

3.5.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship during the year

Sl. No.	Title of the collaborative activity	Name of the collaborating agency with contact details	Name of the Participant	Year of collaboration	Duration	Page No.
1	Research	Institute of Neuroscience Kolkata [185/1, AJC Bose Road, Park Street, Mullick Bazaar, Kolkata - 700017]	Barnali Ray Basu	2022	5 Years	2 - 26
2	Research	Medical College and Hospital, Kolkata [88, College Street, Kolkata 700073]	Barnali Ray Basu	2022	5 Years	27 - 28
3	Visiting Associateship Programme	The Inter-University Centre for Astronomy and Astrophysics (IUCAA), Post Bag 4, Ganeshkhind, Savitribai Phule Pune University Campus, Pune 411 007, India. Tel: +91 20 2560 4100 Fax: +91 20 2560 4699	Sourav Mitra	August 01, 2018 to July 31, 2021	3 Years	29
4	Research	Dr. Suman Bhusan Chakraborty, Department of Zoology, University of Calcutta, 35 Ballygunge Circular Road, Kolkata 700019	Adity Sarbajna	2016	September, 2016 to till date	30
5	Heterogeneous Catalysis	Dr. S.M. Islam, Department of Chemistry, Kalyani University, Kalyani, West Bengal - 741235 Phone: 91-33-25828750 (O) [Ext. 305] Mob: 9231572961 Fax: 91-33-25828282 Email: manir65@rediffmail.com	Noor Salam	2020	September, 2020 to till date	31
6	Catalysis	Dr. Debasis Das, Department of Chemistry, University of Burdwan, Burdwan Rajbati, Raiganj, West Bengal 713104 Phone: 03422634975	Noor Salam	2020	October, 2020 to till date	32
7	Research	Department of Marine Science, University of Calcutta, 35, Ballygunge Circular Road, Ballygunge, Kolkata, West Bengal 700019	Tushar Kanti Saha	2018	5 years	33
8	Research Topic: INSTASpore: Instant detection of spore harbouring biofilm in dairy processing by fluorescence in situ hybridization (FISH) and implications for product quality enhancements and adoption of novel Atmospheric Cold Plasma (ACP) treatment for dairy products	Plasma Research Group, School of Biosystem and Food Engineering, University College Dublin	Debdeep Dasgupta	2019 - Till date	2 Years Ongoing	34 - 42
9	Software Training	Spoken Tutorial, IIT Bombay (http://spokentutorial.org)	Students of various Departments	2021-22	1 Year	43 - 50
10	Synthesis and Biological Analysis of Prostate - Specific Membrane Prodrug	Dr. Chelvam Venkatesh, Indian Institute of Technology Indore, Simrol, Indore - 453552, Phone +91 7316603122, Email: dorgoffice@iiti.ac.in	Sneha Dey (Semester IV Student)	12/5/2021	12/05/21 to 12/11/21	51
11	Internship	Tech Mehindra Limited, A-6, Sector-64. Noida. UP - 210301 Tel: +911204005000, +911204005001; Fax: +911204231926	Tulika Dhara (Student)	2021	40 days	52
12	Faculty Exchange Program	Sreegopal Banerjee College, Bagati Kantapur Rd, Mogra, Amodghata, West Bengal 712503 Phone: 03326844124	Manish Kanti Biswas	2021	19.07.21 - 20.07.21	53 - 54
13	Internship in Electronics Media	Asman TV (DN 12, 8th Floor, Salt Lake City, Sector 5, Kolkata - 700091 email- asmantvlive@gmail.com)	Student: 1. Ahana Nandi 2. Sushmita Dey 3. Sweta Chakraborty 4. Srimanti Chakraborty 5. Subhadeep Dey 6. Srilata Seal 7. Sandip Sarkar	2021	3 months (3rd Aug 2021 - 31st Oct 2021)	55 - 56
14	International Bilingual Webinar on Tribal Lifestyle: Literature-Culture-Anthropology-Linguistics (IBWTL) in collaboration with School of Languages & Linguistics, Jadavpur University	Patitpaban Pal, Editor-in-Chief, IBJCAL, ISSN 2581-4716	Anusrita Mandal	2021	25.09.2021 to 01.10.2021	57 - 60
15	Student Outreach Programme	Department of Philosophy, Lady Brabourne College, P-1/2, Suhrawardy Ave, Beniapurkur, Kolkata 700017	Nur Muhammad Gazi and Sraboni Das (Semester VI Students), Department of Philosophy	2022	2 Days	61



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## Memorandum of Understanding

between

Surendranath College (24/2 M.G Road, Kolkata,  
West Bengal 700009)

&

Institute of Neuroscience, Kolkata ( 185/1,  
Acharya Jagadish Chandra Bose Road, Park Street,  
Mullick Bazaar, Kolkata, West Bengal 700 017)

for Research Activities in the Relevant Fields

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## AGREEMENT FOR COLLABORATIVE PROJECT

THIS AGREEMENT made and entered into on this 27<sup>th</sup> April... Two Thousand & Twenty-two (27/04/2022) between

### (1) Surendranath College, Kolkata (SNC)

A college established in 1884 and runs as per rule of (Higher Education, Govt. of West Bengal and affiliated to Calcutta University, approved under University Grants Commission (U/S2f & U/S12(b), accredited by NAAC(2nd cycle) situated in 24/2 M. G. Road, Kolkata-700009, represented by its Principal Dr. Indranil Kar. (Hereinafter referred to as "SNC" which expression shall, unless repugnant to meaning or context mean and include its successors and assigns) of the FIRST PART;

AND

### (2) Institute of Neurosciences Kolkata (I-NK)

a charitable hospital for the treatment of neurological diseases formed as a Company (CIN: U85110WB2005NPL104948) holding a license u/s 25 of the Companies Act 1956, having its registered office and principle place of business located at 185/1, Acharya Jagadish Chandra Bose Road, Park Street, Mullick Bazaar, Kolkata, West Bengal 700 017, India represented by its Vice Chairman Dr Hrishikesh Kumar (hereinafter referred to as "I-NK" which expression shall mean and include its successors and assigns of the SECOND PART;

**Surendranath College** and **I-NK** are hereinafter referred to collectively in this Agreement as the "**Parties**" and individually as a "**Party**".

### (1) Recitals

#### WHEREAS:

- (a) Surendranath College is an educational institute imparting high quality, all -inclusive innovative quality teaching and research of global standard to all sections of the society. It offers a multilingual platform and best academic ambience in the Green-campus and committed to usher in socio-economic transformation. College provides central facility research laboratory, latest teaching gadgets and ICT tools and sophisticated laboratories, to make students readily acceptable to the modern-day world.
- (b) I-NK is a charitable single-specialty hospital of repute - specializing in the international-standard treatment of neurological diseases (diseases of the brain & spine) at affordable prices and also engaged in the research of the diseases of the nervous system including bench-to-bedside basic & clinical research focused on the brain & its diseases
- (c) India is like a microcosm of the world in terms of its diversity; religion, climate and ethnicity which leads to genetic variations in the populations. The diverse geo-

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cultural ecosystems of India with distinct ancestral populations are expected to possess distinctive DNA sequences. In a recent study the analysis of genome-wide SNP data revealed four ancestral components of Indian population that formed distinct clusters and clines, Indo-European (north India), Dravidian (south India), Tibeto-Burman (north-east India) and Austro-Asiatic (fragmented in east and central India; spoken exclusively by the tribals). The local ancestries reconstructed each individual's genome as a potential mosaic of the four components. In other words, different ancestral populations of India possess a large number of distinguishable haplotype blocks.


d) In spite of ample sunlight exposure, 70-100% of Indian population suffers from Vitamin D deficiency and circulating vit D concentrations are partially determined by genetic factors.

This fact has motivated to conduct genetic association between 25-hydroxyvitamin D (25[OH]D)-related genes with prevailing of diseases. Suboptimal vitD status has been associated with increasing severity of metabolic dysregulation (insulin resistance, hyperlipidemia, liver disease, and hypertension) in children and adults. Apart from these, it is also a major contributor of neurodegenerative diseases like Parkinson's Disease, through mutations and polymorphisms of genes linked to vitamin D production and absorption.

e) The original cause of PD remains unclear but alpha-synuclein aggregation is a typical feature of the disease. Among the various genes held responsible for PD, Vitamin D deficiency and vitamin D related genes' polymorphism have been found to be causing the disease of various severity but results vary in different ethnic populations, although there is no significant study in the Indian population. Some of the most remarkable associations of Vitamin D deficiency and vitamin D related genes include genes such as Hydroxyvitamin D-1-ahydroxylase (CYP27B1), vitD 25-hydroxylase (CYP2R1), vitD binding protein (DBP/GC), vitD receptor (VDR), vitD 24-hydroxylase (CYP24A1), 7-dehydrocholesterol reductase (DHCR7), retinoid X receptors (RXR), calcium-sensing receptor (CASR), NPY, FOXA2, SSTR4, and IVL. All associated genes can be categorized into (1) genes involved in the upstream production of 25(OH)-D; (2) genes involved in the downstream activation of vitD to the active ligand 25(OH)-D; (3) carrier proteins (which bind to the vitD molecule and the active ligand 25(OH)-D); (4) receptors and related co-activating proteins (affecting executive ability of the ligand-receptor); and (5) other second-order processes that affect the regulatory path ways such as calcium concentrations.

Polymorphism study on Indian population with diverse genetic consortium would help to detect the effect of vitamin D related genes on PD of Indian Population and help in early prediction or delaying the onset. It would also help to target the personalised therapeutic interventions accordingly.

(d) In view of I-NK being routinely engaged in research of various diseases/disorders of the nervous system including those pertaining to PD – it has the requisite expertise, consultants, infrastructure and access to patients suffering from the aforementioned disorders and as such it is suitably placed to obtain the swab sample for DNA isolation to study the genetic profile of Vit D in study population and testing the





requisite blood parameters of those of its patients (from OPD and/or IPD) who suffer from the PD related neuro-degeneration and thus help contribute to the said research

- (e) Surendranath College processes the necessary technical expertise in the basic research and Genetic profiling to generate database of Vit D metabolism related gene from PD patient's cohort at I-NK.
- (f) Both the parties find it in their mutual interest to collaborate on a research project intended to explore the ethnicity based genetic profiling of Vit D in that context have deemed it expedient to reduce to writing the terms and conditions of collaboration pertaining, *inter-alia*, to contribution of resources, carrying out the requisite research, sharing of IP & publication rights arising from such research

**NOW THEREFORE, in consideration of the mutual promises of the parties hereinafter set forth, and for other good and valuable consideration it is hereby agreed by and between the parties hereto:**

**(2) Scope of the Agreement**

**(a) Scope:**

This agreement details the terms and conditions, financial arrangements, modalities of trials, collaboration, intellectual property rights, responsibilities and obligations of each party pertaining to the collaborative project, as aforesaid, jointly conceived by the parties hereto.

**(b) Definitions**

"IPR" means all **patents**, patent applications, as well as other forms of statutory protection rights and **copyrights**.

