FOUNDING PARTNERS

Presidenza del Consiglio dei Ministri

Consiglio Nazionale delle Ricerche

UPMC Life Changing Medicine

University of Pittsburgh

Regione Siciliana

PARTNERSHIPS

Thanks to powerful international strategic alliances with the founding partners and IRCCS ISMETT (Istituto Mediterraneo per i Trapianti e Terapie ad Alta Specializzazione), Ri.MED is focused on translating the progress of biomedical research into patient care, integrating preclinical drug discovery, regenerative medicine and tissue engineering.

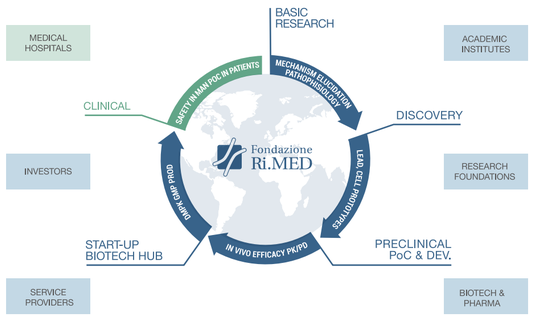
MISSION

TRANSLATE THE BIOMEDICAL RESEARCH INTO PATIENT CARE

Promote, support, and conduct biotech and **biomedical research projects** to rapidly transfer innovative discoveries into **clinical practice**

Promote and sustain the development of the biotech sector in **Sicily and south of Italy** in order to position the country at the **forefront in this research sector**

Ri.MED POSITIONING IN THE LIFE SCIENCE SECTOR



Fondazione Ri.MED

Via Bandiera, 11 - 90133 Palermo, Italy
Tel. +39 091 6041111 - Fax +39 091 6041122
info@fondazionerimed.com
www.fondazionerimed.com

Fondazione Ri.MED

THE ITALIAN NO-PROFIT TRANSLATIONAL MEDICINE BIOTECH FOUNDATION

Ri.MED STRATEGY

Translate discovery into products

INNOVATIVE APPROACHES FOR UNMET THERAPEUTIC AREAS

Focus on priority therapeutic areas -eg end-stage organ-, neurodegenerative-, cardiovascular-, infectious-diseases, inflammation, oncology.

Focus on strenghts and innovation - tissue engineering, regenerative medicine, medical device, small molecule, vaccine and drug discovery.

PORTOFOLIO AND ALLIANCES

Company portfolio management based on target product profile, value proposition, generation of intellectual property.

Strategic alliances to build critical mass and synergistic competencies.

ENTRAPRENEURSHIP AND BUSINESS IN ITALY

Support start up companies
Attract public and private investors
Scouting and propelling innovation
FTE-based or fee for service scientific research

Ri.MED DIVERSIFIED PORTFOLIO

INTEGRATED DRUG DISCOVERY

- **Anti-inflammatory drugs for steroid-resistant airway diseases**
  Partner: CNR
- **Development of new anti-inflammatory drugs: lipid signaling in inflammation**
  Partners: University of Pittsburgh, Complexa

REGENERATIVE MEDICINE

- **Type I Diabetes:** Isolation and transplant of Human Pancreatic Islet for type I diabetes patient
  Partners: Diabete Research Insitute (Miami), IRCCS ISMETT
- **Heart regeneration and blood coagulation**: characterizion of the effect of nitrite on heart regeneration upon cryo injury and the role of globins in regeneration
  Partner: University of Pittsburgh
- **Renal tissue engineering**: lymph node stromal (LNS) cell-based system with human renal progenitors to regenerate a functional kidney graft
  Partner: University of Pittsburgh
- **Chronic skin wound**: Fetal dermal cell-based therapy for chronic skin wound management
  Partner: IRCCS ISMETT

IMMUNO ONCOLOGY

- **Modulating protein-protein and protein-DNA interactions:** new molecular targets to inhibit tumor progression and metastasis
  Partner: University of Pittsburgh
- **Advanced cell therapy for liver diseases:** adoptive immuno-therapy
  Partners: IRCCS ISMETT, UPMC Italy

NEUROSCIENCE WITH A FOCUS ON RARE DISEASES

- **Amiotrophyc Lateral Sclerosis (ALS):** unravel the pathogenic mechanism of ALS (peripheric/muscular origin, central/neurologic origin)
  Partner: University of Rome "La Sapienza"
- **Temporal Lobe Epilepsy (TLE)**: side effects-free therapeutic potential of mitochondrial cannabinoid receptor 1 stimulation in the prevention of Temporal Lobe Epilepsy (TLE)
  Partners: University of Pittsburgh, University of Rome "La Sapienza"
- **Parkinson (PD) and Huntington (HD) Diseases:** novel diagnostics and therapeutics
  Partner: University of Pittsburgh

TISSUE ENGINEERING AND BIOMEDICAL DEVICES

- **Cardiovascular tissue engineering**: development of myocardial patch and engineered tissues (pulmonary valve leaflet and vascular grafts)
  Partners: University of Pittsburgh, UPMC
- **Osteoarthritis:** 3D osteochondral (OC) microphysiological systems (MPS) to generate engineered construct that mimic native tissue
  Partner: University of Pittsburgh
- **Personalizing Decision-Making in Healthcare**: cardiovascular biomechanics-computational modelling for predicting ascending thoracic aortic aneurysm to de-risk clinical outcome
  Partner: IRCCS ISMETT

INFECTIOUS DISEASES

- **Development of novel vaccination strategies**:

  Eat to Heal - Yeast probiotic vaccination vector - express antigens of pathogens which use the mucosal surfaces

  DNA vaccines comprising the Lysosome-Associated Membrane Protein 1 (LAMP) agaist Zika and Dengue
  Partner: University of Pittsburgh

TECHNOLOGY PLATFORMS

MS-BASED FUNCTIONAL PROTEOMICS AND SECRETOMICS

NATIVE AND ENGINEERED TISSUE CHARACTERIZATION

GMP CELL FACTORY FACILITIES

STRUCTURAL BIOLOGY, COMPUTATIONAL BIOLOGY, DRUG DESIGN AND VIRTUAL SCREENING, BIO AND CHEMINFORMATICS