

CURRICULUM VITAE

Dr. Tanmay Ghosh

(M.Sc, MBA, Ph.D, D.Sc [Post-Doc])

MRSB [Member of Royal Society of Biology, London]

FLS [Fellow of the Linnean Society, London]

BSAC [Member of British Society for Antimicrobial Chemotherapy]

Assistant Professor

Dinabandhu Andrews College

54, Raja SC Mallick Road,

Baishnabghata, 24 Parganas (South),

The University of Calcutta, Kolkata,

West Bengal, 700 084



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Personal Profile:

Name:	Dr. Tanmay Ghosh
Nationality:	Indian.
Gender & Caste:	Male & General.
Marital Status:	Unmarried.
Date of Birth:	18/11/1985
Present designation:	Assistant Professor of Microbiology. Since, 2019, in Dinabandhu Andrews college
Present work Address:	Dinabandhu Andrews college, Department of Microbiology, The University of Calcutta Raja S C Mallick Road, Kolkata, 700084 West Bengal. India.
Permanent Home Address:	4/2B, Padmapukur- Bhimpur road, Tarakeswar, Hooghly, West Bengal, Pin- 712410

Mobile Phone: **9732188299, 7601865684**

Educational Qualifications	Subject (result)	Year of Passing	Institution/ College/ School	Board/University
D.sc (Post doctoral degree)	Microbiology	2023	California public University (United states of America)	California public University (United states of America)
Ph.D.	Microbiology	2022	(NIT) Durgapur National Institute Of Technology	NIT Durgapur National Institute Of Technology
M.Sc.	(Microbiology) (1st Class 2nd) (77.4%)	2009	Barrackpore Rastraguru Surendranath College	The University of Calcutta
B.Sc. (Honours)	Microbiology Chemistry & Zoology (1st Class)	2007	Barrackpore Rastraguru Surendranath College	The University of Calcutta
WBCHSE (Class XII)	English, Maths, Physics, Chemistry, Biology (74 %)	2003	Tarakeswar high School	West Bengal Council of Higher Secondary Education (W.B.C.H.S.E.)
WBBSE (Class X)	English,Bengali, Maths, Social Studies, Science (84 %)	2001	Tarakeswar high School	West Bengal Board of Secondary Education (W.B.B.S.E)
MBA	62 %	2022	Swami Vivekanand Subharti University	Swami Vivekanand Subharti University

Fellowship / Membership	Date
Member of the Royal Society of Biology, London (MRSB)	1st April, 2024
Fellow of the Linnean Society, London (FLS)	18th January, 2024
Member of the British Society for Antimicrobial Chemotherapy (BSAC)	23th March, 2024
Member of American Merit Council (AMC)	5th July 2024

NET EXAM	SUCCESSFULLY QUALIFIED IN 2014
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GATE EXAM	SUCCESSFULLY QUALIFIED IN 2013
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Teaching Responsibilities:

- 1st Sem- Algae and Fungi
- 2nd Sem- Microbial Growth and Nutrition
- 3rd Sem- Biochemistry- Carbohydrate and Nucleic Acid
- 4th Sem- Food Microbiology and Biofertilizer
- 5th Sem- Environmental Microbiology
- 6th Sem- Plant Pathology

Membership In Academic Bodies:

In addition to my teaching responsibilities, I serve as and am an active member of various institutional committees:

- NSS program coordinator (Convenor)
- The Students' Welfare Sub-Committee
- Magazine Sub-Committee (Joint Convenor)
- Green Campus
- Green Audit
- Energy Audit and Environment Audit Sub-Committee
- Sports and Cultural Sub-Committee
- Research and Publication Sub-Committee (Joint Convenor)
- The Environmental Consciousness
- Sustainability and Waste Management Committee.

ADMINISTRATIVE BODIES STATE GOVERNMENT NOMINEE

From 17th January, 2023, Governing Body Of Tarakeswar Degree College, Hooghly.

Governing Body Of Rabindra Mahavidyalaya, Hooghly.

TEACHING EXPERIENCE:

❖ **July 2009 – 6TH August 2019:** Govt. Approved. Part-time Lecturer July 2009 – 6th August, 2019 Rabindra Mahavidyalaya, Champadanga, Hooghly, West Bengal, 712401 University of Burdwan. ❖ **Present:**

ASSISTANT PROFESSOR OF MICROBIOLOGY

Joining Date: 06/08/2019

**Dinabandhu Andrews College , Raja SC Mallick Road,
Baishnabghata, 24 Parganas (South), Kolkata, West Bengal, 700084**

UNIVERSITY OF CALCUTTA

RESEARCH OF INTEREST

Microbiology, Biotechnology, Biochemistry, Agriculture microbiology, Seed microbiology, Seed Biology, Seed Pathology, Agriculture pathology, Environmental microbiology etc.

CONFERENCE & WEBINAR ATTENDED

A. WORKSHOP ATTENDED

1. Attended the workshop on “People’s biodiversity register (PBR) preparation” held at Tarakeswar Degree College, Hooghly on 5th December in 2014 organized by Biodiversity management committee, supported by West Bengal Biodiversity Board (Department of Environment, Govt. of West Bengal).
2. Two days’ workshop on “BIOINFORMATICS: Some of the fundamentals and their applications” for College Teachers held on 21st and 22nd December, 2011. (Department of Microbiology, University of Burdwan).
3. Participation in the one-day symposium of “Wonder of Science: Explore and Learn” held on 25th August 2023 at the Tarakeswar Degree College, Tarakeswar in collaboration with S N Bose National Centre For Basic Sciences, Kolkata & DST, Govt. of India.

B. INTERNATIONAL CONFERENCE ATTENDED

1. ISER International Conference on Agriculture Forestry and Life Science (I.C.A.F.L.S – 19), on 6th July 2019, Kolkata, West Bengal.
2. International Conference on Environment, Agriculture and Biotechnology (I.C.E.A.B. T – 19), 30th June 2019, Kolkata, West Bengal.
3. International Virtual Conference on Current Advances in Rice Blast Research (Carbr2020), 1st to 5th December, 2020, National Institute of Technology (Nit), Durgapur, West Bengal.
4. International Conference on Computations in Materials & Applied Engineering (CMAE).

C. INTERNATIONAL CONFERENCE ATTENDED AS A RESEARCH PAPER PRESENTER

1. 9th International Conference on Environment and Ecology (Paper Title: Molecular identification of Antibiotic Producing and different Enzyme Producing Ability of Halophilic Bacteria obtained from costal area of The Bay of Bengal), 22 June to 23 June, 2023, at The University of Burdwan, Burdwan, West Bengal.
2. **First International Conference on Enhancing Health Through Environment, Biotechnology and Entrepreneurship (Paper Title: Isolation and phylogenetic Identification of seed born Mycoflora with wheat seed & eco-friendly Management by Moringa oleifera with phytochemical screening)**, 22 February to 24 February, 2024 at Brainware University, Kolkata, West Bengal.

D. WEBINAR ATTENDED

1. International Webinar on Covid-19 Pandemic: Vaccine Development and Future Therapies, 14th & 16th June, 2020, Dinabandhu Andrews College, Garia, South 24 Parganas.
2. Webinar on Science, Biology and the World's Future, 10th July, 2020, G. N. Ramachandran Science Club, Mar Athanasios College for Advanced Studies Tiruvalla (Macfast), Kerala.
3. Online Hands on Training Programme on Primer Designing and Recombinant Vector Construction, 13th & 14th July, 2020, Mar Athanasios College for Advanced Studies Tiruvalla (Macfast), Kerala.
4. International Webinar on Combating Covid-19 Crisis & It's Aftermath, Insights by Young Researchers, 17th & 18th July, 2020, Rabindra Mahavidyalaya, Champadanga, Hooghly, West Bengal.
5. National Webinar on Cancer Microenvironment in Context of Stem Cell and Targeted Therapy, 27th June, 2020, Nabadwip Vidyasagar College, Nabadwip, Nadia, West Bengal.
6. National Webinar on Current Challenges In Biology, 1st, 3rd & 10th July, 2020, Rabindra Mahavidyalaya, Champadanga, Hooghly, West Bengal.
7. International Webinar on Science, Biology and the World's Future, 25th August, 2020, Dinabandhu Andrews College, Garia, South 24 Parganas, West Bengal.