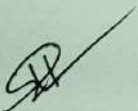
"Results" means (regardless if protected or protectable by IPR) any and all results, methods, processes, know-how, proprietary information, technology, designs, software (object code and source code), inventions, innovations and improvements made by either party and/or other personnel engaged by a party during the performance of tasks within the Work (to include any IPR resulting therefrom) but in any case, excluding Patient Data

"Work" means collectively any and all work, services, contributions, investigations etc. carried out under this Agreement.

**(c) Name of the Project**

**"Association of Genetic Polymorphism of Vitamin D Related genes with Parkinson's Disease"**

The name of the project: "Association of Genetic Polymorphism of Vitamin D Related genes with Parkinson's Disease" For the sake of convenience & brevity in reference – the said project may also be referred to as "PD-VitD Gen-Polymorph" or merely as the



**"Project"**

**(d) Work-Stages**

(i) The project implementation would broadly involve the following work (stated in greater detail in the attached protocol):

- Recruitment of Clinically confirmed PD patients following the inclusion/exclusion criteria.
- Nutritional survey of PD patients.
- Measurements of some related anthropometric parameters of PD patients.
- Collection of swab/saliva from such patients for study of genetic study.
- Collection of blood from such patients for study of some biochemical parameters.

**(ii) Distribution of work-stages between parties:**

- The entire work as enumerated above is divisible into distinct tasks such that the said tasks can be allocated to one or the other parties and none of the tasks are overlapping or common to both parties. The work follows a natural line of progression and the initial stages of the work would be undertaken by SNCin collaboration with the IN-K
- Execution & associated responsibility of the entire work, as enumerated above, is to be distributed between either of the parties as agreed upon mutually and based on their respective expertise, skill-sets & domain-knowledge and no party is to be held responsible for achieving deadlines, milestones, results or obligations and liabilities falling within or associated with or relatable to the scope of work of the other party.
- For the removal of doubts, both parties hereby agree - that the present agreement has been executed merely with the intent to collaborate for a common project objective as enumerated herein and each party would be responsible solely for work undertaken by it and as such all obligations, compliances, liabilities befalling a party would be as are attributable/relatable to the part of the work undertaken by that party.
- Segregation of work-stages as being attributable to one or the other party is enumerated under clause (4) "Obligation of Parties"
- Necessary regulatory & statutory clearances involved would be obtained by the parties (in respect of the part of the research work undertaken by them) from the Regulatory/Statutory bodies in India failing which the said projects of intermediately stages therein would be not be taken up for implementation.

**(iii) The objective of the Project are:**

Vitamin D insufficiency was seen in patients with Parkinson's disease (PD) irrespective of the prevalence of sunlight and outdoor activities. As per current research and understanding- the way of association of PD with Vitamin D profile is not entirely known and there is no significant study in this area on Indian population.





India being a tropical country has adequate sunshine. Most of the Indian population live in areas with adequate sunlight throughout the year and are expected to have adequate Vitamin D. Contrary to this, the prevalence of Vitamin D deficiency is quite rampant in India. In addition to that the COVID pandemic compelled citizens, specifically senior citizens to restrict outdoor activities that further exaggerates the situation. Here the epigenetic crosstalk with Vitamin D modulation genes among Indian PD population demands the deeper investigation. Our findings on genetic profiling of Vitamin D of PD may deepen the understanding and provide information of our ethnic population that might throw light on the direction of future research on drug designing and strategies for the screening, prevention, and individualized treatment of PD patients.

**In this backdrop - towards understanding the disorder better in Indian population – the objective of the Project would be:**

To investigate the correlation of candidate SNPs in vitamin D receptor, Vitamin binding protein and genes of its metabolic pathways (VDR, GC, CYP2R1, CYP24A1, and CYP27B1) with the risk of PD among the Indian population.

**(3) Representation/Warranties**

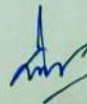
**(i) General**

Each Party represents and warrants to the other Party as on the date of the execution of this agreement, that:

- It has all requisite power and authority to execute, deliver and perform this agreement as per the terms and conditions contained herein and that this agreement has been validly executed and delivered (through its respective authorized signatories who have signed this agreement) and constitutes a legal, valid and binding obligation on each Party.
- The execution, delivery and performance of this agreement does not in any way conflict or violate any provision of any statute or any other contract applicable to each Party and that each party has no outstanding commitments, liabilities or obligations, contractual or otherwise, or any existing, pending or threatened litigation or other proceeding which would in any material respect conflict with or impede its ability and right to enter into this agreement or fulfill any and all of its obligations hereunder, or to conduct the business contemplated herein.

**(ii) Specific**

- Both parties represents that all statutory compliances, under all applicable laws/regulations/ordinances – whether commercial in nature or pertaining to the specific services contributed by them and all required licenses, permits, licenses and certificates as may be required under any Central, State or Local Laws –





pertaining to the services/obligations provided by/on part of the parties are in place and shall be managed/renewed & kept operative by them throughout the tenure of this agreement

- Both parties represent & warrant that they have, and will ensure the continued availability of necessary expertise, resources with the requisite skill-sets and other relevant infrastructure and all other requisite supplies and arrangements including the logistics in place - to perform their duties & obligations under this agreement

The above representations and warranties shall be continuing and deemed to be repeated as long as this agreement is in force.

#### **(4) Obligation of the Parties**

##### **(i) I-NK's specific obligation**

###### **● The scope of work to be executed by I-NK would be**

- Recruitment of clinically confirmed PD patients following the inclusion/exclusion criteria
- Collection of blood from such patients.

*[ Refer clause 2(d) and the attached copy of protocol for greater details]*

- In case I-NK is required to obtain clearances/approvals from regulatory bodies/ethical committees for the work to be undertaken by it – the same shall be obtained by it and at its own cost before undertaking the research (or during its course – if a need for additional clearances/approvals arise). Both the parties agree to abide by the rulings of such bodies/ethical committees as binding.
- I-NK would be required to maintain the necessary patient-related & other records pertaining to that part of the research related work as it undertaken by it as its share and responsibility

##### **(ii) SNC's specific obligations:**

- The scope of work to be performed by SNC would,
- SNC's scope of work would involve:
  - Collection of general and nutrition related data of PD patients recruited / nominated for the purpose by IN-K from OPD of IN-K
  - Collection of anthropometric data of PD patients recruited / nominated for the purpose by IN-K from OPD of IN-K by Bioimpedance Analyser(BIA) from OPD of IN-K
  - Collection of swab/saliva from PD patients recruited / nominated for the purpose by IN-K from OPD of I-NK for genetic study.

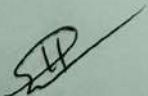
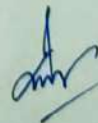
*[ Refer clause 2(d) and the attached copy of protocol for greater details]*



- In case SNC is required to obtain clearances/approvals from regulatory bodies/ethical committees for the work to be undertaken by it – the same shall be obtained by it and at its own cost before undertaking the research (or during its course – if a need for additional clearances/approvals arise). Both the parties agree to abide by the rulings of such bodies/ethical committees as binding.
- SNC would be required to maintain the necessary patient-related & other records pertaining to that part of the research related work as it undertaken by it as its share and responsibility

#### **Obligations common to both parties**

- Each party, in respect of the work allocated & undertaken by it, would be responsible to fund all the direct/indirect cost involved at all the stages of the Project. Each party would also ensure that necessary capital is introduced for the smooth execution of the Project
- Each party would be, in general, responsible for the scientific & technical conduct, supervision & implementation pertaining to the scope of work undertaken by it
- Each party would contribute towards the development of Protocol involved for the research
- Both the parties agree not to undertake any act in the execution of this agreement which would otherwise be construed as one which cannot be undertaken unless the project is subjected to regulations & clearances applicable to research of the type being undertaken under this agreement. In the event, at any time during the tenure of the project, it transpires that any such act cannot be fenced from the applicability of the regulatory compliance(s) – then both the parties undertake to halt the project proceedings and to obtain the necessary clearances before resuming the project.
- A Monitoring Committee would be formed by drawing equal representatives from both parties nominated by the respective institutions involved in the 'Project', to access and evaluate the development / progress, of the project
- Each party, if need be, would co-ordinate & assist the other party to help obtain their respective clearances, licenses, approvals etc. from the regulatory bodies (so however the costs involved would be borne by the party on whom the responsibility befalls to obtain such clearances etc.)
- The data generated by the work undertaken by each party would be duly processed and analyzed and shared with the other party in a manner to be determined mutually by both parties.

- Patient records, individually maintained by the parties in respect of their respective share of work – may be required to be integrated and each party would assist & contribute towards such effort equally. The final set of records would be retained by both parties involved in the 'Project' with all record keeping & data-protection responsibilities associated therewith – so however the anyparty would have the right to access, make copies and use such data for its own internal requirements & other projects without any restrictions , terms & conditions , save and (accept?)that reproduction of such data for reporting/publishing etc. would always be in anonymous format (i.e. without adversely affecting the confidentiality norms)
- Each party would permit the other party's monitoring team to have access to the respective party's research-site and to observe/monitor the conduct of the work researched upon at such site
- Both the parties would work towards a general consensus in planning, decision-making and other functional aspects of the project in the spirit of a collaborative effort. Both the parties would engage themselves diligently & sincerely in the execution of their respective obligations so as not to compromise on quality and avoid delays. The respective obligations of the parties would be subject to force-majeure.
- The parties shall undertake measures to ensure that the staff & consultants associated with the project would keep the project related information confidential. Further the parties shall ensure that each would be in a position to immediately acquire the rights pertaining to prosecution / maintenance of IPR, if any, of its employees/other personnel/consultant deployed for the purpose of this agreement and that, as a matter of abundant precaution, any employee and/or other personnel or consultant who has a right to refuse disclosure of any invention and/or other result to its employer will be involved in the project only after submitting a declaration pursuant to which the respective employee or other personnel or consultant declares a waiver of such right towards the respective employer
- Either party shall take all reasonable steps to mitigate any losses, damages or progression of events which may lead to any untoward adverse consequences by taking remedial action within its control (regardless of whether it is able to ensure prior-intimation to the other party of such action undertaken in good faith).

#### **(5) Employment of Staff**

- It shall be the responsibility of each party to appoint suitable staff to oversee the project and in no case would any direct/indirect/consequential liability arising out of the employment contract of such staff be ascribed to the other party at any time.



