

# Tanmoy Sarkar

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## Summary of Qualifications

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

Core Skills	<ul style="list-style-type: none"><li>• <b>Stem cell culture protocols</b> Well versed in primary stem cell culture including tissue isolation, enrichment, cryopreservation, cell separation and FACS, characterization, quantitation, and lysis.</li><li>• <b>Molecular biology procedures</b> Well acquainted with 2D-PAGE, ELISA, MALDI-TOF, Western blotting, gene cloning and plasmid pBR322 vector engineering, electroporation, bacterial cell culture, qRT-PCR, RT-PCR, primer designing, restriction mapping, epigenetic profiling.</li><li>• <b>Medical physiology practices</b> Familiar with biochemical, hematological, histological and microbial studies including experimental physiological studies, slide preparation and staining, and microscopy.</li><li>• <b>Bioinformatics strategies</b> Informed on BLAST, FASTA3, ClustalW</li><li>• <b>Biostatistical techniques</b> Knowledgeable with t-tests, Mann-Whitney tests, Chi-square tests, ANOVA analyses.</li><li>• <b>Biological Instrumentation softwares</b> BD FACScalibur, Roche LightCycler 480, Biorad Image Lab, Nanodrop 1000</li></ul>
Communications Skills	Excellent verbal and written communications, and proposal drafting talents. Easily instill trust and confidence in colleagues.
Technical skills	<ul style="list-style-type: none"><li>• <b>Documentation and typesetting programming languages</b> groff<sup>1</sup>, LaTeX, markdown</li><li>• <b>Git-based document tracking and version control softwares</b> git, diff, patch, xargs, sed, awk, echo, cat, cut, paste, tr, grep, find, regex</li><li>• <b>Statistical and graph plotting softwares</b> R, Matlab, gnuplot, ttpplot</li><li>• <b>Image creation and quantitation softwares</b> ImageJ, Inkscape, GIMP, imagemagick</li><li>• <b>Sysadmin and other softwares</b> vim, bash, cron, ssh, fdisk, lsblk, mount, dd, mkfs, time, systemd, top, kill, ping, ip, df, du, fzf, tree, curl, wget, grub, mtp, adb, chmod, chgrp</li></ul>
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.

## Professional Experience

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

<sup>1</sup> This document was prepared in the vim text editor using groff typesetting language.

## Educational Qualifications

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

## Awards & Achievements

2014	<b>Joint CSIR-UGC National Eligibility Test (NET) for JRF &amp; LS</b> – CSIR Rank – <i>CSIR 064</i>
2013	<b>Joint CSIR-UGC National Eligibility Test (NET) for JRF &amp; LS</b> – CSIR Rank – <i>UGC 048</i>
2012	<b>Graduate Records Examination (GRE)</b> – ETS Percentile Rank – • <i>Verbal Reasoning – 64</i> • <i>Quantitative Reasoning – 82</i> <b>Test of English as a Foreign Language (TOEFL)</b> – ETS Scaled Score – <i>098</i>
2011	<b>Graduate Aptitude Test in Engineering (GATE)</b> – IIT Madras Rank – <i>515</i>
2010	<b>Joint CSIR-UGC National Eligibility Test (NET) for JRF &amp; LS</b> – CSIR Rank – <i>CSIR 091</i>
2006	<b>DST-Kishore Vaigyanik Protsahan Yojana (KVPY) Fellowship</b> – IISc Bangalore <b>National Level Science Talent Search Examination (NSTSE)</b> – Unified Council India, Hyderabad Rank – <i>352</i>

## Publications & Posters

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