8. International Webinar on **Approaches to Covid19 Prevention**, Therapeutic Strategies & Management, 30th July, 2020, Department of Biotechnology, Assam University.
9. International Online Faculty Enrichment Programme on Tips & Tricks for Publishing in International Scientific Journals, 20th June, 2020, Surendranath College, Kolkata, West Bengal.
10. International Webinar on Covid-19: Through The Eyes of Young Researchers, 3rd & 4th July, 2020, Surendranath College, Kolkata, West Bengal.
11. Two Days Webinar on Host-Microbe Interactions: Present and Future Perspectives, 6th & 7th August, 2020, School of Biotechnology, Department of Life Sciences, Presidency University, Kolkata, West Bengal.
12. One Day International Web Conference on Need of the Hour amidst Pandemicity: Immunological & Psychological, with Special Attention to Students, 15th July, 2020, Victoria Institution (College), Kolkata, West Bengal.
13. One Day International Webinar on **Health Science and Human Diseases**, 30th July, 2020, Dinabandhu Andrews College, Garia, South 24 Parganas, West Bengal.
14. Three Days International Webinar on **“Present and Future Strategies to Combat Emerging and Re-Emerging Contagious Diseases**, 16th, 17th & 18th August, 2020, University of Burdwan, Burdwan, West Bengal.
15. Awarded for Attending the Webinar on the Topic **“Surgical Techniques in Woman Cancer”**, Organized by International Association of Oncology (IAO) on 25th April, 2021.
16. “International Webinar On **Pollution and Environment** “[ISBN:978-93-90847-02-0, Chapter Title- Plastic Pollution : A Global Challenge and its Prevention] by Tanmay Ghosh, 28th December, 2021.
17. Biotech – Hub Bahona College Jorhat, Assam, India ,[ISBN: 978-93-90847-02-0,Chapter Title – Plastic Pollution: A Global Challenge and its Prevention], on 2nd December, 2021.
18. Online Hands on Training Programme on Primer Designing and Recombinant Vector Construction, 13th & 14th July, 2020, Mar Athanasios College for Advanced Studies Tiruvalla (Macfast), Kerala.
19. International Online Faculty Enrichment Programme on Tips & Tricks for Publishing in International Scientific Journals, 20th June, 2020, Surendranath College, Kolkata, West Bengal.
20. Awarded for Attending the Webinar on the Topic “Colorectal Cancer Awareness”, Organized by International Association of Oncology (IAO) on 26th March , 2022 .
21. Awarded for Attending the Webinar on the Topic “Bladder cancer Awareness ”, Organized by International Association of Oncology (IAO) on 17th may , 2022 .
22. National Webinar on “Research Methodology” Organized by the Centre for History and Philosophy of Science and Technology, Department of Philosophy, Jadavpur University, in collaboration with the UGC-HRDC, Jadavpur University on 11th June, 2022 from 10:30 am to 3:30 pm.
23. participated on the International Webinar on the Topic “Air pollution and prevention”, Organized by International Biotech-Hub Bahona College Jorhat, Assam , India on 2nd December, 2022 .

E. FACULTY DEVELOPMENT PROGRAMME ATTENDED (FDP)

1. Week Faculty Development Programme on “**Managing Online Classes and Co Creating Moocs 3.0**” from 25th July to 10th August, 2020, Teacher Learning Centre, Ramanujan College, University of Delhi.
2. 30 Days Faculty Induction Programme, **Batch - XII (online) conducted by the UGC - Human Resource Development Centre** from 9th november to 8th december, 2022, , University of Madras, Chennai - 600 005 (Sponsored by the UGC).

F. ORIENTATION PROGRAMME ATTENDED (O.P)

1. 4 Week Induction/ Orientation Programme For “**Faculty in Universities/ Colleges/ Institutes of Higher Education**” from 26th June to 24th July, 2020 Teacher Learning Centre, Ramanujan College, University of Delhi.

G. REFRESHER COURSE ATTENDED

1. 2 Weeks Interdisciplinary International Refresher Course on "**Academic Bank of Credits (ABC) Scheme in Higher Education**, UGC Regulation, 2021 (With reference to Blended Learning) from 7th - 20th July, 2021 from Teacher Learning Centre, Ramanujan College, University of Delhi.
2. 2 Weeks “**Refresher Course on Life Sciences**” organized by the Human Resource Development Centre, University of Hyderabad from 13th to 25th September, 2021 and obtained grade ‘A+ ’ .

H. CERTIFICATE COURSE

1. successfully completed the Molecular Docking Certification Program organized by BioGrademy. [certificate no-BL07MDC07, Date of Issuance: 13th July, 2022].

List of Publications:

A. Publications in Journals: International, All Peer reviewed and Scopus journals

* Corresponding author

1. **Tanmay Ghosh***, Mohan Kumar Biswas, Sandipan Chatterjee, Pradipta Roy (2018) [Journal of Drug Delivery and Therapeutics, Vol8(4), Page No.-155- 160]:- In-vitro study on the hemolytic activity of different extracts of Indian medicinal plant Croton bonplandianum with phytochemical estimation: a new era in drug development.
2. **Tanmay Ghosh***, Mohan Kumar Biswas, Pradipta Roy (2018) [World Journal of Pharmaceutical Research,

Vol-22, Page No.- 1323-1342]:- An Evaluation of Antibacterial Potential of Medicinal plant Croton bonplandianum against Some Pathogen Isolated From Urinary Tract Infections (UTI): Alternative Approaches of Conventional Treatment.

3. Tanmay Ghosh*, Mohan Kumar Biswas, Chiranjib Guin (2018) [Journal of Pharmacognasy and Phytochemistry, Vol-7(3), Page No.- 485-493]:- Efficacy of cow urine in wheat (Triticum aestivum) production as plant growth promoter and antifungal agent.

4. Tanmay Ghosh*, Mohan Kumar Biswas, Pradipta Roy, Chiranjib Guin (2018) [European Journal of Medicinal Plants (Scopus), Vol-22, Page No.-1- 10]:-A Review on Traditional and Pharmacological Uses of Croton bonplandianum with Special Reference to Phytochemical Aspect.

5. Tanmay Ghosh*, Mohan Kumar Biswas, Chiranjib Guin, Pradipta Roy, Koustav Aikat (2018) [Plant cell Biotechnology and Molecular biology (Scopus), Vol- 19, Page No.- 107- 117]:-A review on seed borne Mycoflora associated with different Cereal Crop Seeds and their Management.

6. Tanmay Ghosh*, Mohan Kumar Biswas, Soumyajit Dhara, Chandan Ghosh (2018) [Plant cell Biotechnology and Molecular biology (Scopus), Vol19, Page No.- 91-106]:- Mechanisms involve n Jute Resistance to Macrophomia phaseolin as Strategies for Developing Resistant Jute Varieties.

7. Tanmay Ghosh*, Mohan Kumar Biswas, Chiranjib Guin, Pradipta Roy (2018) [Plant cell Biotechnology and Molecular biology (Scopus), Vol-19, Page No. - 72-84]:- A Review on Characterization, Therapeutic Approaches And Pathogenesis of Macrophomia phaseolina.

8. Mohan Kumar Biswas, Tanmay G'hosh* (2018) [Plant cell Biotechnology and Molecular biology (Scopus), Vol-19, Page No.-51-60]:-Epidemic development of Pumpkin mosaic and its relationship with abiotic factors and vectors.

9. Tanmay Ghosh*, Mohan Kumar Biswas, Pradipta Roy, Chiranjib Guin (2018) [Uttar Pradesh Journal of Zoology, Vol-37, Page No.-35-44]:-Short Review on Different Mycoflora from the Oral Cavity of Snakes.

10. Tanmay Ghosh*, Mohan Kumar Biswas, Koustav Aikat (2017) [International Journal of Pure and Applied Bioscience, Vol-6(1), page No.- 1494-1503]:- Evaluation of the Phytochemical Investigation and Antimicrobial Efficacy of Different Extract of Leaves of Croton bonplandianum Against Some Pathogenic Bacteria Salmonella enterica ser. typhi and Staphylococcus haemolyticus.