- The employees, agents and contractors of each party are solely the employees, agents or contractors of such party and shall not be considered to be the employees, agents or contractors of the other party. In particular no party would not be considered responsible for any liabilities of the other party arising in favour of such employees/agents/contractors or any other person - on account of or in course of the execution of this agreement or at any time thereafter

## (6) Performance of the Research and Regulatory Approvals

### (i) Research

Conformance with Law and accepted practice: The conduct of the research would be in accordance with:

- the agreed Protocol;
- Good Clinical Practice (GCP) including the International Conference for Harmonization (ICH) GCP;
- the Declaration of Helsinki of the World Medical Association, "Ethical Principles for Medical Research Involving Human Subjects";
- National Ethical Guidelines For biomedical and health research Involving human participants (brought out by Indian Council of Medical Research "ICMR", 2017)
- any applicable direction received from a Regulatory Authority (like Drug Controller General of India) or Ethics Committee etc. having jurisdiction over the Project;
- any "**Applicable Law(s)**" being hereinafter defined as: all central/ state, and local directives, laws, rules including but not limited to law governing clinical trials/research of drugs/devices – such as Drugs & Cosmetics Act 1940, New Drugs & Clinical Trial Rules, 2019, Medical Devices Rules, 2017 etc. , data protection laws and rules, regulations, orders, published guidelines, operating procedures applicable to the Project including but not limited to, legislation applicable to clinical studies;
- A copy of the agreed upon Protocol is attached herewith

For the removal of doubts – whereas both parties would in general ensure compliance with laws/practices to the extent the same are generic, applicable to the project and equally applicable to both parties – the responsibility & obligation to adhere to a particular set of laws & accepted practices (or part thereof) – would befall on the party undertaking such part of the work to which such laws/practices are specifically applicable. Any obligation, loss, damage, liability, claims ('consequence') whether arising due to any adverse event or on account of non-compliance with any such law/accepted practice specifically applicable to the work undertaken by one of the parties would solely befall on such party and the said party would have no recourse to the other party to mitigate/share liability/cost of such consequence and would be

required to indemnify the other party of any such consequence if it is borne/shared by the other party

**(ii) Equipment**

No equipment (including software) is intended to be shared by the parties.

**(iii) Academic Research**

- The trial is proposed to be taken up as a "biomedical and health research"<sup>1</sup> i.e., research including studies on basic, applied and operational research or clinical research, designed primarily to increase scientific knowledge about diseases and conditions (physical or socio-behavioral); their detection and cause; and evolving strategies for health promotion, prevention, or amelioration of disease and rehabilitation. Such research does not include clinical trial as defined under applicable laws<sup>1</sup>.
- Accordingly – the parties understand that no approval/permission from the Central Licensing Authority (under law governing clinical trials of drugs/devices etc<sup>1</sup>) would be required to conduct such a study.

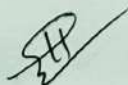
However, in case approval/permission from any regulatory (central/state licensing) authorities (under law governing clinical trials of drugs/devices) is required - to conduct the research – the said research proceedings shall not commence unless such approval is obtained (or continued, if the need for such approval arises during an intermediary stage of research, unless such approval is obtained and the project would be kept in abeyance till such time)

- For the removal of doubts, it is agreed by & between both the parties that there would be no recruitment of trial-subjects by I-NK *specifically* for the academic clinical study and the patient related activities & data would be processed from the patients (evaluated under Inclusion/Exclusion criteria determined by the parties) who are routinely treated at I-NK for PD.
- Any Milestones/Deliverables/Timelines for the academic research – would be subject to availability of eligible patients meeting the relevant criteria. Where however patients (Trial-subjects) are required to be specifically recruited for the project by any party – then all the costs, responsibilities and the fallouts (including claims for damages/loss medical management of subjects, compensation for injuries to them, consideration payable to them for participating in trials and such like) - associated with carrying out such precursor trials would be that of the party recruiting such trial-subjects

**(iv) Site:**

The research would be conducted at:

- I-NK's site: i.e., at 185/1 A.J.C Bose Road, Kolkata 700 017 or any of its other sites of operation in Kolkata – in respect of work to be undertaken by I-NK and at



- SNCsite i.e.at 24/2 M. G Road, Kolkata-700009 – in respect of work to be undertaken by SNC.

Either party (or its authorized representatives) shall have complete & unrestricted right to visit the site(s) where the project (or any aspect of it) is carried out

**(v) Miscellaneous:**

**Other Approvals:**

Notwithstanding the aforesaid, other approvals/sanctions/licenses required for the research from any other regulatory bodies (i.e., other than those under law governing clinical trials of drugs/devices) including Ethics Committees (of each party) - would be duly obtained before commencement of the research

**Insurance:**

Both parties would ensure that appropriate and adequate professional indemnity insurance to cover claims or damages for which they may be liable under this Agreement is in place. Each party may ensure the Trial Subjects recruited by it at the time research starts as per the Applicable Laws

**(vi) Post-Trial**

Both parties would be responsible for all Post-trial compliances & obligations if the same are required to be or chosen to be taken up jointly by sharing the costs involved

**(7) Financial Arrangements**

This agreement envisages the following in the context of the project:

**(i) General understanding**

- Each party would be required to bear the costs of the research work in respect of which it has specifically undertaken the responsibility. In no case would either party be required to cross-sponsor the costs incurred by the other party (in respect of the work specifically undertaken by such other party) at any stage of the research.
- Each party would be required to ensure the requisite funding for that part of the research project as it undertaken by it. The said funds would be introduced in such quantum and stages as would ensure the smooth functioning & conclusion of the project. In particular the project cannot be abandoned / shelved at any point in time for lack of funding without the mutual consent of the parties
- Investigators will seek for a funding.

**(ii) INK's Contributions**



▪ I-NK's contribution would be by way of:

- undertaking the responsibility of scientific & technical conduct, supervision & implementation - of the academic clinical research to the extent undertaken by it
- use of its expertise, infrastructure, site, equipment and the services of its specialized Consultants in the context of the part of the research undertaken by it (all at its own cost & expense)
- The provision of aforesaid technical inputs by I-NK (*i.e., conduct of the academic research and other contribution (by way of making available the use of the site, expertise, specialized knowledge, and deputation of specialized consultants and patient base)*) would be against the following consideration:

Rights to:

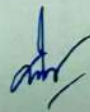
- Technical inputs to be provided by SNC and sharing of data/results for a joint conclusion
- Equal share in IPR (pertaining to the result of the research),
- Publication (elaborated under a separate clause),
- However, if the project is abandoned/shelved at any time at the instance of or for a cause attributable to SNC – the costs incurred by I-NK till such point in time would be compensated by SNC

(iii) **SNC's Contributions**

- undertaking the responsibility of scientific & technical conduct, supervision & implementation - of the academic clinical research to the extent undertaken by it
- use of its expertise, infrastructure, site, equipment and the services of its specialized Consultants in the context of the part of the research undertaken by it (all at its own cost & expense)
- The provision of aforesaid technical inputs by SNC(*i.e., conduct of the academic research and other contribution (by way of making available the use of the site, expertise, specialized knowledge, and deputation of specialized consultants and patient base)*) would be against the following consideration:

Rights to:

- Technical inputs to be provided by I-NK and sharing of data/results for a joint conclusion
- Equal share in IPR (pertaining to the result of the research),
- Publication (elaborated under a separate clause),



- However, if the project is abandoned/shelved at any time at the instance of or for a cause attributable to I-NK – the costs incurred by SNC till such point in time would be compensated by I-NK

#### **(8) Duration of the Project**

- The Research state of the project will be initially for **3years** from the date this agreement is signed by the parties and need for its extension, if any will be reviewed by mutual agreement between the parties. However, it would be the endeavor of both parties to complete the Research within the stipulated period and in no case would the Research stage be extended beyond **5years**.
- In case the parties feel that it is desirable to undertake further research commitment the parties will execute a supplementary agreement laying down the terms, conditions and financial arrangements of such further research work and sharing of the intellectual property right generated by further work.

#### **(9) Completion**

- The Research stage envisaged herein shall be deemed to have been successfully completed, as assessed by the Monitoring Committee.
- In case, during the tenure of the Research stage, it is found that the project is not likely to lead to successful completion, both the parties hereto can jointly decide to abandon the project prematurely. In case of premature abandonment of the project, the assets created from the project money would be returned to the party which has contributed for the same

#### **(10) Results of the Project**

##### **(i) IPR**

It is the responsibility of I-NK & SNC to jointly protect any intellectual property rights (IPRs) that may result from the project and utilize the IPR or license the same to other parties as per mutually agreed terms and conditions.

##### **(ii) Joint IPR**

- The intellectual property generated know-how, technology, discovery, results or patentable invention etc. generated jointly in the course of the Project shall be the joint property of SNC & INK. as well as researchers of both the institute involved. If such discovery is patentable, the patents will be jointly filed by the SNC & INK. The income/royalty obtained by exploiting IPR, if any, shall be shared by I-NK & SNC accordingly. Both parties may nominate persons responsible, if any for the filing IPR, it's prosecution and maintenance conforming the regulations and as added beneficiaries to the IPR, with the rights of the IPR resting on the parties involved in the 'Project'.

- Each party shall render to the other all reasonable assistance and shall give all confirmations, statements etc. and shall take all reasonable steps necessary for the joint filing for, prosecution and maintenance of IPR.
- Further the parties shall ensure that each would be in a position to immediately acquire the rights pertaining to prosecution / maintenance of IPR, if any, of its employees/other personnel/consultant deployed for the purpose of this agreement and that, as a matter of abundant precaution, any employee and/or other personnel or consultant who has a right to refuse disclosure of any invention and/or other result to its employer will be involved in the project only after submitting a declaration pursuant to which the respective employee or other personnel or consultant declares a waiver of such right towards the respective employer
- The procedural formalities for securing and maintaining the intellectual property rights/patents, if any, in India shall be the responsibility of both parties and the expenditure incurred thereon shall be borne by them equally. The question of whether or not IPRs should be secured and the territory shall be decided by I-NK & SNC depending upon the commercial and economic utility of the IPR.
- None of the parties hereto shall file any exclusive claim for seeking the IPRs in its own name or in the name of its associates on the pleas of having affected any improvement / modifications (e.g., patents of addition / separate application) upon the intellectual property generated in the project.
- **Background IPR**  
Nothing in this agreement shall affect the ownership of any background intellectual property (being any intellectual property owned or controlled by a Party prior to the commencement of the Project or generated by a Party outside the scope of the Project) used in the implementation of the Project and each party would continue to own & exercise these rights.

#### (11) **Publication / Media**

- The parties hereto shall consult each other for any publication/ reports in any form of media- in respect of the project. These publications / media reports & outages shall state the names of agreed research workers as authors, and it shall also be duly acknowledged - that the work had been carried out under the collaborative effort of both parties. Right to publish in Scientific Journals etc. would not vest exclusively with any party.
- One Party shall furnish the other Party with a copy of any proposed publication. Within fifteen (15) days of receipt, the other Party shall notify in writing if such proposed publication includes other Party's Confidential Information or is related to any potential patent rights.





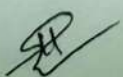

- Either party shall have the right to require amendments to any proposed presentation or publication by the other party on reasonable grounds including without limitation:
  - to ensure the accuracy of the presentation or publication;
  - to ensure that proprietary or confidential information is not inadvertently divulged;
  - to enable intellectual property rights to be secured;
  - to enable relevant supplementary information to be provided.
- If no communication is received within the prescribed time, it shall be deemed as approved for publication. One Party may request the other Party to delay publishing such proposed publication for a maximum of twenty-one days (21) from its receipt of the proposed publication in order to protect the potential patentability of any invention described therein, if any. The Parties shall be given acknowledgement and credits in respect of their contributions to the Project in any publication resulting from this Agreement.

