biochemistry, Faculty of Veterinary Sciences and Animal Husbandry, Sher-e-Kashmir University of Agricultural Sciences and Technology, Srinagar -190006, Jammu and Kashmir, India.
NBL21-PO-39		Comparative study of chemically and biologically synthesized silver nanoparticles on seed germination assay	MeghaBiware*, Nivedita Ghayal, Akash Barik, Komal Katare, Shivani	Post-graduate and Research Centre, Department of Chemistry, MES AbasahebGarware College, Pune, India.

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	NBL21-PO-40		New process of conversion of waste paper to nanostructured CaCO <sub>3</sub>	Ritika Wadhwa, Sunaina, Ankush, Krishna K. Yadav and Menaka Jha	Institute of Nano Science and Technology, Knowledge City, Sec-81, Mohali, 140306, Punjab, India.
	NBL21-PO-41		High amylose rice and carboxymethyl cellulose increases resistant starch with simultaneous reduction of glycemic index in gluten-free cookies	Bazila Naseer <sup>1*</sup> , H. R. Naik <sup>1</sup> , S. Z. Hussain <sup>1</sup>	<sup>1</sup> Division of Food Science and Technology, Sher-e-Kashmir University of Agriculture Sciences and Technology of Kashmir, Shalimar, 190025, India
	NBL21-PO-42		Chitosan-Gelatin nanocomposite matrix for Biomedical Applications	Sheril Ann Mathew <sup>a</sup> , Abraham RebairoJ. <sup>a</sup> , R. Manikandan <sup>b</sup> , A. Stephen <sup>a</sup>	<sup>a</sup> Department of Nuclear Physics, University of Madras, Guindy Campus, Chennai 600025, India. <sup>b</sup> Department of Zoology, University of Madras, Guindy Campus, Chennai 600025, India.
	NBL21-PO-43		Nanostructured liquisolid delivery systems for controlled delivery of poorly water-soluble bioactive components	Tawheed Amin, Mohammad Amaan Seh, AbidaJabeen	<sup>1</sup> Food Science & Technology, Division of Food Science & Technology, SKUAST-Kashmir Srinagar J&K INDIA.
	NBL21-PO-44		Double perovskite La <sub>2</sub> CoMnO <sub>6</sub> as efficient oxygen evolution electrocatalyst	Kritika Sood <sup>1,2</sup> , Supriya Rana <sup>1,2</sup> , Ritika Wadhwa <sup>1</sup> , K.K. Bhasin <sup>2</sup> , Menaka Jha	<sup>1</sup> Institute of Nano Science and Technology, Knowledge city, Sector-81, Mohali. <sup>2</sup> Department of Chemistry, Panjab University, Sector-14, Chandigarh.
	NBL21-PO-45		Synthesis and characterization of nonlinear optical material of Dipotassium boro maleate (DKBM) Single Crystal	Kiran <sup>1,2*</sup> , N. Vijayan <sup>2</sup> , Manju Kumari <sup>1,2</sup> , and Debabrata Nayak <sup>1,2</sup>	<sup>1</sup> Academy of Scientific and Innovative Research (AcSIR), CSIR-HRDC Campus, Ghaziabad, Uttar Pradesh- 201 002, India. <sup>2</sup> CSIR- National Physical Laboratory, Dr. K.S. Krishnan Road, New Delhi 110-012, India.
	NBL21-PO-46		Physical and structural properties of Zirconium doped bioactive material: Suitable	Rajesh <sup>a</sup> , Ashima Malik <sup>a</sup> , Satish	Material Research Laboratory, Department of Physics, Deenbandhu Chhotu Ram University of Science &