11. Mohan Kumar Biswas, Sanjib Kuiry, Tanmay Ghosh* (2018) [European Journal of Medicinal Plants

- (Scopus), Vol-22(4), Page No.- 1-8]:-Use of Plant Extracts for Substrate Sterilization and Its Effect on Competitor Moulds and Biological Efficiency of Oyster Mushroom.
12. **Tanmay Ghosh***, Mohan Kumar Biswas (2018) [Bionature, Vol-38, Page No.- 58- 65]:- Host Resistance of Pumpkin Germplasms Against Mosaic Disease.
 13. Mohan Kumar Biswas, **Tanmay Ghosh*** (2018) [European Journal of Medicinal Plants (Scopus), Vol- 22(3), Page No.- 1-9]:-Evaluation of Phytoextracts, Biological Agents and Chemicals against the Development of *Alternaria brassicae* in vitro and in vivo.
 14. Mohan Kumar Biswas, Swapan Kuiry, **Tanmay Ghosh*** (2018) [Bionature, Vol-38, Page No.- 86- 95]:-Role of abiotic factors on the development of Rice Brown Spot caused by *Bipolaris oryzae* (Bredade Haan) Shoemaker.
 15. Mohan Kumar Biswas, **Tanmay Ghosh*** (2018) [Bionature, Vol-38, Page No.- 96- 104]: - Natural Incidence Mosaic Disease of Pumpkin (*Cucurbita moschata*) and its Management through Avoidance
 16. **Tanmay Ghosh***, Mohan Kumar Biswas, Koustav Aikat (2017) [International Journal of Pure and Applied Bioscience, Vol-6(1), Page No.- 1526-1538]: -A Review on Seed Borne Mycoflora Associated with Different Oilseed Crops and their Management.
 17. Mohan Kumar Biswas, **Tanmay Ghosh*** (2018) [Plant cell Biotechnology and Molecular biology (Scopus), Vol-19, Page No. - 61-71]:- Screening of Brinjal genotypes for their resistance against fungal and bacterial wilt and integrated management of the disease.
 18. **Tanmay Ghosh***, Mohan Kumar Biswas (2018) [International Journal of Current Microbiology and Applied Sciences, Vol-7(5), Page No.- 1714- 1727]:-Evaluation of Antibacterial and Antifungal Activity of Cow Urine against Some Seed Borne Mycoflora.
 19. **Tanmay Ghosh***, Mohan Kumar Biswas and Koustav Aikat (2019) [Plant cell Biotechnology and molecular biology (Scopus), Vol-20, Page No.-1408- 1419]:- Determination of Level of Seed Infectivity caused by Rice (*Oryza sativa*) Seed Borne Mycoflora: An in-vitro Study.
 20. **Tanmay Ghosh***, M.K. Biswas and Kaustav Aikat (2019) [Journal of Emerging Technologies and Innovative Research, Vol-20(23&24), Page No.- 1408-1419]: - Isolation and Phylogenetic Identification of Seed

Borne Mycoflora associated with Rice and Eco-Friendly management by *Datura stramonium* with Phytochemical Screening: GC-MS analysis.

21. **Tanmay Ghosh***, Mohan Kumar Biswas and Rishin Bhattacharyya (2019) [International Journal of Pharma and Bio Sciences, Vol-10(2), Page No.-196- 203]: Evaluation of Antibacterial Efficiency of Different Extracts of *Ocimum gratissimum* L. (Lamiaceae) leaves against Some Pathogenic Bacteria with Phytochemical Screening.
22. **Tanmay Ghosh***, Mohan Kumar Biswas and Kaustav Aikat (2020) [Journal of Critical Reviews, Vol-7, Page No.-546-561]:-An Ecofriendly management of seed borne mycoflora of Mustard (*Brassica* sp.) through Botanicals and determination of antifungal activity by SEM.
23. Sandipan Chatterjee and **Tanmay Ghosh*** (2020) [Research Journal of Agricultural Sciences, Vol-11(2), Page No.-270-277]:- Phytochemical screening and In-vitro evaluation of the antibacterial potential of leaf extract of *Eucalyptus globulus* against some pathogenic bacteria.
24. **Tanmay Ghosh***, Joydip Ghosh, Maitreyee Mondal and Subhasree Roy (2020) [Research Journal of Agricultural Sciences, Vol-11(2), Page No.-413-419]:- An Understanding of Fungal Diversity of Cereal and Oil Seed Crops Particularly in Coastal Region Composed to Indo-Gangetic Areas and their Eco-friendly Management.
25. **Tanmay Ghosh***, Mohan Kumar Biswas, Debokinandan Maity and Pradyut Dutta (2020) [Research Journal of Agricultural Sciences, Vol-11(4), Page No.-889-894]:- Study of Antibacterial Activity of *Chrysopogon zizanioides* (vetiver) and its Antivenom Potential Aspect.
26. **Tanmay Ghosh***, Mohan Kumar Biswas (2020) [Journal of oriental research, vol. xci-xlii, page no. – 55-63]:- A Review On Mushroom Borne Microbes With Their Harmful and Beneficial Roles.
27. **Tanmay Ghosh***, Mohan Kumar Biswas (2020) [Journal Of Maharaja Sayajirao University Of Baroda, Vol-54, No. 2 (XIII), Page No.-174- 182]:- Effects Of Fungal Filtrates On Maize Plant Anatomy and Seedlings and Treatment With *Datura stramonium* by Its Phytochemicals Properties.
28. **Tanmay Ghosh***, Mohan Kumar Biswas (2020) [Wesleyan Journal of Research, vol – 13, no. 47, page no. 17-25]:- Edible Mushroom: A Newish Arm in Medical and Agricultural Field.
29. **Tanmay Ghosh***, Joydip Ghosh (2021) [Research & Reviews: Journal of Agriculture and Allied Science, Vol. – 10, Issue no. – 1, Page no. 10 – 17]:- Comprehensive Studies of Black Pepper and its Chemical Profiling.

30. Tanmay Ghosh*, Sandipan Chatterjee (2021) [Annals of Romanian Society for Cell Biology (Scopus), Vol. – 25, Issue no. – 2, Page no. – 3171 - 3175]:- Study on Phenological Diversity of Chlorophycean Algae with its Role in Environment.

31. Tanmay Ghosh* (2021) [New Horizons, Vol. – XVIII, 2021, Page No. – 23- 34]:- Study the Role of Amla Seed in Medicinal and Pharmacological field.

32. Tanmay Ghosh*, T. Parvathi, M. Sathish, Subhesh Saurabh Jha, Khongdet Phasinam, L. Nivetha, (2021) [Annals of Romanian Society for Cell Biology (Scopus), Vol. – 25, Issue 4, 2021, Page No. – 4002 – 4012]:- Evaluation of Phytochemical and Biochemical Profiling of Marine Red Algae Gracilariacrasa.

33. Yang Xingyao, Muhammad Fayaz, Tanmay Ghosh*, Khan Alamgir (2021) [IT in Industry, (Scopus), Vol. 9, No. 2, 2021, Page No. 989-995]:-Computer – Aided Diagnostic System for Digital Mammography.

34. Tanmay Ghosh*, Owrena Sarkhel (2021) [International Journal of Research and Analysis in Science and Engineering, Vol. 1, Issue 2, March 2021, page No. – 32- 45]:- Date Palm: An Antimicrobial Agent with its Nutritional Benefits.

35. Tanmay Ghosh*, Sandipan Chatterjee (2021) [Turkish Journal of Physiotherapy and Rehabilitation (Scopus), Vol. 32, Issue – 2, May 2021, Page No. – 3737-3742]:- Evaluation Of The Effect Of Deadly Mucormycosis In Post COVID-19 Patients.

36. Tanmay Ghosh*, Joydip Ghosh (2021) [International Journal of Research and Analysis in Science and Engineering, Vol. 1, Issue 3, May 2021, Page No. – 10-20]:- A Study on the Antibacterial Activities and Medical Properties of Water Chestnut.

37. Tanmay Ghosh*, Anirban Pal, Sandipan Chatterjee (2021) [Materials Today: Proceedings (Elsevier), (Scopus)]:- Biosorption of Heavy Metal by Bacteria for Sustainable Crop Production.

38. Tanmay Ghosh*, Mohan Kumar Biswas, Kaustav Aikat (2021) [Materials Today: Proceedings (Elsevier), (Scopus)]:- protein profiling of rice (khas) and mustard (jhumi) seeds before and after infected by seed borne mycoflora.

39. Dr. Santosh T. Jagtap, Khongdet Phasinam, Thanwasmas Kassanuk, Subhesh Saurabh Jha, Tanmay Ghosh*, Chetan M. Thakar (2021) [Materials Today: Proceedings (Elsevier), (Scopus)]:- Towards Application of Various Machine Learning Techniques in Agriculture.