## **(12) Confidentiality**

- All information's, data, trade secrets, privileged records and other confidential or proprietary information (including but not limited to the Protocol, Case Report Forms (CRF), Passwords – hereinafter "information") disclosed / shared between parties or its representatives, project staff shall be treated as confidential.
- During the tenure of the Agreement and during such extended period/s as agreed upon, I-NK & SNC undertake on their behalf and on behalf of their employees/representatives/associates to maintain strict confidentiality and prevent disclosure thereof, of all or any part of the information and data exchanged/generated pertaining to the project under this Agreement for any purpose other than in accordance with this Agreement or prior written consent of the parties to the Agreement.
- The confidentiality obligations set out above shall not apply to Information which, at the time of disclosure, was in the public domain or thereafter becomes part of the public domain otherwise than by the act or omission of the parties or was in its possession prior to its disclosure by a party or that said Information, its collection or creation did not occur during or in connection with this

## **(13) Effective Date, Duration, Termination of the Agreement**

- The Agreement shall be effective from the date of signing and shall remain in force for a period of 5 years from the said date and may be extended on the mutual understanding of the both parties.
- During the tenure of the Agreement, parties hereto can terminate the Agreement either for breach of any of the terms and conditions of this Agreement or otherwise (without citing any cause) by giving three months' notice in writing to the defaulting party.




Failure of either party to terminate the Agreement on account of breach or default by the other shall not constitute a waiver of that party's right to terminate this Agreement.

- Upon termination:
  - either Party shall forthwith hand over to the other Party all documents, material and any other property belonging to the other Party that may be in the possession of the Party or any of its employees or agents;
  - each Party shall immediately pay all pending fees or other amounts due to the other Party under this Agreement.
  - The financial settlement shall take into consideration not only the expenditure incurred but also the expenditure committed by the parties hereto.
- Except where the research is terminated by way of mutual consensus between the parties based on the reasonable belief of both the parties - that the objective of the research cannot be achieved for technical, economical and/or clinical reasons or where the research activities have to be halted on account of any statutory/regulatory restrictions, embargos, prohibitions etc. - the termination of this agreement shall be without prejudice to any rights and liabilities which may have accrued up to the date on which the termination takes effect
- *The following provisions shall survive the termination or expiry of this Agreement: provisions pertaining to Intellectual Property, Publications, Data Privacy/Confidentiality, as well as any other provisions which by their terms are understood to survive the termination or expiry of this Agreement, including compliance with applicable laws*

#### (14) Exclusive Agreement

Each of the parties hereby agree and acknowledges that this is an exclusive agreement and that it places restrictions on the other party from entering into similar arrangements with parties with regard to the same or similar research project

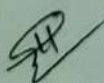
#### (15) Indemnity / Liability

##### (a) Indemnity:

Each party (for the purposes of this clause "the **Indemnifier**") agrees to indemnify (hold harmless & protected from liability) and keep indemnified the other party its Directors/Research-staff/Consultants and each of them (in this Clause "the Indemnified"), from and against:

- all loss, damage or injury, demands, liabilities which may arise to the Indemnified; and
- all actions, costs, claims, charges and expenses whatsoever which may be brought or made or claimed against the Indemnified;

arising out of, resulting from, or in connection with the obligation, duties, actions, performance of the Indemnifier under this contract/agreement (including provisions relating to IPR) **except indirect or consequential losses, costs, damages, demands, liabilities etc whatsoever, arising other than on account of willful or deliberate actions/omissions of the Indemnifier or misrepresentation by the Indemnifier or**





its employees, agents or contractors in the performance of its obligations under the provisions of this Agreement

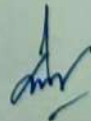
However, each party would be responsible to the other for all **direct, indirect & consequential costs, losses, damages, demands, liabilities, penal consequences whatsoever** (referred to herein for short as "liability") arising out of, resulting from, or in connection with the obligation, duties, performance under this contract/agreement (including provisions relating to IPR) in the following circumstances:

- the liability arises on account of non-adherence/violation of applicable statute(s) or not holding or not renewing applicable licenses, permits, approvals required for performance under this agreement
- Inaccurate or untrue representations & warranties
- the suspension/cessation of performance (at variance with the terms contained in this agreement)
- Violation of Data-Privacy/Confidentiality norms
- IPR Infringement related issues/claims by third parties in respect of Background IP's of a party (used in the research)
- representative of a party not having the authority to enter into this contract & execute the same so as to bind the parties,

For the removal of doubts each of the parties would have **no liabilities** befalling it under this agreement in the following cases:

- Claims by Employees/personnel of the other party
- Financial commitments by a party of any nature / quantum during any of the stages of the Project or financial commitments to third-parties in connection with the project
- Liabilities claimed against I-NK on account of claims of IPR infringement pertaining to the stem-cell technology applied by SNC and used in the project by it and in respect of which the background IPR belongs to SNC, or any other matter not relatable to the project.
- SNC will, in its sole responsibility, decide on the application of appropriate therapeutic or diagnostic techniques and shall apply such techniques in its sole responsibility. SNC shall indemnify, defend and hold harmless I-NK and/or its respective successors from any and all direct and/or indirect liability, damage, loss, or expense imposed upon it by third parties due to the application of any such therapeutic or diagnostic technique.
- Each party shall be liable for personal injury for which it can be held responsible in accordance with the applicable legal regulations

Each party agrees that damages may not be an adequate remedy and thus, the other party shall be entitled to seek an injunction, restraining order, right for recovery, suit for specific performance or such other equitable relief as a court of competent jurisdiction may deem necessary or appropriate to restrain a party from committing any violation or enforce the performance of the covenants, conditions, representations and obligations contained hereunder.





**(16) Data/Records:**

- The Parties acknowledge that the Project may involve the sharing of personal and/or sensitive data for the purposes of managing or conducting the Project.
- The collection and processing of Research Data (meaning any patient-related data generated by each party while executing its scope of work under this agreement, including personal data concerning the Trial Subjects (such as gender, age, health status, etc.) and the Trial Staff shall be done by a party in whose scope of work it falls and shared with the other party only and shall preferably be anonymized. Each party shall be responsible for managing access to the Research Data in its possession or control and scope of work. Research Data, if shared by a party with the other party must be kept confidential. It shall not be disclosed or transferred to any third party without prior written approval of the first party sharing such data. Both parties shall implement appropriate administrative, technical and physical security measures to protect personal data using current industry best practices. Personal data will be kept only for the period necessary to fulfill the purposes of the collection unless a longer retention period is required or permitted by Applicable Laws. Research Data may be disclosed where required by Applicable Law or when requested by a data protection authority.
- The manner, duration and location of keeping complete & accurate records pertaining to any aspect of the project shall be decided by the parties mutually, so however either party would have complete & unrestricted and permission-free access to the same at all points in time. The said records shall not be disposed off unilaterally by any party without mutual consensus.

**(17) Force Majeure**

Neither party shall be held responsible for non-fulfillment of their respective obligations under this Agreement due to the exigency of one or more of the force majeure events such as but not limited to acts of God, War, Flood, Earthquakes, Strikes not confined to the premises of the party, Lockouts beyond the control of the party claiming force majeure, Epidemics/Pandemics, Riots, Civil Commotions - provided on the occurrence and cessation of any such event the party affected thereby shall give a notice in writing to the other party within one month of such occurrence or cessation. If the force majeure conditions continue beyond six months, the parties shall jointly decide about the future course of action.

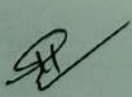
**(18) Miscellaneous**

**(a) Nominated Contacts**

Both parties shall provide each-other with a list of its authorized personnel deputed to liaise along with their designation and qualifications.

**(b) Governing Law:**

This Agreement shall be governed by and construed in accordance with the laws of India and the courts at Kolkata shall have exclusive jurisdiction on the terms governing provided herein.



(c) **Independent Relationship:**

Each party, in the performance of this agreement, shall be and act as independent parties. No term herein shall be deemed to constitute a partnership, joint venture or agency or employment relationship between the two parties (or between either party and the personnel of the other party). Neither party shall be entitled to assume any obligation on behalf or in the name of other party.

(d) **Assignment:**

The respective rights and obligations under this Agreement shall not be assigned by either party without the prior written consent of the other party.

(e) **Entire Agreement; Amendment and Waiver:**

This Agreement constitutes the complete and entire understanding between the parties with regard to the subject matter hereof and it supersedes all prior understandings whether oral or written between the parties. Further, no amendment or waiver of this agreement or any of its terms shall be valid unless set forth in writing and signed by both the parties.

(f) **Severability:**

If any term of this agreement or its application to any party or any circumstances becomes unenforceable or invalid or is held by operation of law or any court of competent jurisdiction to be invalid, void or unenforceable, then unless that term or condition is fundamental to the operation of the Agreement, the remainder of the terms herein, shall remain in full force and effect and shall in no way be affected, impaired or invalidated to the fullest extent permitted by law or commercial practice

(g) **Amendment**

Any amendment or variation to this Agreement must be made in writing and signed by both parties.

(h) **Waiver**

A power or right may only be waived if it is in writing and signed by the party to be bound by the waiver.

(i) **Use of Brands/Logo:**

Either Party shall not use others' brand name, logo, mark or any other intellectual property in any manner whatsoever.

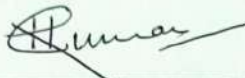

(j) **Counterparts:**

This Agreement may be executed in one or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument and any party may execute this Agreement by signing the agreements. Facsimile transmitted, photocopy or electronically produced counterparts shall be deemed binding on the parties hereto.

(k) **Notices:**



All notifications between the Parties relating to this agreement must be made in writing. Such notifications may be made by registered postal service, express courier service, fax or e-mail. The Parties designate the following addresses for the purpose of receiving notices under this agreement.

<b><u>Institute of Neurosciences Kolkata</u></b>	<b><u>Surendranath College, Kolkata</u></b>
Attention: <b>Dr Hrishikesh Kumar</b>	Attention: <b>Dr. Indranil Kar</b>
	 <b>Principal</b> <b>Surendranath College</b> <b>24/2, N.C. Road, Kol-09</b>
Tel: 033 4030 9982	Tel: 033-23502864
Fax: 2286 7097	Fax:
E-mail: rishi_medicine@yahoo.com	E-Mail: principalsurendranathcollege@gmail.com



**(I) Arbitration**

All disputes arising out of or in connection with this Agreement, that cannot be amicably settled, shall be finally settled by an Arbitrator appointed by each party under provisions of Indian Arbitration & Conciliation Act, 1996 and any modification or re-enactment thereof. The seat of arbitration shall be Kolkata, India. The language to be used in the arbitration proceeding shall be English. Any order for the production or disclosure of documents shall be limited to the documents on which each Party specifically relies in its submission(s). Nothing in this section shall limit the right of the Parties to seek relief intended to preserve the status quo or interim measures in any court of competent jurisdiction or arbitral tribunal



**(m) Precedence**

To the extent that there may be any inconsistency between this Agreement and the Protocol, the Protocol shall take precedence in relation with trial procedures.

**IN WITNESS WHEREOF, the Parties intending to be bound have caused this Agreement to be executed by their duly authorized representatives.**





<b><u>INK.</u></b>	<b><u>SNC.</u></b>
By: 	By: 
Name: Supriyo Choudhury	Name: Barnali Ray Basu
Title: Dr.	Title: Dr.
Date: 27 APR 2022.	Date: 27/04/2022

## Annexure: Academic Research Related Protocol

**Aim:** To determine polymorphism of VDR, Gc and metabolic gene of Vitamin D association with PD pathophysiology in Indian cohort

### Methodology

#### Step 1:

Target sample size - 100 elderly (>35 years) persons affected with Parkinson's Disease with low Vitamin D levels and matched control groups belonging to the same ethnicity and residing in the same geographical location.

