

## GENERAL PRESENTATION

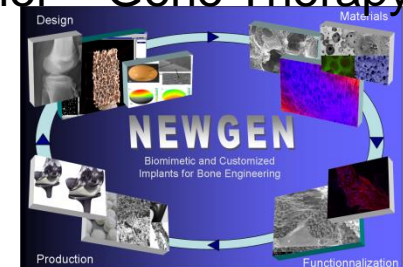
- **Complete denomination:** AO Research Institute (ARI)
- **Location (city, country):** Davos Platz, Switzerland
- **Director:** Geoff Richards
- **Contact person in NEWGEN:** Mauro Alini
- **Working Group involvement:** WP4
- **Staff:**  
Marianna Peroglio  
Vincent Stadelmann  
Martin Stoddart
- **Research topics:** Bone/Cartilage Regeneration - Tissue Eng.
- **Researchers expertises:** Cell Biology - Biochemistry - Biomechanics – CT Imaging - Biomaterials/Polymer – Gene Therapy

### Name/Acronym

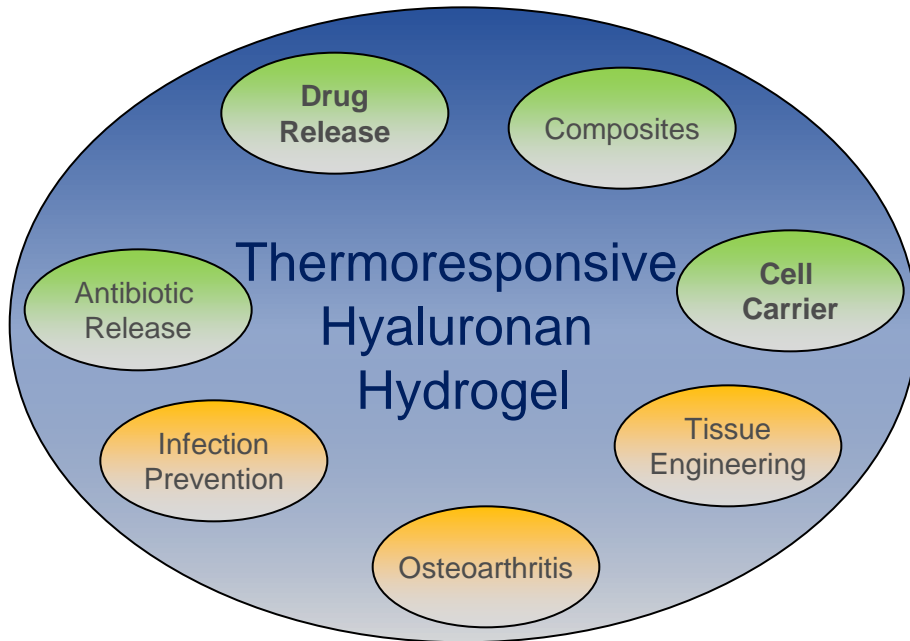
Institution

Street n°

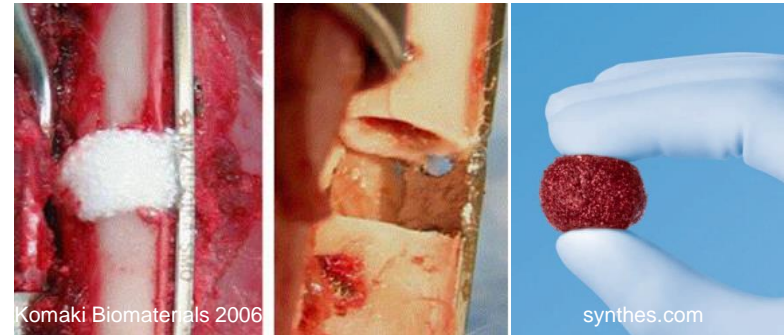
Postcode, city - COUNTRY



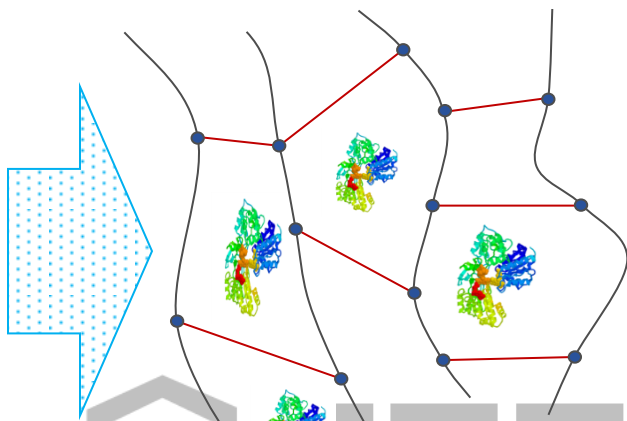
**COST Action MP1301**



### Bone Regeneration Calcium Phosphate Putties

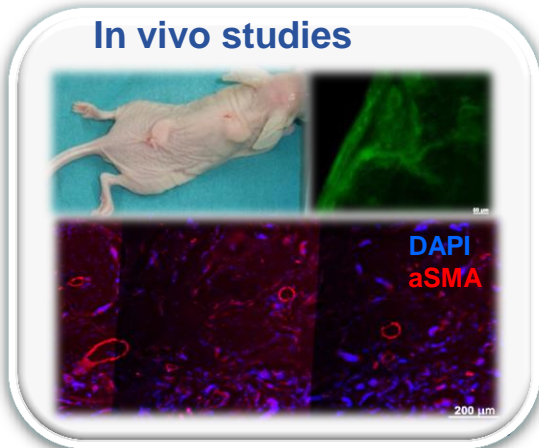
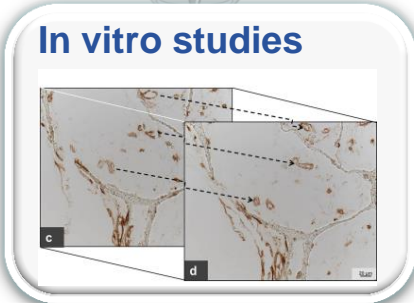
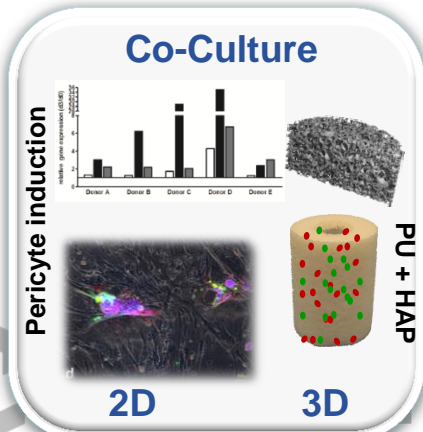
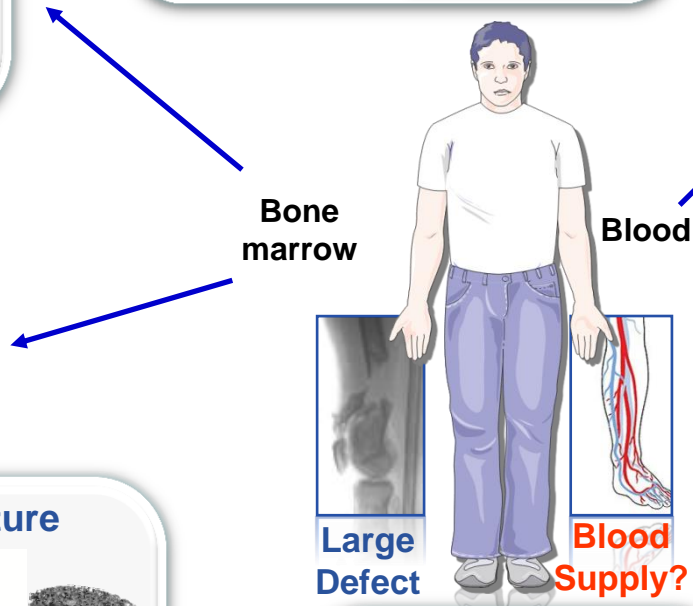
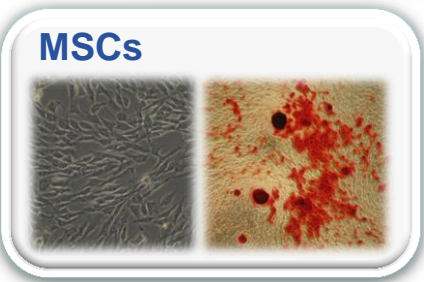
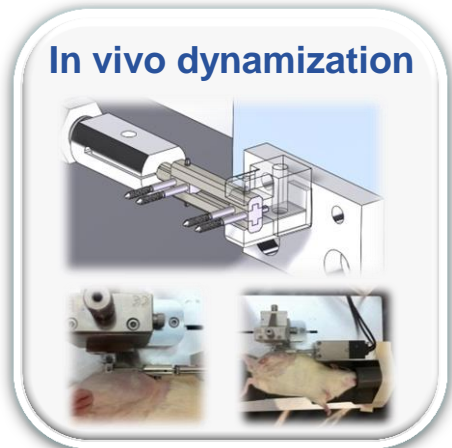
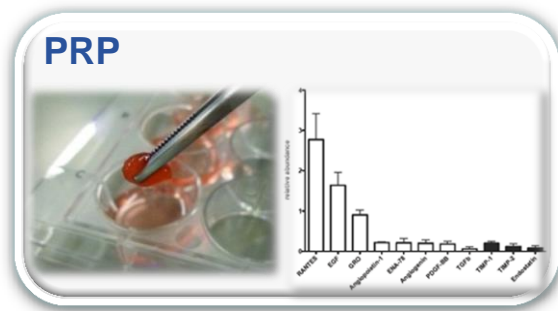
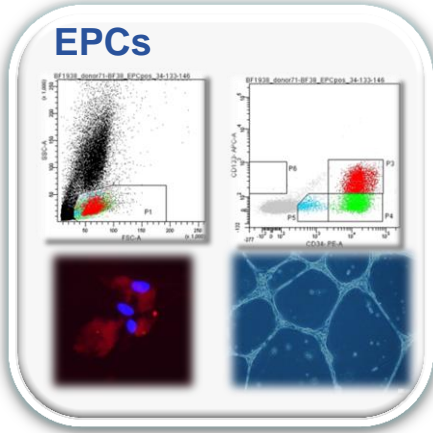


