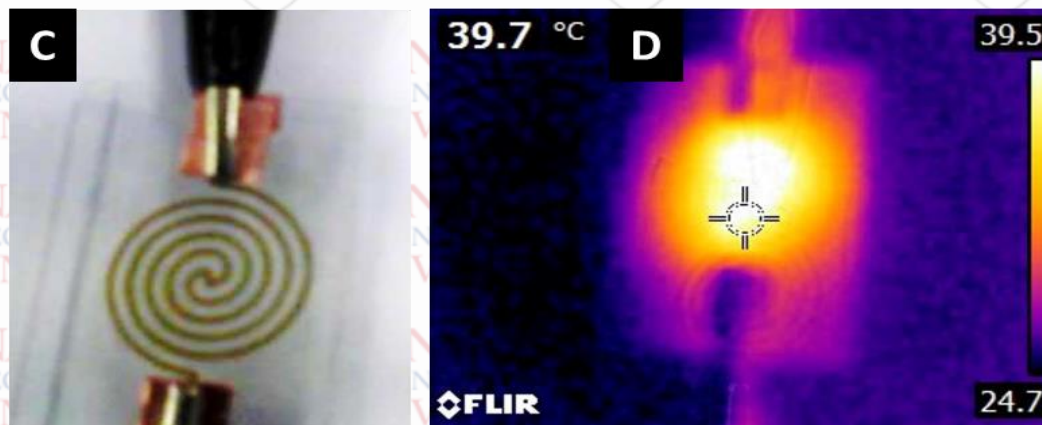
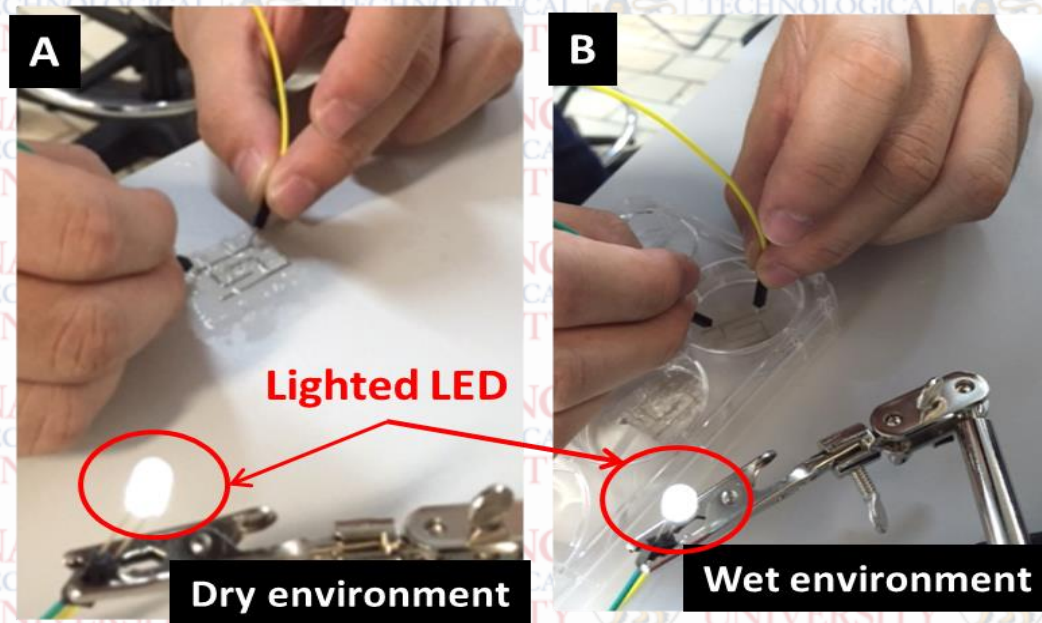


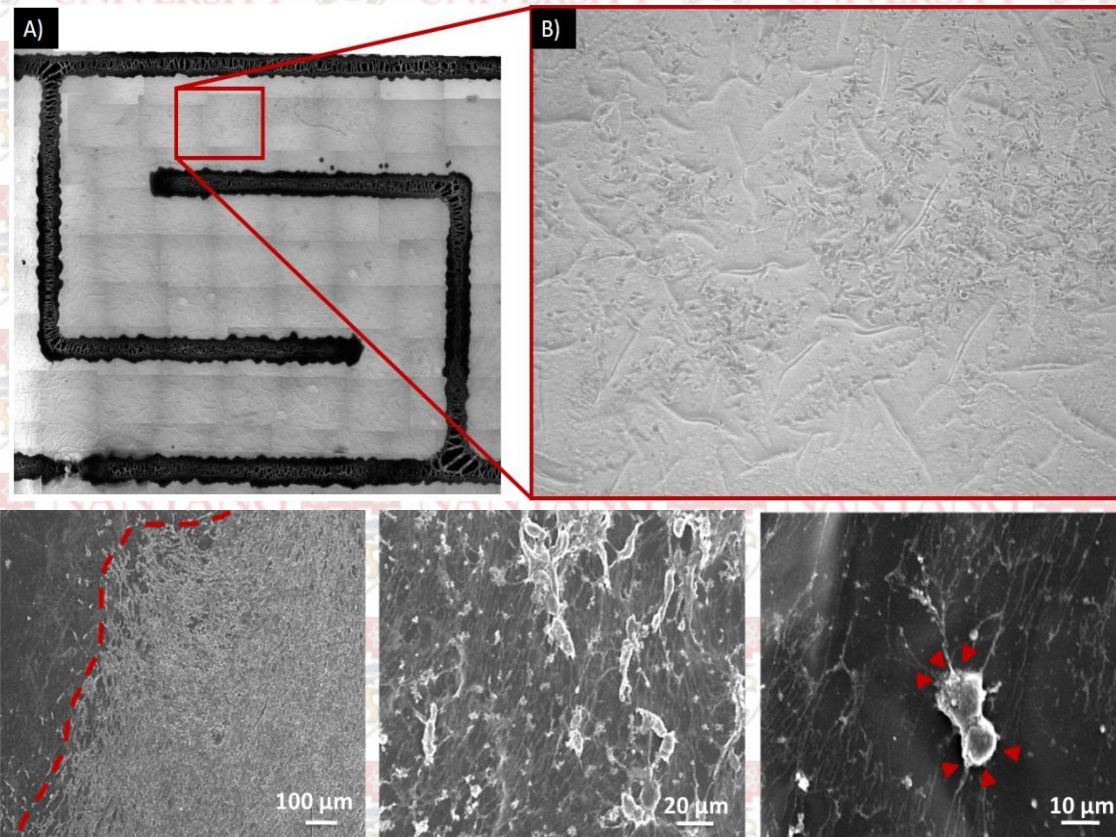
3D printed Hybrid, Smart, Flexible and Three-dimensional Bioelectronic Platform



- A biocompatible, flexible platform that provides conformal coverage for biomedical applications.
- Bioprinting enables fast and simple fabrication and the template is ready for use as soon as it is printed, thus requiring no post processing.
- Bioprinting allows flexibility to build the platform in any shape and size and with different circuit designs depending on the end requirements.



- Works well in both in wet and dry environment and hence can be used as regenerative template.
- A prototype of encapsulated heating coil circuit.



- Biocompatibility with C2C12 murine myoblasts (cell line) and human dermal fibroblasts (primary cells).
- The work also carried out preliminary studies on the behavior of cells in presence of electrical stimulation.