**Preparation of Consent letter for Ethical purpose and Standardisation of Data-Sheet for Survey Work:** A multilingual consent letter will be prepared to take written consent (duly signed with contact number) from the subjects under the survey prior to study. A data sheet will be designed for taking socio-demographic information, nutritional survey, anthropometric data, biochemical and hormonal data of the PD patients.

All the duly signed records will be preserved for further analysis.

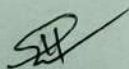
#### Step 2:

**Both groups will be surveyed using the following parameters:**

- A. Nutritional Assessment:** By questionnaires method (ICMR)
- B. Anthropometric Parameters Determination:**

- i. Height
- ii. Weight

SNC-INK-Agreement-PD-Vt.D/2022/1




- iii. Blood pressure
- iv. Basal metabolic rate (BMR)
- v. Body mass index (BMI)
- vi. Waist-hip ratio

**C. Biochemical Parameters:**

- i. Serum Vitamin D (25(OH)D) level
- ii. Blood Calcium and Phosphate level
- iii. Fasting Blood sugar level
- iv. HbA1c
- v. Complete blood count (RBC, WBC, platelet, Haemoglobin)
- vi. Electrolyte panel (sodium, potassium)
- vii. Liver function test (SGOT, SGPT)
- viii. Acid phosphatase and alkaline phosphatase
- ix. Renal function test (GFR, creatinine)
- x. Inflammatory markers (ESR, CRP, PV)

**D. Hormonal Parameters:**

- i. Parathyroid
- ii. Thyroid profile (T3, T4, TSH)
- iii. Fasting Insulin

**Step 3: Collection of Saliva/Swab for isolation of DNA** using SCA (Saliva/Swab Collection aid)

**Step 4: DNA Extraction and purification**

For genetic study, DNA will be extracted and purified from body fluids (saliva/swab) by standard protocol and quantified.

**Step 5: Genotyping of major and minor alleles**

- In silico primer designing
- PCR of the purified DNA
- Genome sequencing (NGS and Sanger method) and computation
- In silico designing of REs after getting sequenced genome
- A PCR-restriction fragment length polymorphism (PCR-RFLP) analysis.

**Step 6: Statistical Analysis**



- Analysis of all nutritional, anthropometric, and blood parameters in relation to clinical manifestation of PD using SPSS software (IBM-version 26).
- Calculation using Hardy-Weinberg equilibrium for each SNP and p values using one-way ANOVA or as appropriate.
- The multivariable logistic regression analysis to reveal logistic to investigate correlations of VDR, globulin (Gc), Megalin(LRP-2), *CYP2R1*, *CYP27A1*, *CYP27B1* and *CYP24A1*, *DHCR7* gene with the risk of low serum vitamin D levels and clinical manifestation of PD.

XX








**INSTITUTIONAL ETHICS COMMITTEE**  
**(Reg. No. – ECR/287/Inst/WB/2013/RR-19)**  
**MEDICAL COLLEGE, KOLKATA**  
**88, COLLEGE STREET, KOLKATA 700073, WEST BENGAL, INDIA**

Ref No. MC/KOL/IEC/NON-SPON/1275/02/22 dated 17/02/2022

**Chairperson**

Prof. Nandita Basu

**Member Secretary**

Prof. Debasis Das

**Members:-**

Prof. Aniruddha Sengupta (Clinician)  
Prof. Bibhuti Saha (Clinician)  
Prof. Dipak kumar Sarkar  
(Pharmacologist & Basic  
Scientist)  
Dr. Sebanti Bhattacharyya  
(Philosopher)  
Dr. Bhawna Bhutoria (Basic  
Scientist)  
Dr. Avishek Bhadra (clinician)  
Dr. Raja Bhattacharya (Clinician)  
Mr. Hironlal Majumder (Legal  
Expert)  
Mr. Ashok Kar (Lay person)

To,  
Dr. Barnali Ray Basu  
Assistant Professor  
Dept. of Physiology  
Surendranath College, Kolkata

*Sub: IEC-MCH Decision of the review of study protocol.*

**Study Title:** STUDY OF ASSOCIATION BETWEEN INSULIN RECEPTOR,  
ADIPONECTIN AND VDR GENETIC POLYMORPHISM AND POLYCYSTIC  
OVARIAN SYNDROME OF WOMEN RESIDING IN WEST BENGAL

Dear Dr. Barnali Ray Basu,

In the meeting held on 5<sup>th</sup> March 2022 in College Council room at Medical College, Kolkata, the members of the IEC, Medical College, Kolkata, reviewed and discussed your synopsis to conduct the study as proposed.

The following members of the committee were present:

**Chairperson:** Prof. Nandita Basu, Ex-Director, School of Tropical Medicine & Chair Person, IEC, MCH, Kol.

**Member Secretary:** Prof. Debasis Das, Prof. & Head, Community Medicine & Member Secretary, MCH, Kol

**Members:**

1. Prof. Aniruddha Sengupta, Dept. of Orthopaedics, MCH, Kolkata
2. Prof. Dipak Kumar Sarkar, Prof. & Head, Dept of Pharmacology, MCH, Kolkata
3. Prof. Bibhuti Saha, Head of the Dept., School of Tropical Medicine, Kolkata
4. Dr. Raja Bhattacharya, Associate Professor, Dept. of Medicine, MCH, Kolkata
5. Dr. Sebanti Bhattacharyya, Associate Professor & Officer-In-Charge, Sister Nibedita Government General Degree College for Girls
6. Mr. Hironlal Majumder, Legal Expert
7. Sri. Ashok Kar, Teacher

**The committee has also decided to:**

- ☒ Approve the study protocol in the present form.
- ☐ Conditionally approve the study protocol subject to.....
- ☐ Reject the proposal for the following reasons.....

**You are required to:**

- i) Inform the committee about the progress of the study and compliance of ethical guidelines.
- ii) Notify the committee regarding any serious adverse events occurring in the course of the study.
- iii) Inform and seek approval of the committee about any changes in the protocol prior to their implementation.
- iv) Submit the final report to the committee in every case.
- v) None of the Study team members including PI were not participated in the voting process.

This Ethics committee is working in accordance with the ICH-GCP, ICMR and New Clinical Trail Rules 2019 guidelines and other applicable regulations as laid down by the DCGI from time to time.

Yours truly,

Sumit Kumar: 15/03/2022

**Chairperson/Member Secretary IEC**  
**Medical College, Kolkata**

**MEMBER SECRETARY**  
**IEC, MEDICAL COLLEGE**  
**KOLKATA**



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## ....Visiting Associateship at IUCAA, Pune....

1 message

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**Visitor Services** <vs@iucaa.in>

Wed, 1 Aug, 2018 at 4:47 PM

To: Visitor Services <vs@iucaa.in>

Cc: kandu <kandu@iucaa.in>, samuel <samuel@iucaa.in>, Visitor Services <vs@iucaa.in>

Dear Visiting Associates of IUCAA,

I am glad to inform you of your selection to the Visiting Associateship Programme at the Inter-University Centre for Astronomy and Astrophysics (IUCAA), Pune, for a period of three years with effect from August 1, 2018 till July 31, 2021. This is just an advance intimation. A detailed communication in this regard will be sent to you / University / College in due course.

Please confirm your acceptance to this offer and let us know whether you would prefer to use your own e-mail account or would like to have a new e-mail account opened for you at IUCAA.

I look forward to welcoming you to the IUCAA family.

With kind regards,

Sincerely,

Prof. Kandaswamy Subramanian  
Dean, Visitor Academic Programmes  
IUCAA  
Pune - 411 007.  
<kandu@iucaa.in>

=====

Visitor Services  
INTER-UNIVERSITY CENTRE FOR ASTRONOMY AND ASTROPHYSICS  
Post Bag 4, Ganeshkhind, Pune 411007, Maharashtra, INDIA  
Phone : +91-20-25604100 / E-mail : <vs@iucaa.in>

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# UNIVERSITY OF CALCUTTA

Dr. SUMAN BHUSAN CHAKRABORTY, Ph.D.  
Assistant Professor

Department of Zoology  
University of Calcutta  
35 Ballygunge Circular Road  
Kolkata - 700 019



Residence : 279/2, A. P. C. Road  
Kolkata - 700 009  
Phone : (033) 2351 5084  
Mobile : 09831189211  
E-mail : sumanbc76@gmail.com

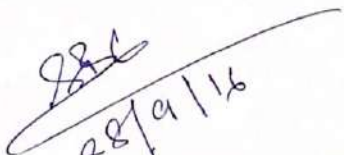
Ref. No. : .....

Date : .....20

## TO WHOM IT MAY CONCERN

It is for your kind information that **Dr. Adity Sarbajna**, Assistant Professor in Zoology, Surendranth College is co investigating the following projects along with me.

- "Bioaccumulation of Heavy Metals in different fish species cultured in water bodies in and around Kolkata and assessment of human health risk in relation to its consumption" funded by Department of Environment, Government of West Bengal. Sanctioned Amount Rs. 12,49,820/-
- "Production and culture of monosex tilapia using synthetic hormone 17-alpha methyl testosterone" funded by Department of fisheries, Government of West Bengal. Sanctioned Amount Rs. 95000/-
- "Production of monosex tilapia using phytochemicals" funded by Department of fisheries, Government of West Bengal. Sanctioned Amount Rs. 105000/-

  
28/9/16  
Dr. Suman Bhusan Chakraborty  
Assistant Professor  
Department of Zoology  
University of Calcutta

*University of Kalyani*  
*FACULTY OF SCIENCE*  
*DEPARTMENT OF CHEMISTRY*

*Dr. S. M. Islam*  
*Professor*



KALYANI 741 235, W.B., INDIA  
Phone: 91-33-2582-8750 (O)  
[Ext. 305]  
: 9231572961(M)  
Fax: 91-33-2582-8282  
Email: manir65@rediffmail.com

Date- 10.06.2021

**CERTIFICATE FROM THE COLLABORATOR**

It's my pleasure to certify that Dr. Noor Salam, Assistant Professor of Department of Chemistry, Surendranath College (under Calcutta University) is my research collaborator since September, 2020. We are working in the field of Heterogeneous catalysis where we mutually share our knowledge, experience and facilities.

*Dr. S. M. Islam*  
*Dr. S. M. Islam*  
Professor of Chemistry  
University of Kalyani

(S. M Islam)

Dated: June 04, 2021

## **CERTIFICATE FROM THE COLLABORATOR**

It's my pleasure to certify that Dr. Noor Salam, Assistant Professor of Department of Chemistry, Surendranath College (under Calcutta University) is my research collaborator since October, 2020. We are working in the field of catalysis where we mutually share our knowledge, experience and facilities.

*Debasis Das*

Signature

*Dr. Debasis Das*  
Professor  
Department of Chemistry  
The University of Burdwan  
Burdwan-713104, W.B.





