

Curriculum Vitae (CV)

PERSONAL DETAILS:

NAME: DR. RAJAT SARKAR

DATE OF BIRTH: March 25, 1993

RESIDENTIAL ADDRESS: Vill- Gayergari ; P.O.- Dawaguri;
P.S.- Kotwali ; Dist- Cooch Behar;
PIN- 736156, West Bengal

FATHER'S NAME: Late Ratan Chandra Sarkar

MOTHER'S NAME: Meera Sarkar (Dey)

GENDER: Male

MARITAL STATUS: Single

CASTE/CATEGORY: OBC-B (Non-creamy layer)

RELIGION: Hinduism

NATIONALITY: Indian

QUALIFICATIONS: M. Sc. (Zoology), B.Ed., Ph.D.

CONTACT DETAIL: +918967160130, +917908136749

EMAIL ID: sarkar.rajat.xl@gmail.com

HOBBIES: Reading Books, Wild-life Photography, Gardening, Travelling, and Listening to Music.

LANGUAGE PROFICIENCY: Bengali (Mother Language), English and Hindi.

RESEARCH INTEREST: Molecular Immunology, Virology, Epidemiology, Immuno-genetics, Parasitology and Vector Biology

TEACHING INTEREST: Taxonomy& Biosystematics, Non-Chordate & Chordate Zoology, Ecology & Evolution, Biodiversity, Endocrinology, Genetics & Molecular Biology, Immunology, Parasitology & Vector Biology, Comparative Anatomy and Developmental Biology.

AREA OF SPECIALIZATION: Immunology



❖ CURRENT POSITION:

Assistant Professor in Zoology
Government General Degree College, Mohanpur, Paschim Medinipur
West Bengal Education Service (W.B.E.S), Group-A Gazetted Officer
Higher Education Department, Government of West Bengal
Date of Joining- 2nd January, 2025

❖ OFFICE ADDRESS:

Department of Zoology, Government General Degree College, Mohanpur
Srirampur, Sialsai, Mohanpur, Paschim Medinipur, West Bengal, PIN-721436

EDUCATIONAL QUALIFICATIONS:

Exam passed	Discipline	Institute	Board/University	Year of passing	Aggregate Percentage	Division
Ph.D. (Doctor of Philosophy)	Zoology	University of Gour Banga	University of Gour Banga	2024	84.50	1 st
Diploma in Computer Application	Computer Application	Vidyasagar Computer Shiksha	National Youth Computer	2022	87	1 st
B.Ed. (Bachelor in Education)	Education	Aryan Education & Research Institute	Baba Saheb Ambedkar Education University (Previously W.B.U.T.T.E.P.A)	2018	78.55	1 st
Post-Graduation (M.Sc.)	Zoology	University of North Bengal	University of North Bengal	2016	67.50	1 st
Under Graduation (B.Sc. Honours)	Zoology	Tufanganj Mahavidyalaya	University of North Bengal	2014	61.12	1 st
Higher Secondary (Class 10+2)	Science	Cooch Behar Rambhola High School	West Bengal Council of Higher Secondary Education (W.B.C.H.S.E.)	2011	72.60	1 st
Matriculation (Class 10)	All	Cooch Behar Rambhola High School	West Bengal Board of Secondary Education (W.B.B.S.E.)	2009	74.50	1 st

SPECIAL ACHIEVEMENTS: (AWARD/FELLOWSHIP/PRIZE/CERTIFICATE)

Sl. No.	Name of the Exam /Award	Subject	Board / Institute	Level/Status	Year of passing
1.	Indian Council of Agricultural Research (ICAR)-AICE-JRF/SRF (Ph.D.) for Scientist-B (Pre-Cocoon Sector)	Sericulture	Central Silk Board (CSB)	National	2022
2.	Indian Council of Medical Research (ICMR)-JRF	Life Science	ICMR	National	2020
3.	Graduate Aptitude Test in Engineering (GATE)	Life Science	IIT Guwahati (NCB)	National	2018
4.	Joint CSIR-UGC-NET Lectureship (LS)	Life Science	CSIR	National	2016 (June)
5.	19 th (2015) West Bengal -State Eligibility Test (WB-SET)	Life Science	WB-CSC	State	2016

RESEARCH WORKING EXPERIENCES:

