

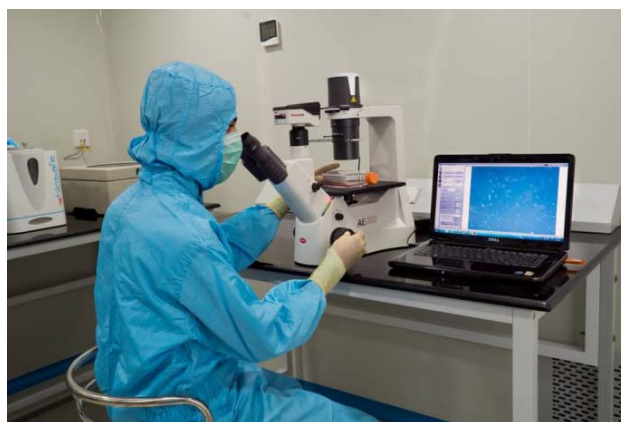
Stem cell training courses

Level-I – 5 day programme

Module:

| Day 1 | |
|--------------|--|
| 9.30 – 11.30 | Introduction to principles of stem cells |
| 12.00 – 1.15 | Biological basis of mesenchymal stem cells & their culturing |
| 2.15 – 4.00 | Stem cell laboratory & equipment |
| 4.15-5.00 | Discussion |
| Day 2 | |
| 10.00-11.15 | Batch – I Lab tour & safety considerations in cell culture lab |
| 11.45-1.15 | Batch – II Lab tour & safety considerations in cell culture lab |
| 2.15-5.00 | Demonstration on media preparation and sterility testing |
| Day 3 | |
| 10.00-1.00 | Observation of media, thawing & seeding of cryopreserved cells |
| 2.15-3.15 | Stem cells in regenerative medicine |
| 3.45-5.00 | Case studies of TIRM |
| Day 4 | |
| 10.00-1.00 | Mock handling of pipettes & culture wares |
| 2.00-5.00 | Harvesting, subculturing & Cryopreservation |
| Day 5 | |
| 10.00-1.00 | Observation & screening of cells |
| 2.30-4.00 | Certification & feedback |

- **Eligibility**
Undergraduate & postgraduate students of all life science and related courses.
- **Enrollment**
Enrollment will be limited to 12 participants per batch. Only refreshments will be provided. The participants will have to take care of their travel, accommodation and food.
- **Application**
Interested candidates may send the application enclosing a brief CV and also state how the training will be useful to their research/career to tirmstemcell@gmail.com



Level-II – 9-day programme

Module:

| Day 1 | |
|--------------|--|
| 9.30 – 11.30 | Introduction to principles of stem cells |
| 12.00 – 1.15 | Biological basis of mesenchymal stem cells & their culturing |
| 2.15 – 4.00 | Stem cell laboratory & equipment |
| 4.15-5.15 | Discussion |
| Day 2 | |
| 10.00-11.15 | Batch – I Lab tour & safety considerations in cell culture lab |
| 11.45-1.15 | Batch – II Lab tour & safety considerations in cell culture lab |
| 2.15-5.00 | Demonstration on media preparation and sterility testing |
| Day 3 | |
| 10.00-1.00 | Observation of media, thawing & seeding of cryopreserved cells |
| 2.15-3.15 | Stem cells in regenerative medicine |
| 3.45-5.00 | Case studies of TIRM |
| Day 4 | |
| 10.00-1.00 | Instruction and explanation on harvesting procedure |
| 2.00-5.00 | Harvesting, subculturing & cryopreservation |
| Day 5 | |
| 10.00-1.00 | Hands-on mocking of pipettes & culture wares |
| 2.15-4.30 | Hands-on media preparation |
| Day 6 | |
| 10.00-1.00 | Batch-I Thawing & seeding of cells |
| 2.00-5.00 | Batch-II Thawing & seeding of cells |
| Day 7 | |
| 10.00-1.00 | Batch-I Hands-on harvesting & subculturing |
| 2.15-5.15 | Batch-II Hands-on harvesting & subculturing |
| Day 8 | |
| 10.00-1.00 | Observation & evaluation of their culture |
| 2.30-4.00 | Demonstration on isolation of stem cells from adipose tissue |
| Day 9 | |
| 10.00-1.00 | Operation Theatre visit |
| 2.00-5.00 | Certification & feedback |

➤ **Eligibility**

Postgraduate students & research scholars of all life science and related courses.

➤ **Enrollment**

Enrollment will be limited to 4 participants per batch. Only refreshments will be provided. The participants will have to take care of their travel, accommodation and food.

➤ **Application**

Interested candidates may send the application enclosing a brief CV and also state how the training will be useful to their research/career to tirmstemcell@gmail.com

Level-III

In this programme, we will cover the level-I & II module along with necessary molecular biology techniques including cytotoxicity assay (MTT), flow cytometry, DNA isolation & PCR, protein isolation and Western blot. This training will give flexibility for the students to choose which of the techniques they want to be trained in. We will decide the training period and fee depending on their requirement. Interested candidates kindly send your interest along with your CV to tirmstemcell@gmail.com

