HANDS ON TRAINING PROGRAMME ON "BASIC TECHNIQUES IN ANIMAL TISSUE CULTURE"

(12-15 NOVEMBER, 2018)

Sponsored from UGC XII plan grant

Conducted at: School of Biotechnology Devi Ahilya University, Indore

Head Dr. Anil Kumar Coordinator Dr. Hamendra Singh Parmar

Program Schedule

Day 1: 12.11.2018

10:30-10:45 AM-Brief summary about the program by Head of the department

- 10:45-12:00-Lecture on Basic animal tissue culture methodologies
- 12:00-12:30- Video movie on sterile culture and cryopreservation

12:30-13:45- Practical on culture media preparation

13:45-14:30- Lunch break (at first floor ICH)

- 14:30-16:00-Practical on Trypsinization of the cells and counting
- 16:00-17:30-Practical on Heat inactivation of serum and cryopreservation
- 17:30-18:00- Question answer session of the lessons learnt

Day 2: 13.11.2018

10:00-10:45 AM-Practical on thawing and seeding the cells

- 10:45-11:15- Video movie on MTT assay with documentary
- 11:15-12:45- Practical on MTT
- 12:45-13:15- Video movie on wound healing assay with commentary
- 13:15-13:45-Video movie on migration and invasion assay with commentary
- 13:45-14:30- Lunch break (at first floor ICH)
- 14:30-15:30-Practical on wound healing assay
- 15:30-16:30-MTT observation and result interpretation
- **16:30-18:00-** Practical on cell migration assay using transwell inserts

Day 3: 14.11.2018

10:00-10:30 AM-Theory on apoptosis assays

- 10:30-11:00-Video on cell death detection assay
- 11:00-12:15-Theory on gene expression studies using real time PCR& microarray
- 12:15-12:45- Observation of wound healing results and interpretation
- 12:45-13:45- Observation of migration assay and results interpretation
- 13:45-14:30- Lunch break (at first floor ICH)
- 14:30-18:00-Practical on Cell death detection ELISA (apoptosis)

Day 4: 15.11.2018

- 09:00-10:00 AM-Theory lecture on tissue engineering and stem cell biology
- 10:00-12:00- Practical on RNA isolation for quantitative gene expression analysis
- 12:00-13:45- DNA isolation for mitochondrial DNA quantification
- 13:45-14:30- Lunch break (at first floor ICH)
- 14:30-17:30- Practical on real time PCR for gene expression quantification
- 17:30-18:00- Certificate distribution and Concluding remark by Head of the department