SL. No.	Designation	Institution/ Organization	Nature of research works undertaken	Time duration
1.	Research Scientist-B (Non-Medical)	Virus Research and Diagnostic Laboratory (VRDL), Department of Microbiology, Malda Medical College, Malda, West Bengal.	DHR-ICMR funded Virus Research and Diagnostic Laboratory (VRDL) for Managing epidemics and national calamities, Ministry of Health & Family Welfare, Government of India. Initial Molecular and Sero-diagnosis/ screening of epidemic viral diseases at the most peripheral areas & nearest to the site of outbreak as well as allied researches and applied trainings.	19 th December, 2022 to 31 st December, 2024.
2.	Ph.D. Research Fellow	Molecular Immunology Laboratory, Department of Zoology, University of Gour Banga, Malda, West Bengal.	Doctor of Philosophy (Ph.D.) in Zoology on the thesis entitled “Evaluation of Human Leukocyte Antigen (HLA)-G Gene Polymorphisms and Biochemical Analyses in Rheumatoid Arthritis: A Case-Control Study” under the supervision of Dr. Manoj Lama , Assistant professor, Dept. of Zoology, UGB, Malda, West Bengal.	26 th February, 2019 to 9 th April, 2024.
3.	Molecular Biologist (MB)	State Run RT-PCR laboratory, Department of Microbiology, Malda Medical College, Malda, West Bengal.	Molecular diagnosis of suspected COVID-19 cases through Real Time (RT) q-PCR test (Multiplex PCR). Sentinel Surveillance (Random Screening) have been also carried out.	11 th August, 2020 to 18 th December, 2022.
4.	Junior Research Fellow (JRF)	Molecular Immunology Laboratory, Department of Zoology, University of Gour Banga, Malda, West Bengal.	DST-SERB funded research project entitled “Evaluation of HLA-G Gene Polymorphisms in Rheumatoid Arthritis”	From 19 th June, 2017 to 29 th December, 2020
5.	M.Sc. Dissertation Fellow	Cellular Immunology Laboratory, Department of Zoology, University of North Bengal, West Bengal.	M.Sc. dissertation project work entitled “Evaluation of the antioxidant and immunomodulatory activities of a phyto-chemically standardized methanolic extract of <i>piper betle</i> linn leaves.”	2015-2016 (1 year)

SKILL AND EXPERTISE:

- **Molecular Virology field:** Molecular diagnosis/detection of SARS-CoV-2 (COVID-19), Influenza-A (subtypes-H1N1 & H3N2) and Influenza-B (subtypes-Yamagata & Victoria), Respiratory Adenovirus, Respiratory Syncytial Virus (RSV-A & B), Nipha virus, Rotavirus and Dengue serotypes (DENV 1, 2, 3, 4) by Multiplex Real time (RT)q-PCR.
- **Molecular Immuno-genetics field:** HLA genotyping by PCR-SSP and PCR-RFLP methods, Agarose gel electrophoresis, DNA-Protein gel documentation, Sandwich and indirect ELISA, Restriction digestion, SDS-PAGE etc.
- **Computer skills:** Basic knowledge of computer applications on Advance MS-Office (MS Word, MS Excel and MS Power Point).
- **Statistical skill:** Basic knowledge on advance statistical soft wares like Graph Pad Prism, Sigma Plot, Kyplot, SPSS etc.

RESEARCH PUBLICATIONS OR PUBLISHED BOOK CHAPTERS:

SL. No.	Journal Name	Publisher	Level/ Status	ISSN No.	Impact Factor	Authorship	Title of the article	Year of publication
1.	Journal of Functional Foods	ELSEVIER LTD	International	1756-4646	5.223	Co-author	“Differential interaction with O ₂ and N ₂ free-radicals, phytochemical fingerprinting and molecular docking reveals potent antioxidant activities of three major recreational foods of the Indian subcontinent.”	2017
2.	International Journal of Research (IJR)	Edupedia Publications Pvt. Ltd	International	2348-6848	3.541	First Author	“Demographic and Clinical Characteristics of Patients with Rheumatoid Arthritis”	2019
3.	Journal of Interferon & Cytokine Research	Mary Ann Liebert, Inc.	International	2023-0078	2.3	Co-author	“Serum Cytokine Profiles in Patients with Rheumatoid Arthritis Before and After Treatment with Methotrexate”	2023
4.	Indian Journal of Health Sciences and Biomedical Research KLEU	Wolters Kluwer	National	2542-6214	Nil	First Author	“Association of rheumatoid factor and anti-cyclic citrullinated peptide antibody with demographic, clinical & inflammatory parameters in Rheumatoid arthritis.”	2023
5.	African Journal of Biomedical Research	Biomedical Communications Group	International	1119-5096	0.182	First Author	"Correlation Between Increased Serum Concentration of Interleukin-6 and Acute Phase Reactants in Patients with Rheumatoid Arthritis.	2024

PARTICIPATION IN SEMINAR OR CONFERENCES OR WORKSHOPS TRAINING:

