

Tanmoy Sarkar

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Summary of Qualifications

An analytical, tech-savvy, detail-oriented professional with 6+ years of biological and allied sciences research background.

Core Skills	<ul style="list-style-type: none">• Cell culture protocols Well versed in primary stem cell culture including tissue isolation, enrichment, cryopreservation, FACS, characterization, quantitation, and lysis. Also familiar with broth-based and agar-based bacterial cell cultures.• Molecular biology techniques a) <i>Protein-based assays</i> like 2D-PAGE, ELISA, MALDI-TOF and Western blotting, b) <i>DNA/RNA-based assays</i> like gene cloning, vector engineering, electroporation, qRT-PCR, cDNA, restriction mapping and epigenetic profiling.• Medical physiology practices Acquainted with biochemical, hematological, histological and microbial studies including experimental physiological studies, slide preparation and staining, and microscopy.• Bioinformatics strategies BLAST, FASTA3, ClustalW• Biostatistical procedures t-tests, Mann-Whitney tests, Chi-square tests, ANOVA analyses.• Biological Instrumentation softwares BD FACScalibur, Roche LightCycler 480, Biorad Image Lab, Nanodrop 1000, PDQuest
Technical skills	<ul style="list-style-type: none">• Typesetting programming languages Groff ¹, LaTeX, Markdown, HTML• Git-based document tracking and version control softwares git, diff, patch• Statistical and database management programming languages R, MySQL• Image creation and quantitation softwares ImageJ, Inkscape, GIMP, imagemagick• Linux sysadmin tools vi, cron, ssh, sed, awk, grep, find, fdisk, systemd, ip, curl, wget, grub• Basic scripting and automation Bash, Lua, Python• Advanced MS-Office proficiencies pivot table creation, batch operations• Advanced Web-based skills OAuth2 token generation, XML feed generation
English Skills	Excellent verbal and written communication skills ² , with a decent typing speed of 45WPM.
Key Strengths	Finely-tuned analytical skills with a dedication to expanding subject knowledge and workplace competencies through continuous perseverance. Unparalleled multitasking and time management skills, able to think outside the box. Excellent team player, can easily instill trust and confidence in colleagues.

Professional Experience

2014 - 2021	CSIR-Institute for Genomics & Integrative Biology – New Delhi <i>Research Fellow</i> Meticulously worked under the supervision of Dr. Sagarika Biswas to accomplish: <ul style="list-style-type: none">• setup viable cell culture laboratory and standardized stem cell culture protocols• performed RNA and protein studies on patient samples• carried out animal handling and dissection in accordance with ethical committee procedures• additionally, arranged seminars, guided trainees, collected samples, and other laboratory related subsidiary works – thesis titled <i>Cytokine-mediated modulation of stem cell behaviour in rheumatoid arthritis</i> .
2011 - 2012	DBT-Centre for DNA Fingerprinting & Diagnostics – Hyderabad <i>Research Fellow</i> Worked under the guidance of Dr. Subhadeep Chatterjee to achieve: <ul style="list-style-type: none">• restriction enzyme-based plasmid modifications towards bacterial genetic engineering – thesis titled <i>Probing plant-microbe interactions in Xanthomonas quorum sensing</i> .

¹ This document was prepared in the vi text editor using groff typesetting language.

² Score of 098/120 in Test of English as a Foreign Language (TOEFL) Internet-Based Test (iBT), from August 2012.

Educational Qualifications

2016	Senior Research Fellow – University Grants Commission <i>CSIR-Institute of Genomics & Integrative Biology, New Delhi</i>
2014	Junior Research Fellow – University Grants Commission <i>CSIR-Institute of Genomics & Integrative Biology, New Delhi</i>
2011	Junior Research Fellow – Council for Scientific & Industrial Research <i>DBT-Centre for DNA Fingerprinting & Diagnostics, Hyderabad</i>
2011	Master of Science – Utkal University, Bhubaneswar <i>PG Department of Biotechnology, Utkal University, Bhubaneswar</i>
2009	Bachelor of Science with Honours – University of Calcutta <i>erstwhile Presidency College, now Presidency University, Kolkata</i>

Awards & Achievements

2014	Joint CSIR-UGC National Eligibility Test (NET) for JRF & LS – CSIR Rank – <i>CSIR 064</i>
2013	Joint CSIR-UGC National Eligibility Test (NET) for JRF & LS – CSIR Rank – <i>UGC 048</i>
2012	Graduate Records Examination (GRE) – ETS Percentile Rank – • <i>Verbal Reasoning</i> – 64 • <i>Quantitative Reasoning</i> – 82
2011	Graduate Aptitude Test in Engineering (GATE) – IIT Madras Rank – <i>515</i>
2010	Joint CSIR-UGC National Eligibility Test (NET) for JRF & LS – CSIR Rank – <i>CSIR 091</i>
2006	DST-Kishore Vaigyanik Protsahan Yojana (KVPY) Fellowship – IISc Bangalore National Level Science Talent Search Examination (NSTSE) – Unified Council India, Hyderabad Rank – <i>352</i>

Publications & Posters

2020	Sarkar, A., Sharma, S., Agnihotri, P., Sarkar, T. , Kumari, P., Malhotra, R., Datta, B., Kumar, K., Biswas, S. <i>Synovial fluid cell proteomic analysis identifies upregulation of α-taxilin proteins in rheumatoid arthritis: a potential prognostic marker.</i> Journal of Immunology. DOI: 10.1155/2020/4897983
2014	38th All India Cell Biology Conference and International Symposium on Cellular Response to Drugs – CSIR-Central Drug Research Institute (CDRI).

References

Dr. Sagarika Biswas	Scientist 'F', CSIR-IGIB, Proteomics lab, Room 311, North Campus, Mall Road, near Jubilee Hall, Delhi University campus, Delhi – 110007. Email: <i>sagarika.biswas@igib.res.in</i> Phone: +91-1127662581
Dr. Dakshayani Mahapatra	Assistant Professor (WBES), Dept. of Physiology, Government General Degree College, Mohanpur, Paschim Medinipur, WB. PIN – 721436. Email: <i>dakshayani.mahapatra@gmail.com</i> Phone: +91-9830655682
Dr. Sumit Kumar Gautam	Lead Scientist, Clear Meat Pvt. Ltd., B 78, First Floor, Sector 2, Noida, Near Sector 15 Metro Station. PIN – 201301. Email: <i>sumit.k@clearmeat.com</i> Phone: +91-8826954099