**University of Calcutta**  
**Senate House, Kolkata - 700073**

Date of Enrollment : **23rd March 2018**

Registration Number : **00549/Ph.D.(Sc.)Proceed/2020**

Date of Registration : **5th February 2020**

Date of Letter : **6th February 2020**

(Please quote the above Number and Date in all future Correspondence)

From:

Deputy Registrar (Acting)  
University of Calcutta

To:

**Smt Sohaniya Mandal**  
Vill- Thuba, PO- Taki,  
PS- Hasnabad, Dist- 24Pgs(N),  
Pin-743429.



Madam,

I am desired to inform you that you have been granted registration for the Ph.D. programme under this University in **Marine Science** in terms of **6.6** of the Regulations for the Degree of Doctor of Philosophy (Ph.D.), C.U., framed under UGC Guidelines, **2016**.

This registration shall remain valid for next six years with effect from the date of enrolment as indicated above.

You are to comply with the usual rules of migration in case you have passed the qualifying examinations for the Ph.D. programme from a University/Institute other than the University of Calcutta.

Title of Thesis

**"Analytical & Numerical Study Of Tsunami Wave Propagation And Run-Up With Respect To West Bengal & Odisha Coast Of India."**

Name of the Supervisor : **Dr. Tushar Kanti Saha**

Name of the Joint Supervisor : **Prof. Dr. Tarun Kumar De**

Name of the Associate Supervisor : **X**

Yours faithfully,

Deputy Registrar (Acting)

*N.B. Please see the instructions overleaf.*

- 29.1 Introduction
- 29.2 Significance of microbial food safety
- > 29.3 *Staphylococcus* and its species
- > 29.4 *Listeria monocytogenes*
- > 29.5 *Bacillus cereus*
- 29.6 Capacity building in India
- References
- Further reading


Queries 18

Citations, References & Footnotes

View Edit Log 0

## Chapter 29

# Capacity building: building analytical capacity for microbial food safety

 The corrections made in this section will be reviewed and approved by master copier.

Debdeep Dasgupta<sup>1</sup>, Mandyam C. Varadaraj<sup>2</sup>, Paula Bourke<sup>3</sup>

<sup>1</sup>Department of Microbiology, Surendranath College-Kolkata, Kolkata, West Bengal, India

<sup>2</sup>Department of Human Resource Development, Central Food Technological Research Institute, Mysore, Karnataka, India

<sup>3</sup>School of Biosystems and Food Engineering, University College Dublin, Ireland



Enterprise Ireland Noreply



Career-FIT PLUS Fellowship Application.

Yahoo/UCD ★



• **noreply@enterprise-ireland.com**

To: chiraltic@yahoo.com



Wed, 13 Jan at 9:45 am ★

Dear Dr. Debdeep Dasgupta,

We acknowledge receipt of your Career-FIT PLUS fellowship application.

We will be in touch about your application in due course.

Kind Regards,

Career FIT PLUS Admin Team





margherita.castronovo@ucd.ie

To: chiraltic@yahoo.com



Thu, 2 Jul, 2020 at 4:54 pm



## Google Forms

I've invited you to fill in a form:

### MSCA-IF-2020 Grant Writing Workshop Evaluation Form

Dear Colleagues,

thank you for attending the MSCA-IF-2020 Grant Writing Workshop on June 30th 2020.

We hope you have find it useful and we would appreciate it if you would provide us with some feedback and ways to improve it. Please answer the following questions to help us improve our training course delivery.

Thanks in advance,  
Margherita

UCD Research - Proposal Support Team



FRI, OCT

**CareerFIT**[View on Calendar](#)

When

2:30 pm - 3:00 pm



Who

chiraltic@yahoo.com

Are you going? [Edit](#)**Abigail. Pattenden** <abigail.pattenden@ul.ie>

To: Debdeep



Fri, 9 Oct, 2020 at 2:13 pm



---

**[Join Microsoft Teams Meeting](#)**

+353 1 592 1404 Ireland, Dublin (Toll)

Conference ID: 471 349 978#



1

**Demand for Low Spore Milk Powder Erupts!**  
Debdeep Dasgupta, Ph.D  
Surenranath College Kolkata (India)



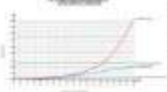
2

**Key Challenges**



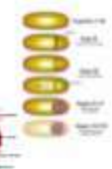
3

**Stabilizing in Dairy Set-Up: A critical challenge**



4

**Spores in Milk Processing unit**



5

**Termination of quotas for milk within the European Union in 2015**

# Demand for Low Spore Milk Powder Erupts!

## Debdeep Dasgupta, Ph.D

## Surenranath College Kolkata (India)

Consistent daily production of milk powders with low spore counts.

Nominal level of spores in milk powders is difficult to avoid

Presence of spores in the incoming raw milk supply,

Counts increased by a factor of 10 after processing the milk solids to a powder.

Global health and hygiene furnished by UN Sustainable Development Goals (SDG) with primary focus on risk associated with processed dairy products

Termination of quotas for milk within the European Union in 2015

States such as Ireland, Belgium and Luxembourg, have observed a sudden rise in bi-monthly milk deliveries by 35%



Click to add speaker notes



## Message to attendees of Commercialise your research, your way

---

From: Entrepreneurship @ MaREI (noreply@event.eventbrite.com)

To: chiraltic@yahoo.com

Date: Thursday, 11 March, 2021, 09:04 pm IST

---



Good afternoon,

I'm writing to let you know about an exciting online Masterclass Series and Sustainable Business Ideas Competition for Post Graduate Students, Reserachers and Early Stage Start Ups.

"Business Ideas for a Resilient and Sustainable Future"

**Register now for the kick off event on March 25th** - an introductory webinar on Sustainability, with a particular focus on International Start Up Accelerator programmes focused on Energy, Climate, Digital Health, Materials, Blue Economy, Agtech and Bioeconomy. Get a sense of the types of technologies and solutions that are making progress, what opportunities are emerging, trends into the future and how your idea or research might find an attractive application.

More details and registration here <https://www.eventbrite.ie/e/business-ideas-for-a-resilient-and-sustainable-future-tickets-143761106339>

All welcome!

Best regards,

Liam Fitzgerald

### Questions about the event?

Contact the [organiser](#)

eventbrite



This email was sent to [chiraltic@yahoo.com](mailto:chiraltic@yahoo.com)

Eventbrite | 155 5th St, 7th Floor | San Francisco, CA 94103

Copyright © 2021 Eventbrite. All rights reserved.

Recording and presentation on Employee Share Option Plans - What you need to know: 21 January 2021

---

From: Jackie Boyd Lyons (jackie.boydlyons@ucd.ie)

To: jackie.boydlyons@ucd.ie

Bcc: chiraltic@yahoo.com

Date: Thursday, 21 January, 2021, 06:46 pm IST

---

Dear All,

Thank you for registering for this mornings event "Employee Share Option Plans - What you need to know" with Alan O'Driscoll Alan O'Driscoll, Founding Partner and Head of Startup@FOD and Amanda Jayne Comyn of Doyle Keaney Tax Advisors.

Please find attached the presentation from this mornings event. The link to the zoom recording is

[https://ucd-ie.zoom.us/rec/share/wBh\\_ojSLcfMjbjlzVihR4P\\_DH0udjtsanFJhxTc745qfJ8nyvfAuiFlowBDWVPP-8A9IqxhifeugrUk](https://ucd-ie.zoom.us/rec/share/wBh_ojSLcfMjbjlzVihR4P_DH0udjtsanFJhxTc745qfJ8nyvfAuiFlowBDWVPP-8A9IqxhifeugrUk) Passcode: +06^eu1x

Best wishes,

Jackie

---

Jackie Boyd-Lyons

PA to Tom Flanagan & Engagement Support  
Director of Enterprise and Commercialisation

UCD Research & Innovation  
University College Dublin  
NovaUCD

Belfield Innovation Park

Belfield  
Dublin 4  
Ireland  
M: +353 87 6373776  
T: +353 1 716 3710  
F: +353 1 716 3709

E: [jackie.boydlyons@ucd.ie](mailto:jackie.boydlyons@ucd.ie)

W: <http://www.ucd.ie/research/about/researchinnovation/>

[Click here](#) to subscribe for updates on news and events.



image002.jpg  
880B



image001.jpg  
816B



image003.jpg  
951B



image004.jpg  
1.1kB







NovaUCD Share Options Presentation\_21012021\_Final.pdf  
728.5kB

---

**Fwd: IIT-Bombay ST Software Training | at Surendranath College**

---

Indranil Kar <drindranilkar@gmail.com>  
To: snccs96@gmail.com

Wed, Feb 5, 2020 at 5:17 PM

----- Forwarded message -----

From: **FARIDUDDIN MASUD** <fariduddin.masud@gmail.com>  
Date: Wed, Feb 5, 2020, 16:39  
Subject: IIT-Bombay ST Software Training | at Surendranath College  
To: <principalsurendranathcollege@gmail.com>, <drindranilkar@gmail.com>  
Cc: sizshyama@gmail.com <shyama.stiitb@gmail.com>, trupti more <truptismore@yahoo.com>

Dear Prof. Dr Indranil Kar,

Pleasure speaking with you today. I would like to inform you about a successful and very necessary IT/Software/E-Tutor courses program being offered by none less than IIT Bombay\_ST (Spoken Tutorial project). Please go through the

1) website link ([spoken-tutorial.org](http://spoken-tutorial.org)) 2) program details including cost and 3) study which courses are there. Certificates are provided on course completion.

**I have given the courses as per the Dept.**

Discipline	Dept.	Courses
Science and Computer Science	Physics, Chemistry, Math., Biology, Computer Science	Basic IT Skills, C, C++, Python, HTML, Java, BioPython, Esim, CellDesigner, Avagradro, GchemPaints, JmolApplication, R, Drupal and More
Arts and Humanities	Bengali, English, History, Geography and all Arts Dept.	Basic IT Skills
Commerce	B.Com, M.Com	Front Accounting , Basic IT Skills

**Benefits for your Institute:**

1. Gets benefits in NAAC, CPE and NBA
2. Implement MOOC courses for skilling and compliance of HRD requirements.
3. Conduct Skills Enhancement Courses (SEC) suggested by UGC through our program and save huge amounts and efforts

4. Offer Faculty Development Programs (IITB-ST Courses) as career enhancement training for your Faculties.
5. Improve the quality of Students
6. Prestige for being attached with IIT Bombay through official partnership (Letter of Association will be provided)
7. Conduct Training for syllabus oriented courses also to reduce the over burden of Faculties without compromising on quality

### **Benefits for your Students:**

1. Give them the opportunity to learn the IT skills and conduct Training on syllabus oriented courses also to accelerate their employability as well as to boost their academic performance
2. Get certificate from IIT Bombay after successful completion of the Training

All the training can be done in self-learning way within college time-table hours. Faculty only enroll students and arrange Training batches.

For your quick reference I have attached a sample certificate.

Glad to know you have already aware about the our program and already discussed with your Faculty members to start the Program.

A discussed, please identify 1-2 Faculty Members and share with us the contact details so that we can guide them. Meanwhile if you have any queries then please feel free to call me, I will be happy to clarify your queries if any!

The Payment is Rs. 25000/year with validity of 12 months from date of Payment. and it will cover no limitation on number of Students and Faculty doing Training, taking Online Test and Certificates. After making the payment the nominated Faculty Organiser can register and start the training in the college

**At present we are working with over 130 universities and 4500+ Colleges across India including WBUT, Calcutta University, Jadavpur University, Aliah University, West Bengal State University, Vidyasaga University, Panchanan Barma University.**

Looking forward to work with your Institute.

