

CURRICULUM VITAE

MANOJIT BYSACK

M.Sc. (Human Physiology, Specialization in Immunology & Microbiology)

Assistant Professor,

Department of MLT,

School of Allied Health Sciences

Swami Vivekananda University,

Barrackpore, West Bengal, India

Tel(Mobile) : +91-9830067513

Email Id : bysackmanojit@gmail.com / monojitb@svu.ac.in

ORCID ID : <https://orcid.org/0009-0008-9370-7852>



CARRIER OBJECTIVES:

I seek opportunities where I can fully use my skills for the success of the organisation or institute.

WORKING EXPERIENCE:

NAME OF ORGANIZATION & ADDRESS	ORGANIZATION TYPE	TIME PERIOD	DESIGNATION
SWAMI VIVEKANANDA UNIVERSITY (TELINIPARA, BARA KANTHALIA, BARASAT-BARRACKPORE ROAD)	UNIVERSITY	16 TH AUGUST, 2021 TO TILL DATE*	ASSISTANT PROFESSOR (FULL TIME)
PRACTICAL GUIDANCE (GOA BAGAN LANE, MANIKTALA)	ACADEMIC INSTITUTE FOR PRACTICAL BASED HAND ON LAB WORKS (GRADUATION HONS. & GENERAL)	10 TH JANUARY 2019 TO 14 TH AUGUST 2021	ASSISTANT TEACHER
SHIKSHA INSTITUTE (HARALAL MITRA	ACADEMIC INSTITUTE	10 TH DECEMBER	ASSISTANT TEACHER

STREET, BAGHBAZAR, SHAYAM BAZAR)	(GRADUATION HONS. & GENERAL)	2018 TO 14 TH AUGUST 2021	
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PERSONAL PARTICULARS:

Father's Name: Late Manab Bysack

Mother's Name: Rita Bysack

Nationality: Indian

Date Of Birth: 26th October 1995

Persistent Address: 80, Beadon Street, Kolkata-700006

LANGUAGES KNOWN:

Language	Read	Speak	Write	Proficiency
English	✓	✓	✓	Proficient
Bengali	✓	✓	✓	Proficient
Hindi	✓	✓	✗	Beginner

EDUCATIONAL QUALIFICATION:

Degree/Examination Name	Major Subject	Name Of Institute /University	Percentage / Grade (Till Date)
Post-Graduation (M.Sc) in Human Physiology with Specialization in Immunology And Microbiology (2019)	Human Physiology (Specialization in Immunology And Microbiology)	Rajabazar Science College-Rashbihari Shiksha Prangan [University Of Calcutta]	78.8%
Graduation (B.Sc) in Physiology Honours (2017)	Physiology (Hons.)	Ananda Mohan College [University Of Calcutta]	66%
10+2 Standard (2014)	Physics, Chemistry, Maths, Biology	The Scottish Church Collegiate School [West Bengal Council Of Higher Secondary Education]	64.6%

10th Standard (2012)	Bengali, English, Life science, Physical Science, Mathematics, History, Geography	The Scottish Church Collegiate School [West Bengal Board Of Secondary Education]	76.85%
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TECHNICAL SKILL:

- ❑ Recording of Heart beat both perfused & unperfused
- ❑ Blood associated tests: TC, DC, ESR, CT, BT, CBC
- ❑ Bacterial Culture, Isolation of DNA from samples
- ❑ Muscle, Nerve stimulation recording
- ❑ Histological preparation of slides from all the major organs
- ❑ Blood collection & separation of components
- ❑ Lung Function Test: Spirometry, Peak flow metry
- ❑ Ergonomic Tests: PFI, BSA, BMI etc.
- ❑ Immunology & Microbiology Related assays: RIA, ELISA, FACS, PCR etc.
- ❑ Kymograph Related recordings of Heart and Curve including tracing the effects of drugs.

