

Curriculum vitae

Dr. PRIYAJIT BANERJEE, Ph.D.

Associate Professor, Department of Biotechnology
Officer on Special Duty, PhD Cell
Swami Vivekananda University
West Bengal, India.

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PERSONAL DETAILS

FATHER'S NAME	:	PARTHA SARATHI BANERJEE
MOTHER'S NAME	:	SIMA BANERJEE
DATE OF BIRTH	:	28 TH SEPTEMBER, 1988
GENDER	:	MALE
MARITAL STATUS	:	MARRIED
NATIONALITY	:	INDIAN
RELIGION	:	HINDU
LANGUAGES	:	ENGLISH; BENGALI; HINDI
ADDRESS	:	NUTANPALLY, PO- SURI, DIST. – BIRBHUM, WEST BENGAL, INDIA, PIN NO- 731101

CAREER PROFILE

Exam	Institute	Board/University	Year	Percentage/CGPA
School Certificate (10 th)	Birbhum Zilla School	WBBSE	2006	91.37 (54 th rank in West Bengal)
Pre Degreee (12 th)	Birbhum Zilla School	WBCHSE	2008	81.75
B.Sc	Visva-Bharati	Visva-Bharati	2012	75.6

Hons Zoology	University	University		(2 nd in 1 st class in university)
M.Sc (Biotechnology)	Visva-Bharati	Visva-Bharati	2014	8.44 (1 st in 1 st class in university)
JAM		Indian Institute of Technology (IIT)	2012	All India Rank: 128

PH.D. IN BIOTECHNOLOGY

Research work was carried out at **UNESCO-Regional Centre for Biotechnology (RCB)**

NCR Biotech Science Cluster, Faridabad-121 001, Haryana, India.

Affiliation: KIIT University, Bhubaneswar, Odisha, India.

TITLE OF THESIS: “Structural and functional analysis of FleQ: A master regulator of flagellar and biofilm genes in *Pseudomonas aeruginosa*”

Supervisor: Dr. Deepti Jain,

Associate Professor, RCB, Faridabad; Email: deepti@rcb.res.in

CGPA: 9.00/10.00 (Grade: A+)

Year of Award: 2021

POSTDOCTORAL RESEARCH

Postdoctoral researcher 2022- 2024

DST – SERB National Postdoctoral Fellow

The University of Burdwan, West Bengal, India

Principle Investigator: Dr. Priyajit Banerjee

Grant No: PDF/2021/003023

Grant Amount: INR 20,25,600

Mentor: Prof. Nimai Chandra Saha

Vice Chancellor, The University of Burdwan, West Bengal, India.

TEACHING EXPERIENCE

- 1. Associate Professor**
Department of Biotechnology
School of Life Sciences
Swami Vivekananda University
West Bengal, India
Duration from 1.04.2026 to till date

- 2. Assistant Professor**
Department of Biotechnology
School of Life Sciences
Swami Vivekananda University
West Bengal, India
Duration from 02.02.2024 to 31.03.2026

Courses taught at the Department of Biotechnology and Department of Microbiology, Swami Vivekananda University.

- Proteomics and Protein engineering
- Eco-Toxicology
- Drug Discovery
- Biochemistry
- Recombinant DNA Technology
- Biophysical Chemistry and Instrumentation

- 3. Subject Expert**
Department of Molecular Biology and Human Genetics
The University of Burdwan
West Bengal, India
Duration from 28.01.2022 to 27.01.2024

Courses taught at the Department of Molecular Biology and Human Genetics, The University of Burdwan

- Molecular Biology
- Clinical Genetics
- Biochemistry
- Genetic Engineering & Model Genetic Systems
- Biophysics

AREA OF RESEARCH INTEREST

My laboratory focuses on Drug Discovery, Protein Engineering, and Safety/Toxicity Assessment, integrating computational and experimental approaches. Our work explores natural and synthetic bioactive molecules, engineers' proteins and enzymes with therapeutic and industrial relevance, and evaluates safety through toxicity profiling in biological models. The ultimate aim is to bridge fundamental protein science with translational drug development and precision medicine.

