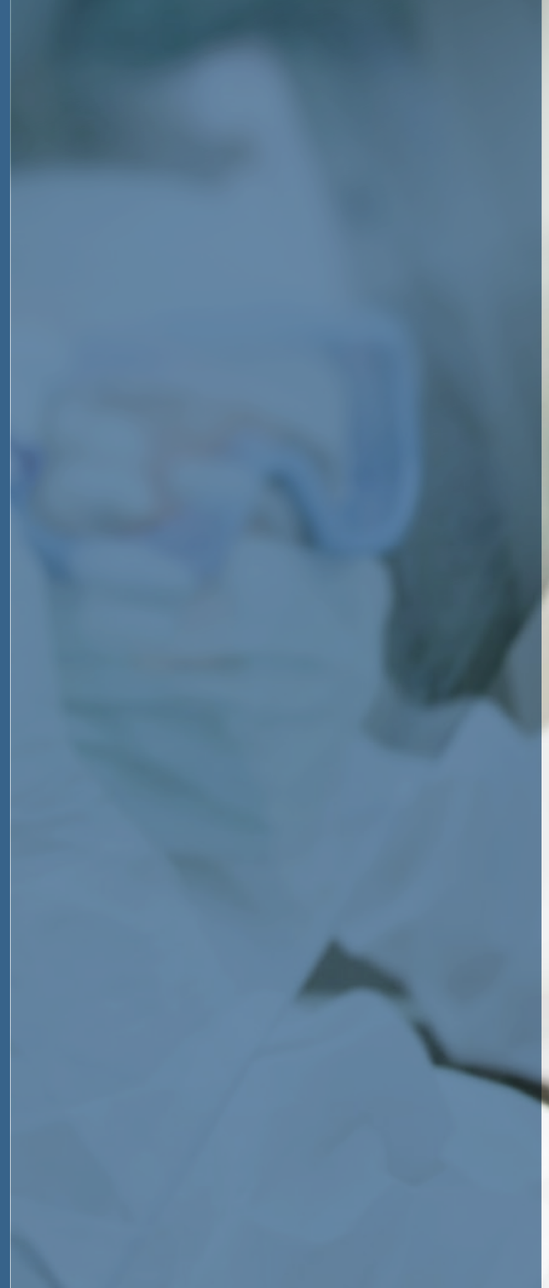
Fondazione
Ri.MED

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 TRANSLATIONAL LIFESCIENCE ENGINE

Ri.MED FOUNDATION
DELIVERING NEXT GENERATION PATIENTS' SOLUTIONS

FOUNDING PARTNERS

Presidency of the Italian Council of Ministers; University of Pittsburgh; University of Pittsburgh Medical Center (UPMC); Italian National Research Council (CNR); Region of Sicily.

PARTNERSHIPS

The Ri.MED Foundation has established a strategic partnership with the Palermo-based hospital IRCCS ISMETT, Istituto Mediterraneo per i Trapianti e Terapie ad Alta Specializzazione. This initiative delivers truly translational research: discovery, preclinical development, clinical research and practice.Our joint effort is delivering a balanced project pipeline in the field of regenerative medicine and cellular therapies including a GMP cell factory to support clinical trials.

MISSION

- Nurturing and mentoring new talents
- Enhancing scientific knowledge
- Generating socio-economic impact for Sicily and Southern Italy
- Promote, support, and conduct biotech and biomedical research projects to rapidly transfer innovative discoveries into clinical practice

OPPORTUNITIES

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

Ri.MED TRANSLATIONAL RESEARCH ENGINE

THERAPEUTIC NEEDS → **PRODUCTS**

- ORGAN INSUFFICIENCIES
- CANCER
- INFECTIOUS DISEASES
- NEURODEGENERATIVE DISEASES

DISCOVERY
Biophysics
Computational Biology
Drug Design and Virtual Screening
Compound Management and Medicinal Chemistry
High Throughput Screening
Bio Engineering Prototype Lead
Cell Product Identity
Biologic Lead

THERAPEUTIC NEED & TARGET VALIDATION
Genomics and Proteomics
Biochemistry, Cell and Mol Biology
In vitro and in vivo Studies
Patho-Pathway Elucidation
Chemical and Biological Tool Molecules
Artificial Intelligence for Medicine
Cell Product Potency

PRECLINICAL DEVELOPMENT
Bio Eng. Prototype Dev.
Acute and Chronic in vivo PoC
DMPK & Safety
Cell Product Safety and Efficacy

CLINICAL DEVELOPMENT
Biobank
Diagnostics
GPM Facility
Clinical Trials
Cell Therapy
Organ Transplant

