



5th Regional Science and Technology Congress, 2022-2023

Region 5: Purba Medinipur, Paschim Medinipur, and
Jhargram



List of papers selected for presentation in the 5th Regional Science and Technology Congress 2022-2023, Raja N.L.Khan Women's College (Autonomous), Midnapore-721102

Presenting authors are requested to note the following points.

1. A 'Plagiarism Undertaking' in the prescribed format has to be submitted before presentation.
2. Abstract ID is assigned to each paper for future reference.
3. Time and venue of presentation will be notified shortly.
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Discipline: **Physics**

Date: **14.01.2023**

Time: **10.00 am**

Venue: **Raja N.L.Khan Women's College, Midnapore**

Sl No	Name	Paper ID	Title
1	Kousik Nanda	99182419	Atmospheric gravity wave as a detection knob for forecasting tropical cyclones: A study
2	Dr Pradipta Panchadhyayee	15545639	AN AUTOMATED DISINFECTANT DEVICE (STERIAL) AS A CONTROL KNOB FOR NON-PROLIFERATION OF HARMFUL MICROBES
3	Souvik Maity	49653051	Offline Measurements for Characterization of Gamma-ray Detectors
4	Dr. Md Shahbaz Alam	73816766	Effect of Boron Doped on Structural and Optical Properties of Diamond like Carbon Thin Films Deposited by Cyclic voltammetry Technique
5	Mohibul Khan	10894364	Synthesis and Characterization of Nickel Doped Zinc Oxide Thin Films
6	KOUSIK MUKHERJEE	77518126	Nonreciprocal transmission in a rotating semiconductor microcavity
7	BASANTA Kr. JANA	11393684	A Numerical Study of Slip condition on Unsteady Flow over an Infinite Vertical Plate with Ramped Temperature and Concentration in the Presence of Thermal Radiation and Buoyancy
8	Dr. Rajib Kumar Mandal	15918153	Ball-Mill synthesized TiO ₂ -CeO ₂ nano composites: an efficient Photocatalyst for degradation of Rhodamine B under visible light.
9	AMIT KUMAR BHUNIA	75676033	Semiconductor Quantum dot-Protein Interaction: Spectroscopic, Microscopic Investigation and Photoconductivity Study
10	Dr. Soumyajyoti Kabi	49896628	Prediction of glass transition temperature from machine learning models
11	SHIRSHENDU MANDAL	25059006	Innovative Physics Experiments with Python
12	Sandip Kumar Giri	79156897	Entanglement properties of a three-mode Bose-Einstein condensate system considering inter-modal as well as intra-modal interactions
13	Anjan Samanta	77173016	Optical bistability in coupled micro-cavities



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Discipline: **Agriculture-Fisheries and Animal Science**

Date: **14.01.2023**

Time: **10.00 am**

Venue: **Raja N.L.Khan Women's College, Midnapore**

Sl No	Name	Paper ID	Title
1	SUMITA SAHOO	77750858	Bioconversion of poultry wastes using Keratinolytic bacteria <i>Bacillus wiedmannii</i> SAB10 for their possible application as biofertilizer in agriculture
2	Arun Jana	46160916	Seasonal length-weight relationship and condition factors of <i>Pachypterus atherinoides</i> (Bloch, 1794) in two habitats
3	SAYAN MANDAL	26696381	Study of Relative Length of Gut and Length-Weight Relationship of <i>Lepidocephalichthysguntea</i> (Hamilton, 1822) from Kangsabati river, West Midnapore, West Bengal, India.
4	BRATATI BHANJA	83111088	A preliminary study of Toxicological effect and behavioural response of locally available three fresh water predatory fish, exposed to fresh leaf extract of <i>Antigonon leptopus</i> Hook. & Arn.
5	DR. MRINMAY GHORAI	16683387	Freshwater ichthyofaunal diversity and sustainable socioeconomic developmental status around three states of the local fisher-folk of the river Subarnarekha, India
6	Sunita Pradhan	76843376	Restoration of Natural Colour of Goldfish in Glass Aquaria using Palash Flower Powder through Fish Feed
7	MANAS DAS	30141229	MORPHOMERISTIC CHARACTERISTICS, LENGTH-WEIGHT RELATIONSHIP, AND CONDITION FACTORS OF ONE STRIPE SPINY EEL, <i>Macrogynathusaral</i> (BLOCH AND J.G. SCHNEIDER, 1801)
8	Soumyadip Santra	41123291	Introduction of Nylon Mosquito Nets in Traditional Fishing Practice: A Rising Threat to Indigenous Fish Diversity
9	Ananya Gantait	45954860	Fish Waste Utilization For The Development Of Social Economy



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10	Srabanti Dogra	10222562	Freshwater Mollusc Collection And Sale Of Molluscan Meat – The Women-based Trade At Mecheda, Purba Medinipur
11	Ranita Mukherjee	47458292	Study the GutMicrobiota of Indigenous Ornamental fish, Indian Rosy Barb (PuntiusconchoniusHamilton, 1822)
12	ATASI HAZRA	98384627	Bacillus wiedmanni SAB10, a hidden hero as plant probiotics: Assessment of its potential on the growth of Amaranthus viridis
13	PURNACHANDRA DAS	45817646	PRESENT STATUS AND POTENTIALITY OF BIOFLOC TECHNOLOGY BASED ON CATFISH CULTURE IN INDIA
14	Gita Rana	15368415	Penaeid & Palaemonid prawn diversity in Subarnarekha estuary, the east coast of India
15	Godhuli Sit	46987148	Induced breeding and embryonic development of indigenous ornamental fish, Puntius chola (Hamilton, 1822)
16	BRATATI BHANJA	14440282	A preliminary study of Toxicological effect and behavioural response of locally available three fresh water predatory fish, exposed to fresh leaf extract of Antigonon leptopus Hook. & Arn.
17	Shyamal Dogra	67130208	Income From Flower And Vegetable Cultivation In Pre-COVID-19, COVID-19-Induced Lockdown And Post-Lockdown Situations – An Own Experience
18	SANCHITA NAYAK (TRIPATHY)	86716820	Penaeid prawn diversity with special reference to seasonal variation in Digha coast
19	SK SAHANAWAZ ALAM	56811682	Immuno biochemical characterization of leptin protein from different animals representing biodiversity
20	Suman Pratihar	86456253	Rare sighting of <i>M. f. thunbergi</i> from eastern part of India in West Bengal