			for dentistry	Khasa <sup>a</sup>	Technology, Murthal 131039, India
	NBL21-PO-47		Microbiological and physiochemical evaluation of various skim milk and whole milk powders in Kashmir Valley	Snober Irshad <sup>1</sup> , Mohd A. Pal <sup>1</sup> , Sadiya Sajad <sup>1</sup> , Syed Taifa <sup>2</sup> , Riyaz A. Bhat <sup>2</sup> , Sheikh R. Ahmad <sup>1</sup> , Asif H. Sofi <sup>1</sup> , Heena Jalal <sup>1</sup>	<sup>1</sup> Division of Livestock Products Technology, <sup>2</sup> Division of Veterinary Medicine, Faculty of veterinary Sciences and Animal Husbandry, SKUAST-Kashmir, Jammu and Kashmir, India
	NBL21-PO-48		Chemotherapeutic efficacy of nutraceutical-based Myricetin silver nanoparticles (mAgNPs) against HCT116 cell line	Syed Tauqeer Anwer <sup>1</sup> , Md. Zafaryab <sup>1</sup> , Khalid Imtiyaz Dar <sup>1</sup> , Khalid Umar Fakhri <sup>1</sup> , Irshad Hussain Naqvi <sup>2</sup> , Md. Asad Khan <sup>3</sup> , M. MoshahidAlam Rizvi <sup>1</sup>	<sup>1</sup> Genome Biology Lab, Department of Biosciences, jamiaMillia Islamia, New Delhi – 110025, India. <sup>2</sup> Dr. M.A. Ansari Health Centre, Jamia Millia Islamia, New Delhi -110025. <sup>3</sup> Department of Biochemistry, Faculty of Dentistry, Jamia MilliaMillia , New Delhi.
	NBL21-PO-49		Synthesis of biodegradable Chitosan/Polyvinylpyrrolidone nanocomposite for the remediation of two fluoroquinolone antibiotics from their aqueous solution	Divyanshi Mangla <sup>1</sup> , Saiqa Ikram <sup>1*</sup>	Bio/Polymer Research Laboratory, Department of Chemistry, Jamia Millia Islamia, New Delhi-110025, India
	NBL21-PO-50		A Study on Synthesis of Thermoresponsive Poly(N-isopropylacrylamide) - ZnO Hybrid Hydrogel through Non-conventional approach to Explore its Thermo-Mechanical Properties and other Applications.	ShafiaLateef, <sup>#</sup> Ghulam Mustafa Peerzada, <sup>#</sup> Nadeem Bashir Ganaie, <sup>\$</sup>	Department of Chemistry, University of Kashmir Srinagar (J&K) India 190006. Department of Chemistry, Government College for Women Nawakadal Srinagar(J&K) India190002
	NBL21-PO-51		In vitro anti-cancer efficacies of walnut (Juglans regia) leaf extract against colorectal cancer cells	Abida Samad <sup>1</sup> , Khalid Imtiyaz <sup>1</sup> , Laraib Urooj <sup>1</sup> ,	<sup>1</sup> Genome Biology Lab, Department of Biosciences, Jamia Millia Islamia, New Delhi-110025. <sup>2</sup> School of Sciences, Indra Gandhi National Open University, New Delhi-

				Khalid Umar Fakhiri <sup>1</sup> , Zaffar Iqbal <sup>1</sup> , M. Moshahid A. Rizvi <sup>1*</sup> , Amrita Nigam <sup>2</sup>	110068
	NBL21-PO-52		Designing Collagen Mimetic Ionic Complementary Peptide Hydrogels for Biomedical Applications	Vijay K. Pal, Sangita Roy*	Institute of Nano Science and Technology, Habitat Centre, Mohali, Punjab-160062, India.
	NBL21-PO-53		Pulsed light technology and its application in food industry	Tabeejan 2 Dr syedzameer Hussain , 3 DR Aasima Rafiq ,4 Saadiya	SKAUST-K
	NBL21-PO-54		Memory Applications using Protamine Sulfate assembled onto thinfilms.	HritinavaBanik, Surajit Sarkar, Ripa Paul, Sudip Suklabaidya, D. Bhattacharjee and S. A. Hussain*	<sup>1</sup> Thin Film and Nanoscience laboratory, Department of Physics, Tripura University (Suryamaninagar-799022), Tripura, India
	NBL21-PO-55		Non-volatile memory applications using Indole derivative Langmuir-Blodgett (LB) films	Surajit Sarkar, HritinavaBanik, D. Bhattacharjee and Syed Arshad Hussain*	<sup>1</sup> Thin Film and Nanoscience laboratory, Department of Physics, Tripura University (Suryamaninagar-799022), Tripura, India
	NBL21-PO-56		Nanoparticle based drugs in reversing multiple drug resistance in Cancer	Suhail Ahmad Mir <sup>1</sup> , Lateef Ahmad Dar <sup>1</sup> , Lairabah Hamid <sup>2</sup> , G N Bader <sup>1*</sup>	<sup>1</sup> Departemnt of Pharmaceutical Sciences, University of Kashmir, Srinagar, 190006. <sup>2</sup> Department of Zoology, University of Kashmir, Srinagar, 190006.