Total Citations: 855

h-index: 14

i10-index- 18

GRANT RECEIVED

Project granted:

Sl. No	Sponsoring Agency	Name of the project	Duration		Amount in Lakhs	PI/ CO - PI
			Starting Month & Year	Ending month & Year		
1	DST – SERB	Reveling mechanism of infection and structure assisted drug discovery to fish pathogenic oomycete <i>Saprolegnia parasitica</i>	Jan, 2022	Jan, 2024	20.25 Lc	PI
2	ICSSR	Post-Covid Era and the Zero Generation: Vulnerability, Resilience and Adaptive Capacity in Ageing Communities of selected Urban Spaces of North-East India	Sep, 2024	Sep, 2025	10 Lc	Co- PI

3	SVU Seed Grant	Development of Probiotic and Melatonin-Based Therapeutic Strategy Against Chronic Environmental Toxicant Syndrome (CETS) Using Zebrafish as a Model Organism	June, 2025	(Ongoing)	2.5 Lc	PI
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Consultancy Project Grant:

Sl No.	Project title	Funding Agency	Duration	Completed (yes/no)	Sanctioned amount (in Rs.)	PI and CO-PI (if any)
1	Investigating the Synergistic Antifungal Effects of Bioavailable Curcumin and Berberine to Combat Drug-Resistant <i>Candida albicans</i>	Polyfeenolix Research Laboratory (OPC) Pvt. Ltd. (Industrial R&D Grant)	Year	Yes	All Consumable and Contingency spent	PI

RESEARCH SUPERVISION

	Supervisor / Co-Supervisor	University	Number
Number of students awarded with PhD Degree	Supervisor	Swami Vivekananda University	2
Number of students working for PhD	Supervisor	Swami Vivekananda University	4
Number of students submitted MSc dissertation thesis	Supervisor	Swami Vivekananda University	3
Number of students submitted MSc dissertation thesis	Co-Supervisor	MBHG Department, The University of Burdwan	1

JOURNAL ROLE

Reviewer of reputed journal-

Journal of Hazardous Materials (IF: 12.2)

Comparative Biochemistry and Physiology Part C (Elsevier) (IF: 3.9)

Frontiers in Immunology (IF: 7.8)

HONORS/FELLOWSHIPS

- 2012 - 1st class 2nd in B.Sc (Hons Zoology) in Visva-Bharati University
- 2014 - 1st class 1st in M.Sc (Biotechnology) in Visva-Bharati University
- 2014 - Qualified the UGC – CSIR NET
- 2014 - Qualified the DBT JRF
- 2014 - Qualified the JGEBILLS
- 2014 – GATE, Life Science
- 2015 - DST INSPIRE award for PhD
- 2017 - Best Poster award at RCB – PAC meeting.
- 2017 - David Blow Studentship Bursary Award, United Kingdom.
- 2018 - Best Poster award at RCB – RCB Open Day (India International Science Festival)
- 2019 – Carl Storm International Diversity Fellowship, USA.
- 2019 – DST-SERB international travel grant.
- 2022 – National Post Doctoral Fellowship (NPDF)

PUBLICATIONS

BEST FIVE RESEARCH ARTICLES

1. Chanchal#, **Banerjee P#**, Raghav S, Goswami HN, Jain D; The antiactivator FleN uses an allosteric mechanism to regulate σ^{54} -dependent expression of flagellar genes in *Pseudomonas aeruginosa*. **Science Advances**. 2021 Oct 22;7(43) eabj1792. DOI: 10.1126/sciadv.abj1792. (# - equal contribution).
(Impact Factor: 14.1).

2. **Banerjee P**, Sahoo PK, Sheenu, Adhikary A, Ruhel R, Jain D; Molecular and Structural facets of c-di-GMP signalling associated with biofilm formation in *Pseudomonas aeruginosa*. **Mol Aspects Med**. 2021 Oct; 81:101001. DOI: 10.1016/j.mam.2021.101001.
(Impact Factor: 16.3)
3. Naskar T, Faruq M, **Banerjee P**, Khan M, Midha R, Kumari R, Devasenapathy S, Prajapati B, Sengupta S, Jain D, Mukerji M, Singh NC, Sinha S. Ancestral Variations of the PCDHG Gene Cluster Predispose to Dyslexia in a Multiplex Family. **EBioMedicine**. 2018 Feb; 28:168-179. Epub 2018 Jan 9. DOI: 10.1016/j.ebiom.2017.12.031.
(Impact Factor: 11.2)
4. Sharma, P., Garai, P., **Banerjee, P.**, Saha, S., Chukwuka, AV., Chatterjee, S., Saha, NC., Faggio, C. Behavioral toxicity, histopathological alterations and oxidative stress in Tubifex tubifex exposed to aromatic carboxylic acids- acetic acid and benzoic acid: A comparative time-dependent toxicity assessment. **Science of The Total Environment**, 876, (2023). <https://doi.org/10.1016/j.scitotenv.2023.162739>
(Impact Factor: 10.75)
5. Ganai, I.; Saha, I.; **Banerjee, P.**; Laha, A.; Sultana, S.; Sultana, N.; Biswas, H.; Moitra, S.; Podder, S. In silico analysis of single nucleotide polymorphism (rs34377097) of TBXA2R gene and pollen induced bronchial asthma susceptibility in West Bengal population, India. **Frontiers in Immunology**, 2023, 14, 1089514. DOI: 10.3389/fimmu.2023.1089514
(Impact Factor: 7.8)

