

Summer School: Advanced Therapy Medicinal Products and Regenerative Medicine based Therapies - University of Birmingham UK

Organizers: prof. Alicia El Haj and prof. Anthony Metcalfe

Registration fee: 200 pounds

SHIFT and TERMIS members: 150 pounds

Taking concepts from the laboratory through preclinical evaluation and on to clinical trials, this module will cover how interdisciplinary researchers are advancing regenerative medicine technologies. Areas covered within the module will include personalised medicines, cell therapies, manufacture & classification, and cell delivery. Examples from the Healthcare Technologies Institute include skin and bone restructuring as well as technologies being developed for tissue regeneration. The module will also discuss finding new methods of detecting injuries and cancers early, improving scar reduction at different body sites and the development of innovative, bespoke medical devices and cell-based therapies. There will also be discussion of regulatory and ethical frameworks surrounding ATMPs and Regenerative Medicine Products. Commercial and Marketing considerations will also be discussed. Some regenerative medicine company case studies will be reviewed. There will be a session on Career Choices and a final session rounding up the course which will be open to student questions.

Tuesday 21st – Friday 24th March 2023 : 1 week virtual/recorded or in person course in Birmingham; a combination of lectures and virtual practical hands on training with tours of cell therapy suites

Preliminary timing of the Summer School:

Tuesday 21st March

- From Laboratory Concept to Patient: Early Clinical considerations for ATMP's
- ATMP's and Regenerative Medicine: The Landscape of Cells and Cell Banking

Wednesday 22nd March

- ATMP's and Regenerative Medicine: The Landscape of Tissues and Organs
- Introduction to Cellular Therapies: examples in skin
- Introduction to cellular Therapies: examples in bone

Thursday 23rd March

- Regulatory Considerations for Healthcare Technologies / ATMP's
- Ethical Considerations for Healthcare Technologies / ATMP's
- Virtual training – GMP laboratory skills
- Tour of the Cell Therapy labs

Friday 24th March

- Commercial and Marketing Considerations for Regenerative Medicine Products / ATMP's
- Company Case Studies of Regenerative Medicine and Healthcare Technology Approaches
- Group tutorial and QA

During the week, for those present in Birmingham there will be an opportunity for a virtual training practical: Good manufacturing training for ATMPs. In collaboration with the Centre for ATMP manufacturing training.