Training Programme for Basic of Stem Cells

CCMB proposes a training course in Basics of Stem Cells is designed for beginners as well as experienced researchers/technicians who want to expand their knowledge and understanding on Stem Cells. We cover the theory and practical aspects of make the attendees trained in stem cell biology – basic & applied. Researchers, practitioners, technicians, and others who are currently into stem cell research or plan to initiate in the future are encouraged to apply.

Duration	:	3 weeks
No. of seats	:	6-8 No.s
Minimum Education Qualifications	:	M.Sc., B.Tech., M.V.Sc., MBBS, M.Pharma,
Age group	:	21-45 years (relaxation for SC/ST/OBC as per GOI rules
Date of Commencement	:	26th November 2019
Venue of the Course	:	iHUB, CSIR-CCMB, Annexe II
Course Fee	:	Rs. 25,000/- for basic course (self/sponsored)
Residential/non-residential	:	Residential (accommodation provided)

Sponsorship: Established public/private sectors are welcomed to sponsor candidates of their interest.

Training Curriculum:

- Culture of embryonic stem cells - Preparation of Feeder layer, Cell culture and splitting of ES cultures, Embryoid body formation, Manipulation of ES cells/iPSC (only demo), Imaging etc
- Derivation and culture of Adult pluripotent stem cells - Bone marrow and Placental derived stem cells, Culture and characterization of stem cells (CFU, FACS and MACS), Differentiation protocols and characterization, Manipulation of APSC
- Tissue specific progenitors - Derivation of progenitor cells (Epithelial explants, HSC etc), Characterization of progenitor cells
- Discussion and trouble-shooting

Salient Features of the Training:

- 30% theory and 70% practical sessions are per the course curriculum.
- Hand-out information on teaching modules
- Tutorials (personal attention)
- Lectures are assisted with multimedia aids
- Case studies
- Group discussions
- Central facility visits within the laboratory
- Assessments –theory & practicals
- A certificate will be issued to the successful candidates