40. Tanmay Ghosh*, Owrena Sarkhel (2021) [International Journal of Current Research and Review, Vol.7, Issue-1]:- Green bell pepper to treat UTI, oral disease, intestinal infection through its phytochemical agent.
41. Tanmay Ghosh* (2021) [International Journal of Botany Studies, Vol.6, Issue-4] :- An in-vitro studies on the primary phytochemical estimation and antibacterial potentiality of the peel extract of *Musa acuminata* against *Pseudomonas aeruginosa*.
42. Tanmay Ghosh*, Mohan Kumar Biswas(2021) [The Society of Plant Protection Sciences, Vol.29, Issue-3] :- Pathogenic Variations and Fungal Metabolical Effect on Protein Contents of Pulses.
43. Tanmay Ghosh* (2021) [International Journal of Research and Analysis in Science and Engineering, Vol.1, Issue-4]:-potential natural antioxidant and other health benefits of honey and its possible limitations.
44. Tanmay Ghosh* (2021) [Research Journal of Agricultural Sciences, Vol.12, Issue-4]:- Utilization of Plant Probiotic Microorganisms for the Improvement of Agriculture.
45. Tanmay Ghosh* (2021)[International Journal of Research and Analysis in Science and Engineering, Vol.1, Issue-6] In – Vitro Antibacterial Potentiality of Indian Medicinal Plant *Murraya Koenigii*.
46. Tanmay Ghosh*, Manabika Jana , Shovana Pal , Sunita Nayek(2022) [International Journal of Current Research and Review, Vol.4, Issue-1] A Com study between the Persistent COVID 19 variants: Alpha, Beta, Gamma , Delta and Omicron.
47. Tanmay Ghosh*, Dr. Mohan Kumar Biswas (2020)[European Journal of Molecular & Clinical Medicine (Scopus), Vol.7, Issue-11] A comparative study between the first and second waves of world threatening covid-19 disease .
48. Tanmay Ghosh*, Syed Anees Ali , Abrar Hussain , Bakht Beland, Ma. Socorro Gonzaga-Leong-on , Muhammad Hashim Raza , Hamid Mehmood , Maria Binte Sarfraz , Muhammad Sajid , Arsalan Rasheed (2022) [Natural volatiles Essential oils (NVEO), (Scopus), Vol:9, Issue:2,]:- Genotyping Of *Crb1* And *Rp1* Genes In Families With Visual Impairment (Retinitis Pigmentosa).
49. Dr. Tanmay Ghosh* (2022) [International Journal of Phytology Research in Volume.2-Issue-2] :
 “Ashwagandha: a medicinal plant in the context of Indian medicine treatment” .

50. Dr. Tanmay Ghosh*, Anirban Paul, Sandipan Chatterjee (Sep 2022) [NeuroQuantology (Scopus), Volume.20-Issue-11, ISSN- 1303-5150] : “Influence of Fertilizer on Growth, Yield and Chlorophyll Contents of Ground Nuts” .
51. Dr. Tanmay Ghosh*, Mohan Kumar Biswas, (2022) [Journal of mycopathological research, Vol-60, Issue-3, ISSN- 0971-3719]:- Ganoderma lucidum: production, nutritional and medicinal value in comparison with other edible mushrooms.
52. Dr. Tanmay Ghosh*, Dr. Harsha Sharma¹, Mozammel Haque , Dr. Anita Singh , Ramengmawii, (2022) [IJFANS (International Journal of Food and Nutritional Sciences),(Scopus), Vol- 11, Issue-1, ISSN- 2320-7876] :- Maize sheath blight disease and its biological control .
53. Tanmay Ghosh*, Santosh Walke^a , Manoj B. Mandake^b, Makarand Naniwadekar^c , Ravi W. Tapred , Yaser Qureshi (2022) [Materials Today: Proceedings (Elsevier),(Scopus)]:- A review on copper chemical vapour deposition.
54. Dr. Tanmay Ghosh* (2023) [BIOGECKO (A Journal for New Zealand Herpetology),(Scopus) in volume 12 , Issue-01, ISSN-2230-5807]:- Biodegradation of low-density polyethylene (LDPE) by halophilic bacteria isolated from bay of bengal water.
55. Dr. Tanmay Ghosh* (2023) [European chemical bulletin,(Scopus) in volume 12 –Special Issue-01, ISSN- 2063-5346]:- Different Types of Enzyme Production Ability by Halophilic Bacteria Isolated from Bay of Bengal Water.
56. Dr. Tanmay Ghosh* (June, 2023) [CSIR Publication, Volume-60, Special Issue-0, ISSN: 2582-6492 (Online), ISSN 0036-8512 (Print)]:- Science Reporter Magazine.
57. Dr. Tanmay Ghosh* (August, 2023) [European Chemical Bulletin,(Scopus) in volume 12, Issue 09, E-ISSN-2063-5346]:- An Integrated Study of 'Black Head Moulds' Disease in Wheat (*Triticum aestivum*) Caused by *Alternaria tritici* with an Eco-friendly Management in Conventional Agro-climatic Approach.
58. Dr. Tanmay Ghosh* (October, 2023) [Cureus Journal of Medical Sciences (Springer), (PubMed) in Volume 15, Issue 10, ISSN-2168-8184]:- Unraveling the Gut-Brain Axis in Multiple Sclerosis: Exploring Hi l, Oxidative Stress, and Therapeutic Insights.
59. Dr. Tanmay Ghosh* (November, 2023) [Journal of Cardiovascular Disease Research (Scopus) in volume

14, Issue 11, ISSN- 0976-2833]:- A Perspective Review on Role of Various Nutraceuticals in Management of Cancer.

60. Dr. Tanmay Ghosh* (December, 2023) [Journal of Advanced Zoology in volume 45 Issue 1 ISSN: 0253-7214]:- Characterization Of Probiotic Lactic Acid Bacteria From Honey And Assessment Of Their Effects On Consumption By Type-2- Diabetes Using Wistar Rat.
61. Dr. Tanmay Ghosh* (January, 2024) [International Journal of Mosquito Research in volume 11 Issue 1 ISSN: 2348-5906]:- Plant Extracts in Controlling Disease Vector Mosquitoes.
62. Dr. Tanmay Ghosh* , Owrena Sharkhel, Nabamita Nandi (January, 2024) [Acta Scientific Microbiology Volume 7 Issue 2 ISSN: 2581-3226]:- Microbial Biodegradation of Plastic: A Noble Approach.
63. Dr. Tanmay Ghosh* , Sachin Tyagi, Debanjana Mondal, Anil Kumar, Mo. Rahil G. Bhura, Replantful Chiangkata, Pooja Khanpara, Shilpi Prasad, Vishal Pathak (January, 2024) [Romanian Journal of Diabetes, Nutrition and Metabolic Diseases (Scopus, UGC II) ISSN: 1583-8609:- An Experimental Study on Phytochemical Screening and IN-VIVO Anti-inflammatory Activity of *Rhipsalis Baccifera*.
64. Dr. Tanmay Ghosh* , Anil Kumar , Rashmi Dorai , , Suhasis Bhattacharya, Saikat Bera , Sachin Tyagi, Utkarsh Verma , Mansi Chaudhary , Vishal Pathak (February, 2024) [Journal of Cardiovascular Disease Research volume 15 Issue 02 ISSN : 0975-3583] :- Role of Nanotechnology in Cancer Diagnosis: An Advance Approach.
65. Dr. Tanmay Ghosh* , Keshamma E. , Kamal Kant Patra , Amit Pandey, Anil Kumar, Neha Singh, Saurav Ghoshal, Vishal Pathak and Chandan Kumar Raikwar (March, 2024) [International Journal of Modern Pharmaceutical Research Volume 8 Issue 3 ISSN 2319-5878] :- PLANT-DERIVED NANOPARTICLES AS MOLECULAR BIOMARKERS FOR CANCER DIAGNOSTICS AND THERAPY.
66. Dr. Tanmay Ghosh* , Uriti Sri Venkatesh, Anil Kumar, Srinivasan Ponmalai , Sinha Ashutosh Kumar, Anni Kumari , Garima Avasthi , Vishal Pathak , Neha Singh (March 2024) [Journal of Cardiovascular Disease Research volume 15 Issue 02 ISSN : 0975-3583] :- Hydrogel-Based Drug Delivery for Cancer Immunotherapy: Design, Advances, and Applications - A Comprehensive Review.
67. Dr. Tanmay Ghosh* , Dr. Pranay Punj Pankaj , Dr Ravneet Kaur , Dr Mumthas Yahiya (March 2024) [Journal of Advanced Zoology in volume 45 Issue s-2 ISSN: 0253-7214]:- Exploring The Intricate Web: How Fishery Management And Zoology Unite In The Governance Of Aquatic Diseases.
68. Dr. Tanmay Ghosh* , G. Suchitra, Sajeeda Niketh, Anil Kumar, T. P. Rao, Vishal Pathak, Sushil Giri, Rajashekar Perusomula and E. Keshamma (April, 2024) [Biochemical and Cellular Archives Volume 24 Issue 1 ISSN 0972-5075]:- Targeting Tau Hyperphosphorylation in Alzheimer's Disease: Exploring Novel DYRK1A and CLK1 Kinase Inhibitors via Structure-based Virtual Screening.