SL. No.	Title of the Participation	Nature of the presentation/ participation	Level of the participation	Date	Organized and conducted by
1.	Natural Resources, Diversity and Sustainable Development.	Participation.	National level Conference	11-12 th December, 2015	Dept. of Zoology, University of North Bengal; West Bengal & Foundation for Science and Environment, Kolkata and West Bengal Biodiversity Board.
2.	Nano technological Applications in Biological Research for Human Welfare.	Participation.	National level Conference	06-07 th February, 2016	Dept. of Zoology, University of North Bengal, West Bengal.
3.	Modern diseases and Therapeutics	Presented a poster named “Rheumatoid Arthritis and its Management.”	State level Seminar	05 th February, 2019	Dept. of Zoology, University of Gour Banga, Malda, West Bengal.
4.	Advancement of Biology in The 21 st Century.	Delivered an oral presentation entitled “Association of HLA-G 14-bp insertion/deletion and +3142G>C Genetic Polymorphisms in patients with Rheumatoid Arthritis.”	National level Seminar	28 th -29 th February, 2020	Dept. of Zoology, Visva -Bharati University and The Zoological Society, Kolkata, West Bengal.
5.	Integrated Approaches towards Sustainable Management of Environment for Safe Food, Nutrition and Improved Health.	Delivered an oral presentation (On-line mode) entitled “Association of soluble HLA-G (sHLA-G) isoforms with 14-bp insertion/ deletion (rs66554220) and +3142G>C (rs1063320) polymorphisms in Rheumatoid arthritis”	International level Conference	15 th to 17 th December, 2021	Dept. of Ecological Studies and International Centre for Ecological Engineering & Department of Food and Nutrition, University of Kalyani, West Bengal.
6.	Science and Technology.	Delivered an oral presentation entitled “Serum Concentrations of Pro-Inflammatory and Anti-Inflammatory Cytokines in Patients with Rheumatoid Arthritis”	State level Seminar	07 th July, 2022	University of Gour Banga, Malda, West Bengal and in collaboration with District Science and Biotechnology.
7.	Biomolecules to Biome.	Presented a poster (Online mode) entitled “Correlation between increased serum levels of Interleukin-6 as pro-inflammatory cytokine with acute phase reactants in patients with Rheumatoid Arthritis.”	International level Conference	24-25 th August, 2022	Dept. of Life Sciences, Presidency University, Kolkata, West Bengal, India.
8.	Advances in Life Science Research for Sustainable Development.	Delivered an oral presentation entitled “Evaluation of serum pro-inflammatory cytokine in correlation with acute phase reactants in rheumatoid arthritis.”	State level Seminar	13 th and 14 th September, 2022	Internal Quality Assurance Cell (IQAC), Balurghat Mahila Mahavidyalaya, Dakshin Dinajpur, West Bengal.

9.	5th Regional Science and Technology Congress, 2022.	Delivered an oral presentation entitled “Association of rheumatoid factor & anti-CCP antibodies with demographic and clinical characteristics in Rheumatoid arthritis” in the Zoology discipline.	National level Seminar	11 th and 12 th January 2023	University of Gour Banga, Malda, and Dept. of Science and Technology and Biotechnology, Govt. of West Bengal.
10.	7th Hand-On Training Workshop on “Laboratory Diagnosis of Emerging Viral Diseases.”	Demonstration and hand-on- training on several techniques based on ‘Laboratory Diagnosis of Emerging Viral Diseases’.	Hand-On Training Workshop	15 th and 16 th March, 2023.	Regional VRDL, ICMR-National Institute of Cholera and Enteric Disease (NICED), Kolkata.
11.	8th hands-on training workshop on “Laboratory Diagnosis on Emerging Viral Disease”	Modern laboratory procedures for the detection of emerging viral infections and hands-on training on serological and molecular diagnostic techniques, cell culture, introduction to NGS and bioinformatics tools, biosafety and biosecurity, and quality control procedures.	Hand-On Training Workshop	14 th -16 th May, 2024	Regional VRDL, ICMR-National Institute of Cholera and Enteric Disease (NICED), Kolkata.
12.	Anthropocene: The Progress in Biological and Medical Research	Participated and presented a paper entitled “Distribution of circulating Dengue virus serotypes in District of Malda, West Bengal during the year 2023.”	One Day National Seminar	10 th June, 2024	Department of Zoology, Malda College, Malda, West Bengal, INDIA - 732101.
13.	7th Regional Science & Technology Congress, 2024-25	Participated and presented a paper entitled “Emerging and circulating dengue serotypes in Malda district and surrounding during the year 2024.”	National level Seminar	7 th to 8 th January, 2025	Malda College, Malda and Dept. of Science and Technology and Biotechnology, Govt. of West Bengal.

DECLARATION: I do hereby declare that all the above statements are true, complete and correct to the best of my knowledge and belief.

Date: 15-03-2025

Place: Mohanpur, Paschim Medinipur

Rajat Sarkar

Dr. Rajat Sarkar, WBES
Assistant Professor
GGDC, Mohanpur