ACHIEVEMENTS & AWARDS:

- ❑ Received “ Phabhat Kumar Ghosh Memorial Award” for securing highest marks in sectional departments, Ananda Mohan College (CU), & securing rank in Calcutta University, 2017
- ❑ Received “Kumarketan Sen Memorial Award” for securing overall excellence in the entire science subject in Ananda Mohan College (CU), securing rank in Calcutta University, 2017
- ❑ Received “Hemendranath Mukherjee Memorial Award” for securing highest marks in B.Sc. Biology, Ananda Mohan College (CU), securing rank in Calcutta University, 2017
- ❑ Received “ Bijoy Krishna Mondal Award” for securing highest marks in the Department of Physiology, Ananda Mohan College (CU), securing rank in Calcutta University, 2017
- ❑ Received “ Karunaketan Sen Memorial Award” for securing highest marks in the Department of Physiology, Ananda Mohan College (CU), securing rank in Calcutta University, 2017
- ❑ Obtained certificate of participated in National Seminar On Sports Science, Ramkrishna Mission Vidyamandir, 2017
- ❑ Obtained certificate of Pathfinder Talent Search Examination (The Telegraph, Career graph), 2011
- ❑ Obtained certificate of Aquatic Sports The Central Swimming Club, 2004

- ❑ Obtained certificate of District School Sports Association, North Calcutta, 2008
- ❑ Obtained certificate of Calcutta District Swimming Association, YMCA, Water polo, 2008
- ❑ Obtained certificate of Calcutta District Swimming Association, YMCA, Water polo, 2007
- ❑ Obtained certificate of AD-HOC COMMITTEE FOR GAMES &SPORTS, GOVT. OF WB, State school Games, 2008

DETAILS FOR ADDITIONAL TRAININGS:

- Successfully completed NPTEL-AICTE Faculty Development Program (Cell Biology: Cellular organization, division and processes) Jan-Mar 2026 [Score: 69%].
- Participated in the Faculty Development Program titled “Innovations in Indian Higher Education: Promoting Holistic, Multidisciplinary & Inclusive Teaching-Learning & Governance” organized by the School of Life Science, Swami Vivekananda University from 07.07.25 to 19.07.25.
- Successfully completed NPTEL-AICTE Faculty Development Program (Animal Physiology) Jul-Oct 2025 [Score: 67%].
- Successfully completed NPTEL-AICTE Faculty Development Program (Human Physiology) Jan-April 2025 [Score: 72%].
- Successfully completed NPTEL-AICTE Faculty Development Program (Biochemistry) Jan-April 2025 [Score: 82%].
- One Day Workshop on “Writing Research Grant Proposals” on 02-12-2024 organized by Swami Vivekananda University, Barrackpore, W.B., India.
- FACULTY DEVELOPMENT PROGRAM (FDP)- 22-06-2022 TO 30-06-2022 at Swami Vivekananda University, Barrackpore.
- Workshop on “MATHEMATICAL EQUATIONS & GRAPHS TO COMBAT NATURAL CHALLENGES” organized by The Department of Mathematics on 24-05-2022 at Swami Vivekananda University, Barrackpore.
- “STEM CELL BIOLOGY AND ITS APPLICATION IN NEURODEGENERATIVE DISEASE-ALS” webinar on 25-08-2021 at Swami Vivekananda University, Barrackpore.
- MEDICAL BIOTECHNOLOGY AND BIOINFORMATICS SYMPOSIUM ON DRUG-ON: A BATTLE TALE OF TWO CREATURES – MICROBES AND HUMAN- 29-02-2020 AT CENTRE FOR HEALTH SCIENCE AND TECHNOLOGY (CHEST) AND JIS INSTITUTE OF ADVANCED STUDIES AND RESEARCH (JISIASR), KOLKATA.
- NATIONAL SYMPOSIUM ON “CURRENT TRENDS IN EDUCATION IN PHYSIOLOGY & RESEARCH”- 20-01-2018 AT DEPARTMENT OF PHYSIOLOGY, UNIVERSITY OF CALCUTTA.
- 11TH EDITION OF THE ANNUAL GLOBAL HEALTHCARE SUMMIT- 28-12-2017 TO 30-12-2017 AT AMERICAN ASSOCIATION OF PHYSICIANS OF INDIAN ORIGIN (AAPI).