PUBLISHED RESEARCH ARTICLES

1. Chanchal, **Banerjee P**, Jain D. ATP-Induced Structural Remodeling in the Antiactivator FleN Enables Formation of the Functional Dimeric Form. **Structure**. (ISSN: 0969-2126). 2017 Feb 7;25(2):243-252 DOI: 10.1016/j.str.2016.11.022.
(Impact Factor: 5.7)
2. Naskar T, Faruq M, **Banerjee P**, Khan M, Midha R, Kumari R, Devasenapathy S, Prajapati B, Sengupta S, Jain D, Mukerji M, Singh NC, Sinha S. Ancestral Variations of the PCDHG Gene Cluster Predispose to Dyslexia in a Multiplex Family. **EBioMedicine**. (ISSN: 2352-3964) 2018 Feb; 28:168-179. Epub 2018 Jan 9. DOI: 10.1016/j.ebiom.2017.12.031.
(Impact Factor: 11.1)
3. Chanchal#, **Banerjee P**#, Raghav S, Goswami HN, Jain D; The antiactivator FleN uses an allosteric mechanism to regulate σ^{54} -dependent expression of flagellar genes in *Pseudomonas aeruginosa*. **Science Advances**. (ISSN: 2375-2548) 2021 Oct 22;7(43) eabj1792. DOI: 10.1126/sciadv.abj1792.
(# - equal contribution). (Impact Factor: 14.1).

4. **Banerjee P**, Chanchal, Jain D. Sensor I Regulated ATPase Activity of FleQ Is Essential for Motility to Biofilm Transition in *Pseudomonas aeruginosa*. **ACS Chemical Biology** (ISSN: 1554-8929) 2019 Jul 19;14(7):1515-1527. DOI: 10.1021/acscchembio.9b00255. Epub 2019 Jul 3.
(Impact Factor: 4.0)
5. **Banerjee P**, Sahoo PK, Sheenu, Adhikary A, Ruhel R, Jain D; Molecular and Structural facets of c-di-GMP signalling associated with biofilm formation in *Pseudomonas aeruginosa*. **Molecular Aspects of Medicine**. (ISSN: 0098-2997). 2021 Oct; 81:101001. DOI: 10.1016/j.mam.2021.101001.
(Impact Factor: 16.3)
6. Sharma G, Aminedi R, Saxena D, Gupta A, **Banerjee P**, Jain D, Chandran D. Effector mining from the *Erysiphe pisi* haustorial transcriptome identifies novel candidates involved in pea powdery mildew pathogenesis. **Molecular Plant Pathology**. (ISSN: 1464-6722). 2019 Nov;20(11):1506-1522. DOI: 10.1111/mpp.12862. Epub 2019 Oct 11. PMID: 31603276.
(Impact Factor:4.9)
7. Garai, P#, **Banerjee P#**, Sharma, P# et al. Nitrate-Induced Toxicity and Potential Attenuation of Behavioural and Stress Biomarkers in *Tubifex tubifex*. **International Journal of Environmental Research**. (ISSN: 1735-6865) 16, 63 (2022). DOI: 10.1007/s41742-022-00443-4. (# - equal contribution).
(Impact Factor: 3.22).
8. **Banerjee, P.**, Saha, I., Sarkar, D. et al. Contributions and Limitations of Mitochondria-Targeted and Non-Targeted Antioxidants in the Treatment of Parkinsonism: an Updated Review. **Neurotoxicity Research**. (ISSN: 1029-8428). 40, 847–873 (2022). DOI: 10.1007/s12640-022-00501-x.
(Impact Factor: 3.97).
9. Garai, P.#, **Banerjee, P.#**, Sharma, P. et al. Mechanistic insights to lactic and formic acid toxicity on benthic oligochaete worm *Tubifex tubifex*. **Environmental Science and Pollution Research** (ISSN: 0944-1344). (2022). 29(58):87319-87333. DOI: 10.1007/s11356-022-21361-0. (# - equal contribution).
(Impact Factor: 5.8)
10. Saha, S., Saha, NC., Chatterjee. A., **Banerjee, P.**, Garai, P., Sharma, P., Patnaik, L., Nayak, S., Dhara, K., Chukwuka, AV., Faggio C. Integrated multi-biomarker responses in Mozambique tilapia, *Oreochromis mossambicus* under acute and chronic Diazinon® exposures. **Chemistry and Ecology**. (ISSN: 0275-7540). 264, (2023) <https://doi.org/10.1080/02757540.2023.2178649>.
(Impact Factor: 2.5)
11. Sharma, P., Garai, P., **Banerjee, P.**, Saha, S., Chukwuka, AV., Chatterjee, S., Saha, NC., Faggio, C. Behavioral toxicity, histopathological alterations and oxidative stress in *Tubifex tubifex* exposed to aromatic carboxylic acids- acetic acid and benzoic acid: A comparative time-dependent toxicity

