



Position : Senior Research Assistant in Organoid Laboratory (SOLi3D group)

Appointing Organisation

Tata Translational Cancer Research Centre, Tata Medical Center, Kolkata

The Tata Medical Center and the Tata Translational Cancer Research Centre

The Tata Medical Center (TMC) is a multispecialty institution for tertiary cancer care located in New Town, Kolkata. Tata Translational Cancer Research Centre (TTCRC), the research arm of TMC, is within a dedicated academic building in the same campus. At TTCRC, a multidisciplinary team of clinicians, scientists and industry professionals collaborate to develop a systems medicine approach in cancer research. This approach is focussed on developing innovative, indigenous, cost-effective and equitable strategies to improve cancer diagnosis, develop treatments that match disease characteristics and are adapted to treatment response and identify prognostic and predictive disease biomarkers. These strategies are multi-dimensional and involve an iterative pathway that include clinical studies, high-throughput laboratory investigations, computational strategies to integrate, analyse and model data, hypothesis-based pre-clinical studies and evidence-based translation of findings to clinical practice. For additional information check out the following websites:

Organoid Laboratory (SOLi3D group) at TTCRC: <https://www.ttcrc.org/soli3d.html>

TTCRC website: <https://www.ttcrc.org/>

TMC Kolkata website: www.tmckolkata.com

The Position and reporting

In this position the candidate will work as part of the SOLi3D (Solid tumour Organoid Laboratory for investigating Disease biology, Drug response testing and Drug discovery) group at TTCRC.

The candidate's primary responsibility will be to continue, optimise and extend ongoing work on developing, establishing, maintaining and characterizing tumour organoid cultures from patient tissue samples. The techniques will include but not limited to clinical sample processing, organoid culture, microscopic imaging, extractions of biomolecules (DNA, RNA, Protein) and quality checks, sample preparation for histological analysis/NGS/protein mass spectrometry, drug response testing and other cell biology assays as needed. This will involve working closely with the team colleagues, hospital's multidisciplinary clinical teams, the biorepository unit and other colleagues from different groups at TTCRC. The candidate will need to plan and perform hands-on experiments, record and analyse data, participate and present data/papers in regular group meetings, national conferences and prepare scientific reports and manuscripts. The post holder will have a designated desk and computer. The appointed candidate will report to the team lead of SOLi3D group.

Minimum required qualifications/experience

- (a) MSc/MTech in any stream of Life Sciences, Biotechnology, Cell & Molecular Biology, Biochemistry and Pharmacology + minimum 5 years of extensive experience (post MSc/MTech) in mammalian cell culture techniques is mandatory; PhD holders will NOT be considered for this position
- (b) Minimum one first authored publication of research article demonstrating relevant experience
- (c) Familiarity with DNA, RNA and protein extraction and quality check techniques, qRT-PCR, Western Blot/ Immunostaining etc
- (d) Familiarity with basic research laboratory protocols, procedures and techniques
- (e) Experience of writing research papers/scientific reports/research proposal
- (f) Knowledge of advanced MS Excel, GraphPad Prism, Adobe Illustrator

Additional experience preferable but not mandatory in any one or more of the following areas

- (a) Experience with patient samples handling
- (b) Experience with 3D (spheroid/organoid/organ-on-chip) cell culture models
- (c) Experience in high throughput drug screening assays
- (d) Experience in automated high throughput confocal imaging
- (e) Experience in hydrogel bioprinting
- (f) Experience in automated liquid handler/digital dispenser use
- (g) Knowledge of LIMS (e.g., LabVantage) use for biobanking clinical samples
- (h) Knowledge of R programming/ NGS data analysis

Necessary qualities

- (a) Integrity, motivation, enthusiasm
- (b) Focus and commitment in carrying out tasks and duties
- (c) Flexibility of working hours as needed for research involving patient samples
- (d) Critical analytical and problem-solving skills, capable of independent work
- (e) Ability to work effectively as part of a multidisciplinary team
- (f) Clarity in career and professional development goals
- (g) Strong written and oral communication

Selection of candidate, Appointment tenure

Only shortlisted candidates will be called for an interview. Based on their interview performance, the recruiting panel will select the successful candidate. Appointment of the successful candidate to the position will initially be till March, 2027. Further renewal of contract is subject to satisfactory performance assessed through periodic appraisals and availability of intramural core grant to TTCRC by Tata Medical Center Trust.

Retainership and benefits

INR 48,000-52,000/- per month (consolidated) commensurate to the candidate's relevant experience for the role and interview performance. A corporate health insurance. No other allowances will be provided.

Application procedure

Submit your application by email to the following in addition to online submission of application through TMC website within the deadline mentioned on the website.

1. Mr Suvasish Mukherjee; Head, Human Resources; Tata Medical Center; 14 Major Arterial Road (East-West); Newtown, Rajarhat; Kolkata 700 160
e-mail: suvashish.mukherjee@tmckolkata.com

Copy the email to

2. Mr Satadru Dey, Administrative Assistant, TTCRC: satadru.dey@ttcrc.tmckolkata.org
3. Dr Dwijit GuhaSarkar, Lead Scientist-Organoid Laboratory, TTCRC: dwijit.guhasarkar@ttcrc.tmckolkata.org

Knowledge/ Aptitude/Skills,	Requirements	Essential / desirable	Information from
1. Disposition / Attitude	a. Integrity b. Flexibility c. Motivated d. Committed e. Willing to learn new skills f. Works as part of a team g. Receptive to new ideas h. Capable of independent work & to an agreed plan i. Good time management j. Organized, able to prioritize responsibilities k. Works to high technical and quality standards	a. Essential b. Essential c. Essential d. Essential e. Essential f. Essential g. Essential h. Essential i. Essential j. Essential	Application form CV Profile Interview References
2. Education / Qualifications	MSc/MTech in any branch of Biological Sciences/Life Sciences/ Biotechnology/ Cell & Molecular Biology/ Pharmacology	Essential	Application form CV Interview
3. Experience	a. Good laboratory practice b. Mammalian Cell culture technique – minimum 4 yrs c. Familiarity with DNA, RNA, protein extraction, quality check, qRT-PCR, Western Blot d. One first-authored research publication	a. Essential b. Essential c. Preferable d. Essential	Application form CV Interview References &
4. Skills and ability	a. Scientific writing b. Critical thinking c. Problem solving skills d. Readiness to evaluate, develop and test new approaches and strategies	a. Essential b. Essential c. Essential d. Essential	Application form CV Interview References