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Discipline: **Zoology**

Date: **13.01.2023**

Time: **2.00 pm**

Venue: **Raja N.L.Khan Women's College, Midnapore**

Sl No	Name	Paper ID	Title
1	Dr. Soumen Roy	14651120	Micro-morphology of circulating immunocytes of African Giant land snail <i>Lissachatina fulica</i> , against yeast
2	MOUMI MANDAL	21819053	Iron status and prevalence of Anemia in association of genetic polymorphism of multiethnic males and females in some blocks of Jhargram district
3	Monojit Das	67712940	Smart Nanotherapeutic Agent for the Treatment of Anemia and Associated Disorders: Bench-To-Bedside Preclinical Trial
4	DR. POULAMI ADHKARY MUKHERJEE	70975705	Olfactory responses of female <i>Callosobruchus maculatus</i> (F.) on four varieties of <i>Lathyrus sativus</i> L. seed volatiles
5	SK SARUK ISLAM	81959372	Microbial ecology and antimicrobial profile of zooplankton adherent vibrio species: A lesson for sustainable environment.
6	Sandipa Tripathi	39175088	Study on dimethoate hydrolase, a bioremediating amido hydrolase from <i>Sphingomonas wittichii</i> strain DC-6: An approach through bioinformatics
7	Suchetana Karmakar	76681726	EFFECT OF SELECTED TWO HERBICIDES ON THE PHYSIOLOGICAL PARAMETERS OF <i>Xenyllawelchi</i> (Borner, 1906)
8	Sumana Mahato	54375312	Evaluation of Enzymatic Activity and Fungicidal Efficacy of Zooplankton Attached Bacteria
9	URMILA GIRI ROY	63195897	Ultrastructure of the sagitta otolith in different body size groups of Banded Gourami <i>Trichogaster fasciata</i> (Osphronemidae, Anabantiformes)
10	SOUMYA PRIYA	43788193	Effects of heavy metal (cadmium chloride) on freshwater mollusc,



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	CHAKRABORTY		Bellamyabengalensis
11	RAJA SAHA	39702757	Effects of bifenthrin pesticide on aquatic mollusc Bellamyabengalensis
12	SHAZIA AMRUNA	71579414	STUDY OF SMALL INDIGENOUS FRESH WATER FISH DIVERSITY IN DIFFERENT VILLAGES OF MAHISHADAL BLOCK, PURBA MEDINIPUR, WEST BENGAL
13	SUBHAM RANA	43157194	Introducing an economically sustainable organic fish preservation technique
14	Joydev Shyamal	14299871	Functional roles of benthic crabs along with their associated microbes in the decomposition process of mangrove plant litter in the integral part of coastal estuarine nutrient cycling.



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Discipline: **Zoology**

Date: **14.01.2023**

Time: **10.00 am**

Venue: **Raja N.L.Khan Women's College, Midnapore**

15	TANUKA DAS	25048026	A new free-living nematode species <i>Chronogaster spinata</i> sp. n. (Nematoda, Plectida) from paddy field of East Medinipur, West Bengal, India
16	Saheli Maiti	49125260	Micromorphological and Histopathological analysis of a macrobenthic infaunal bivalve- <i>Glauconome chinensis</i> from West Bengal-Odisha Coast, India
17	Anindita Das	65036561	Biomonitoring of ecological changes of a protected fresh water wetland through different seasons with study of aquatic insect diversity
18	Jayanti Roy	88421776	Ecological and molecular assessment of present status of threatened siluroid fish, <i>Plotosus canius</i> (Hamilton, 1822) from the Raimangal-Bidyadhari estuarine networks of Sundarban, India
19	AMALENDU GIRI	66490278	Two new species of free living nematode: <i>Anoplostoma bengalii</i> sp. Nov. and <i>Conilia minor</i> sp. Nov. from the Subarnarekha estuary, Odisha.
20	Puspendu Shit	56177032	Optimized Biodegradation of Carcinogenic Fungicide Carbendazim by Endosymbiont of <i>Glyphidrilus tuberosus</i> from Agro-Ecosystem
21	BIDYA KABASI	51465600	ECOLOGY AND POPULATION DISTRIBUTION PATTERN OF <i>Modiolus undulatus</i>
22	DEEPSIKHA MANDI	41802650	MORPHOMETRIC AND MERISTIC ANALYSIS OF SOME <i>Puntius</i> SPECIES FROM DIFFERENT VILLAGES OF MAHISHADAL BLOCK, PURBA MEDINIPUR
23	Tapan Kumar Pandit	77139065	FAUNAL DIVERSITY AND COMMUNITY STRUCTURE OF AQUATIC INSECTS IN A POND IN PASCHIM MEDINIPUR DISTRICT, WEST BENGAL, INDIA
24	SNEHASIS DAS	91464178	A STUDY ON BURROW ARCHITECTURE PATTERNS OF RED GHOST CRAB (<i>Ocypode macrocera</i>) BY CASTING METHOD AND IMPACT OF DEVELOPMENTAL ACTIVITY ON A SANDY SHORE, AT TAJPUR, WEST



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			BENGAL
25	TANDRANI DAS	76298836	Stomastrictusn.GEN., indican.SP., A NEW TOBRILID, FROM HALDI RIVER, GEONKHALI, WEST BENGAL, INDIA
26	IPTISHAMUN NESHA	92374960	Understanding Behavior and Microhabitat Preference of Dragonfly Larvae Could Help to Control Insect Vectors in Urban Landscapes
27	Biswajit Paul	60225524	Presence of Fly ash in soil decrease paddy plant growth
28	Dr Barna Chakraborty	35204975	Natural Suppression of infestation of Mealy bug (Maconellicoccus hirsutus) in Mulberry and China rose using organics inputs