assessment. **Science of The Total Environment**, (ISSN: 0749-6419) 876, (2023).
<https://doi.org/10.1016/j.scitotenv.2023.162739>

(Impact Factor: 10.752)

12. Garai P., **Banerjee P.**, Mondal P., Saha N.C. (2021). Effect of Heavy Metals on Fishes: Toxicity and Bioaccumulation. **Journal of Clinical Toxicology**. Vol. 11 Iss. S18 No: 001
13. **Banerjee P.**, Garai P., Saha N.C., Saha S., Sharma P., Maiti A.K. A critical review on the effect of nitrate pollution in aquatic invertebrates and fish. **Water Air Soil Pollution**. (ISSN: 1573-2932) (2023) 234, 333. <https://doi.org/10.1007/s11270-023-06260-5>.

(Impact Factor: 2.98)

14. Saha S., **Banerjee P.**, Saha N.C., Chukwuka A.V. Triazophos-induced Respiratory and Behavioral Effects and Development of Adverse Outcome Pathway (AOP) for short-term Exposed Freshwater Snail, *Bellamya Bengalensis*. **Bulletin of Environmental Contamination and Toxicology**. (ISSN: 0007-4861) (2023) 110:94. DOI: 10.1007/s00128-023-03734-4

(Impact Factor: 2.7)

15. Garai P., Sharma P., **Banerjee P.**, Chatterjee A., Saha NC., 2022. Formic acid induced acute toxicity and its sublethal effects on growth, behavioral pattern and oxidative stress parameters of the freshwater snail *Bellamya bengalensis*. **Science and Culture**. 2023, 89 (3–4) : 84-93
16. Chukwuka A.V., Saha S., Mukherjee D., **Banerjee P.**, Dhara K., Saha N.C. Deltamethrin-Induced Respiratory and Behavioral Effects and Adverse Outcome Pathways (AOP) in Short-Term Exposed Mozambique Tilapia, *Oreochromis mossambicus*. **Toxics**. (ISSN: 2305-6304). 2022, 10(11), 701. DOI: 10.3390/toxics10110701

(Impact Factor: 4.6)

17. Ganai, I.; Saha, I.; **Banerjee, P.**; Laha, A.; Sultana, S.; Sultana, N.; Biswas, H.; Moitra, S.; Podder, S. In silico analysis of single nucleotide polymorphism (rs34377097) of TBXA2R gene and pollen induced bronchial asthma susceptibility in West Bengal population, India. **Frontiers in Immunology**. (ISSN: 1664-3224). 2023, 14, 1089514. DOI: 10.3389/fimmu.2023.1089514

(Impact Factor: 7.3)

18. Majumdar N., Saha NC., **Banerjee P.**, Bhattacharya T., Saha S. Acute and sub-acute toxic effects of cadmium to freshwater tropical oligochaete *Tubifex tubifex* with special reference to oxidative stress and behavioural biomarkers, **Chemistry and Ecology**. (ISSN: 0275-7540). 2023, DOI: 10.1080/02757540.2023.2263439

(Impact Factor: 2.5)

19. Sultana S#, **Banerjee P#**, Ganai I, Laha A, Sultana N, Biswas H, Saha NC, Moitra S, Podder S. Polymorphism in ADAM33 gene associated with asthmatics in West Bengal, India - An investigation by in-silico analysis. **World Allergy Organization Journal**. (ISSN: 1939-4551). 2023 Nov 8;16(11):100834. Doi: 10.1016/j.waojou.2023.100834. (# - equal contribution).