- NATIONAL SEMINAR ON SPORTS SCIENCE- 17-02-2017 TO 18-02-2017 AT RAMKRISHNA MISSION VIVEKANANDA UNIVERSITY (RKMVU), BELUR MATH, HOWRAH.

EXPERIENCE IN THE FIELD:

1. PG Teaching: M.SC. PSYCHOLOGY - HUMAN PHYSIOLOGY. (03 YEARS)
2. UG Teaching: BPT, BMLT & BMRIT - HUMAN PHYSIOLOGY, BIOCHEMISTRY, PHARMACOLOGY, MICROBIOLOGY, BASIC BIOTECHNOLOGY & FOOD FERMENTATION TECHNOLOGY, LABORATORY INSTRUMENTATIONS, BASIC HAEMATOLOGY. (04 YEARS)

CURRENT AREA OF TEACHING:

1. Basic Human Physiology
2. General Anatomy and Physiology
3. Biotechnology and Human Welfare
4. General Biochemistry
5. Bacteriology
6. Basic Immunology
7. Genetics and Molecular Biology

TITLE OF THE M.SC. PROJECT WORK:

“REGULATION OF BACTERIAL LIPOPOLYSACCHARIDE (LPS) INDUCED MACROPHAGE POLARIZATION VIA TUMOR NECROSIS FACTOR RECEPTOR 1 (TNFR1) BLOCKING.”

(P.I: Prof. Biswadev Bishayi, Department of Physiology, University of Calcutta)

RESEARCH INTEREST:

Basic Immunology, Macrophage response, Cellular receptor modulation, Infectious disease model, Anti-oxidant system, Animal behaviour, Plant based antibacterial substance activity.

EXTRA CURRICULAR ACTIVITIES:

Playing as a Central Defender from 2007 to 2012 for the Water polo team of The Central Swimming Club & player “Mayer’s Cup”. Worked as a part-timer professional Swimming Trainer at Central Swimming Club. Reading books, and listening music.

PUBLICATIONS:

1. **Manojit Bysack**, & Rajen Dey. (2024). Abrogation Of Gram Negative Bacteria Induced Inflammation. Journal of Advanced Zoology, 45(2), 1564–1573. <https://doi.org/10.53555/jaz.v45i2.4453>.
2. Subhrajyoti Paul, Sudipta Patra, Ayan Mondal, Gungun Sharma Adhikari, Piu Ghosh, **Manojit Bysack**, Rajen Dey. The role of microglia in Zika virus pathogenesis: Possible diagnostic and therapeutic strategies. The Microbe, Volume 5, December 2024. 100180, Elsevier. <https://doi.org/10.1016/j.microb.2024.100180>
3. Ayan Sengupta, Priyanshu Ganguly, Preeti Patra, Ankita Ballav, Banashree Ash, Shayani Das, Rajen Dey, **Manojit Bysack**. A Systematic Review On Consequential Interventions Of Mucuna Pruriens In Male Infertility. Journal of Advanced Zoology, Vol. 45 No. 2 (2024). <https://doi.org/10.53555/jaz.v45i2.4455>
4. Anwesha Samanta, Rabishankar Taladhi, Papon Mondal, Sayed Golam Tanbir, Mijanur Rahaman, Saumadip Fadikar, **Manojit Bysack**. Review: Beneficial Effect Of Bark Extract Of Terminalia Arjuna On Human Heart. Journal of Advanced Zoology, Vol. 45 No. 2 (2024), <https://doi.org/10.53555/jaz.v45i2.4452>
5. **Manojit Bysack**, Ayan Sengupta, Banashree Ash, Preeti Patra, Ankita Ballav, Shayani Das, Priyanshu Ganguly. A Review: Suppressed Activity Of Respiratory System After Covid-19, Journal of Advanced Zoology, Vol. 45 No. 2 (2024), <https://doi.org/10.53555/jaz.v45i2.4456>
6. Subhrajyoti Paul, Sudipta Patra, Ayan Mondal, Gungun Sharma Adhikari, Piu Ghosh, **Manojit Bysack**, Rajen Dey. Pathogenesis And Consequences Of Zika Virus Infection. Journal of Advanced Zoology, Vol. 45 No. 2 (2024), <https://doi.org/10.53555/jaz.v45i2.4448>
7. Rajen Dey, **Manojit Bysack**. Ascorbic Acid: Therapeutic Implications In Neurodegenerative Diseases. Journal of Advanced Zoology, Vol. 45 No. 2 (2024), <https://doi.org/10.53555/jaz.v45i2.4450>
8. Arka Chatterjee, Rajen Dey, **Manojit Bysack**. Role of diet in type II diabetes mellitus: A comprehensive review. International Journal of Applied Research. Vol.