NBL21-PO-57		Amoxicillin loaded Chitosan/PCL combined Zinc doped Bismuth Oxide hydrogel for diabetic wound healing application	D. Prema <sup>1</sup> , Nikita Mariam Binu <sup>1</sup> , G. Devanand Venkatasubbu <sup>1</sup>	Department of Nanotechnology, SRM Institute of Science and Technology, Kattankulathur, Chengalpattu District, Tamil Nadu, India - 603 203
NBL21-PO-58		Novel electron rich Polycarbazole conjugated 2D Mo <sub>2</sub> N nanocomposite for supercapacitor application	P. Praveena <sup>1</sup> , Rajagopal Peri <sup>2</sup> , V. Narayanan <sup>3</sup> , B. Muthuraaman <sup>2</sup> , A. Stephen <sup>1</sup>	<sup>1</sup> Department of Nuclear Physics, University of Madras, Chennai-600025, India. <sup>2</sup> Department of Energy, University of Madras, Chennai-600025, India. <sup>3</sup> Department of Inorganic Chemistry, University of Madras, Chennai-600025, India.
NBL21-PO-59		Gastrointestinal parasitic screening of domestic livestock in Tatakuti Wildlife Sanctuary	Rouf Ahmad Bhat <sup>1,*</sup> , Hidayatullah Tak <sup>1</sup> , Bilal A. Bhat <sup>1</sup> Mustahson F. Fazili <sup>1</sup> and Ishfaq Majeed <sup>1</sup>	<sup>1</sup> Department of Zoology University of Kashmir
NBL21-PO-60		Nutritional Analysis (Fatty Acid Profile) In Cereal Food Products Using GCMS/FID	Taha Mukhtar <sup>1</sup> , Adnan Mukhtar <sup>2</sup> , Shubli Bashir <sup>3</sup> , Aabida Jabeen <sup>4</sup> , Tawheed Amin <sup>5</sup>	<sup>5</sup> Division of Food Science and Technology, Faculty of Horticulture SKAUST-K-190025. <sup>2</sup> Department of Electrical and Electronics Engineering, Amity University Uttar Pradesh Noida, India
NBL21-PO-61		Endophytes – The Prospective Biogenic Nanomachines	Misbah Majid	Department of Botany, University of Kashmir, Hazratbal Srinagar, J&K
NBL21-PO-62		Development and application of nanochitosan based coating for enhancement of shelf life of fresh plum.	SearatShowkat <sup>1*</sup> and Dr. Sajad Mohammad Wani <sup>1</sup>	<sup>1</sup> Division of Food Science and Technology, Sher-e-Kashmir University of Agricultural Sciences and Technology, Shalimar Srinagar,190025(J&K), India.
NBL21-PO-63		Little hinges swing big doors, Nanotechnology for the human betterment	NajeedulTarfeen	Centre of Research for Development (CORD), University of Kashmir Hazratbal, Srinagar

NBL21-PO-64		Co-Targeting Epidermal Growth Factor Receptor and PI3K/AKT/mTOR Signaling Pathways in Cancer a Novel Therapeutic Intervention.	Lateef Ahmad Dar <sup>1</sup> , Suhail Ahmad Mir <sup>1</sup> , Sabeeha Shafi <sup>1*</sup>	<sup>1</sup> Department of Pharmaceutical Sciences, University of Kashmir, Hazratbal Srinagar, 190006.
NBL21-PO-65		Title: Nanotechnology: a double-edged sword for environment.	Khair ul nisa <sup>1*</sup> , Najeebul Tarfeen <sup>2</sup> , Qadrul nisa <sup>3</sup>	Department of Environmental Science, University of Kashmir, <sup>1</sup> , COD, University of Kashmir <sup>2</sup> , Division of Plant Pathology, SKUAST Kashmir <sup>3</sup>
NBL21-PO-66		Polymer Multilayer Films Trigger Autonomous Fluid Flow and Power Microfluidic Device	Mujeeb Alam, Debabrata Patra <sup>*</sup>	Institute of Nano Science and Technology, Sector 81, knowledge city, SAS Nagar, Mohali 140306, Punjab, India.
NBL21-PO-67		Nanotechnology and its Role in Solar Energy Harvesting	Syed Mubashir Ahmad	Department of Physics, Central University of Kashmir, Kashmir India
NBL21-PO-68		Fluorescence tuning behavior of Carbon Quantum Dots with Gold Nanoparticles via novel intercalation effect of Aldicarb	Reena K. Sajwan, GBVS Lakshmi and Pratima R. Solanki	Special Centre for Nanoscience, Jawaharlal Nehru university, New Delhi-110067, India
NBL21-PO-69		Flexible Hybrid Carbon based Nanocomposite for EMI Shielding Application	Jitendra tahalyani <sup>1</sup> , M. Jaleel Akhtar <sup>1,2</sup> and Kamal K. Kar <sup>1,3*</sup>	<sup>1</sup> Materials Science Programme, Indian Institute of Technology Kanpur, Kanpur-208016, India. Department of Electrical Engineering, Indian Institute of Technology Kanpur, Kanpur-208016, India. <sup>3</sup> Advanced Nanoengineering Materials Laboratory, Department of Mechanical Engineering, Indian Institute of Technology Kanpur, Kanpur-208016, India.
NBL21-PO-70		2D simulation of St. Jude Med. Heart Valve	MerajAhmed, <sup>a</sup> Malay K. Das, <sup>a</sup> and Kamal K. Kar <sup>a,b,*</sup>	<sup>a</sup> Department of Mechanical Engineering, Indian Institute of Technology Kanpur, Kanpur-208016, India.. <sup>b</sup> Advanced Nanoengineering Materials Laboratory, Materials Science Programme, Indian Institute of Technology Kanpur, Kanpur-208016, India.
NBL21-PO-71		Holey reduced graphene oxide for supercapacitor application	Mukesh Kumar <sup>1</sup> , Kamal K. Kar <sup>1,2*</sup> and ManasK. Ghorai <sup>3</sup>	Advanced Nanoengineering Materials Laboratory, Materials Science Programme, Indian Institute of Technology Kanpur, Kanpur-208016, India. <sup>2</sup> Advanced Nanoengineering Materials Laboratory, Department of Mechanical Engineering, Indian Institute of Technology

