

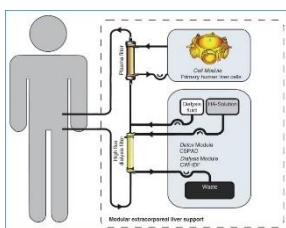
Research Activities

Bioreactor development



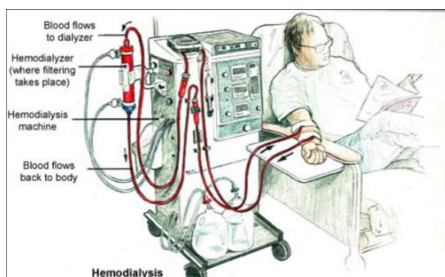
- Bioreactors for the in vitro culture of ovarian tissue for the regeneration of women's fertility
- Bioreactor for bone tissue engineering

Bioartificial organs



- Bioartificial liver
- Bioartificial pancreas

Artificial organs

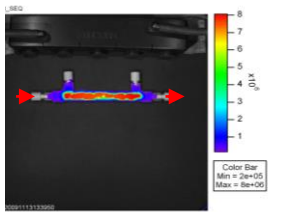


- Innovative hemodialysers and hemo/diafilters to potimize dialytic treatments
- Filters for endotoxin removal from dialysate
- Membrane devices for blood oxygenation (ECMO) and carbon dioxide removal (ECCO2R)

Biomaterials

- Biomaterials characterization and modification
- Medical membranes characterization and modification

Membrane processes



- Membrane-based bioreactors
- Membrane-based bioseparations

Alternative in vitro systems to animal tests

- Development of in vitro systems alternative to animal tests for drug toxicity screening
- Development of in vitro systems for basic studies of tissue behavior