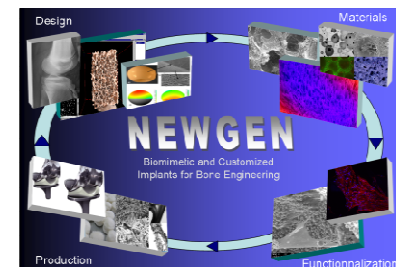




- ✓ **Complete denomination:** University of Wollongong
- ✓ **Location (city, country):** Wollongong, Australia
- ✓ **Director:** : Paul Wellings
- ✓ **Contact person in NEWGEN:** Vitor Sencadas
- ✓ **Working Group involvment:** WG1, WG2 and WG4
- ✓ **Staff:**
- ✓ **Research topics:**
 - ✓ Electroactive polymers, Piezoelectric properties of bone, piezoelectric polymers and ceramics, electrospinning, electrospray, polymer emulsions
- ✓ **Researchers expertises:**
 - Piezoelectric properties
 - Electrospinning / electrospray
 - Materials characterization
 - emulsions, solvent casting

Name/Acronym

University of Wollongong
Northfields Avenue
2522 NSW, Wollongong - Australia

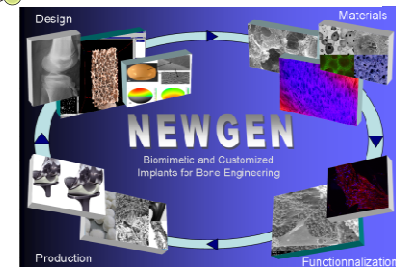
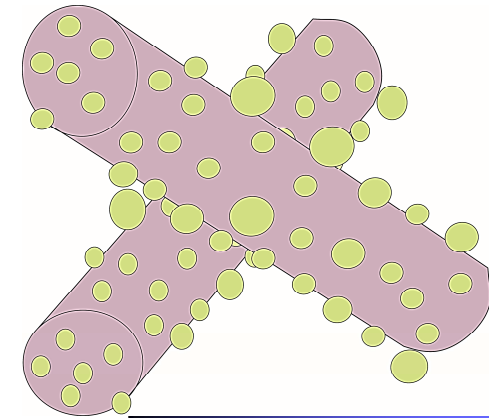
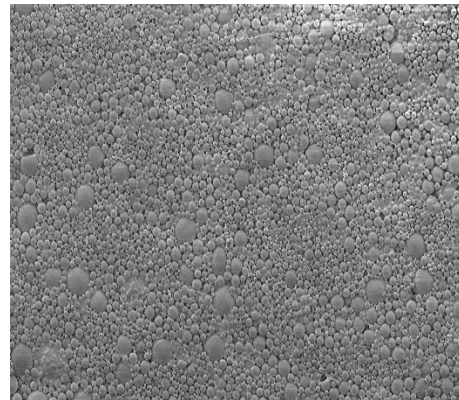
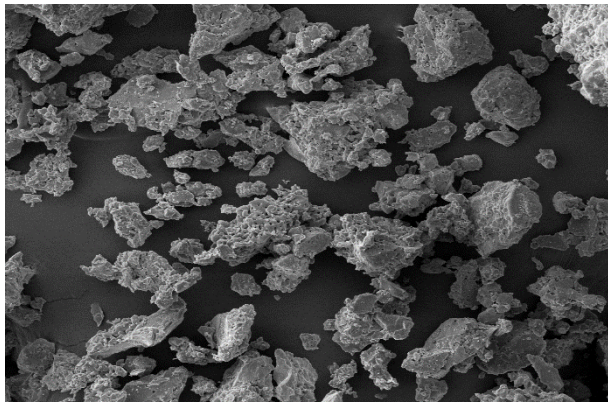
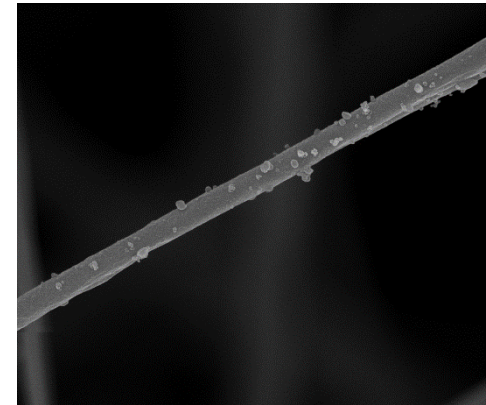
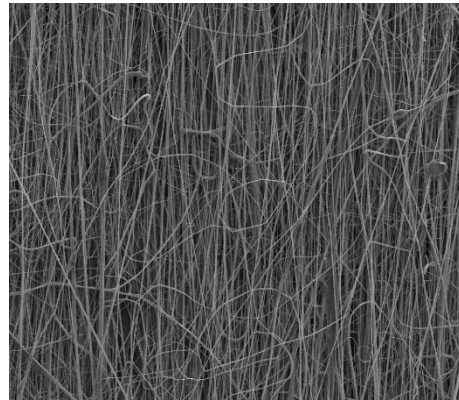
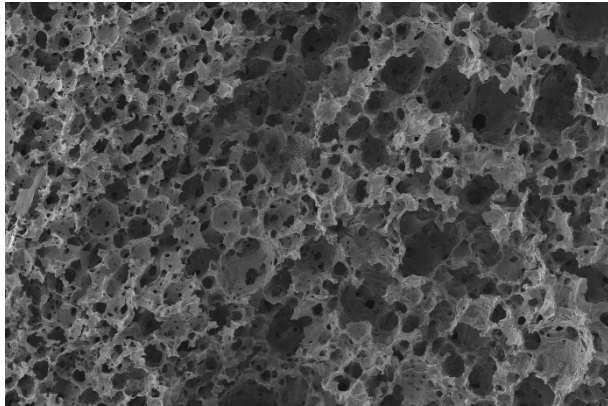


COST Action MP1301

Production for electrospun electroactive fibre mats composites with hydroxyapatite particles or with Bonelike® microparticles.

Fibre functionalization with tailored functionality, such the inclusion of natural proteins (ex: gelatin, collagen, bovine lactoferrin) with natural α -elastin or recombinant based polymers like elastin like polymers or silk-elastin like polymers.

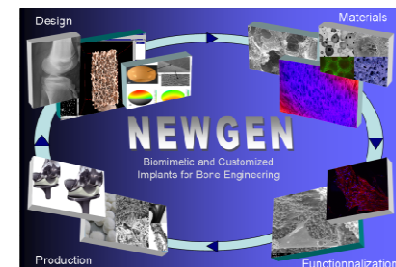
Porous electroactive biodegradable polymer scaffolds of PLA or PHB filled with the above mentioned fillers to enhance cell attachment and proliferation



COST Action MP1301

UOW is on top 2% Universities in the world. It has a state of the art facilities with several competencies for:

- Polymer processing techniques: electrospinning/spray, emulsions, 3D printing, solvent casting, etc.
- Characterization techniques: electrical, mechanical, chemical, morphological, thermal, among others.



COST Action MP1301