69. **Dr. Tanmay Ghosh***, Velladurai , Shikha Singh , Gunjan Singh Bhakuni , A. Asuntha , Anil Kumar and Bhupendra Kumar (June, 2024) [African Journal of Biological Sciences Volume 06 Issue 10 ISSN 2663-2187]:- Bioengineered Silver Nanoparticles as Peptide Inhibitors Derived from *Crateva religiosa* G. Forst. Bark for Targeting Cancer Cells.
70. **Dr. Tanmay Ghosh***, Afreen Kadir, K. Ilango , Vilas Nilkanthrao Deshmukh , Purnima Mahato , Konda V. V. S. Krishna , Sharang Bali , Yash Dhubkaria and Dr. Anil Kumar (June 2024) [European Journal of Biomedical and Pharmaceutical sciences Volume 11 issue 06 ISSN 2349-8870]:- IN-DEPTH REVIEW ON TAXONOMY, PHYTOCHEMISTRY, TRADITIONAL USES AND PHARMACOLOGICAL SIGNIFICANCE OF AZADIRACHTA INDICA PLANT.
71. **Dr. Tanmay Ghosh***, Swarnajit Dutta, Nalini Kanta Sahoo, Gopi Reddy Alugubelli , Anil Kumar, Laxminarayan Patidar, Pooja Khanpara, Roshni Tandey, Mathews T Thelly (June, 2024) [African Journal of Biological Sciences Volume 06 Issue 10 ISSN 2663-2187]:- Phytochemical Profile & Pharmacological Significance of Piper nigrum - King of spices.
72. **Dr. Tanmay Ghosh***, Ashu Mittal, Deepa Bajetha , Mekhala, Anil Kumar, Surbhi Kamboj, Mathews T Thelly (July, 2024) [African Journal of Biological Sciences Volume 06 Issue 03 ISSN 2663-2187]:- Artificial Intelligence-Guided Discovery of Anticancer Compounds from Marine Plants: A Focus on Sargassum SPP.
73. **Dr. Tanmay Ghosh ***, SNVL Sirisha , Kapil Raghuwanshi, Anil Kumar, K.S Arun Kumar, Yash Srivastav, M. Sanjay Samanth, Manu Kumar katual, Atia Jamal (October,2024) [Journal of cardiovascular disease research .Volume 15 , Issue 10 ISSN 0975-3583, 0976-2833]:- Gene Editing In Cardiovascular Medicine : CRISPR TECHNOLOGY AND ITS APPLICATIONS IN TREATING HEREDITARY HEART DISORDERS.
74. **Dr. Tanmay Ghosh ***, Anjali Gupta, Vikram Sharma, Bibhu Prasad Moharana, Anil Kumar, Ananya Bhowmick, Sivamani S, Vaibhav Kumar Upadhayay, Sanmati Kumar Jain (February 2024) [Revista Electronica de veterinaria volume 25 issue 2 ISSN 1695-7504]:- An in depth review on Phytochemistry and pharmacological significance of phyllanthus emblica linn.
75. **Dr. Tanmay Ghosh ***, Santosh patnaik ,Anil kumar, Ritika kalia, Isha kapila, Sanmati Kumar Jain, Ashish Patel, Shilpi Prasad, Vaibhav Kumar Upadhayay (December 2024) [Nanotechnology perceptions. Volume 20, ISSN 1660-6795]:- Evaluating the Antidiabetic Potential of Polyphenolic Compounds from Medical plants: A pharmacological approach combining in vitro,in vivo,and chemical analysis.
76. **Dr. Tanmay Ghosh ***, Piyush Agarwal , K.S. Bharath , Sanmati Kumar Jain , Anil Kumar , Ekta Pandey , Tanmay Ghosh. ,Adeep Kuju , Richa Bajaj , Meenu Rani (January 2025) [Biochem .cell.arch . Volume 24, ISSN 0972-5075]:- FORMULATION AND IN VITRO EVALUATION OF METFORMINLOADEDNANOPARTICLES FOR ENHANCED ORAL BIOAVAILABILITY.
77. **Dr. Tanmay Ghosh ***,N Ramasamy ,SNVL Sirisha, Sanmati Kumar Jain, Anil Kumar,Arkaprava Biswas,B.S .Ashok Kumar,Ekta Pandey,K.S Bharath (January 2025) [J.Exp.zool.India volume 28,ISSN 0972-0030]:-

ASSESSMENT OF PHYTOCHEMICAL CONSTITUENTS AND ANTIINFLAMMATORY POTENTIAL OF
HYDROALCOHOLIC STEM EXTRACT OF MORINGA OLEIFERA IN ANIMAL MODELS.

B. INTERNATIONAL BOOK CHAPTER PUBLISHED

1. Research Trends in Medical Science [ISBN: 978-93-90541-48-5, Vol. (10), P- 85-1-03, International book Chapter Title: A Review of Life Threatening Covid-19 Disease that Changed World Prospectus] by Tanmay Ghosh , June 2018.
2. COVID-19 Pandemic Current Status [ISBN: 978-93-90847-06-8, P- 104-115 International book Chapter Title: A Comparative Study between the Vulnerability of Corona Virus and Influenza Virus] by Tanmay Ghosh, Feb 2021.
3. Innovative Research & Technology in Agriculture Sciences [ISBN: 978-93-90833-45-0, Vol. 2, P- 152-157, International book Chapter Title: Agro Waste Bioconservation by Cellulolytic Nitrogen Fixing Bacteria] by Tanmay Ghosh & Mohan Kumar Biswas, March 2021.
4. Environment in 21st Century [ISBN: 978-93- 90847-57-0, P- 1-10, International book Chapter Title: Climate

Change: A Global Environment Challenge] by Tanmay Ghosh , July 2021.

5. Therapeutic Applications of Potential Herbs [ISBN: 978-81-951323-2-4, Chapter – 1, First Edition 2021, P
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1-12, International book Chapter Title: Indian Medicinal Plant: Perpetual Keys in Medical Field] by TanmayGhosh, Aug 2021.
6. Environment and Development (An Integrated Approach) [ISBN: 978-93-90847-17- 4, 1st Edition
,International book chapter title: Environment and Development] by Tanmay Ghosh, December, 2021.
7. International book chapter : Biofertilizar Including Bacterial, Fungal AM/ VAM, Ectomycorrhizae,
cyanobacteria for sustainable Agriculture [ISBN 978-93-90847-17-4] by Tanmay Ghosh, Dec 2022.
8. “Microbiology and Immunology” [ISBN: 978-93-90847-97-6, International book Chapter Title- Aquaculture
Microbiology] by Tanmay Ghosh, Arindam Ganguly, Sourav Chattaraj, 1St March, 2022.
9. “key notes on agriculture chemistry and soil science “ [ISBN: 978-93-90847-22-8, International book
Chapter
Title – A Review on the effects of pernicious arsenic element and its phytoremediation], By Tanmay Ghosh, June,
2021 .
10. “International Webinar On Pollution and Environment”[ISBN: 978-93-90847-02-0, International book
Chapter title Plastic pollution: A Global Challenge and it's Prevention.] by Tanmay Ghosh December 28 , 2021
11. “Molecular plant pathology ” [ISBN: 978-1-4583-5547-8, International book Chapter Title- Pathogenesis of
Necrotrophic Fungi and their management aspect] by Dr. Tanmay Ghosh , nov 2021.
12. “Emerging Trends in agriculture ” [ISBN: 978-93-92597-50-3, International book Chapter Title-
Decontamination of Animal waste through the generation of Renewable Energy (Bio gas) in Rural area :
microbiological aspects and pollution control] by Dr. Tanmay Ghosh ,Dr. Mohon kumar Biswas , 2022.
13. “Nanotechnology (Materials and Application) ” [ISBN: 978-93-94570-00-9, International book Chapter
Title- Bioremediation : A Green Approach For The Sustainable Environment Management] by Dr. Tanmay
Ghosh, Subham Ghosh,Rajendra Kumar Ghosh , Deb Bhattacharya , Dr . Joydip Ghosh , May 2022 .
14. .“ Nanotechnology (Materials and Applications)” [ISBN: 978-93-94570-00-9, International book Chapter
title : An overview of Nanotechnology (Materials and Applications)] by Tanmay Ghosh May 2022
15. International book chapter : “Invisible yet Invulnerable Asymptomatic covid-19” In the book “Clinical
synopsis of Covid-19” [ISBN 978-93-90847-17-4] by Tanmay Ghosh, July,2021.
16. .“ Microbial and Biotechnological Interventions in Bioremediation and Phytoremediation ” [ISBN: 978-3-
031-08829-2 , International book Chapter title : Influences of Microorganisms based Biosurfactants in
Bioremediation Process: An Eco-friendly Approach (Nature, Springer)] by Tanmay Ghosh, Muthusamy
Sanjivkumar, Tamil Selvan Silambarasan, and Sylvester Sayen Merlin Sophia, sep,2022.
17. .“ Microbial and Biotechnological Interventions in Bioremediation and Phytoremediation ” [ISBN: 978-3-

031-08829-2 , International book Chapter title : Biotechnological Interventions for Pesticide Remediation and Soil Health Reclamation (Nature, Springer)] by Tanmay Ghosh, Vishal Sharma , Kartikey Sahil, Amit Guleria, Aayushee Thakur, Gaurav Rana, and Manisha Thakur, sep,2022.

