



- **Complete denomination:** Instituto de Bioingeniería de la Universidad Miguel Hernandez
- **Location (city, country):** Elche-Alicante- Spain
- **Director:** Dr. Eugenio VILLANOBA
- **Contact person in NEWGEN:** Dr. Piedad N DE AZA - piedad@umh.es
- **Working Group involvement:** WG1
- **Staff:** 87 staff (10 Full Profs., 20 Aso profs., 12 Ass. profs., 13 Res. Assintant, 15 PhD students, 15 lab. technicians, 2 administratives)

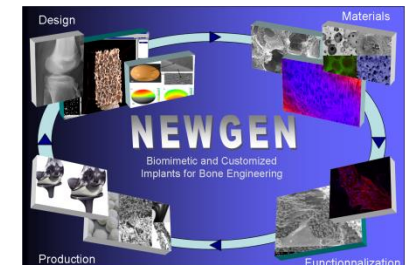
Research topics: cell regenerative therapy, genetics of plant development, cell physiology, biomaterials, biomedical instrumentation, telemedicine, structural and functional genomic, toxicology and chemical safety, neurotoxicity and embryotoxicity, synthesis and design of complex molecules and polymers with biological and electronic application, cell banks, clinical trials and monitoring of drugs

Researchers expertises

Chemists-ceramists: powder synthesis, physical-chemical characterization, processing of dense and porous ceramics.

IBI UMH

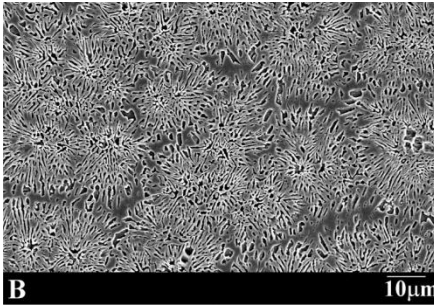
Universidad Miguel Hernandez
Avda. de la Universidad s/n
03202 Elche-Alicante
SPAIN



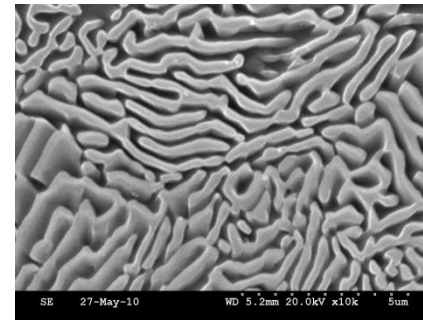
COST Action MP1301

Bone substitutes structure: Bulk ceramic by solid state reaction sintering

Si-Ca-P based eutectic materials

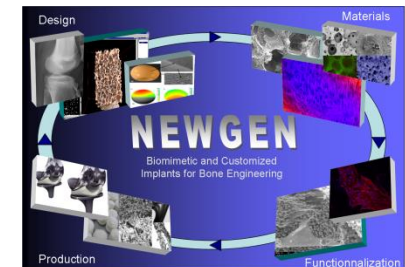
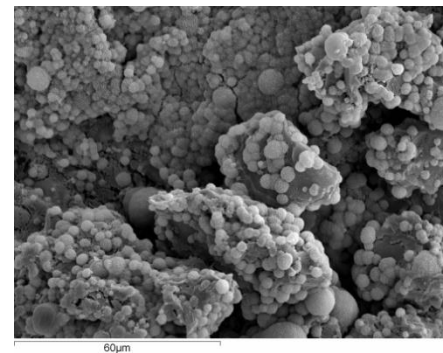
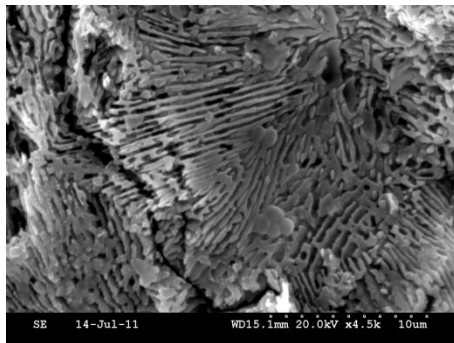