10, Issue 11, Part E (2024), <https://doi.org/10.22271/allresearch.2024.v10.i11e.12170>

9. Arka Chatterjee, Rajen Dey, **Manojit Bysack**. A thorough review of liver cirrhosis: Epidemiology, causes, etiology, pathophysiology, diagnosis, and treatment management. International Journal of Applied Research. Vol. 10, Issue 11, Part E (2024), <https://doi.org/10.22271/allresearch.2024.v10.i11e.12171>
10. Sibujana, Rajen Dey and **Manojit Bysack**. Evaluation of cardiovascular risks through the assessment of cholesterol level. International Journal of Biology Sciences. Vol. 6, Issue 2, Part C (2024), <https://dx.doi.org/10.33545/26649926.2024.v6.i2c.246>
11. Soumaditya Das, Rajen Dey and **Manojit Bysack**. Contribution of liver enzymes in diagnosing hepatic diseases: A review. International Journal of Biology Sciences. Vol. 6, Issue 2, Part C (2024), <https://dx.doi.org/10.33545/26649926.2024.v6.i2b.244>
12. Titlee Majumder, Rajen Dey, **Manojit Bysack**, Subrata Ghosh. The Impact of Eating Frequency on Facial Measurements and Aggressive Behavior in Adolescents. Academic Bulletin of Mental Health (2026), https://dx.doi.org/10.25259/ABMH_56_2025

BOOK CHAPTERS:

1. Anwisha Samanta and **Manojit Bysack**, A REVIEW ON PREVALENCE OF HEPATITIS C AMONG PREGNANT WOMEN, Archive of Human Health and Wellbeing, AkiNik Publications, 2024; 1. 13-27. ISBN: 978-93-6135-299-7. DOI: <https://doi.org/10.22271/ed.book.2750>
2. Shayani Das and **Manojit Bysack**, DENGUE – PATHOGENESIS AND DIAGNOSTIC APPROACHES: A REVIEW, Archive of Human Health and Wellbeing, AkiNik Publications, 2024; 1. 29-38. ISBN: 978-93-6135-299-7. DOI: <https://doi.org/10.22271/ed.book.2750>
3. **Manojit Bysack**, AN INDEPTH EXPLORATION OF THE POTENTIAL THREAT POSED BY STAPHYLOCOCCUS AUREUS, Recent Trends in Hematology and Infectious Diseases, 2023; 23-44. ISBN: 978-93-6076-130-1.
4. **Manojit Bysack**, AN IN-DEPTH INVESTIGATION OF RISK FACTORS ASSOCIATED WITH SEPSIS AND THE POTENTIAL TREATMENT MODALITY, Regulatory Haematoidices Vol 1; 47-61. ISBN: 978-93-340-7137-5.
5. **Manojit Bysack**, AN IN-DEPTH EXPLORATION OF CELLULAR INJURY, THE ASSOCIATED RESPONSES, AND MECHANISMS OF CELLULAR