18. .“The Chemistry of Elements: Rubidium, Tellurium, Ruthenium and Gadolinium” [ISBN:979-8-88697-965-7, International book Chapter title : The Role of Ruthenium Complexes in Neurological Cancer and Neurodegenerative Diseases (Nova Science Publishers)] by Tanmay Ghosh, Snehlata Katheria, Daniel Amoako Darko, and Bhavya Trivedi, Aug,2023.
19. “Biotech Miracles Harnessing The Power Of Microbes “ [ISBN: 978-93-5834-436-3, International book chapter title: Roles of natural microflora present in Ganga water] by Dr. Tanmay Ghosh, Dr.Subhasish sarkar , Subhasree Roy.

C. INTERNATIONAL BOOK PUBLISHED

1. PLANTS: Antibacterial Potential and Role in Disease Management by Tanmay Ghosh & Mohan Kumar Biswas (2020) (ISBN:978-8-1947-6082-5). (International book- HSRA Publication)
2. Microbial Disease with its Modern Diagnostic Techniques by Tanmay Ghosh (March,2021) (ISBN:978-1- 6780-8955). (International book – Kripa Dristi Publication)
3. A Fundamental Book on Plant Pathology by Tanmay Ghosh (April,2021) (ISBN:978-1-6671-9894-1). (International book– Kripa Dristi Publication)
4. Training and Development Survey at BSNL by Dr. Tanmay Ghosh (March,2022) (ISBN:978-93-94570-15- 3). (International book– Kripa Dristi Publication).
5. Fundamental Book of Food and Dairy Microbiology by Dr. Tanmay Ghosh (July,2022) (ISBN:978-1-387-74292-9) (International Book – Lulu Publication).
6. Inheritance of Human Genetics by Dr. Tanmay Ghosh. (Dec,2022) (ISBN:978-93-94570-34-4) (International Book– Kripa Dristi Publication).
7. Essential and Fundamental Book of Immunology by Dr. Tanmay Ghosh (2022) (ISBN:978-3-9649-2431-5) (International Book – Weser Books).
8. Management Method of Insect-Pest by Dr. Tanmay Ghosh (March,2023) (ISBN: 978-1-387-74292-9) (International Book– Kripa Dristi Publication).
9. Recent Advances In Research of Bacterial Endophytes and their Roles as Ameliorators of Abiotic and Biotic Stresses by Dr. Tanmay Ghosh (2023).
10. MILLETS MAGICAL CROPS (Vol-III) by Dr. Tanmay Ghosh (2023) (ISBN: 978-81-19149-55-1) (International Book– Kripa Dristi Publication).
11. Essentials of Microbiology by Dr. Tanmay Ghosh (2023) (ISBN: 978-81-19149-86-5) (International Book– Kripa Dristi Publication).

12. A Textbook on Interdisciplinary Microbiology (Vol-I) by Dr. Tanmay Ghosh & Dr. Joy Sarkar (2024) (ISBN: 978-81-19149-99-5) (International Book– Kripa Dristi Publication).
13. A Textbook on Interdisciplinary Microbiology (Vol-II) by Dr. Tanmay Ghosh & Dr. Joy Sarkar (2024) (ISBN: 978-81-19149-99-5) (International Book– Kripa Dristi Publication).
14. Biofertilizers and biopesticides: Science and Applications in Agro Ecosystems by Dr. Tanmay Ghosh, Dr. Joy Sarkar & Mr. Rishin Bhattacharyya (2024) (ISBN: 978-81-976840-9-8) (International Book– Kripa Dristi Publication).

EDITOR IN BOOK :

1. “Microbiology and Immunology” (International book) [ISBN: 978-93-90847-97-6] 1st March, 2022. Chief Editor of this book is **Tanmay Ghosh** .

EDITOR IN INTERNATIONAL JOURNAL:

1. “International Journal of Advanced Scientific Research.” (Indexed Journal, Refereed Journal, Peer Reviewed Journal) [ISBN: 2456-0421] 7th June, 2023. Chief Editor of this journal is **Dr. Tanmay Ghosh**.
2. “Frontiers in Water” Journal (Indexed in UGC Care listed, Scopus, PubMed Central, Web of Science, DOAJ Journal) [ISSN:2624-9375] 7th November, 2023. Chief Editor of this Journal is **Dr. Tanmay Ghosh**

Achievement's:

1. Awarded “**Certificate of Excellence**” for outstanding achievements and remarkable contribution in the field of microbiology at New Delhi On 1st May, 2022 .
2. . Awarded “**Hooghly Ratna**” For Research On Microbiology, Agriculture, Mycology, Bacteriology Fields At Kumud Sahitya Mela 2020 On March 4, 2020.
3. Awarded “**BHARAT GAURAV PURASKAR**” for outstanding achievements and remarkable contribution in the field of microbiology at New Delhi on 1st May, 2022 .
4. Awarded “**NATIONAL AWARD**” for remarkable contribution towards society On 2nd December, 2022.
5. Awarded “**SENIOR SCIENTIST AWARD**” for Outstanding Achievements and Remarkable Contribution in the Field of Microbiology by **Microbiologists Society of India** On 21st October, 2023.
6. Dr. Tanmay Ghosh has been designated as a **Royal Fellow** of the **International Organization for Academic and Scientific Development (IOASD)** on 8th November, 2023.
7. Dr. Tanmay Ghosh has been selected as a **Fellow** of the **Linnean Society of London (FLS)** on 18th January 2024.
8. Dr. Tanmay Ghosh has been selected as a **Member** of the **British Society for Antimicrobial Chemotherapy (BSAC)** on 23th March 2024.

9. Dr. Tanmay Ghosh has been selected as a **Member** of the **Royal Society of Biology of London (MRSB)** on 1st April 2024

10. Dr. Tanmay Ghosh awarded “ **Bengal Icon Award** “for best social activist of the year 2024, by Today story news on 22nd December 2024.

11. Dr. Tanmay Ghosh awarded “ **Best scientist Award**” on 31st December 2024 for recognition of his exceptional scientific achievements , groundbreaking research, and invaluable contribution to advancing knowledge in the field of science.

