Tanmoy Sarkar

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Executive Brief

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

Summary of Skills

Core Skills

- Cell culture protocols Well versed in primary stem cell culture including tissue isolation, enrichment, cryopreservation, FACS, characterization, quantitation, and lysis. Also familiar with both broth-based and agar-based bacterial cell cultures.
- **Molecular biology techniques** a) *Protein-based assays* 2D-PAGE, ELISA, MALDI-TOF, HPLC and Western blotting, b) *DNA/RNA-based assays* gene cloning, vector engineering, electroporation, qRT-PCR, cDNA, restriction mapping and epigenetic profiling.
- **Microscopy** confocal microscopy, live-cell imaging, inverted microscopy, in addition to regular compound microscopy used in histological, hematological and microbial studies.
- Clinical physiology practices sphygmomanometry, phlebotomy, spirometry.
- Clinical blood tests blood sugar, blood uric acid, serum urea estimations.
- Bioinformatics strategies BLAST, FASTA3, ClustalW
- Biostatistical procedures t-tests, Mann-Whitney tests, Chi-square tests, ANOVA analyses.
- Biological Instrumentation BD FACScalibur, Roche LightCycler 480, Biorad Image Lab, Nanodrop

Technical skills

- **Programming languages** a) *Typesetting* Groff ¹, LaTeX, Markdown, HTML, b) *Statistical and database management* R, MySQL, c) *Basic scripting and automation* Bash, Lua, Python
- · Git-based version control systems git, diff, patch
- Image modification and quantitation ImageJ, PDQuest, Inkscape, GIMP, imagemagick
- Linux sysadmin tools vi, cron, ssh, sed, awk, grep, find, fdisk, systemd, ip, curl, wget, grub
- 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 skills², 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

Research Fellow

Meticulously worked under the supervision of Dr. Sagarika Biswas to accomplish:

- 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 Cytokine-mediated modulation of stem cell behaviour in rheumatoid arthritis.

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.

2011 - 2012 | **DBT-Centre for DNA Fingerprinting & Diagnostics** – Hyderabad

Research Fellow

Worked under the guidance of Dr. Subhadeep Chatterjee to achieve:

- restriction enzyme-based plasmid modifications towards bacterial genetic engineering
- thesis titled*Pr obing plant-microbe interactions in Xanthomonas quorum sensing*.

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 – 515
2010	Joint CSIR-UGC National Eligibility Test (NET) for JRF & LS – CSIR Rank –CSIR 091
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

Sarkar, A., Sharma, S., Agnihotri, P., **Sarkar, T.**, Kumari, P., Malhotra, R., Datta, B., Kumar, K., Biswas, S. Synovial fluid cell proteomic analysis identifies upregulation of α-taxilin proteins in rheumatoid arthritis: a potential prognostic marker. 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).

Educational Background

2016	Senior Research Fellow – University Grants Commission CSIR-Institute of Genomics & Integrative Biology, New Delhi
2014	Junior Research Fellow – University Grants Commission CSIR-Institute of Genomics & Integrative Biology, New Delhi
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 PG Department of Biotechnology, Utkal University, Bhubaneswar
2009	Bachelor of Science with Honours – University of Calcutta erstwhile Presidency College, now Presidency University, Kolkata

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: sagarika.biswas@igib.res.in Phone: +91-1127662581
Dr. Dakshayani Mahapatra	Assistant Professor (WBES), Dept. of Physiology, Government General Degree College, Mohanpur, Paschim Medinipur, WB. PIN – 721436. Email: dakshayani.mahapatra@gmail.com 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