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Discipline: **Mathematics**

Date: **13.01.2023**

Time: **2.00 pm** Venue: **Raja N.L.Khan Women's College, Midnapore**

Sl No	Name	Paper ID	Title
1	TAPAS ROY	71545223	Convergence of Semi-Analytical Solution of Homotopy Perturbation Method for Nonlinear Differential Equations
2	SUMAN MAITY	14033480	A study of an EOQ model with public-screened discounted items under cloudy fuzzy environment
3	Karuna Kiran Pal	43169809	A Study of an EOQ Model of Growing Items under Parabolic Dense Fuzzy Lock Environment
4	ANUSHREE BHATTACHARYA	48261572	Analysis of Fifth Sustainable Development Goal by Covering of Fuzzy Graphs
5	Dr. Gopal Mondal	31570080	Ionospheric Variability During the Amphan Cyclone-using COSMIC satellite Data
6	SK RABIUL ISLAM	91301480	Topological Indices for Fuzzy Graphs with Chemical Application
7	Nirmalya Kumar Sinha	58841588	Lactating and Post-lactating mothers belonging to Bhumij Community in Paschim Medinipur District of West Bengal: Variation of Lipid Profile
8	Dr. Samir Kumar Bhandari	42083988	A generalized cyclic contraction result on probabilistic metric spaces
9	Kalyanashis Sahoo	63539956	Role of component Allee effect in predator-prey system
10	Sk Golam Mortoja	16936739	Is the Intermediate Predator a Key Regulator of a Tri-trophic Food Chain Model? : An Illustration through a New Functional Response
11	ANUSHRI MAJI	20605636	A production-inventory model on a series-parallel system with mixed



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			strategy considering warranty period and credit period
12	Amita Samanta Adhya	41719558	Edge-vertex domination on interval graphs
13	Apurba Manna	79568597	Two-way COVID-19 vaccination station assignment and delivery optimization
14	JAYANTA KUMAR SARKAR	10450180	Different control strategies and syn chronization of newly proposed chaotic inventory model



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Discipline: **Mathematics**

Date: **14.01.2023**

Time: **10.00 am**

Venue: **Raja N.L.Khan Women's College, Midnapore**

15	MADHUSUDAN DOLAI	72165698	Work performance dependent screening process under preservation technology in an imperfect production system
16	SUMAN MONDAL	85567675	Identification of Abnormal Behaviors on Videos using Auto-encoded C3D Feature
17	UTTAM MONDAL	76338827	A Study on Regular Bipolar Intuitionistic Fuzzy Soft Graphs with Application
18	Dr. Sk Amanathulla	60436496	Surjective $L(2,1)$ -labelling of paths and interval graphs
19	Sangita Mandal	96110601	An integrated inventory model for non-instantaneous deteriorating items with advertising and price-dependent stochastic demand
20	Biswajit Das Adhikari	82774267	Some Operations on Interval-valued Picture Fuzzy Graphs
21	TUHIN BERA	77542915	On solving linear programming problem in uncertain atmosphere : A novel approach
22	Dr. Arindam Roy	17526324	Four-dimensional Combinatorial Optimization Problem under Road Restoration
23	Prasenjit Patra	15806634	Mitigating consumer returns through omnichannel retail operations: An EOQ model under stochastic demand
24	MASUMA KHATUN	40379053	A parametric de-neutrosophication based MCDM approach for employee selection in an IOT-based enterprise
25	Shaoli Nandi	10655968	Betweenness centrality of corona and unicyclic graphs



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26	NABA KUMAR MAITY	52493211	Inventory Model for a Deteriorating Item with Cloudy Fuzzy Lead Time and fully backlogged shortage
27	Sayani Adak	34489333	A study on fisheries production using fuzzy inference system
28	SUBHRANANDA GOSWAMI	72361077	Multi-objective optimization Energy Efficient Routing Protocol for Mobile Ad-hoc Network



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Discipline: **Botany**

Date: **13.01.2023**

Time: **2.00 pm** Venue: **Raja N.L.Khan Women's College, Midnapore**

Sl No	Name	Paper ID	Title
1	Surendra Patra	21060873	Extraction, Screening and Seasonal Variation of Phytoestrogen Analysis of <i>Cassia occidentalis</i> Linn. Pods and In-silico Evidence for PPAR- α Binding Efficiency
2	SUTAPA MAITI	85760816	Phytochemical screening and antibacterial activity of Bala (<i>Sida cordifolia</i> Linn.) leaf extract, an ethnomedicinal plant of Jangalmahal, West Bengal.
3	Sk Nasim Ali	75852792	Analysis of the Taxonomic Position of the Members of Dioscoreaceae and Taccaceae Based on Their Morphological and Molecular Characters
4	Mehebab Sarwar Hossain	72607073	Species Identification of the Genus <i>Ocimum</i> Based on DNA Barcode
5	Anusree Saha	98842288	Ribosomal Protein Genes Mediate Stress Tolerance in Crops
6	SHUSRITA DEBNATH	15302879	PLANT EXTRACTS AS BIOCONTROL AGENTS FOR SEED-BORNE MYCOPATHOGENS: A PILOT SURVEY
7	PRITAM KUMAR DEY	26555488	Generation of value added anthocyanin in <i>Melissa officinalis</i> L. leaves upon postharvest treatment
8	Sangita Saha	24354627	Characterisation of exopolysaccharide from endophytic <i>Fusarium</i> sp. and evaluation of its antioxidative potentialities.
9	TRISHA BHANDARI	12131609	FLOWERING PHENOLOGY AND POLLINATION ECOLOGY OF INDIAN SNAP MELON <i>Cucumis melo</i> L. var. <i>momordica</i> (Roxb.)
10	Debashis Kuila	38131176	A Dual Application of Indigenous Arbuscular Mycorrhiza (AM) and Associated Plant Growth Promoting <i>Pseudomonas</i> Enhance Productivity of <i>Capsicum frutescens</i> and Improve Non-Agricultural Lateritic Soil



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			Quality
11	Pratima Maji	18206294	Corticolous algae and cyanobacteria from non forest and avenue trees
12	MR. BIKASH MONDAL	91118084	Isolation of single active allelochemical from <i>Alternanthera tenella</i> Colla. Leaves through HPLC and study its effects on Mung bean seeds germination.
13	Dipanjali Chatterjee	91873520	Impact of Changing Air Temperatures on the Growth and Phytochemical Contents in Two Mint Species
14	Sk Md Abu Imam Saadi	35015782	Micro-Morphology of Calcium Oxalate (CaOx) Crystals and Idioblast: A Taxonomic Tool
15	Lopamudra Ballabh	92690490	Growth performance of aromatic plant Patchouli (<i>Pogostemon cablin</i>) under photoselective shading with different shading percentage