(Impact Factor: 5.1)

20. Saha NC, **Banerjee P**, Chatterjee A, Bhattacharya R, Saha S, Pastorino P. Haematological, biochemical, enzymological changes and mitochondrial dysfunction of liver in freshwater climbing perch *Anabas testudineus* during their acute and chronic exposure to sodium fluoride. **Environmental Toxicology and Pharmacology**. (ISSN: 1382-6689). 2024 Mar;106:104360. **(Impact Factor: 4.3)**
21. Ghosh S, Spoorthi BC, **Banerjee P**, Saha I, Dua TK, Sahu R, Maiti AK. 10-(6-Plastoquinonyl) decyltriphenylphosphonium imparts anti-colitogenic protection through recovery of mitochondrial dysfunction in ulcerated murine colon: Implications in ulcerative colitis. **Life Sciences**. (ISSN: 0024-3205). July 2024 348, 122700. Doi: 10.1016/j.lfs.2024.122700. **(Impact Factor: 5.1)**
22. Saha, N.C.; Chaerjee, A.; **Banerjee, P.**; Bhaacharya, R.; Sadhu, A.; Pastorino, P.; Saha, S. Toxic Effects of Lead Exposure on Freshwater Climbing Perch, *Anabas testudineus*, and Bioremediation Using *Ocimum sanctum* Leaf Powder. **Toxics**. (ISSN: 2305-6304). 12(12), 927 Doi: 10.3390/toxics12120927. **(Impact Factor: 4.6)**
23. Mandal S, Nag S, Mukherjee O, Das N, Banerjee P, Majumdar T, Mukhopadhyay S, Maedler K, Kundu R. CD36 inhibition corrects lipid-FetuinA mediated insulin secretory defects by preventing intracellular lipid accumulation and inflammation in the pancreatic beta cells. **BBA - Molecular Basis of Disease**. (ISSN: 0925-4439) 2025 Feb;1871(2):167580. doi: 10.1016/j.bbadis.2024.167580. **(Impact Factor: 5.5)**
24. Choudhury S, Saha I, Bandyopadhyay B, **Banerjee P**. Probiotic and Synbiotic Isolates from Whey Water and Fermented Rice Water Exert Compelling Wound-Healing Efficacy in a Diabetic Mouse Model. **Biotechnology and Applied Biochemistry**. (ISSN: 1470-8744) 2025 Jun 18. doi: 10.1002/bab.70013. **(Impact Factor: 2.7)**
25. Sarkar S, Sharma D, Manna S, Saha NC, **Banerjee P**. Systems Biology Approach to Berberine Metabolomics and Toxicity: An In Silico Investigation of Bioactive Pathways and Risk Assessment. **Biotechnology and Applied Biochemistry**. (ISSN: 1470-8744). 2025 Nov 21. doi: 10.1002/bab.70096. **(Impact Factor: 2.7)**
26. Ghosh S, Sarkar S, Garai P, Maiti AK, Saha NC, **Banerjee P**. Exploring Alternative Therapeutic Strategies Against Drug-Resistant *Candida albicans* for Immunocompromised Patients. **Discover Applied Sciences**. (ISSN: 3004-9261) 2025, 7, 1284. doi: 10.1007/s42452-025-07493-1 **(Impact Factor: 2.8)**
27. Chakraborty A., **Banerjee P.**, Saha N.C., Pal P. Synergistic microbial consortia in the bioremediation of heavy metal-contaminated wastewater: mechanisms and sustainability perspectives. **Environmental Geochemistry and Health**. 2026. 48, 94. doi: 10.1007/s10653-026-02975-6 **(Impact Factor: 4.1)**
28. Dhara K., Ghosh S., Barman M., Dey S., Sen K., Banerjee P., Saha N. C., Multisanti C. R., Saha S., Faggio C. Multi-level toxicity assessment of sub-lethal mercury exposure in *Clarias batrachus*.

