



Advertisement No. NIBMG/ADMIN/ESTB/21-22/82

Date: 17-06-2021

POSITIONS AVAILABLE

The National Institute of Biomedical Genomics (NIBMG) is engaged in profiling alterations of cell types in the maternal-fetal interface and identify cell type specific expression signatures in placenta that are associated with placental development using single-cell transcriptomics in the ongoing multicenter study (in collaboration with THSTI and RCB, Faridabad) on ***“Multi-Omics Signatures of Human Placenta: Real time assessment of underlying mechanisms for prediction of birth outcomes and development.”*** funded by the Department of Biotechnology, Ministry of Science & Technology, Govt. of India. Applications from motivated post-doctoral researchers with deep interest in the field of single cell transcriptomics and placenta biology are being invited for the following position in this study.

Details of the project:

The placenta was once considered to be sterile and presence of bacteria in the placenta was a possible trigger for preterm labour. Recent studies have shown that placenta harbours a unique microbiome of non-pathogenic, commensal bacteria and studies evaluating its associations with adverse pregnancy outcomes are available. In the present study, we will first investigate the composition of a healthy placental microbiome in term vs preterm pregnancy to identify the dysbiotic taxa that may be associated with PTB.

| Name of the position | No. of position | Essential Educational Qualifications | Desirable Qualifications | Nature of work & Responsibilities | Monthly Emoluments (₹) |
|----------------------|-----------------|---|---|--|------------------------|
| Project Associate-I | 1 | M.Sc. in Biotechnology/ Genetics/ Biochemistry/ Microbiology/Life science and related disciplines with at least 60% marks at both the Master's and Graduation Levels. Prior research experience in the form of master's thesis/ Summer training etc. involving PCR and DNA Sequencing | Experience in, biological sample handling Microbiological Culture, Host and Microbial DNA isolation, Primer Designing, PCR and DNA sequencing | <ul style="list-style-type: none"> Processing of Biospecimens, placental tissue biopsy collected from Hospitals for Microbial DNA, RNA isolation Performing basic molecular biology laboratory works like PCR and DNA sequencing for both the host and microbial samples. Performing basic microbiological lab work including FISH Formulation of SOPs and maintaining GLP with proper documentations of day-to-day lab activities. Maintenance of Stock and Purchase Indenting | 25,000+24% HRA |

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|--------------------------|---|---|---|---|------------------|
| Research Associate - III | 1 | 1.Ph.D./MD/MS/MD S 2.Minimum one publication in peer reviewed journal as first author | Demonstrated experience in genomics/placenta biology/singles cell transcriptomics | Single cell transcriptomics (Both experimental work and data analysis) of placenta and integrative analysis of data generated in other arms of the study, manuscript writing and preparation of reports | 54,000 + 24% HRA |
|--------------------------|---|---|---|---|------------------|

These positions are contractual, and appointments will be initially given for **one year**, which are extendable depending upon performance and requirements of the project.

Please apply online at <https://apply.nibmg.ac.in> (no other form of application will be accepted). The last date of application is **12th July 2021 upto 5PM**. Please visit our website www.nibmg.ac.in for further information. Only the shortlisted candidates will be called for online Interview. The decision of NIBMG in all matters relating to eligibility, acceptance or rejection of application, mode of selection, and conduct of interviews will be final and binding on the candidates. In exceptionally meritorious cases, the eligibility requirements may be relaxed by competent authorities relaxed by the competent authority.