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Discipline: **Botany**

Date: **14.01.2023**

Time: **10.00 am**

Venue: **Raja N.L.Khan Women's College, Midnapore**

16	Priyanka Fadikar	68695083	Agricultural Pollution Control through Mycovirus for Sustainable Management
17	Suchandra Dhara	78122441	Lichens diversity and role as air quality indicator
18	Supriti Pandit	65708364	Heterotrophic microorganisms: Generate your own Practical specimen from Classroom atmosphere
19	Sukanya Mahapatra	92665953	Role of a botany student for online and Digital database creation: Practice and prospects
20	Arpita Pandit	82913956	Mangrove plantation: A crucial fact sheet for strategy makers
21	Dhriti Ghose	46739541	Understanding the mechanism of Collar Rot Tolerance in Lentil (<i>Lens culinaris Medik.</i>).
22	KUNTAL PATRA	46642165	In silico Identification & Characterization of GPI-anchored Proteins from the Rice Blast Fungus <i>Magnaportheorizae</i>
23	Tumpa Paikera	92481597	Reproductive ecology of <i>Saracaasoca</i> (Roxb.) de Wilde and important medicinal plant of tropical Asia
24	Hiran Kanti Santra	53569320	Antifungal Activity of Bio-active Cell Free Metabolites, and Volatile Organic Compounds Synthesized by Endophytic Fungal Isolates of Garden <i>Nasturtium</i> .
25	Arindam Roy	56104434	Insights Into Haustorial Mycobiome Of Hemi-parasitic <i>Macro solenochinchinensis</i> (Lour.) Tiegh. For Biologicals
26	Dr. Manojit Debnath	15950939	Oxygenic photoautotrophic life in extreme biotopes: A field to laboratory approach



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27	Sk Md Ismail Al Amin	43857755	Documentation of campus Angiospermic Flora of GGDC, Keshiary, Paschim Medinipur, West Bengal
28	Sulagna Saha	39291288	Secretary structures of <i>Cinnamomum verum</i> J. Presl. leaves from two different geographical regions with reference to histochemistry and essential oil composition
29	Bibartan Mishra	86280166	Production and optimisation of tannase from endophytic <i>Colletotrichum gloeosporioides</i> SC5 under SSF using waste tea husk.
30	Riya Dutta	91122668	Plant growth promoting activity of endophytic <i>Daldinia eschscholtzii</i> CIN9, isolated from <i>Clerodendrum infortunatum</i> Linn.



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Discipline: **Social Science, IPR and Others**

Date: 13.01.2023 Time: 2.00 pm Venue: Raja N.L.Khan Women's College, Midnapore

Sl No	Name	Paper ID	Title
1	Soumen Bisui	32739849	Role of forest resources for improvement of rural livelihood based on forest proximity
2	Sanjay Das	60662920	Volavetki (Panna microdon, Bleeker, 1849) sea fish masses: an emerging anti-diabetic natural source
3	DORA DAS	47463052	Synergistic Antibacterial Activity of a Bacteriocin with Some Medicinal Plant Extracts to Enhance its Therapeutic Efficacy
4	Aparajita Nandi	38299653	Women Education in India: An NSSO analysis
5	SUBHRADEEP MAITRA	48838142	An empirical study on impact of Covid-19 pandemic on consumer behaviour on the demand pattern of automobile industry in India and analysing the barriers of consumers while purchasing car using Fuzzy AHP
6	SATYANARAYAN KUMBHAKAR	49226407	Gender Inequality in the Status of Child Deprivation in West Bengal, India
7	KUNDAN GHOSH	23086062	Continuity and change of patron-client relation in community-based craft industry in present context: a case from West Bengal
8	SOUVANIK MAITY	48897020	Seasonal variation along Damodar River surface water quality, West Bengal, India
9	Satyabrata Sahoo	80688363	Ranking Search Results in Library Information Systems considering Popularity Ranking Factors: A Framework based on Single Valued Neutrosophic Sets
10	Koushik acharyya	49466758	Evaluation of Altman's "Z" Score Model's Reliability in Predicting Financial Distress in select Drug Manufacturers.



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11	Devastotra Poddar	85142125	FT-NIR for rapid, non-invasive detection of adulteration in ghee
12	Moumita Maity	82494712	Developing Sanskrit as an Object-Oriented Programming Language
13	Victry Samanta	23143115	Strategy of Fulfilling Nutritional Requirements of Village Adolescent Girls by Cheap and Commonly Available Fruits and Vegetables at Post Covid-19
14	Subrata Roy	81197030	Selecting Alternate Landfill Sites in Midnapore Municipality: A GIS Based AHP Study



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Discipline: **Social Science, IPR and Others**

Date: **14.01.2023**

Time: **10.00 am**

Venue: **Raja N.L.Khan Women's College, Midnapore**

15	Abhilasha Maity	54827964	Variation of Sediment Characters between Beach and Adjacent Dune: Study on Jaldha Beach
16	KOUSHIK MISTRI	64319334	Demographic and economic status mapping of slum area of small towns: A case study at Purulia Municipality of West Bengal
17	Sujata Bhowmick	58995623	Consequences of Awareness Intervention Program Depending On Theory Of Planned Behavior Regarding Routine Immunization And Mass Vaccination Among Tribal Community
18	KABERI MURMU	58811380	Socio-Economic Impacts on Health Status: A Study on Sabar Community in Tulibar Village, Chilkiharh, Jamboni, Jhargram
19	Sk Asraful Alam	71545350	Source to sink Sediment connectivity between Soil erosion hotspot and the major Dams in Damodar River Basin
20	MOUSUMI GANGULY	62182120	Women Reproductive Health: Role of Cultural Practices in India
21	Pritee Singha	36273070	Study on the Effects of Training on Physiological Variables of Female Football Players
22	Chumki Shikary	58875203	Urban-to-urban interaction and its impact on urban development of Purulia district, West Bengal
23	Mainak Ghosh	87644613	Impact SwasthyaSathi Project on Perceived Service Quality– A Study on Rural Healthcare of West Bengal
24	SOMRITA SINHA	92999257	Shifting Livelihood Practice to Non-farm activities leading towards Unsustainable Resource Management: Study in Padiha Village of Lalgah Gram Panchayat, Jhargram District, West Bengal, India