TECHNOLOGY TRANSFER
Intellectual Property
Business Development
Partnering

- BIOMARKERS
- PRECISION MEDICINE
- BIOLOGICS
- ATMP
  Advanced Therapy Medicinal Products
- BIOMEDICAL DEVICES

Ri.MED RESEARCH CENTER

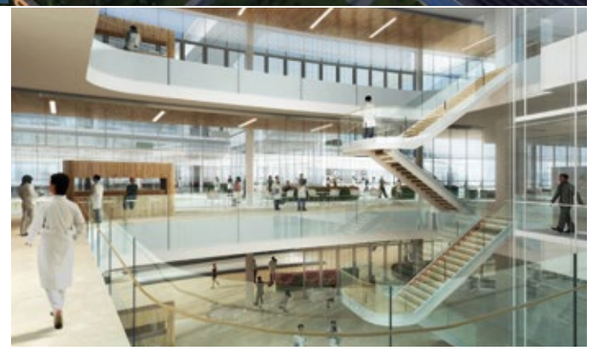
A SCIENTIFIC DISTRICT IN THE HEART OF THE MEDITERRANEAN

The **Biomedical Research and Biotechnology Center** will allow Sicily to take a leading position in the development of next generation therapeutics, engineered tissues and medical devices, contributing to Italy's leading role in the international scientific community.

A leading R&D biotech center, attracting the best researchers from all over the world and retaining in Italy our best physicians and scientists.

25,000 sqm of laboratory facilities, **some 600 people** and about just as many jobs will be created in the **allied industries**.

Translating research into products means social benefit for the public health and economic benefit in terms of private investment for creation of innovative SME's, employment and allied activities.



LABORATORIES AND FACILITIES

- **Integrated Discovery Laboratory**
- **Regenerative Medicine Laboratories**
- **Biomedical Engineering Research Laboratories**
- **Vaccine Development Laboratories**
- **Molecular Imaging Laboratory**
- **Neuroscience Laboratory**
- **In Vivo Model Facility**
- **Spin-off Enterprise**