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	NBL21-PO-72		Microbiological and physiochemical evaluation of various skim milk and whole milk powders in Kashmir Valley	Snober Irshad <sup>1</sup> , Mohd A. Pal <sup>1</sup> , Sadiya Sajad <sup>1</sup> , Syed Taifa <sup>2</sup> , Riyaz A. Bhat <sup>2</sup> , Sheikh R. Ahmad <sup>1</sup> , Asif H. Sofi <sup>1</sup> , Heena Jalal <sup>1</sup>	<sup>1</sup> Division of Livestock Products Technology, <sup>2</sup> Division of Veterinary Medicine, Faculty of veterinary Sciences and Animal Husbandry, SKUAST-Kashmir, Jammu and Kashmir, India
	NBL21-PO-73		Nanotechnology: Innovations and uses in Food science	Bushra Manzoor, Aasima Rafiq and Mariya Nayeem	Division of Food Science and Technology, Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir, Shalimar-Srinagar, 190025 (J&K), India
	NBL21-PO-74		Green synthesis and characterization of silver nanoparticles using <i>Aspergillus niger</i> and its efficacy against pathogenic fungi.	Nusrat Ahmad*, Mehrajud Din Talie, Abdul Hamid Wani, John Mohd War, MohdYaqub Bhat,	Section of Mycology and Plant Pathology, Department of Botany, University of Kashmir, Srinagar 190006 J&K, India.
	NBL21-PO-75		Photocatalytic integrated production of hydrogen and imines from aromatic amines via Ni-mesoporous carbon nitride: An acceptorless dehydrogenative pathway	Deepak Kumar Chauhan, Venugopala Rao Battula, Sanjhal Jain and KamalakannanKailasam*	Advanced Functional Nanomaterials, Energy and Environment Unit, Institute of Nano Science and Technology (INST), Knowledge city, Sector -81 Manauli, SAS Nagar, 140306 Mohali, Punjab, India,
	NBL21-PO-76		N-Enriched Metal Free Heptazine Based Porous Polymeric Network as Highly Efficient Catalyst for CO <sub>2</sub> Capture and Conversion	Neha Sharma, Bharat Ugale, Sunil Kumar and	Advanced Functional Nanomaterials, Energy and Environment Unit, Institute of Nano Science and Technology (INST), Knowledge city, Sector-81, Manauli, SAS Nagar, 140306 Mohali , Punjab, India