29. Saha, I., Sinha, A., Kumar Sadhu, A., Das, R. N., Ghosh, S., **Banerjee, P.**, Banerjee, O., Sarkar Biswas, S., Mukherjee, S., & Pal, P. K. Renal function dynamics in COVID-19: exploring biomarker interactions with D-dimer and C-reactive proteins. **Bioscience reports**, (2026) 46(4), BSR20254002. <https://doi.org/10.1042/BSR20254002>. (Impact Factor: 4.5)

Book chapter:

Sl. No.	Title of the book	Publishers	Author(s) Name (Highlight the corresponding and 1 st author in every article)	Year	ISBN No.	doi no. (if applicable)
1	The Living Laboratory	AkiNik Publications	Anindita Nandy, Palash Kumar Pal, Priya Roy, Nimai Chandra Saha and Priyajit Banerjee	2025	978-93-6135-634-6	https://doi.org/10.22271/ed.book.3211
2	Book title Life at the Molecular Level an Understanding of Biology	Bright Sky Publications	Dipti Das, Tanisha Bhowmick, Tiyaasha Saha, Priyajit Banerjee, Bidisha Ghosh, Subhasis Sarkar and Suranjana Sarkar	2025	78-93-6233-647-7	https://doi.org/10.62906/bs.book.332
3	The Living Laboratory	AkiNik Publications	Aritra Chatterjee, Sumita Mal, Priyajit Banerjee, Bidisha Ghosh, Subhasis Sarkar and Suranjana Sarkar	2025	978-93-6135-634-6	https://doi.org/10.22271/ed.book.3211
4	Blueprints of Life: Unlockng the Power of Modern Biotechnology	Penprints Academic	Misha Sarkar', Suranjana Sarkar', Palash Kumar Pal: Priyajit Banerjee	2025	978-81-988004-7-3	
5	Blueprints of Life: Unlockng the Power of Modern Biotechnology	Penprints Academic	Sutrishna Manna, Suranjana Sarkar', Nimai Chandra Saha", Priyajit Banerjee*	2025	978-81-988004-7-3	
6	Blueprints of Life: Unlockng the Power of Modern Biotechnology	Penprints Academic	Souradeep Banerjee', Tuhin Mukherjee', Tanya Das!, Ghosh', Suranjana Sarkar, Mayisha Sultana',S atadru Priyajit Banerjee!	2025	978-81-988004-7-3	
7	Blueprints of Life: Unlockng the Power of	Penprints Academic	Ananyo Mazumdar, Aditya Das, Beas Dutta, Tiyaasa Manna, Priyajit Banerjee	2025	978-81-988004-7-	

	Modern Biotechnology					
8	Blueprints of Life: Unlockng the Power of Modern Biotechnology	Penprints Academic	<i>Souradeep Banerjee, Tuhin Mukherjee, Tanya Das, Mayisha Sultana, Satadru Ghosh, Suranjana Sarkar, Priyajit Banerjee</i>	2025	978-81-988004-7-	
9	Microbial Menace and Miracle: The Double-Edged Sword of Infection and Immunity	Penprints Academic	<i>Riyanka Sarkar, 'Priyajit Banerjee, 'Anusuya Chakraborty, Suranjana Sarkar</i>	2025	978-81-984719-5-6	
10	Microbial Menace and Miracle: The Double-Edged Sword of Infection and Immunity	Penprints Academic	<i>1Sumana Majumder, Avinanda Kundu, "Priyajit Banerjee, Debanshu Sharma 2Suranjana Sarkar</i>	2025	978-81-984719-5-6	
11	Microbial Menace and Miracle: The Double-Edged Sword of Infection and Immunity	Penprints Academic	<i>Manushi Pal, 'Priyajit Banerjee, 'Satadru Ghosh "Suranjana Sarkar</i>	2025	978-81-984719-5-6	
12	Microbial Menace and Miracle: The Double-Edged Sword of Infection and Immunity	Penprints Academic	<i>Showvic Ghosh, 'Priyajit Banerjee, 'Debanshu Sharma., 2Suranjana Sarkar</i>	2025	978-81-984719-5-6	
13	Microbial Menace and Miracle: The Double-Edged Sword of Infection and Immunity	Penprints Academic	<i>1Shreeya Das Mahapatra, Priyajit Banerjee, 'Anusuya Chakraborty Suranjana Sarkar</i>	2025	978-81-984719-5-6	
14	Microbial Menace and Miracle: The Double-Edged Sword of Infection and Immunity	Penprints Academic	<i>1Sreyasree Roy, "Priyajit Banerjee, 'Debanshu Sharma "2Suranjana Sarkar</i>	2025	978-81-984719-5-6	
15	Microbial Menace and Miracle: The Double-Edged Sword of	Penprints Academic	<i>1Sunistha Dutta, 'Meruli Das, 'Priyajit Banerjee., 'Debanshu Sharma, Suranjana Sarkar</i>	2025	978-81-984719-5-6	