ADAPTATION, Pathoinsights: Dissecting Disease Mechanisms, 2025; ISBN: 978-93-342-1790-2

6. **Manojit Bysack** and Rajen Dey, Urinary Tract Infections Encountered Health Hazards During Pregnancy: Review; Frontiers in Allied Health Research; CHYREN PUBLICATION; 2025; ISBN: 978-93-7143-229-0; <https://doi.org/10.5281/zenodo.16417509>
7. Rajen Dey and **Manojit Bysack**, Etiologic Survey of Aseptic Noninfectious Meningitis, Frontiers in Allied Health Research; CHYREN PUBLICATION; 2025, ISBN: 978-93-7143-229-0; <https://doi.org/10.5281/zenodo.16417509>
8. Rajen Dey and **Manojit Bysack**, Monkey Pox Virus: History, Epidemiology and Pathophysiology, Clinical and Research Insights in Allied Health Sciences; Shubhangam Publication; 2025, ISBN-978-81-950003-8-8; <https://doi.org/10.5281/zenodo.16441585>
9. **Manojit Bysack** and Rajen Dey, A Comprehensive Review On Health Benefits And Removal Of Hazardous Effects Via Using Stevia Rebaudiana Over Sweeteners, Clinical and Research Insights in Allied Health Sciences; Shubhangam Publication; 2025, ISBN- 978-81-950003-8-8; <https://doi.org/10.5281/zenodo.16441585>
10. **Manojit Bysack** and Rajen Dey, A Review on Adverse Toxic Effects of Monosodium Glutamate on Human Health, Research Horizons in Allied and Health Sciences; Integrated Publications; 2025, ISBN- 978-93-5834-498-1; <https://doi.org/10.62778/int.book.636>
11. Rajen Dey and **Manojit Bysack**, Chikungunya Virus: An Emerging Threat, Research Horizons in Allied and Health Sciences; Integrated Publications; 2025, ISBN-978-93-5834-498-1; <https://doi.org/10.62778/int.book.636>
12. **Manojit Bysack** and Rajen Dey, A Review on Impacts of Natural food Preservatives over Synthetic one on Human Health, Foundations of Health Science Research: A Multidisciplinary Academic Collection; AkiNik Publications; 2025, ISBN- 978-93-7150-833-9; <https://doi.org/10.22271/ed.book.3413>
13. Rajen Dey and **Manojit Bysack**, The Challenge of Antimicrobial Resistance: Following COVID-19 Infection, Foundations of Health Science Research: A Multidisciplinary Academic Collection; AkiNik Publications; 2025, ISBN- 978-93-7150-833-9; <https://doi.org/10.22271/ed.book.3413>
14. Rajen Dey and **Manojit Bysack**, COVID 19 Diagnosis Using Photonics: A Hypothesis, Interdisciplinary Approaches in Modern Healthcare Delivery; Bright Sky Publication; 2025