### Polyurethane Sponges Bone and Cartilage Regeneration



# ARI

## Bone repair/regeneration (critical size bone

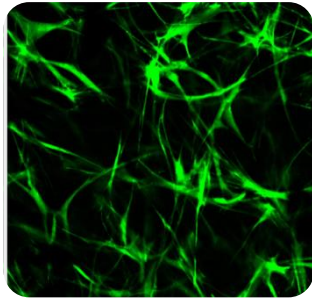


Intra-operative cell therapy-  
Bone and cartilage

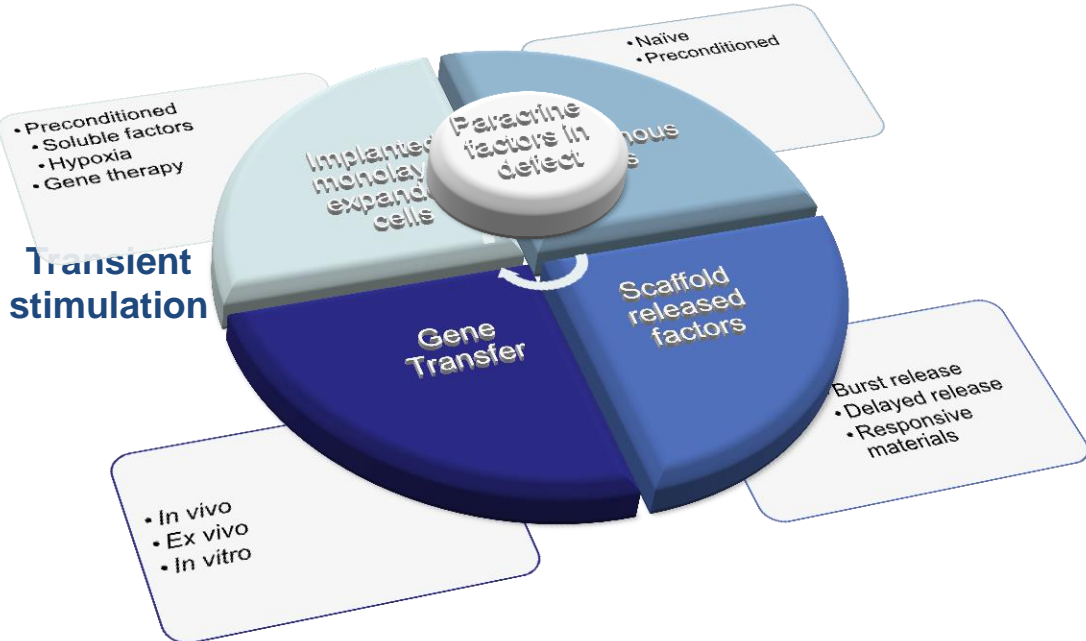


**Bone Marrow Aspirate**

3D Osteogenesis  
Models

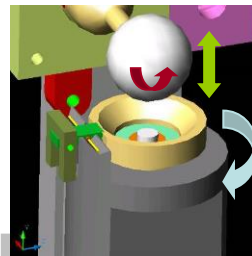


Mechanical  
Induction of  
chondrocytic  
phenotype

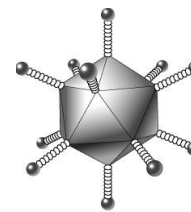


### Chondrogenic Induction

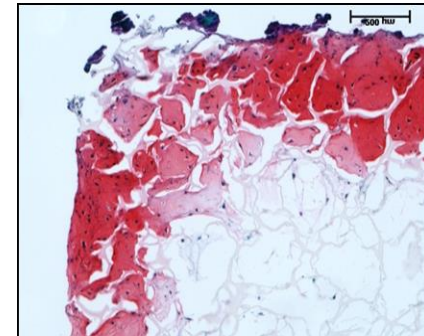
Tribological Load



Gene Therapy



Viral Vector (e.g. Sox9)



Cartilage Induction  
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The gene encoding the factor can be introduced in Gene Therapy Strategies