	Infection and Immunity					
16	Microbial Menace and Miracle: The Double-Edged Sword of Infection and Immunity	Penprints Academic	<i>'Suraj Jyote, 'Priyajit Banerjee, 'Debanshu Sharma Suranjana Sarkar</i>	2025	978-81-984719-5-6	
17	Code of Life The Biotech Blueprint for a Better Future	Integrated Publications	<i>Akash Saha, Addityaa Sinha, Sagnik Sardar, Kushal Naskar, Priyajit Banerjee, Bidisha Ghosh, Subhasis Sarkar and Suranjana Sarkar</i>	2025	978-93-5834-176-8	https://doi.org/10.62778/int.book.582
18	Code of Life The Biotech Blueprint for a Better Future	Integrated Publications	Editor - Priyajit Banerjee	2025	978-93-5834-176-8	https://doi.org/10.62778/int.book.582

PDB DEPOSITION

6J7E - Crystal Structure of Central domain of FleQ in complex with ATPgS and Mg⁺²

6JDI - Central domain of FleQ H287N mutant in complex with ATPgS and Mg⁺²

6JDL - Central domain of FleQ H287A mutant in complex with ATPgS and Mg⁺²

7EJW - Crystal structure of FleN in complex with FleQ AAA+ doamain

5J1J - Structure of FleN-AMPPNP complex

5JVF - Crystal Structure of Apo-FleN

INVITED SEMINARS/SELECTED POSTER PRESENTATIONS

- ❖ Invited talk: National Conference on Recent Advances in Animal Science, to be held on 18th–19th March, 2026, at the Department of Zoology, University of North Bengal.
- ❖ Poster presentation titled “Sensor I regulated ATPase activity of FleQ is essential for maintaining the monotrichous phenotype and for motility-to-biofilm transition of *Pseudomonas aeruginosa*” at Gordon Research Conference on Mechanisms of Microbial Transcription held (July 28th - Aug 02nd 2019) at Bates College, Lewiston, ME United States.
- ❖ Poster presentation titled “Sensor I regulated ATPase activity of FleQ is essential for maintaining the monotrichous phenotype and for motility-to-biofilm transition of *Pseudomonas aeruginosa*” at Structure Assisted Development of Novel Therapeutics Workshop (Feb 12th – 19th 2019) RCB, INDIA.

- ❖ Poster presentation titled “3-D Approach for Tuning Bacterial Motility to Halt Infections” RCB Open Day (India International Science Festival) (September 24th 2018) RCB, INDIA
- ❖ Poster presentation titled “Interplay between FleQ and FleN: Sigma54 dependent transcription activator” CCP4/Diamond Light Source Data Collection and Structure Solution Workshop, (November 30th- December 7th 2017) Rutherford Appleton Laboratory, Didcot, UK
- ❖ Oral presentation titled “Structural and Functional Analysis of FleQ: A Master Regulator of Flagellar and Biofilm genes in *Pseudomonas aeruginosa*” at BioZest 2017 (Nov 10th 2017) South Asian University, New Delhi, INDIA.
- ❖ Poster presentation titled “Probing the mechanism of ATP hydrolysis by FleQ: A master regulator of flagellar and biofilm genes in *Pseudomonas aeruginosa*” at PAC meeting (Oct 5-7, 2017) RCB, INDIA
- ❖ Workshop titled “Computational Biotechnology at the Nanoscale: CCP4 Workshop 2016” at RCB (February 15th -20th 2016) Faridabad, INDIA.
- ❖ Seminar titled “New advances in X-ray diffraction and Cryo-electron Microscopy” (Dec 15-17, 2014) at Indian National Science Academy, New Delhi, INDIA

I hereby declare that all the information provided above is correct to the best of my knowledge and belief. I also understand that any discrepancy found in the above information will render me liable for disqualification at any stage.

Sincerely,

Dr. Priyajit Banerjee

Place: Barrackpore, India.
Date: 31.07.2026