



Indian Institute of Technology Hyderabad
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Post-doctoral Research Fellowship (PDF) position at Regenerative medicine & stem cell (RMS) Lab, Dept. of Biomedical Engineering, IIT Hyderabad.

Title: Autologous islet transplantation in pancreas resection patients with clinical validation: Role of immunoisolation devices for islet survival

Islet transplantation is required for diabetes treatment. However, due to allogenic islets, they are further attacked by immune cells of host making the transplantation failed. We have developed a macroencapsulation device (patented) which can keep the islets immune-protected while being functional with insulin secretion. Currently we are attempting to try this patented device with human islet cells and many bioengineering techniques after a successful attempt with rat islets to make it truly a treatment option with a proper pre-clinical trial.

Our interest and research context can be found in webpage: <https://tinyurl.com/22224q5y>

Applications are invited from interested and motivated scientists for Research Scientist III position for the ICMR sponsored research project in the Department of Biomedical Engineering, IIT Hyderabad (IITH) with collaboration with Osmania Medical college and hospital. As the project is inter-disciplinary, strong experience in any one or more part of the project like Primary stem cell isolation, Islet organoids, transcriptomics and human immunology experience is solicited. Applicants are encouraged to apply who have good track record of high-end publications with more than 1 year of post-phd experience.

1.	Name of the post	Post-doctoral Research Fellow (PDF) or JRF
2.	Number of Posts	One
3.	Project Title	Autologous islet transplantation in pancreas resection patients with clinical validation: Role of immunoisolation devices for islet survival
4.	Funding Agency	ICMR, India for Project scientist-III

4.	Duration of the Position	One year extendible further as per work progress and grant sanction.
5.	Consolidated monthly stipend	Rs. 1,00,000/ approx. per month (HRA included)
6.	Essential Qualifications	PhD/Masters in (Biomedical Engineering, Life sciences, Biotechnology, Chemical engineering or equivalent Biosciences degrees) with 60% marks or equivalent CGPA. One year post-PhD RESEARCH work experience with demonstrable skills in diabetes or related field.
8.	Preferred qualifications	Knowledge of primary stem cell isolation AND transcriptomics or molecular biology AND 3d spheroid/organoid culture Publication with first author high-IF journals will have added advantage.
9.	Age	Not more than 38 years
10.	Application	Apply via google forms with uploading CV here: https://forms.gle/pC9efJk7Azs6ifTD8 Fill the form before March 12th, 2025.
11.	Any other queries ONLY IF they are not there in the ad:	Contact the PI by email below with subject heading “QUERY”. Name: Dr. Subha Narayan Rath Address: Professor Department of Biomedical Engineering, Indian Institute of Technology Hyderabad TS-502284, India. E-mail: rmslab.iith@gmail.com
12.	Shortlisted candidates	ONLY, the short listed candidates for the interview based on merit will only be informed via email by March 14th, 2025.
13.	Interview date	By online mode on March 15th or 17th, 2025. As it's for one person, no communication or query will be entertained who are not going to next stage!!