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25	Sourav Mukherjee	82250523	A SWAT-based approach on Determining Sediment Inflow and Volume Loss in the Reservoirs of Damodar River Basin.
26	Manasika Das	42446853	Role of plant growth promoting microbes in enhancing plant tolerance to heavy metals
27	PAPAN KUMAR HOR	69377174	Preparation of newly formulated rice fermented food with ameliorative properties against obesity



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Discipline: **Physiology**

Date: 13.01.2023 Time: 2.00 pm Venue: Raja N.L.Khan Women's College, Midnapore

Sl No	Name	Paper ID	Title
1	Dr. Kishalay Paria	35813635	Melanin and Vitamin D Can Inactivate Furin Protease for Preventing COVID-19 Infection
2	DIBYA PAL	14799336	Phyto-Therapeutic Potential of n-Butanol Fraction of Aloe vera (L.) In The Treatment of Diabetes and Diabetes-Induced Testicular Impairment: A Molecular Multi-Target Approach
3	BISWAJIT DAS	34280952	A Study on Multi-Drug Resistant Bacterial Isolates in Urinary Tract Infections
4	DEBABRATA GOSWAMI	61599379	LAB Associated Organism Ameliorates Oxidative Damage and Gastrointestinal Infections of Large Intestine Under Simulated Hypobaric Hypoxic Condition
5	PRADIP JANA	58822796	Computational Analysis and Structure Prediction of Propionate CoA Transferase in Gut Microbiota
6	SOUMYADIP MUKHOPADHYAY	68803011	A Review on Antifungal and Antibiofilmactivity of Ginger Derived Bioactive Agents 6-Shogaol, 8-Gingerol, 10-Gingerol Against Multidrug Resistance Pathogenic Fungus Candida auris and Candida albicans
7	PRABIR MONDAL	41688459	Antigonadal effect of Thevetia peruviana on male albino rat
8	Mousumi Manna	73222356	Molecular Variation of mecA Gene in Clinical Isolates of Methicillin-Resistant Staphylococcus aureus (MRSA) and Other Bacterial Agents
9	MOUSUMI MITRA	17800133	Ameliorative efficacy of green synthesised gold nanoparticles against inflammatory cytokines, reactive oxygen species and apoptosis in experimental rat model



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10	Sandipa Tripathi	60200541	Study on dimethoate hydrolase, a bioremediating amido hydrolase from <i>Sphingomonas wittichii</i> strain DC-6: An approach through bioinformatics
11	AAISHI ROY	27033005	Protective Efficacy of Hydro-Methanolic Extract of <i>Paederia foetida</i> Leaves on Cyproterone acetate (CPA) Induced Testicular Hypofunction in Rat
12	TANUSREE MONDAL	93100848	Hypo-Testicular Activity Assessment Of Different Seed Extract Of <i>Luffa acutangula</i> (L.) Roxb. In Albino Rat: An In-Vivo Investigation
13	Soumyadip Ghosh	62697528	Study on the Effects of Training on Anthropometric, Physical Fitness and Physiological Variables of Long Distance Runners
14	RATNABALI MAITY	82688443	Therapeutic Effect Of Hexane Fraction Of <i>Ayapana triplinervis</i> Leaves On Indomethacin Induced Gastric Ulcer



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Discipline: **Physiology**

Date: **14.01.2023**

Time: **10.00 am**

Venue: **Raja N.L.Khan Women's College, Midnapore**

15	Dipika Das	66277505	Study of Physical, Physiochemical and Functional Properties of Edible Mushroom Pleurotus Sajor-Caju: Cultivated on Different Types of Bed Materials
16	SUBRATA HAZRA	25028517	Identification of multi-drug resistant Pseudomonas aeruginosa for urinary tract infections (UTIs)
17	SAYAN JYOTI BERA	53183186	Study the Effects of Yoga on Anthropometric, Cardio-Respiratory Variables and Mental Health Status of Young Male and Female Volunteers
18	Sudeshna Banerjee	79333407	Life of Microswimmers at Low Reynolds Number Zone
19	ANUP JANA	22643844	A Detailed Study of the Solid Waste Dumping Areas of Midnapore Municipality and its Impact on Adjoining Dwelling Areas
20	Purna Nandi	86686475	Medicinal properties of Ganoderma lucidum in human health
21	SAGARIKA MUKHOPADHYA Y	33153243	Impact of Hydroxychloroquine on Liver Enzymes of Male Albino Rat
22	Suman Kalyan Khanra	85698912	Seasonal Dominance on the Morphometry of B. bengalensis from Paschim Medinipur District, West Bengal (INDIA)
23	Debamitra Sengupta	48247611	VARIOUS GENETIC DISORDERS AND THE USE OF DNA SEQUENCING
24	SUPARNA MAJUMDER	21424010	Effects of Full Cycle Pandemic on Psycho-Physiological Conditions of College Students in West Bengal, India



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25	Supriya Patra	94621649	A Review on Blood Cancer Detection Method
26	SURACHITA DAS	69024687	ANTIOXIDANT EFFECT OF BLACK RICE: AN OVERVIEW
27	PARAG RANJITA BERA	90558858	Ameliorative Effect of Lycopene on Chlorpyrifos Induced Hepatotoxicity and Nephrotoxicity in Male Albino Rat



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Discipline: **Engineering**

Date: **14.01.2023**

Time: **10.00 am**

Venue: **Raja N.L.Khan Women's College, Midnapore**

Sl No	Name	Paper ID	Title
1	Madhumita Dey	92390031	Fishery Waste Utilization for Biofuel Production
2	Abhishek Das	97472460	Hadoop in Data Science
3	DEBAYAN ROY	81332107	Process Selection for Hydroxyapatite Coated Prosthesis: an Emerging Technology in Biomaterials
4	Anish Sarkar	66977770	Efficacy of Deep-Learning approaches for Hyperspectral Image Classification
5	Souparna Majumdar	38546846	Stresses and Temperature during the turning of Super Duplex 2507 Stainless Steel: a Finite Element Analysis
6	Smriti Kana Pyne	57405838	Optimization of parameters for caffeic acid extraction from microalgae by supercritical carbon dioxide
7	SUSHOVAN KHATUA	19248393	IoT-based VANETs for disaster routing problems through Genetic Algorithm
8	SOURABH KUMAR DAS	39876303	VERIFICATION OF SHANON DECOMPOSITION THEOREM USING MULTIPLEXER IN DIGITAL ELECTRONICS
9	SUBHADIP MUKHERJEE	17290354	An Image Steganography Technique Based on DNA Encryption and LSB Substitution for Color Images