Thanks and Regards,

Farid Uddin Masud

Training Manager, West Bengal

Spoken Tutorial, IIT Bombay - NMEICT, MHRD, Govt. of India



To

The Principal

Surendranath College

Kolkata

*Allowed  
cashier/Hr may do the needful pl.  
[Signature]  
24/2/2020*

Date: 24/02/2020

**sub:** Request to grant the course fee for IT/Software/E-Tutor online courses program being offered by IIT Bombay\_ST (Spoken Tutorial project)

Respected Sir,

This is to bring to your kind attention that an IT/Software/E-Tutor courses program being offered by IIT Bombay\_ST (Spoken Tutorial project). I strongly believe that the students of different disciplines of our college as well as the faculty members will be greatly benefited by this program. As per the telephonic conversation with the training manager (West Bengal) of the said course, I have noted down the following points.

The course fee is Rs. 25000/- only per year with validity of 12 months from date of Payment and it will cover no limitation on number of Students and Faculty doing Training, taking Online Test and Certificates.

Therefore, considering the above, I would like to request you to kindly grant the said amount to commence the course at our earliest. In this regard I would like to recommend Ms. Ruma Mistry and Ms. Taniya Seal (Faculty members, Computer Sc) as Faculty organizer and Event assistant respectively to perform the registration related work and conducting the course smoothly.

Hope you will grant the request and oblige

Regards,

*Dhiman Karmakar*

(Dhiman Karmakar)

HoD, Computer Science



---

**Fwd: IIT-Bombay ST Software Training | Account Details for NEFT.**

---

**Ruma Mistry** <rumamistry.cs@gmail.com>  
To: Surendranath College <snccs96@gmail.com>

Thu, Feb 27, 2020 at 4:44 PM

----- Forwarded message -----

From: **FARIDUDDIN MASUD** <fariduddin.masud@gmail.com>  
Date: Thu, 27 Feb 2020, 13:50  
Subject: IIT-Bombay ST Software Training | Account Details for NEFT.  
To: <rumamistry.cs@gmail.com>  
Cc: sizshyama@gmail.com <shyama.stiitb@gmail.com>, trupti more <truptismore@yahoo.com>, <drindranilkar@gmail.com>

Dear Prof. Ruma Mistri,

Nice speaking with you and glad to know that your Institute is ready to pay for the training of your students.

Please find the account details for making INR 25000 which will cover Unlimited number of students Training per year.

**Account Payable details :**

A/C Beneficiary Name: Registrar, IIT Bombay  
A/C Number: 2724101113370  
Bank Name: Canara Bank  
Bank Branch: IIT Powai  
IFSC Code: CNRB0002724

**Once the payment made then please share the details**

UTR (Unique Transaction reference)Number of Payer  
Date of Payment:  
Name of the payer-  
Institute name-  
Email id -  
Phone number of the Payer-  
PAN Number  
GST (If any)

For your convenience , I am sharing the Instruction link also.

Payment Flow via NEFT Link: [https://process.spoken-tutorial.org/images/4/45/Payment\\_Flow\\_NEFT.pdf](https://process.spoken-tutorial.org/images/4/45/Payment_Flow_NEFT.pdf)

Thanks and Regards,

Farid Uddin Masud

Training Manager, West Bengal

Spoken Tutorial, IIT Bombay - NMEICT, MHRD, Govt. of India

Mob. : +91 8100526700

**Website:** <http://spoken-tutorial.org>

**MHRD Link:** <http://mhrd.gov.in/e-content>

**Shakshat Link:** [www.sakshat.ac.in](http://www.sakshat.ac.in)

**Re- imagine education Award Link:** [Re-imagine education award](#) (Oct. 2015)

**Google Award Link:** [Google award](#) for being the best interactive MOOCs (Feb. 2015)



**A/c. ID** 1401002100003398 INR 140100 SURENDRA NATH COLLEGE  
**A/c. Status** ACTIVE  
**A/c. Open Date** 01-06-2000  
**GL Subhead** 03100  
**Opening Bal.** INR 90,08,724.34 CR.  
**Closing Bal.** INR 89,83,721.98 CR.  
**Funds in Clg.** INR 0.00 CR.

**A/c. Status Date** 06-07-2016  
**A/c. Close Date**  
**A/c. Type** CUSTOMER ACCOUNT  
**Available Amt.** INR 77,09,517.98 CR.   
**Effective Available Amt.** INR 77,09,517.98 CR.   
**Float Bal.** INR 0.00 CR.

Tran. Date	Value Date	Instr. No.	Particulars	CCY	Debit Amt.	Credit Amt.	Bal.
24-08-2020	24-08-2020		Charges for NEFT Customer Payment :000132114225	INR	2.36		90,08,721.98CR.
24-08-2020	24-08-2020		NEFT:PUNBH20237633645/REGISTRAR IIT BOMBAY	INR	25,000.00		89,83,721.98CR.

---

**Fwd: IIT Bombay ST Software Training | Regarding students training**

---

**TANIYA SEAL** <taniyaseal1992@gmail.com>  
To: Surendranath College <snccs96@gmail.com>

Fri, Sep 11, 2020 at 7:25 PM

----- Forwarded message -----

From: **Ruma Mistry** <rumamistry.cs@gmail.com>  
Date: Fri, Sep 11, 2020 at 7:06 PM  
Subject: Fwd: IIT Bombay ST Software Training | Regarding students training  
To: <taniyaseal1992@gmail.com>

----- Forwarded message -----

From: **FARIDUDDIN MASUD** <fariduddin.masud@gmail.com>  
Date: Fri, 11 Sep 2020, 18:13  
Subject: IIT Bombay ST Software Training | Regarding students training  
To: <rumamistry.cs@gmail.com>  
Cc: sizshyama@gmail.com <shyama.stiitb@gmail.com>, trupti more <truptismore@yahoo.com>

Dear Prof. Ruma Mistry,  
Glad speaking with you.  
As discussed, please take the students data as per year and dept which will contain the **FIRST NAME , LAST NAME , MAIL ID AND GENDER** in excel file and then convert it to .csv file.  
Also I am sharing the training flow sheet for you.  
Please go through it and register yourself as an organiser in our systems.

Thanks and Regards,

Farid Uddin Masud

Training Manager, West Bengal

Spoken Tutorial, IIT Bombay - NMEICT, MHRD, Govt. of India

Mob. : +91 8100526700

**Website:** <http://spoken-tutorial.org>

**MHRD Link:** <http://mhrd.gov.in/e-content>

**Shakshat Link:** [www.sakshat.ac.in](http://www.sakshat.ac.in)

**Re- imagine education Award Link:** [Re-imagine education award](#) (Oct. 2015)

**Google Award Link:** [Google award](#) for being the best interactive MOOCs (Feb. 2015)



Spoken Tutorial  
Project at  
IIT Bombay

## Certificate for Completion of Advanced Cpp Training

This is to certify that **NISHAT FATMA** has successfully completed **Advanced Cpp** test organized at **Surendranath College** by **RUMA MISTRY** with course material provided by the Spoken Tutorial Project, IIT Bombay. Passing an online exam, conducted remotely from IIT Bombay, is a pre-requisite for completing this training.

**SNEHASIS PAUL** from **Surendranath College** invigilated this examination. This training is offered by the Spoken Tutorial Project, IIT Bombay.

July 19th 2021

Prof. Kannan M Moudgalya  
IIT Bombay





**DORG Office** <dorgoffice@iiti.ac.in>

to me, Chelvam ▾

Wishu Dey

Tue, May 11, 9:55 AM



Dear Ms. Dey,

Please be informed that you have completed the registration process of the Online Internship for the Undergraduate Student under the mentorship of Dr. Chelvam Venkatesh for the duration of 12-May-2021 to 12-Aug-2021.

You may now please start the online internship in consultation with IIT Indore Faculty Mentor.

**"Stay Safe"**

--

With kind regards,

Sincerely,

Jaya  
Executive Manager  
Office of Dean, Resources Generation  
Indian Institute of Technology Indore  
Simrol  
Indore 453 552  
Phone: +91 731 660 3122  
Email: [dorgoffice@iiti.ac.in](mailto:dorgoffice@iiti.ac.in)

***"Save Paper, Save Tree, Save Environment, Save Earth"***

cTraining ID : 1904202  
Date : 01-Jul-21  
Place : KOLKATA

Subject: **Training Enrolment Confirmation**

Dear Tulika Dhara

Congratulations!

We are pleased to inform you that you have been enrolled as a student for a training program currently sponsored by Tech Mahindra Ltd.

Training Program Duration	:	40 Days
Time	:	9 Hours
Location	:	KOLKATA
Proposed Date of commencement of training program	:	01-Jul-21

The Company reserves the right to extend the duration of your training.

Please note that this is not an offer of employment with Tech Mahindra Ltd and the Company is no way responsible for your placement after completion of training program. You shall not be entitled to any benefits, facilities and payment from the Company, during your training period and any extension thereof.

The Company reserves the right to terminate your participation in a training program at any time at the sole discretion of the Company. In case you fail to attend the training for consecutive period of **3 days** and/or fails to successfully complete any certification at any stage of training period, then your participation in the training program stands terminated automatically.

We wish you very best.

Thanking you,  
Yours faithfully,  
For Tech Mahindra Limited



(Authorized Signatory)

# Faculty Exchange Program

Organized by  
Department of Zoology  
Sreegopal Banerjee College,



## CERTIFICATE OF HONOUR

This is to certify that *Dr. Manish Kanti Biswas*, Assistant Professor, Department of Zoology, Surendranath College, Kolkata, delivered a lecture on "Metamorphosis in Insect " on 19th July, 2021, in the Faculty Exchange Programme (July 19-20, 2021) organized by the Department of Zoology, Sreegopal Banerjee College, Bagati, Mogra, Hooghly, 712148, West Bengal.

*Shyamaprasad Sain*

HOD Dept. of Zoology

Principal



# SREEGOPAL BANERJEE COLLEGE

ESTD.-1958

( Government Sponsored )

Accredited with B-Grade in Second Cycle Accreditation by NAAC

Vill.: Bagati, P.O.: Magra,  
Dist.: Hooghly, Pin : 712148,  
West Bengal



Phone : (033) 2684-4124, 2684-2706  
Tel. Fax : 2684-2706  
e-mail : sgbc\_2003@yahoo.com

Ref. No. MIS/174/21

Date 08.07.2021

To,  
Dr. Manish Kanti Biswas  
Assistant Professor, Department of Zoology  
Surendranath College, Kolkata

**Sub: Invitation to deliver lecture in the Faculty Exchange Programme on 19<sup>th</sup> July, 2021**

Sir,

We feel privileged to invite you to deliver a lecture entitled "Metamorphosis in Insect" on 19<sup>th</sup> July, 2021, in the "Faculty Exchange Programme" (19<sup>th</sup> and 20<sup>th</sup> July, 2021) organized by the Department of Zoology, Sreegopal Banerjee College, Bagati, Mogra, Hooghly 712148, West Bengal. The participated students would like to be fortunate spectators of your valued presentation.