15. **Manojit Bysack** and Rajen Dey, A Study on Health-Promoting Impacts of Chicory Plant in Human, Interdisciplinary Approaches in Modern Healthcare Delivery; Bright Sky Publication; 2025
16. **Manojit Bysack** and Rajen Dey, A Review on the Pathogenic Manner of Shigella Flexneri Induced Infections, Allied Research In Clinical Allied Sciences: A Fusion of Disciplines; Rubicon Publications; 2025, ISBN- 978-1-80433-890-2
17. Rajen Dey and **Manojit Bysack**, An Overview of the Most Recent Laboratory Tests for Dengue Fever, Allied Research In Clinical Allied Sciences: A Fusion of Disciplines; Rubicon Publications; 2025, ISBN- 978-1-80433-890-2
18. Rajen Dey and **Manojit Bysack**, Congenital Cytomegalovirus Prevention Strategies, Core Principles of Integrated Multidisciplinary Healthcare Practice; Helmand Books Publications; 2025
19. **Manojit Bysack** and Rajen Dey, A Narrative Study on Beneficial Effect of Gamma-Oryzanol Over Human Ovary and Nervous System, Core Principles of Integrated Multidisciplinary Healthcare Practice; Helmand Books Publications; 2025
20. Rajen Dey and **Manojit Bysack**, Alzheimer's disease: pathogenesis, diagnosis, and therapeutic strategies, An Integrated Approach to Clinical Pathology: Diagnostic Principle and Laboratory Aspects; Penprints Publications; 2025
21. **Manojit Bysack** and Rajen Dey, A Comprehensive Review on the Molecular Basis of Microbial Pathogenesis of Viral and bacterial infections, An Integrated Approach to Clinical Pathology: Diagnostic Principle and Laboratory Aspects; Penprints Publications; 2025
22. **Manojit Bysack**, Autonomic Nervous System Pharmacology. Pharmacology For Modern Health Sciences; 2026, ISBN- 978-93-5737-883-3
23. **Manojit Bysack**, Antimicrobial Susceptibility Testing (AST) and Resistance Mechanisms. PATHOGENS IN PRACTICES Laboratory Diagnosis of Infectious Diseases; 2026, ISBN- 978-93-5768-861-1
24. **Manojit Bysack**, Contemporary Approaches to the Prevention and Control of Parasitic Diseases. Principles of PARASITIC DISEASES IN CLINICAL DIAGNOSTICS; 2026, ISBN- 978-93-5759-572-8
25. **Manojit Bysack**, Coagulation and Thrombosis. Foundation *and* Frontiers of Hematology; 2026, ISBN- 978-93-5717-560-9

PATENT:

1. **Bysack M**, Dey R, Patla P et al. System for automatic blood support in an operation theatre. Indian Patent. 2025; Application No. 202531016528A, Date of filing: 25.02.2025, Date of publication: 21.03.2025.

SEMINAR/CONFERENCE ATTENDED:

International

Manojit Bysack. A REVIEW ON ADVERSE TOXIC EFFECTS OF MONOSODIUM GLUTAMATE ON HUMAN HEALTH, International Conference on Healthcare Researches and Development (ICHRD-2025), held on 04-02-2025 & 05-02-2025 at Swami Vivekananda University, Barrackpore (Oral presentation).

Manojit Bysack. Anti-Pathogenic Attributes of Mucuna pruriens: A Narrative Review, International Conference on GLOBAL HEALTHCON 2024 CHALLENGES & EXPLICATIONS, held on 20-06-2024 & 21-06-2024 at Swami Vivekananda University, Barrackpore (Oral presentation).

State

Manojit Bysack. Scientific Model Preparation and Presentation Event, at Tech Fest 19-02-2024 to 21-02-2024, Conducted by Swami Vivekananda University Barrackpore.

WORKSHOP AND TRAINING PROGRAM:

Basics of Flow Cytometry (BD FACSVerserTM/ BD FACSAriaTMIII) organized by CRNN, University of Calcutta and BD biosciences on 12th March 2019.

MEMBERSHIP OF SCIENTIFIC ASSOCIATIONS/ SOCIETY:

Life member of Physiological Society of India (PSI)

REFERENCES:

- 1) Dr. Rajen Dey
Assistant Professor, Department of MLT
Swami Vivekananda University,
West Bengal, India
Email id: rdrajen422@gmail.com
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Mob: 9831926184

2) Dr. Raghwendra Mishra
Assistant Professor, Department of Physiology
Ananda Mohan College,
West Bengal, India
Email id: r_mishra82@yahoo.co.in
Mob: 9836966487

3) Dr. Sanjit Dey
Professor, Department of Physiology
University of Calcutta,
West Bengal, India
Email id: sanjitdey@gmail.com
Mob: 9830211512

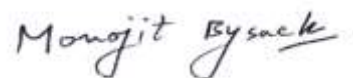
DECLARATION:

I hereby declared that the particulars furnished above are true, complete and correct to the best of my knowledge and believed.

Date: 14-09-2026

Place: Kolkata

Signature



(MANOJIT BYSACK)