PATENT

(Office of the Controller General of Patents, Designs & Trade Marks Department for Promotion of Industry and Internal Trade, Ministry of Commerce & Industry, Government of India) :

UK (UNITED KINGDOM) PATENT (INTELECTUAL PROPERTY OFFICE)

TITLE OF THE INVENTION	DEVICE TO PROCESS MICROBIOLOGICAL MATERIALS.
APPLICATION NUMBER	6309582
PUBLICATION DATE	20/09/2023
NAME OF THE INVENTORS	<p>1) Dr.Tanmay Ghosh</p> <p>Assistant Professor, Department of Microbiology, The University of Calcutta, Dinabandhu Andrews, College 54, Raja S C Mallick Road, Baishnabghata, 24 Parganas (South), Kolkata, West Bengal, 700084, India.</p> <p>Dr. Biplab Kumar Sarkar</p> <p>Research Unit -Geh Research LLP, Office T “A” 1104, Chembur -400071, M West, Mumbai, Maharashtra, India.</p> <p>Dr. Reena Singh</p> <p>Research Unit -Geh Research LLP, Office T “A” 1104, Chembur -400071, M West, Mumbai, Maharashtra, India.</p> <p>Ms. Vandana Singh</p> <p>Research Unit -Geh Research LLP, Office T “A” 1104, Chembur -400071, M West, Mumbai, Maharashtra, India.</p> <p>Mr. Pawan Kumar Singh</p> <p>Research Unit -Geh Research LLP, Office T “A” 1104, Chembur -400071, M West, Mumbai, Maharashtra, India.</p>

GRANT PATENT

(GOVERNMENT OF INDIA)

TITLE OF THE INVENTION	“NANOTECHNOLOGY BASED FARM ANALYSING DEVICE”
APPLICATION NUMBER	366071-001
PUBLICATION DATE	31/03/2023
NAME OF THE INVENTORS	<p>1)Dr.Tanmay Ghosh</p> <p>Assistant Professor, Department of Microbiology The University of Calcutta, Dinabandhu Andrews College 54, Raja S C Mallick Road, Baishnabghata, 24 Parganas (South), Kolkata, West Bengal, 700084.</p> <p>Dr. Mohan Kumar Biswas</p> <p>Assistant Professor, Department of Plant Pathology, Institute of Agriculture, PSB, Visva-Bharati, Sriniketan, Birbhum, West Bengal, India,731235.</p> <p>Dr. Ranjan Nath</p> <p>Professor (Plant Pathology), Department of Plant Pathology, Palli-Siksha Bhavana, (Institute of Agriculture), Visva-Bharati, Sriniketan, Birbhum, West Bengal, PIN 731236.</p>
TITLE OF THE INVENTION	PLANT VACCINATING DEVICE
APPLICATION NUMBER	392755-001
PUBLICATION DATE	29/02/2024

NAME OF THE INVENTORS	<p>1)Dr.Tanmay Ghosh</p> <p>Assistant Professor, Department of Microbiology The University of Calcutta, Dinabandhu Andrews College 54, Raja S C Mallick Road, Baishnabghata, 24 Parganas (South), Kolkata, West Bengal, 700084.</p> <p>Dr. Mohan Kumar Biswas</p> <p>Assistant Professor, Department of Plant Pathology, Institute of Agriculture, PSB, Visva-Bharati, Sriniketan, Birbhum, West Bengal, India,731235.</p>
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UTILITY PATENT

(GOVERNMENT OF INDIA)

TITLE OF THE INVENTION	COMBINING MACHINE LEARNING MECHANISM WITH STATISTICAL MODELS FOR PREDICTING THE SURVIVAL OF LUNG CANCERS.
APPLICATION NUMBER	202241073543 A
PUBLICATION DATE	13/01/2023

NAME OF THE INVENTORS

1) Dr. Tanmay Ghosh

Address of Applicant :Department of Microbiology The University of Calcutta, Dinabandhu Andrews College 54, Raja S C Mallick Road, Baishnabghata, 24 Parganas (South), Kolkata, West Bengal, 700084, India.

- -----2)Dr. M. Sivakumar

Address of Applicant :Professor & Head, Department of Pharmacognosy, Faculty of Pharmacy, SreeBalaji Medical College and Hospital, Bharath Institute of Higher Education and Research, Chromepet, Chennai - 600044. India.

3) Sundararajan.G

Address of Applicant :Assistant Professor, Department of Pharmaceutics, Faculty of Pharmacy, SreeBalaji Medical College and Hospital, Bharath Institute of Higher Education and Research, Chromepet, Chennai-600044.India.

4) Dr. A. R. Vijayakumar

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5)Dr. Guru Prasad Muppala

Address of Applicant :Assistant General Manager (R&D), Vaishnavi microbial Pvt. Ltd., Hyderabad, Telangana- 500033, India. --

6) Dr. S. Preethi Priya dharshni

Address of Applicant :Assistant Professor

	<p>School of Pharmacy Haramaya University Harar Ethiopia</p> <p>7) Anwar khan</p> <p>Address of Applicant :Research officer, Assistant professor,Department of Pharmaceutics, ERA college of pharmacy, ERA university, Sarfarazganj, lucknow, Uttar pradesh, 226003, India. -----</p> <p>8) Jagath Prasad Sreedhar.G</p> <p>Address of Applicant :Faculty, University of Technology and Applied Sciences, Muscat, Sultanate of Oman-33. -----</p> <p>9) Archana Pattanaik</p> <p>Address of Applicant :Assistant Professor, srijayadev college of pharmaceutical sciences,bhubaneswar,Khurda,odisha Pin code: 752101 Country: India. ----- ---</p> <p>10) Dr. Bibin K Jose</p> <p>Address of Applicant :Associate Professor PG & Research Department of Mathematics, Sanatana Dharma College Alappuzha, Alappuzha -3, Kerala, 688003, India. ----- -</p> <p>11) Rizwan Ul Hasan</p> <p>Address of Applicant :Associate Professor Pharmacognosy &Phytochemistry Era college of Pharmacy Era University sarfarajganj, Lucknow,Uttar Pradesh- 226033, India. ----- -----</p> <p>12) Udara Rangana Jayathilaka</p> <p>Address of Applicant :Department Of Global Business Management, Gangseo University,</p>
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Seoul, South Korea. -----

TITLE OF THE INVENTION	A STUDY OF ANTI OBESITY ACTIVITY OF ETHANOLIC LEAVES EXTRACTS OF ALTERNANTHERA SESSILE IN WISTER RATS.
APPLICATION NUMBER	202331004338 A
PUBLICATION DATE	27/01/2023
NAME OF THE INVENTORS	<p>1) Dr.Tanmay Ghosh</p> <p>Address of Applicant :Assistant Professor, Department of Microbiology, The University of Calcutta, Dinabandhu Andrews College 54, Raja S C Mallick Road, Baishnabghata, 24 Parganas (South), Kolkata, West Bengal, India – 700084. -----</p> <p>2) Dr.Pugazhandhi Bakthavatchalam</p> <p>Address of Applicant :Senior Lecturer, Department of Anatomy, Faculty of Medicine and Health Sciences, Quest International University (QIU), 30250 - Ipoh, Perak, Malaysia. -----</p> <p>3) Dr. Ashok Gnanasekaran</p> <p>Address of Applicant :Professor, Department of Microbiology, Faculty of Medicine and Health Sciences, Centre for Infectious Diseases and Phytochemical Studies, Quest International University (QIU), 30250 - Ipoh, Perak, Malaysia. -----</p> <p>4) Mr. Anwar khan</p> <p>Address of Applicant :Research officer, Assistant Professor, Department of pharmaceuticals, ERA college of pharmacy, ERA university, Hardoi road, Sarfarazganj, Lucknow, Uttar Pradesh, India - 226003.</p> <p>5) Dr.C.Radhika</p>

	<p>Address of Applicant :Associate Professor, Department of Pharmacology, Sri Venkateswara College of Pharmacy, RVS Nagar, Chittoor, Andhra Pradesh, India - 517127. --- -----</p> <p>6) Mr. Ajay Singh Sarthi</p> <p>Address of Applicant :Assistant Professor, Department of Pharmacy, Rungta College of Pharmaceutical Sciences And Research, Raipur, Chhattisgarh, India - 492099. ----- -----</p> <p>7) Ms. Ishwari Choudhary</p> <p>Address of Applicant :Assistant Professor, Department of Pharmacy, Raigarh College of Pharmacy, Raigarh, Chhattisgarh, India - 496001. -----</p> <p>8) Mr. Swapan Banerjee</p> <p>Address of Applicant :Research Scholar, Department of Nutrition, Seacom Skills University, Bolpur, West Bengal, India - 731236. -----</p> <p>9) Dr. Guru Prasad Muppala</p> <p>Address of Applicant :Assistant General Manager (R&D), R&D Department, Vaishnavi Microbial Pvt. Ltd, Hyderabad, Telangana, India -500033. -----</p>
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TITLE OF THE INVENTION	AUTOLOGOUS PLATELET RICH PLASMA (PRGF)PRESERVES GENOMIC STABILITY OF GINGIVAL FIBROBLASTS AND ALVEOLAR OSTEOBLASTS AFTER LONG-TERM CELL CULTURE.
APPLICATION NUMBER	202341016909
PUBLICATION DATE	14/03/2023