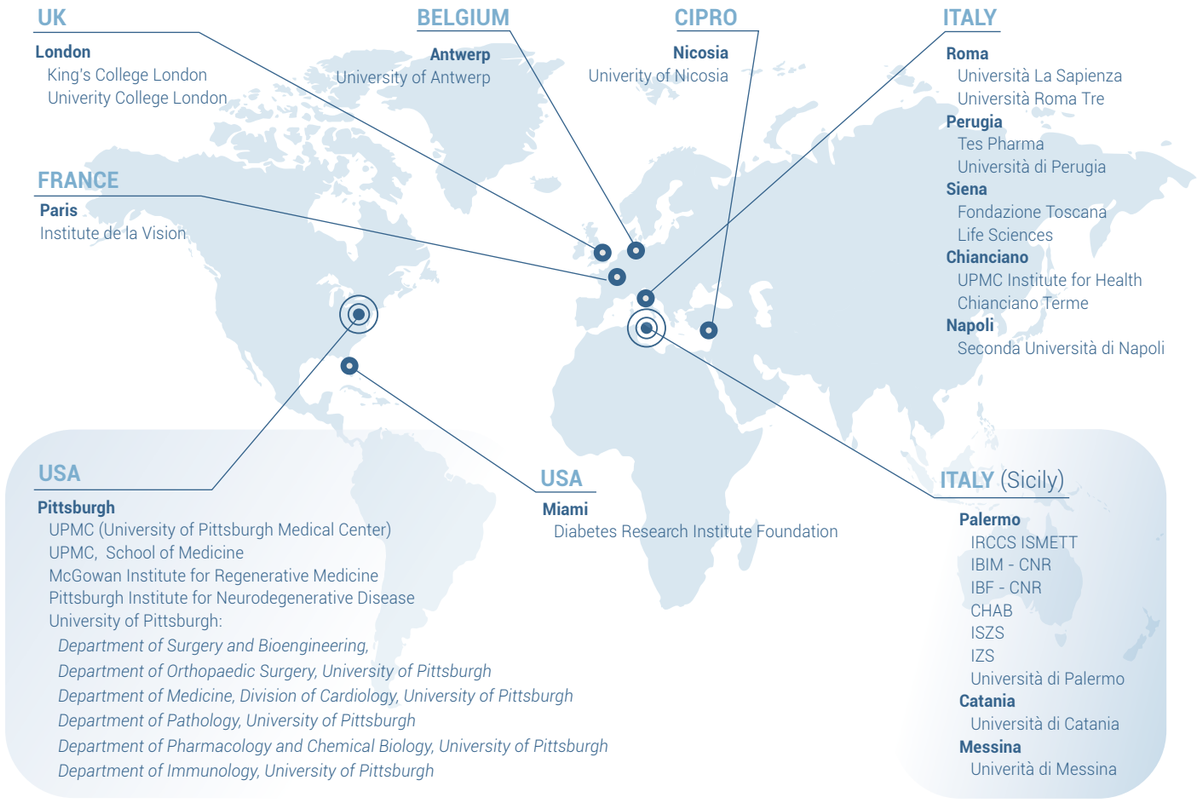
Ri.MED NETWORK

TRAINING

Ri.MED promotes PhD, postdoctoral fellowships and training programs within it's scientific network at regional, national and international level.
Training programs helded by Ri.MED contribute to the enrichment of the overall potential offer of Sicily in the biomedical and health care technology sector.

NETWORKING

Ri.MED is developing an increasingly extended network of scientific collaborations: several agreements are already in place, sharing laboratories and resources with organizations across the globe, to promote research activity and develop technological innovation. A special focus is on issues related to scientific dissemination, sharing research outcomes, organizing meetings and workshops.



Ri.MED PORTFOLIO

PRODUCTS	RESEARCH PROJECT	THERAPEUTIC AREA	PARTNERS
ATMP Advanced Therapy Medicinal Products	NK Cell mediated therapy In cancer and chronic infection	Organ Insufficiencies	IRCCS ISMETT - University of Pittsburgh
	Adoptive Transfer of virus-specific T cells	Organ Insufficiencies	IRCCS - ISMETT
	MSC-based therapy for skin and liver diseases	Organ Insufficiencies	IRCCS - ISMETT
	Placenta-derived MSC and Pancreatic Insulae isolation and characterization	Organ Insufficiencies	IRCCS - ISMETT
BIOLOGICS	Bioengineering a kidney in secondary lymphoid organs	Organ Insufficiencies	University of Pittsburgh
	Immunotherapy against colonization by multidrug resistant bacteria	Infectious diseases	IRCCS - ISMETT
	Probiotic yeasts as novel vaccination vectors	Infectious diseases	IRCCS ISMETT - University of Pittsburgh
	MicroRNA-mRNA interaction network	Cancer	Univ. of Palermo - Univ. of Pittsburgh - IBIM CNR
BIOMARKERS	Function of Globins in heart regeneration and development	Cardiovascular diseases	University of Pittsburgh
	Prediction of Ischaemic Lesions associated with cardiovascular diseases	Cardiovascular diseases	UCL - UCLH
	In-silico modeling for clinical risk stratification of cardiovascular pahtologies	Cardiovascular diseases	IRCCS - ISMETT
BIOMEDICAL DEVICES	Development of a novel cardiovascular devices	Cardiovascular diseases	UCL - Mayo Clinic - Barts Hospital
	Tissue engineered cardiac valve, patch and graft	Cardiovascular diseases	University of Pittsburgh
	Development of osteochondral bioreactors and scaffold matrices	Inflammatory diseases	University of Pittsburgh
PRECISION MEDICINE	MUC1 and its interactions in cancer and inflammation	Cancer	University of Pittsburgh
	ADAMTS5 role in senescence induction in prostate cancer cells	Cancer	IOR SWITZERLAND
	Epigenetics in cancer	Cancer	University of Naples
	Steroid-unresponsive inflammation in chronic obstructive pulmonary disease	Inflammatory diseases	IBIM CNR
	Pharmacokinetics of nitro fatty acids (NO2-FA)	Inflammatory diseases	University of Pittsburgh
	Molecular mechanism of protein misfolding diseases	Neurodegenerative diseases	University of Palermo - King's College London

PIPELINE

CLINICAL NEED | DISEASES ANALYSIS | DISCOVERY | PRECLINICAL VALIDATION | PRECLINICAL DEVELOPMENT | CLINICAL STUDIES

Preclinical proof of concept Lead/Prototype

Clinical Proof of principle

TECHNOLOGY PLATFORMS

The engine of translational research of the Ri.MED Fondation is propelled by competences and technological platforms to support discovery projects and preclinical development in order to expedite translation of biomarkers, precision therapeutics for biomedical devices to patients.

BIOINFORMATICS | BIOENGINEERING | STRUCTURAL BIOLOGY AND BIOPHYSICS | COMPUTER AIDED DRUG DESIGN | PROTEOMICS