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Discipline: **Chemistry**

Date: **13.01.2023**

Time: **2.00 am** Venue: **Raja N.L.Khan Women's College, Midnapore**

Sl No	Name	Paper ID	Title
1	Dr Nimai Bar	85070967	Setting Proper Working Conditions of a Test Station for Electrochemical Impedance Spectroscopy Investigations of a Polymer Electrolyte Membrane Fuel Cell (PEMFCs)
2	Manik Das	40365980	Synthesis and crystal structure of two new novel Cu(II) Schiff base metal Complexes and one Ni(II) Schiff base metal complex along with their biomedical approach towards DNA Binding, HSA Binding and, Anticancer efficacy: A combined theoretical and experimental approach
3	Susmita Das	70290126	A novel Rhodamine-based biocompatible Schiff base Off– On” chemosensor for selective and colorimetric recognition of Zn(II) and Al(III): Illustration to the molecular logic gate and live cell images study
4	Dibyendu Satapathi	96375397	Designing and Synthesis of Coordination Complexes to Remove Toxic Metals (Cd, Hg) Resulting a Novel and New Series of μ -oxo Hetero-nuclear Coordination Complexes: An Application in Dye Degradation and Fabricated Schottky Device
5	SAHADEB PANJA	90696243	Impact of Different Stabilizers on the Physiochemical Behavior of Methanolic Extract of Acorus calamus Rhizome Loaded Nanostructured Lipid Carriers.
6	Malay Dolai	44353051	CO ₂ Fixation by Dimeric Tb(III)-complexes: Synthesis, Structure and Magnetism
7	Dr Suvendu Maity	26482118	Versatile Reaction of an Ambidentate and Flexidentate o-Phenylenediamine-Thiophene Derivative
8	Pranabendu Das	58866453	AIE active a novel Piperazine-based new biocompatible Schiff base chemosensor for easy and selective detection of Zn(II), Mg(II), Cl ⁻ ions,



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			and Picric acid in different solutions with their live cell image study
9	Manjushree Bera	97145519	A Size controlled green synthesis of silver nanoparticles by using Sour Spinach extract and their HSA binding efficacy and anticancer property study
10	Moumita Patra	69904327	Electronic structure and electrocatalysis by fused corroledimer
11	SHUBHAM RAY	16528766	Selective Zn(II) and Ni(II) sensing in pure aqueous and semi-aqueous medium via turn-on fluorescence response by a new Schiff base chemosensor: results to mononuclear Zn(II)/Ni(II) complexes having ATP detection ability in aqueous medium
12	Arindam Das	83591556	Inhibitory effect of natural alkaloid berberine on the lysozyme fibrillar assembly formation
13	SHUKDEB SING	31110443	Benzophenanthridine alkaloid sanguinarine inhibits lysozyme fibrillation
14	Habiba Sultana	37954682	Physicochemical studies on the interfacial and aggregation behavior of imidazolium -cholate and -deoxycholate in aqueous medium



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Discipline: **Chemistry**

Date: **14.01.2023**

Time: **10.00 am**

Venue: **Raja N.L.Khan Women's College, Midnapore**

15	Dr. Milan Shyamal	71515561	Aggregation-induced emission-based highly selective 'turn-off' fluorogenic chemosensor for robust quantification of explosive picric acid in aqueous and solid states
16	SOUMENDU BISOI	14443045	Structure-Properties Relationship for the Gas Transport Properties of Semifluorinated Poly(ether amide)s Containing Bulky Moiety
17	Dr. Soma Das	41570754	Production of Biosurfactant from Microorganism
18	RIYA PATHAK	31519899	Spectroscopic Analysis of the Interaction Between 2D-Layered Nanomaterials and Dyes
19	Dr. Kamal Kanti Bera	42515602	Pd Nanoparticles Supported Novel Quaternary Bi ₂ O ₂ CO ₃ /Bi ₂ MoO ₆ -CuO Heterojunction for Enhanced Photo-electrocatalytic Ethanol Oxidation
20	Dr. Hasibul Beg	18028243	RESPONSE OF GLOBAL REACTIVITY DESCRIPTORS IN SOME PROTEIN MOITIES: A COMPUTATIONAL STUDY
21	Ribhu Maity	62209592	Unveiling the catecholase activities and DNA binding interaction of mono-, di-, polymeric Cu(II) complexes derived from heterogeneous Schiff Base ligands
22	Dr. Chhabi Garai	23135860	Vesicular self-assembly of metal salts of natural triterpenoid corosolic acid
23	Anwasha Das	51282808	Designing of a Calixarene based drug carrier for Anagrelide anti-thrombocytic drug
24	Dr. Sangeeta Roy Chaudhuri	74189438	Anticancer Activity Organometallic Ruthenium Half Sandwich Complexes with Nitrogen & Sulphur containing Heterocyclic Ligands
25	Dr. Sk	39584550	A Short Review on Sulfur ylides mediated Stereoselective Synthesis of



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	Mohammad Aziz		Aziridines.
26	SUBHADIP MANDAL	19875962	Effect of Different Stabilizers on the Physicochemical Behaviours of Gemcitabine-Loaded Nanostructured Lipid Carriers



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Discipline: **Earth Science and Geoinformatics**

Date: **13.01.2023**

Time: **2.00 pm** Venue: **Raja N.L.Khan Women's College, Midnapore**

Sl No	Name	Paper ID	Title
1	KOUSHIK BEJ	59171291	Identification of Ground Water Potential Zones in Midnapore, Kharagpur in Paschim Midnapore district, West Bengal – with the use of AHP method and Remote Sensing & GIS Approaches
2	Amrit Kamila	27537713	Assessment of Diversity in Landscape Ecology in Parts of the Purba Medinipur Coastal District, West Bengal, with Geospatial Technology
3	Suman Das	53030776	Assessment of Land use Land cover dynamics and environmental impacts on the hard laterite soil zone of Jhargram districts using Geo-spatial techniques
4	JOYDEB SARDAR	58673329	Tidal Flat Wetland Ecosystem under threat of the Mangrove forest in the estuarine Coast of the Lower Ganga Delta with the application of Geospatial technology
5	Avik Saha	72999173	Retrieval of the Chla and TSM from Sentinel 3 OLCI of the adjacent areas of Digha and Rasulpur river mouth in the south-eastern parts of Bay of Bengal: A Geo-statistical and Geospatial approaches
6	Anitabha Ghosh	47482443	Assessment of groundwater potential zone in Kangsabati River Basin using Fuzzy-AHP and Frequency Ratio models
7	Soumik Saha	50304993	Application of deep learning and benchmark machine learning algorithms for landslide susceptibility modeling in the part of Garhwal Himalaya
8	Dr. Kishalay Paria	31110408	Nano-based geotextile can impart innovative ways of dam repairing
9	Piyasa Gayen	28210751	Variability of Meteorological Drought in South Western Part of West Bengal using Satellite Based Merged Rainfall Data



