



## RAMSES LABORATORY

Preclinical studies for regenerative medicine of musculoskeletal system

Chief: Brunella Grigolo, PhD

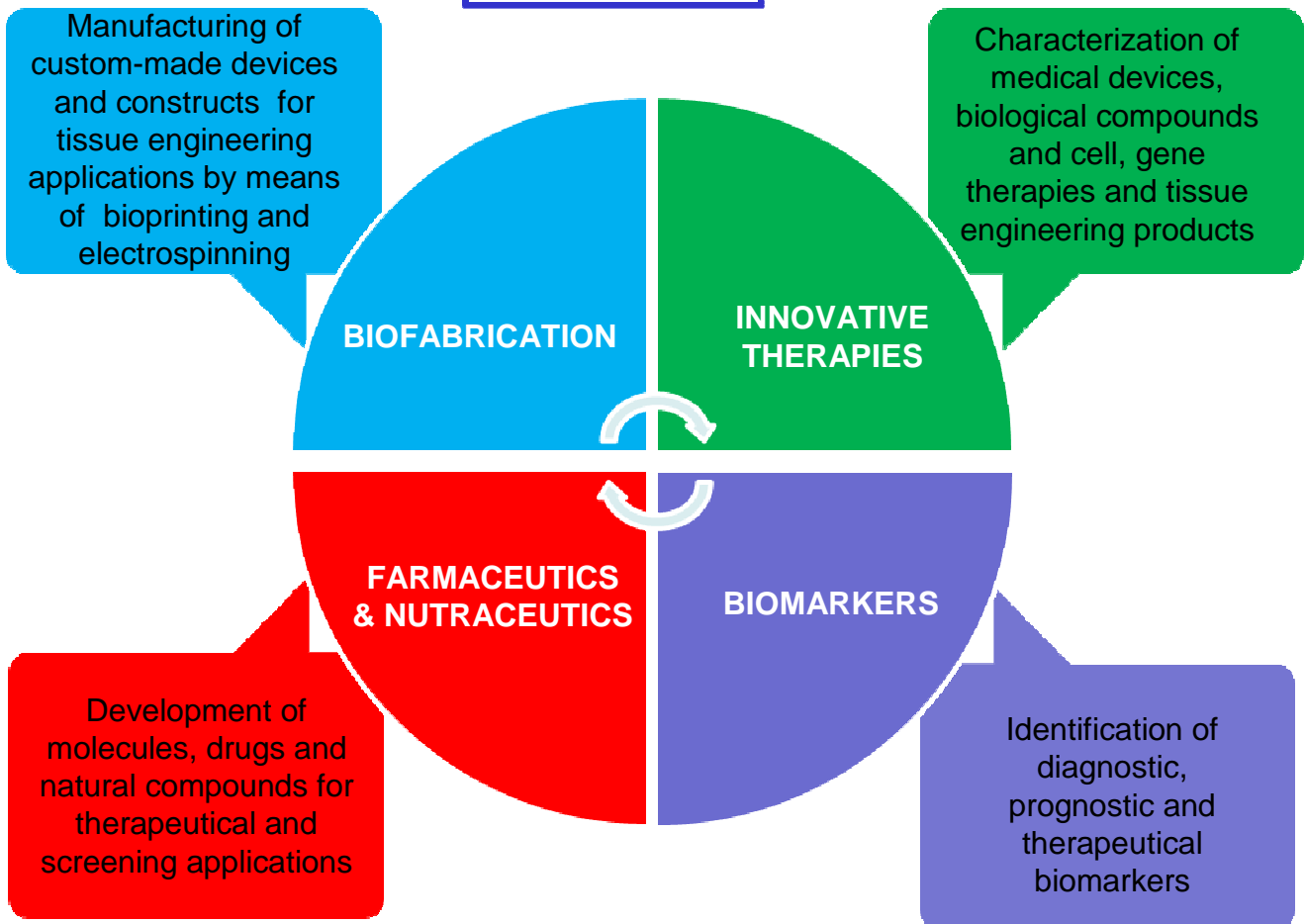
### MISSION

Technology transfer from basic to clinical research through collaboration with the clinical units of the Institute, national and international realities and with industries.

### VISION

To strengthen research activities in collaboration with clinical units and local enterprises in the view to continuous improvement. To identify and develop new strategic technologies to meet customer requests.

### TOPICS





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### Methods

- Morphology (samples processing for histological and immunohistochemical analysis, cytologic specimen setting, imaging analysis)
- Cell biology (primary cultures from normal and pathological tissues, normal and transformed cell line cultures, cell population separation, proliferation and cytolytic activity assay, nucleic acid transfection, immunoenzymatic reactions, immunofluorescence staining, flow cytometry, flow-fish)
- Molecular biology (PCR, RT-PCR, real-time PCR, Western blotting, *in situ* hybridization)
- Analytical Chemistry methods (ELISA, Multiplex etc)
- Custom-made products development by 3D Bioprinting

### Relevant technological resources

#### Structural and ultra-structural analysis

Microtome, Cryostat  
Fluorescent microscope with imaging analysis

#### Cell Culture

Laminar hoods, CO<sub>2</sub> incubator, inverted microscope  
System for pressure/tension induction,  
U-CUP System Bioreactor

#### Phenotypical analysis

Flow Cytometer

#### Molecular Biology

Thermocyclers for quantitative PCR

#### Proteomics

ELISA, Multiple analysis (Bioplex)\*  
Western Blot (IBLOT gel transfer device)

#### 3D Bioprinting

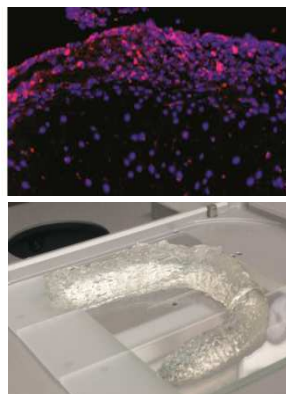
Tissue printer Bio Factory  
Bio Printer 3D Discovery

### Training opportunities

RAMSES laboratory provides training for students degree thesis preparation.

### Commissioned research

The Laboratory carries out activities on behalf of third parties for Industries, also dealing with the design and planning of research protocols



### Contatti

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