Si-Ca-P based eutectoid materials



Bioactivity

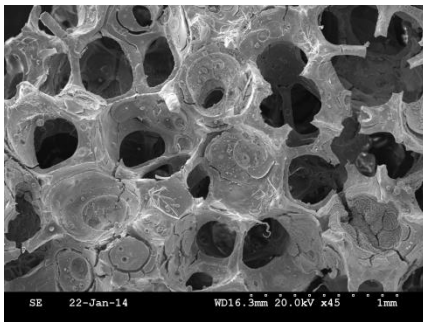
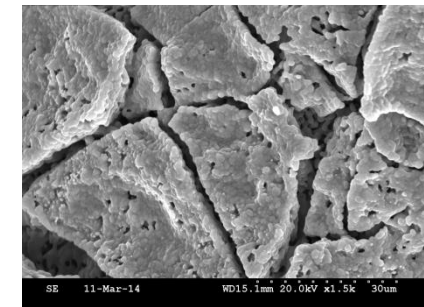
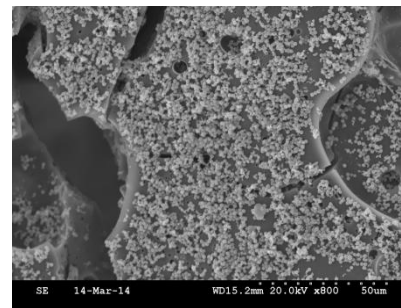
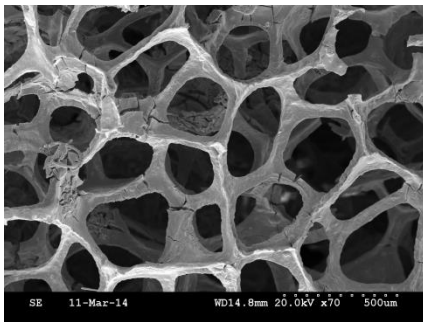
Biocompatibility



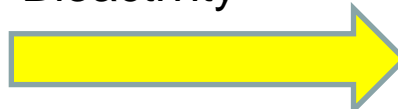
COST Action MP1301

- **Bone substitutes structure:** Scaffolds by sol-gel

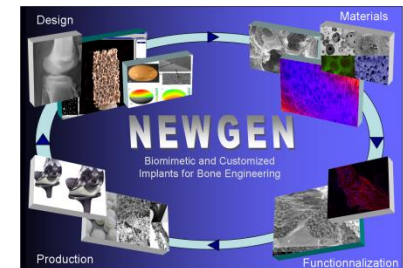
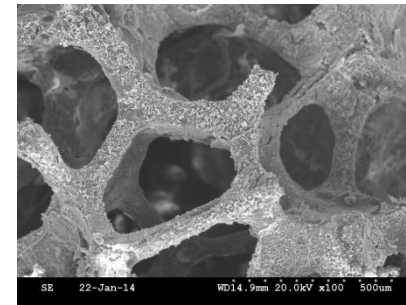
Si-Ca-P and Si-Ca based materials



Bioactivity



Biocompatibility



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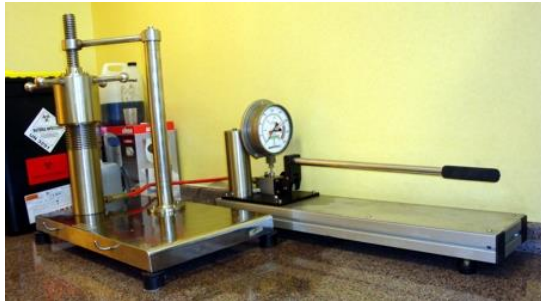
Milling, cutting and polishing



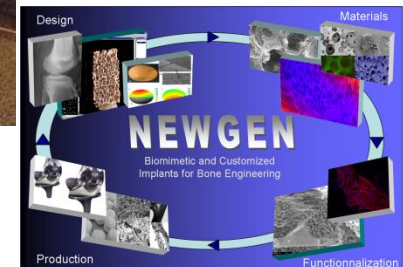
Furnaces



Isostatic press



Optical microscopy

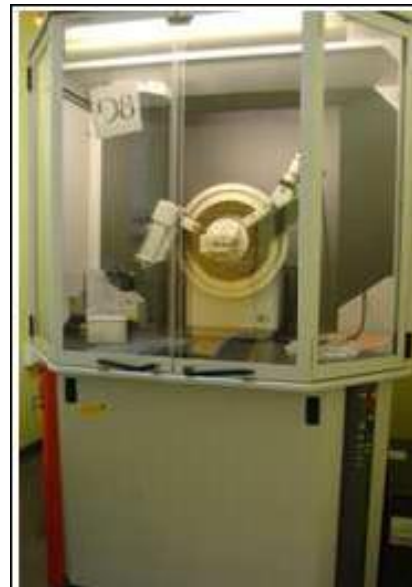




SEM-EDS



XRD



Particle size