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10	Urmija Sengupta	19628774	Landslide Hazard Mapping using GIS at Kalimpong District
11	BISWAJIT BAICHAR	77237723	Estimation of Environmental Degradation with Remote Sensing and GIS Analysis: an application in the Medinipur city area
12	Dr. Somnath Rudra	42806201	The urban built-up land suitability analysis using MCDM techniques and different geo-statistical models: a study on Siliguri Municipal Corporation area
13	SUBRATA GHOSH	93670196	Analyzing the Urban Ecological Security of Kolkata Metropolitan Area: A new approach to forecasting the ecological health of the city
14	Arnab Saha	13462347	Assessment of Contamination Risks and Spatial Distribution Patterns of Arsenic and other Heavy Metals in the Surface Soil
15	Kartic Bera	85483022	Climate Risk analysis of Bengal's Dry-land area under Projected Climate Conditions



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Discipline: **Earth Science and Geoinformatics**

Date: **14.01.2023**

Time: **10.00 am**

Venue: **Raja N.L.Khan Women's College, Midnapore**

16	Md Hasanuzzaman	33164993	DSAS and CA-Markov model-based prediction of river bank erosion-accretion and LULC change
17	Sambhunath Roy	67228606	Assessment of LULC using Optical and SAR data and Random Forest model: A case study of Jhargram C.D. block, West Bengal
18	Sanchita Saha	13788397	An analytical study on urban liveability of Howrah Municipal Corporation using Geoinformatics
19	Nityananda Sar	82092854	Delineation of Flood Prone Zones in Keleghai Watershed, West Bengal: A Spatial Approach
20	Sudipa Sarkar	22164744	Around seven decades river course shifting and bank erosion susceptibility of river Mujnai
21	BISWAJIT MAITY	51299332	Quantifying heat island intensities over the urban surroundings: A case from a tropical urban-industrial area, India
22	Supriya Ghosh	49652044	Dynamics of Meander Geometry and Formation of Neck Cutoff of River Raidak-I within Himalayan Foreland Basin, India
23	Md Hasnine	31695561	Modelling of Sustainable and Suitable Land selection for Future Urban Development: a study around Kolkata city, India
24	DR. BALAI ADHIKARY	36652521	SEVERITY AND MANAGEMENT OF CYCLONE HAZARD: A STUDY AT EASTERN COAST OF INDIA.
25	GOUTAM KUMAR DAS	38323050	Estimation of surface soil moisture using multi-spectral and SAR satellite data: A case study of Bhagwanpur-I CD Block, Purba Medinipur, West Bengal.
26	DEBARATI BERA	68859014	Copula-based Bivariate Probabilistic Approach to Analyse Meteorological



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			Drought in Indian Gangetic Basin (1901-2021)
27	ARIJIT GHOSH	50023371	Hydro-geomorphological mapping of the Manbhum-Singbhum Plateau (Indian Plateau) for sustainable landuse planning and hazards management
28	Supriya Ghosh	83885440	Dynamics of Meander Geometry and Formation of Neck Cutoff of River Raidak-I within Himalayan Foreland Basin, India
29	Soumita Ghosh	95412470	Classification of Degraded Land and its Management, Purulia District, West Bengal



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Discipline: **Environmental Science**

Date: 13.01.2023 Time: 2.00 pm Venue: Raja N.L.Khan Women's College, Midnapore

Sl No	Name	Paper ID	Title
1	Sankar Narayan Sinha	64596661	Screening ,Isolation and Production of Extracellular Alkaline Lipase from a marine bacterial Isolate Bacillus sp. SNSKU5
2	Rupak Khamrai	32300772	E-waste management by microbes through bioleaching process for reused of valuable Metal
3	Khokan Naskar	94943146	Foraging Patterns of Ants in Semi-arid Area of West Bengal
4	Suprava Pakhira	87384643	GREEN SYNTHESIS OF SILVER NANOPARTICLES BY USING Terminalia arjuna BARK EXTRACT
5	Sujoy Mandal	42931140	Environmental Psychology: For a Convalescent Future Environment
6	Dr. Kishalay Paria	41628524	Myco-remediation of Heavy Metals from Waste Water
7	MOUMITA KUNDU	60334158	Changes in the channel morphology due to human intervention through construction of bridges in the Rupnarayan River, West Bengal
8	Palash Pan	31935074	Electricity production from chicken waste using Lysibacillus sp. as a biocatalyst in microbial fuel cell (MFC)
9	SUBHADEEP MONDAL	30785502	Production of ligninolytic enzyme of Fungal Origin and Evaluate Its Toxic Dye Degradative Potentiality
10	Kishalay Paria	75841218	Myco-remediation of Heavy Metals from Waste Water
11	JOYASHREE NAYAK	25071636	ISOLATION OF HEAVY METAL RESISTANT BACTERIA FROM DIFFERENT INDUSTRIES (IRON INDUSTRY AND THERMAL POWER PLANT) USING SOIL AND WATER SAMPLE)



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12	Priyanka Raul	85686126	In-silico Exploration of Organophosphorus Degrading Bacterium <i>Brevibacterium frigoritolerans</i> GD44 in Contaminated Soil
13	RAJA SAHA	36107911	Effects of bifenthrin pesticide on aquatic mollusc <i>Bellamyabengalensis</i>
14	ATANU DEY	35612797	Relative toxicity of lead and nickel on life history parameters of epigeic earthworm <i>Eisenia fetida</i> (Savigny, 1826)



5th Regional Science and Technology Congress, 2022-2023

Region 5: Purba Medinipur, Paschim Medinipur, and
Jhargram



List of papers selected for presentation in the 5th Regional Science and Technology Congress 2022-2023, Raja N.L.Khan Women's College (Autonomous), Midnapore-721102

Presenting authors are requested to note the following points.