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NBL21- PO-77		Structural design of Cobalt phosphide nanorods for efficient hydrogen generation	Ankush <sup>1</sup> , Ritika Wadhwa <sup>1</sup> , Menaka Jha <sup>1*</sup>	<sup>1</sup> Institute of Nano Science and Technology, Knowledge City, Sector -81, Mohali, Punjab 140306	
NBL21- PO-78		Non-enzymatic, rapid detection of glucose on PVA-CuO thin film using ARDUINO UNO based capacitance measurement unit	Tarun Kumar Dhiman <sup>1#</sup> , Mrinal Poddar <sup>1#</sup> , GBVS Lakshmi <sup>1</sup> , Rahul Kumar <sup>1,2</sup> , & Pratima R. Solanki <sup>1</sup>	Special Centre for Nanoscience, Jawaharlal Nehru University, New Delhi-110067. School of Physical Science, Jawaharlal Nehru University, New Delhi-110067	
NBL21- PO-79		Nanotechnology as a remedy in controlling Plant Parasitic Nematodes:A Review	Ishfaq majeed <sup>1*</sup> , Hidayatullah Tak <sup>1</sup> , G. M. Lone <sup>2</sup> , Wasim Muzamil <sup>1</sup> , Abid HussainBhat <sup>1</sup> , Fayaz Hussain Mir <sup>1</sup>	Department of Zoology University of Kashmir, Srinagar-190006, Kashmir. <sup>2</sup> Division of Entomology SKUAST-K Shalimar, Srinagar.	
NBL21- PO-80		Anthelmintic activity of biologically synthesized nanoparticles (NPs) against helminth parasites in livestock: A Review	Fayaz Hussain Mir <sup>1,*</sup> , Syed Tanveer <sup>1</sup> and Mohd Ashraf Shah	<sup>1</sup> Department of Zoology, University of Kashmir- 190006 <sup>2</sup> National Institute of Technology, Srinagar- 190006	
NBL21- PO-81		Anthelmintic drug resistance in ruminants; Medicinal plants – an alternative novel approach for treatment: A Review	Laraibah Hamid <sup>*</sup> , HidayatullahTak	Department of Zoology, University of Kashmir- 190006, Srinagar	
NBL21- PO-82		Avian coccidiosis-A critical review	Shagufta Iqbal <sup>*1</sup> , Syed Tanveer <sup>1</sup>	<sup>1</sup> Department of Zoology University of Kashmir	
NBL21- PO-83		Toxoplasmosis a zoonotic disease -A REVIEW	Bilkees Nazir <sup>*1</sup> , Syed Tanveer <sup>1</sup>	Department of Zoology University of Kashmir	
NBL21- PO-84		Genetic Polymorphism of Foot rot Gene Marker DQA2 Gene in Kashmir Merino	S. Akhter,T. Ahmad,N.Nabi,	Division of Animal Genetics and Breeding, FVSc& AH, SKUAST- K; Shuhama, Srinagar, Jammu and Kashmir,	

		sheep	R. Razaq,S. Alam,SShahnaz, S.Taifa, S.Rasool,B.Zaffer,A. Fayaz,	India
NBL21-PO-85		Histomoniasis in poultry-A review	Nazima Maqbool*1, Syed Tanveer <sup>1</sup>	Department of Zoology, University of Kashmir
NBL21-PO-86		Magnetic Composites for a cleaner environment entrapping harmful pollutants from wastewater	Atul Sharma, Saif Ali Chaudhry	Department of Chemistry, Jamia Millia Islamia, New Delhi
NBL21-PO-87		Effect of gastrointestinal helminths on the health of hosts- A review	Naheeda Rehman* <sup>1</sup> , Syed Tanveer <sup>1</sup>	<sup>1</sup> Department of Zoology University of Kashmir
NBL21-PO-88		Functional Characterization of Fibers from Rice Cultivars of Indian Temperate Region	Nafiya Qadir <sup>1</sup> and Idrees Ahmed Wani <sup>1</sup>	<sup>1</sup> Department of Food Science & Technology, University of Kashmir, Hazratbal, Srinagar-190006 (J&K), India.
NBL21-PO-89		Unravelling the synthesis and characterization of nanoparticles: a critical update to nanoparticle chemistry	Humairah Tabasum <sup>1</sup> , Basharat Ahmad Bhat <sup>2</sup> and Rakeeb Ahmad Mir <sup>3</sup>	<sup>1</sup> Department of Chemistry, National Institute of Technology, Srinagar, 190006. <sup>2</sup> Department of Bioresources, University of Kashmir, Srinagar, 190006. <sup>3</sup> Department of Biotechnology, School of Biosciences and Biotechnology, BGSB University, Rajouri, 185234.
NBL21-PO-90		Unravelling the role of nanotechnology to enhance the efficacy of crop plants: a way forward to sustainable agriculture growth	Basharat Ahmad Bhat <sup>1</sup> , Syed Suhail Hamdani <sup>1</sup> , Bashir Ahmad Sheikh <sup>1</sup> and Rakeeb Ahmad Mir <sup>2*</sup>	<sup>1</sup> Department of Bioresources, School of Biological Sciences, University of Kashmir, Srinagar-190006. <sup>2</sup> Department of Biotechnology, BGSB University, Rajouri, 185234
NBL21-PO-91		Unravelling endophytic fungal assemblages of a high-altitude medicinal plant	Aroosa Jan Mattoo* and SkarmaNonzom	Department of Botany, University of Jammu, Jammu, 180006

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	NBL21- PO-93				