We shall be grateful if you kindly accept our invitation.

Thanking you,

Best regards.

Sincerely,



*Shyama Prasad Sain*

Prof. Shyama Prasad Sain  
(Convenor)

Head of the Department of Zoology  
Sreegopal Banerjee College  
Mogra, Hooghly, 712148  
West Bengal, India

*Dr. Debasis Mukhopadhyay*

Dr. Debasis Mukhopadhyay  
(Patron)

Principal  
Sreegopal Banerjee College  
Mogra, Hooghly, 712148  
West Bengal, India

**Principal**  
**Sreegopal Banerjee College**  
**Bagati, Mogra, Hooghly,**

**Channel Name:** Asman TV  
DN 12, 8th Floor, Salt Lake City,  
Sector 5, Kolkata - 700091  
email- asmantvlive@gmail.com

**Intern Name:**

1. Ahana Nandi (7890844874)
2. Sushmita Dey (8910005761)
3. Sweta Chakraborty (9903888430)
4. Srimanti Chakraborty (8910739989)
5. Subhadeep Dey (6291391634)
6. Srilata Seal (6289312971)
7. Sandip Sarkar (9804979186)

**Internship duration** - 3 months (3rd Aug 2021 - 31st Oct 2021)









Date: 26<sup>th</sup> July, 2021

To  
The Principal  
Surendranath College  
24/2 M.G. Road, Sealdah  
Kolkata 700009

Subject: Invitation to Collaboration

Sir,

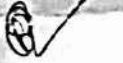
Allowed  
26/7/21  
Principal  
Surendranath College  
Kolkata-9

We are extremely pleased to inform you that on behalf of our most modest online academic journal, titled, "International Bilingual Journal of Culture, Anthropology and Linguistics", (IBJCAL) bearing eISSN: 2582-4716, that started its journey only two years ago and, till date, has run through 4 volumes/issues of online publications, we have organised the second time 7-day International Bilingual Webinar on Tribal Lifestyle (IBWTL-2), with the theme and title: "Tribal Lifestyle: Literature-Culture-Anthropology" or "আদিবাসী জীবনযাত্রা: সাহিত্য-সংস্কৃতি-নৃত্য", to be held, online, on the 26th September to 1st of October, 2021. Previously We organized IBWTL-1 (3-day) on behalf of this journal on 28<sup>th</sup>, 29<sup>th</sup> December 2020 & 15<sup>th</sup> January 2021, webpage link <http://www.indianadibasi.com/omp/>.

Participation in the aforementioned webinar is completely FREE Of COST.

We ardently look forward to receiving a positive response from you at your convenience.

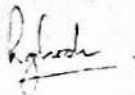
Sincerely,



Patitpaban Pal  
Convenor & Secretary, International Bilingual Webinar on Tribal Lifestyle (IBWTL-2, 2021)  
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## IBWTL-2, 2021

International Bilingual Webinar on Tribal Lifestyle: Literature-Culture-Anthropology-Linguistics

আন্তর্জাতিক দ্বিভাষিক ওয়েবিনার "আদিবাসী জীবনযাত্রা: সাহিত্য-সংস্কৃতি-নৃবিজ্ঞান-ভাষাবিজ্ঞান"

Date: 25<sup>th</sup> September to 1<sup>st</sup> October, 2021 & Time: 5.00 pm to 7.30 pm (IST +5.30)



IBJCAL

International Bilingual Journal of  
Culture, Anthropology and Linguistics  
ইন্টারন্যাশনাল বাইলিঙ্গুয়াল জার্নাল অফ  
কালচার, অ্যানথ্রোপলজি অ্যান্ড লিঙ্গুইস্টিক্স

eISSN: 2582-4716



In collaboration with: (i) School of Languages and Linguistics, Jadavpur University; (ii) Department of Sanskrit, Surendranath College, Kolkata

## Call for Papers

The IBWTL-2 is forthcoming. You are invited to submit your research papers for scholarly presentation under following Sub-themes [Theme areas].

### Full Paper Submission for Scholarly presentation

**Abstract Submission:** 25<sup>th</sup> August, 2021 (Words: 400-500)

**Selected Abstract notification:** via email on or before 30<sup>th</sup> August, 2021

**Full paper submission deadline:** 10<sup>th</sup> September, 2021.

**Submission & selection criteria:** Obligatory full paper submission with proper declared format.

**Selected speakers list notification:** 20<sup>th</sup> September, 2021 based on Full paper submission.

**e-Certificate Registration for Participants:** Webinar timing of each day (4.00 pm to 7.30 pm).

### Distribution of e-

**Certificate:** 7<sup>th</sup> October, 2021.

**Submission:** via email

[ibwtl2020@gmail.com](mailto:ibwtl2020@gmail.com)

### Format of Research Paper

Abstract: 100-150 words maximum (in English obligatory)

Keywords: 5-10 words.

1. Introduction

2. Research Questions

3. Research Methods

4. Data Collection & Analysis

5. Results and Discussion

6. Conclusion

7. Bibliography (APA Style)

8. Author's Biographic Note: 60-100 words

Total Word limit: 4000-8000 words

### সাব-থিম

1. প্রয়োগের বাংলা ভাষা [Linguistics]
2. তাত্ত্বিক প্রেক্ষিতে গবেষণামূলক সাহিত্য সমালোচনা [Literature]
3. প্রয়োগের শৈলীবিজ্ঞান [Literature and Linguistics]
4. কালচারাল ট্রান্সমিশন / সাংস্কৃতিক আদানপ্রদান (গ্রহণ প্রতিগ্রহণ) [Culture]
5. গোত্র, গোত্র-স্মারক ও ট্যাটু [Cultural Anthropology]
6. জন্ম-মৃত্যু-বিবাহ বিষয়ক লোকাচার [Culture and Anthropology]
7. টোটেম, ট্যাবু ও মোটিফ [Culture]
8. ধর্ম চর্চা [Language and Culture]
9. সংস্কৃত সাহিত্যে প্রাচীন ভারতীয় সংস্কৃতি [Culture]
10. লোক প্রযুক্তি [Culture]
11. ভাষা, প্রযুক্তি, আর্টিফিসিয়াল ইন্টেলিজেন্স [Linguistics]

### Sub-themes

1. Application of Bangla language [Linguistics]
2. Scholarly Literary Criticism [Literature]
3. Application of Stylistics [Literature and Linguistics]
4. Cultural Transmission [Culture]
5. Clan, Clan sign and Tattoo [Cultural Anthropology]
6. Customs of Birth-Death-Marriage [Culture and Anthropology]
7. Totem, Taboo and Motif [Culture]
8. Religious studies [Language and Culture]
9. Ancient Indian Culture in Sanskrit Literature: [Culture]
10. Folk Technology [Culture]
11. Language, Technology and Artificial Intelligence [Linguistics]

To know further details please follow the (i) IBJCAL facebook page and (ii) IBJCAL YouTube channel.



## Activity Report

**Name of Event:** Webinar

**Topic :** International Bilingual Webinar on Tribal Lifestyle: Literature-Culture-Anthropology-Linguistics (IBWTL)

**Date:** 25<sup>th</sup> September to 1<sup>st</sup> October 2021

**Time:** 4.00- 7.30 PM

**Webinar Platform:** Google Meet

**Invited Speaker(s) :**

- 1) Prof. Girish Nath Jha (School of Sanskrit & Indic Studies, Jawaharlal Nehru University).
- 2) Dr. Noor E Alam (Associate Professor, Department of Persian Language & Literature, University of Chattagram)
- 3) Prof. Dipak Kumar Roy (Dean, Faculty of Arts, Commerce and Law & HOD Department of Bengali, Raiganj University)
- 4) Dr. Ashraf Khan (Bangladesh)
- 5) Dr. Prakash Biswas (Associate Professor, Department of Education, Jadavpur University)
- 7) Dr. Sayyed Ahmadparsa Professor (Department of Persian Language & Literature, University of Kurdistan)
- 8) Dr. Renuga Devi (Head of the Chairperson School of Linguistics & Communication, Madurai Kamaraj University)
- 9) Prof. Dr. Muhammad Shahjalal (Khulna University)
- 10) Dr. Subhas Chandra Mahato (Assistant Professor, Department of Tribal & Religion Languages, Kolhan University Jharkhand)
- 11) Dr. Manas Ghosh (Assistant Professor, Film Studies, Jadavpur University)
- 12) Mostofa Tarekul Ashan (Professor, Dept. of Folklore, University of Rajshahi)
- 13) Dr. Monojit Chaudhury (Principal Researcher at Microsoft Research Former Faculty & IIT Kharagpur)

**Organised By:** Department of Sanskrit, Surendranath College and Department School of Languages & Linguistics, Jadavpur University.

**Number of Participants:** 150

**Summary:** The Webinar Started With the inaugural lecture by our Principal Sir Dr. Indranil Kar and Dr. Suchandra Chatterjee, IQAC Convenor followed by the Speaker's introduction. The lecture was attended by 150 Participants including undergraduate and faculty members of different colleges. The Speaker delivered his lecture on **International Bilingual Webinar on Tribal Lifestyle: Literature-Culture-Anthropology-Linguistics (IBWTL)**. All the participants were influenced by the lecture of the resource person. He even answered all the questions raised by the participants in the question answer session and promised to do the needful guidance for the students in future correspondences.

**You tube link:**

Day-1 || 25.09.2021

[https://youtu.be/XcHJkCHA\\_Hs](https://youtu.be/XcHJkCHA_Hs)

Day-2 || 26.09.2021  
<https://youtu.be/M6lFpbH4pm8>

Day-3 || 27.09.2021  
<https://youtu.be/qrZ0X4YM8PQ>

Day-4 || 28.09.2021  
<https://youtu.be/U1xWOXFoSJ4>

Day-5 || 29.09.2021  
<https://youtu.be/dQOI4lqGooY>

Day-6 || 30.09.2021  
<https://youtu.be/WXauPNoziJg>

Day-7 || 01.10.2021  
[https://youtu.be/\\_hc\\_Ynu7Ki4](https://youtu.be/_hc_Ynu7Ki4)



## **Activity Report of Outreach Programme**

An Outreach Programme was organized by the Department of Philosophy, Surendranath College, in collaboration with the Department of Philosophy, Lady Brabourne College.

For this purpose, on 26<sup>th</sup> April 2022, two students of Semester-VI-Honours -named Nur Muhammad Gazi and Sraboni Das of Department of Philosophy, Surendranath College, went to Lady Brabourne College for presenting their papers on different philosophical issues. The topics of their presented papers were “Is Capital punishment defensible?” and “Trusteeship after Gandhiji” respectively.

On the other hand, on 29<sup>th</sup> April 2022, three students of Semester-VI-Honours, department of Philosophy, Lady Brabourne College, named Sharadiya Banerjee, Suparna Mahato and Riti Chowdhury came to Surendranath College to present their papers. They discuss their papers on Psychology and Modern Western Philosophy.

Our students gave sincere efforts to make themselves prepared for this programme. Consequently, this programme boosted up their confidence level to a great extent. At the end of this programme both the departments, our college and Lady Brabourne college expressed interest to held this sort of programme again.

All these efforts make this programme a grand success.