1. A 'Plagiarism Undertaking' in the prescribed format has to be submitted before presentation.
2. Abstract ID is assigned to each paper for future reference.
3. Time and venue of presentation will be notified shortly.
4. Only the presenting author is entitled for registration.
5. Presenting author is requested to carry a valid photo identity card with him/ her.
6. Eight minutes will be allotted for each participant for presentation. Soft copy of the presentation has to be submitted during registration.

Discipline: **Environmental Science**

Date: **14.01.2023**

Time: **10.00 am**

Venue: **Raja N.L.Khan Women's College, Midnapore**

15	DR. SUMAN KUMAR HALDER	40745333	Estimation of Fungal Biomass in Relation with the Quantification of Chitin and Chitosan
16	Harekrishna Jana	84910136	Determination of potability and water index value of different drinking water collected from Purba and Paschim Midnapur, West Bengal, India
17	BAISAKHI CHAKRABORTY	42927293	Evaluation of soil heavy metal pollution with associated ecological and human health risk
18	Dr. Debabrata Das	38760266	Forest Resource of Southwest Bengal-A study on forest productivity and resource management
19	SOUMYA PRIYA CHAKRABORTY	69591618	Effects of cadmium chloride on freshwater mollusc, <i>Bellamyabengalensis</i>
20	Puspendu Shit	89104251	Optimized Biodegradation of Carcinogenic Fungicide Carbendazim by Endosymbiont of <i>Glyphidrilus tuberosis</i> from Agro-Ecosystem
21	Dibbakar Dutta	47521266	Urban Flooding in KMC and Its Responsible Factors: A GIS based study
22	ANWESHA BANERJEE	47638728	GIS-Based Assessment of Meteorological Drought and Agricultural Susceptibility in West Bengal
23	Aditi Upadhyay	49122738	Effects of the Thermal Power Plant on Aquatic Plant Species in Kolaghat, West Bengal
24	Mahabub Rabbani	44188243	Impacts of Thermal Power Plant Effluent on Terrestrial Plant Species in Kolaghat, West Bengal
25	SUNITI PRADHAN	37222838	ANTIBACTERIAL ACTIVITY OF SOME MEDICINAL PLANTS (Neem , Tulsi , Alovera , Curry)& SOME SPICES (Turmeric , Cumin) AGAINST PATHOGENIC BACTERIA
26	BINOY MONDAL	93411499	Decadal Shoreline Change at East Midnapore Coast from Haldi River to Boarder in West Bengal and Prediction for Future Shoreline Changes



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27	Sucheta Das	51475727	Role of plant growth promoting microbes in enhancing plant tolerance to heavy metals
28	Priyanka Sarangi	17451180	Soil Biodiversity: Challenges and Possibilities



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Discipline: **Medical Science**

Date: **14.01.2023**

Time: **10.00 am**

Venue: **Raja N.L.Khan Women's College, Midnapore**

Sl No	Name	Paper ID	Title
1	Shrabanti Pyne	18585633	Antidiabetic activity of volavetki (Panna microdon, Bleeker, 1849) Sea Fish oil v/s bata (Labeo bata, Hamilton, 1822) fresh water fish oil on experimentally induced Type 2 Diabetic Mellitus in Rats
2	Rashmi Mukherjee	99539719	Can Artificial Intelligence (AI) Predict COVID-19 using Chest X-Ray Imaging Signatures?
3	URMY BISWAS	24881123	Prevalence of β -lactamases among Escherichia coli and Klebsiella spp. isolates from poultry and cattle: An observational study from Midnapore, West Bengal
4	PUJA DAS	41363685	Contraceptive Efficacy Assessment Of Different Fractions Of Tinospora cordifolia (Willd.) Stem: An Approach Through Testicular Gametogenesis And Androgenesis
5	PAMPA LOHAR	12009609	Potent Extract Screening Of Leaves Of Ceasalpinia Pulcherrima (L.) Sw For Anti-Testicular Activity: A Preclinical Study On Male Albino Rat
6	Abhaya Dutta	97605627	Raman spectroscopic imaging-A novel technique in disease diagnosis
7	Sukriti Hazra	99522462	Pre-Clinical Study About Hypo-Testicular Activity Of Seed Of Areca catechu (Linn) In Fertile Albino Rat: Effective Extract Selection Study
8	SUDEEP MITRA	64984688	Alternative Prophylactic Strategy for COVID-19 Stress Management
9	Sova Dey	95202750	Evaluation of Antidiabetic and Antioxidative Efficacy of Root Tuber of Ipomoea mauritiana in Streptozotocin Induced Diabetic Male Albino Rat



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10	IPTESAM SULTANA	33609330	Therapeutic Efficacy of Green Apple on Obesity
11	Koushik Das	73136165	Urinary proteomics in diabetic kidney disease
12	PRADIP SAMANTA	89000583	In-vitro Antibacterial Activities of Green Synthesized Silver Nanoparticles from <i>Hygrophila auriculata</i>
13	TANISHA NAZ	36621134	Development of phytotherapy based treatment for combat COVID-19
14	NABARUN SASMAL	75705571	Serum Lipid Profiling of Oral Potentially Malignant Disorders: A Retrospective Study
15	Samashaptak	32023564	A CROSS-SECTIONAL OBSERVATIONAL STUDY ON PANDRIAL DEPENDANCE OF PHARMACODYNAMICS OF SULFONYLUREA AMONG ELDERLY DIABETICS
16	KALYANBRATA PAL	64953646	Evaluation of bioactive potentiality of carotenoids of crustacean shell origin
17	SUBHAM RAKSHIT	80614581	Evaluation of Biologically Extracted Chitosan on Cold-restraint Stress Induced Gastric Ulceration
18	Shreya Ghosh	13691669	Lycopene and its Dermatological effects
19	Dr. Suman Chakraborty	39079024	Phytochemical analysis of <i>Strychnos potatorum</i> seed and Double Blind Placebo Controlled Human Pathogenetic Trial (HPT) of <i>Strychnos potatorum</i> 6 - a new drug source in Homoeopathy