NAME OF THE INVENTORS	<p>1)Dr.Tanmay Ghosh</p> <p>Assistant Professor, Department ofMicrobiology, The University ofCalcutta, Dinabandhu Andrews College 54, Raja S C Mallick Road,Baishnabghata, 24 Parganas (South), Kolkata, West Bengal, 700084,India.</p>
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	<p>Sivaa Arumugam Ramakrishnan</p> <p>Research Student (M.Pharm), JSS College of Pharmacy, Ooty, TamilNadu, IndiaSindhu Kalajirao</p> <p>Research Student (M.Pharm), JSS College of Pharmacy, Ooty, Tamil Nadu, India</p> <p>Deepalaxmi RK</p> <p>Hindusthan College of Arts and Science, Behind Nava India Gardens, Peelamedu, Coimbatore- 641028, India.Saahil Mehmood Sunrise University Alwar Rajasthan, Chakpath Near receiving station</p> <p>Shankerpora , doru , anantnag ,j&k,192211.Jammu and Kashmir,India</p> <p>Mr. Souvik Giri</p> <p>Assistant Professor, Department of Pharmaceutics, Sri Jayadev College of Pharmaceutical Sciences, Naharkanta, Bhubaneswar, India– 752101.Shilpa ChandelAssociate Professor, Faculty of Pharmaceutical Sciences, The ICFAI University, Baddi, Himachal Pradesh, India -174103.</p> <p>Mr. Debasis Patra Assistant Professor,</p> <p>Department of Pharmacology, School of Pharmacy, Centurion University of Technology and Management,Balasore, Odisha, India -756044.</p> <p>Prashant Singh Professor, Department of Pharmaceutics, Buddha Institute of Pharmacy, GIDA, Gorakhpur, Uttar Pradesh - 273209</p> <p>Dr Kapil Paiwa Daswani Dental College & Research Center, St number 12, NaiAbadi Hanumangarh Town-335513, Rajasthan, India.</p>
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TITLE OF THE INVENTION	SOLAR POWERED SOIL TESTING DEVICE WITH BIOFERTILIZER DISPENSER
APPLICATION NUMBER	439696-001
PUBLICATION DATE	18/02/2025
NAME OF THE INVENTORS	<p>Dr. Tanmay Ghosh Assistant Professor, Department of Microbiology, The University of Calcutta, Dinabandhu Andrews College 54, Raja S C Mallick Road, Baishnabghata, 24 Parganas (South), Kolkata, West Bengal, 700084, India.</p> <p>Dr. Souvik Tewari Dr. Shweta Parida. Dr. Sanjukta kar . Ms. Anindita Ghosh. Mrs. Paromita Mukherjee. Dr. Ranajit Kumar Khalua.</p>

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TOPIC	AUTHOR	GOVERNMENT
Alkaloid-Encapsulated Nanoparticles from Hoodia gordonii: Synthesis, Characterization, and Antioxidant Effects in Rectal Cancer	Dixit, Dr. Raghav, Panda, Dr. Simanchal, Divakar, Dr. Madhu. c., Maiti, Dr. Nigam Jyoti, Devarajan, Dr. Agilandeshwari, Jain, Dr. Sanmati Kumar, B S, Dr. Ashok Kumar, Kumar, Dr. Anil, Ghosh, Dr. Tanmay, Singh, Dr. Harjeet	Government of Canada
SYNTHESIS AND CHARACTERIZATION OF SILVER NANOPARTICLES LOADED DR. TANMAY GHOSH, CISPLATIN FOR POTENTIAL CANCER THERAPY.	Dr. Tanmay Ghosh, DR. SOMA DAS, DR. VIABHAV KUMAR UPADHAYAY, DR. ANIL KUMAR, MR. LALATENDU MOHANTY,	Government of India

LIST OF AWARD

A. SPECIAL AWARD

Awarded for young researchers award 2020 on institute of scholars (INSC) for best paper on mechanisms involve in jute resistance to *Macrophomina phaseolina* which published in plant cell biotechnology and molecular biology journal (Vol: 19 issue no.: 3 & 4, page: 91 – 106, 2018).

B. AWARD

1. Awarded For Best Paper In ISER International Conference On Agriculture, Forestry And Life Science Conference On 6th July 2019 At Kolkata, West Bengal.
2. Awarded For Best Paper In International Conference On Environment, Agriculture And Biotechnology On 30th June 2019 At Kolkata, West Bengal.
3. Honorary Awards On Appreciation Of Outstanding Dedication And Service To The Nation And Fight Against Novel Corona (Covid-19). In Lockdown Period, 19th November, 2020, Raina II, Purba Bardhaman, West Bengal.
4. Honorary Awards From International Researcher Award By Central Christian University, Malawi For In Recognition For The Outstanding Contribution And Dedication In The Field Of Research @ The Prashas Trust Awards Function Held On 20th March, 2021, Hyderabad, India
5. Awarded In Recognition Of Outstanding Professional Research Achievements In The Field Of Microbiology By Institute Of Researchers On 16th June, 2021.
6. Young scientists Awarded In Recognition Of Outstanding Professional Research Achievements In The Field Of (Agriculture) in Microbiology , Biotechnology , Biochemistry , Agriculture microbiology, Seed microbiology , Agriculture pathology , environmental pathology By Society of Agricultural research and social development, New delhi On 20 th dec, 2022.
7. Awarded In SWAMI VIVEKANANDA EXCELLENCE AWARD 2023 , Registered under Society Act, Govt. of West Bengal Registered under Niti Ayog, Govt. of India Affiliated with NYKS, Ministry of Sports & Youth Affairs, Govt. of India Registered for CSR under Ministry of Corporate Affairs, Govt. of India Registered for 10B, 12A & 80G under Income Tax Act, 1961 An ISO 9001:2015 certified organization On 25th June, 2023 At Kolkata, West Bengal.
8. Awarded In RASTRIYA SEVA SAMMAN 2023 by doing excellent work in the field of education by Sangam Academy and Publication, Rajasthan On 15 th July, 2023.
9. Awarded in Netaji Subhaschandra Bose Memorial Award 2024, for based education, social work value & accomplishments demonstrated in his life time carrier, by Sahara Charitable Trust on 27th January 2024.
10. Awarded in SOMAJBONDHU SOMMANONA 2024 on 4th February 2024.
11. RABINDRA RATNA PUROSKAR 2024 on 1st July, 2024.
12. Awarded in the field of education & research from American Merit Council on 5th July, 2024.
13. Dr. Tanmay Ghosh awarded “ Bengal Icon Award “for best social activist of the year 2024, by Today story news on 22nd December 2024.

14. Dr. Tanmay Ghosh awarded “ Best scientist Award” on 31st December 2024 for recognition of his exceptional scientific achievements , groundbreaking research, and invaluable contribution to advancing knowledge in the field of science.

C. REVIEWER AWARD

1. Awarded for review the research paper on Journal of Agricultural and Practice of “Effect of Foliar Application of Gibberellic acid (GA3) on Quality Attributes of Calendula Flowers(*calendula officinalis*) C.V. Gitana fiesta” on 30th July, 2020.
2. Awarded For Best Reviewer On International Journal Of Basic And Applied Sciences Journal On December,2020.
3. Awarded For Best Reviewer for the journal South Asian Research Journal of Biology and Applied Bioscience Journal On October,2023.

SUMMER TRAINING PROGRAMME

1. Awarded For Participating In The 15 Days Online Summer Training On In Silico Tools For Molecular Biology By Biosrishti From 02 – 18th June, 2021.
2. “Microbial Inoculants Technology (Phase-1) “ Organized by the Department Of Microbiology, Sacred Heart College (Autonomous), Tirupattur, Tamilnadu ,India in association with Microbiologist Society India and Laboratory of Chemical and Biological Analysis (LAQB) Western Rio Janeiro State University (UEZO), on 4th July-8th August, 2021 .
3. Online Hands on Training Programme on Primer Designing and Recombinant Vector Construction,13th& 14th July, 2020, Mar Athanasios Collegefor Advanced Studies Tiruvalla (Macfast), Kerala.
4. International Online Faculty Enrichment Programme on Tips & Tricks for Publishing in International.Scientific Journals, 20th June, 2020, Surendranath College, Kolkata, West Bengal.

MEMBERSHIP

1. Lifetime membership of Institute of Scholars (InSc).
2. Lifetime membership of Microbiologists Society of India.
3. Membership of International Association of Oncology (IAO) from 29.04.2021 to 31.12.2022.
4. Member of Editorial Board of International Journal of Research and Analysis in Science and Engineering.
5. Life time membership on Institute of Researchers.
6. Member of Agricultural research and social development, New Delhi.

SELF DECLARATION

I hereby declare that the above written particulars are true to the best of my knowledge and belief. I assure you of my full sincerity and devotion in executing the duties related to the post, should I be given a chance to serve.

Dr. Tanmay Ghosh