PERSONAL INFORMATION

Roberto Rizzi, Ph.D.

Via Salvatore Quasimodo 123, 00144 Roma, Italia

+39 06 50170 3180 +39 339 5371377

roberto.rizzi@cnr.it ;
rizzi@ingm.org

WEBSITE: https://ingm.org/en/rizzi_lab_eng/

Sex Male | Date of birth 12/01/1973 | Nationality Italian

RESEARCH INTERESTS

Development of innovative bio-technologies for bio-medical field

3D Bio-Printing (*BIO*-InkJet) for disease modelling (neuro and muscle diseases)

***In vivo* organs generation**

Stem Cell-based therapies for cardiac and skeletal muscles regeneration

Biomaterials for tissue engineering and 3D organoid formation

WORK EXPERIENCE

2019 – present

Researcher- Group Leader
National Institute of Molecular Genetics Foundation (INGM)
Head of Regenerative Medicine Lab
Via Francesco Sforza, 35 – 20122 Milano, Italia

Project Leader- Development of new technologies for regenerative medicine

Business or sector Biotech/ Medical

2008 - present

Researcher- Group Leader
National Research Council (CNR) of Italy
Institute of Biomedical Technologies (ITB)
7 Aldo Moro Square – Rome, Italy

Project leader of the project "Stem cells supported by innovative bio-materials in regenerative medicine"

Business or sector Medical

2009 - 2015

Consultant: Researcher- Group Leader
IRCCS MultiMedica
16/15 Fantoli Street – Milan, Italy

Coordinator of the project "Generation of induced pluripotent stem cells for personalized medicine approaches"

Business or sector Health and life science

2007 – 2008

Post-Doc
Harvard Medical School
Brigham and Women's Hospital
75 Francis Street – Boston, Massachusetts, USA

Responsible of the group involved in the characterization of calcium channels in cardiac differentiation

Business or sector Medical

2006 – 2007 **Post-Doc**
New York Medical College
40 Sunshine Cottage Road – Valhalla, New York, USA

Identification of a population of cardiac progenitors residing in the human heart

Business or sector Medical

2005 – 2006 **Post-Doc**
Istituto Dermopatico dell'Immacolata (IDI)
Via dei Monti di Creta 104 - Rome, Italy

Regeneration of muscle tissues

Business or sector Medical

2004 **Post-Doc**
University of Rome "Tor Vergata"
Via O. Raimondo, 8 Loc. La Romanina - Rome, Italy

Biological effects of peptides VGF-derived

Business or sector Medical

EDUCATION, TRAINING

EDUCATION

2018 ASN- National Scientific Qualification
CALL D.D. 1532/2016 Eligibility Associate Professor -**Sector 06/N1**
(Med 46 -Med 47 -Med 48 -Med 50)
Science of health professions and applied medical technologies

2005 Specialty in Clinical Sexology
Clinical Sexology Institute - Rome, Italy

2003 Ph.D. in Psychobiology and Psychopharmacology
Psychobiology and Psychopharmacology Institute, University of Rome "La Sapienza"
Piazza Aldo Moro, 5 - Rome, Italy

1999 Master's degree in Clinical Psychology
University of Rome "La Sapienza"
Piazza Aldo Moro, 5 - Rome, Italy

TRAINING

2009 "*EUGENEheart Mouse phenotyping-Catheter-based in vivo hemodynamics of murine hearts",* under the supervision of Mylene Pezet, PhD, Consulting Engineer, Bichat Hospital, Paris.

2009 "*EUGENEheart Mouse phenotyping- small rodens echocardiography*," under the supervision of Dr. Brigitte Escoubet, cardiologist, MD, PhD, Bichat Hospital, Paris.

2002 "*Physiology of pain*" under the supervision of Prof. Giancarlo Carli, Nuovi Istituti Biologici, University of Siena.

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	

English	C1	C1	C1	C1	C2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user

Communication skills

Excellent communication skills gained through my experience as researcher in national and international laboratories, particularly in:

- leadership, exchange constructive feedback and delegating responsibilities
- working independently and as a team member
- Competitive attitude, self-motivated, and strong work ethic.

Organisational/managerial skills

Excellent organizational and administrative skills:

- Group Leader (currently responsible for a team of 10 people)
- Capable to write grants and papers
- Experienced in managing several projects and collaborations in parallel
- Able to prioritize, set realistic objectives and planning work to achieve goals and targets on time
- Proven ability to train, supervise, motivate Post Doc, PhD students, technicians stimulating discussion

Job-related skills

- Management of research projects: grants application, articles writing and conferences participations
- Data handling: data interpretation, statistical analysis
- Molecular Biology techniques
- Cell Culture techniques
- Tissue engineering technique
- Animal surgery

Digital competence

Very good knowledge of Windows operating system, Office (Word, Excel, PowerPoint, Movie Maker), Adobe Photoshop CS, Image J, EndNote and software for molecular analysis (Primer 3, Ensembl, GeneSifter)

Driving licence

B

SCIENTIFIC PUBLICATIONS

MAIULLARI F, CHIRIVÌ M, COSTANTINI M, FERRETTI AM, RECCHIA S, MAIULLARI S, MILAN M, PRESUTTI D, PACE V, RASPA M, SCAVIZZI F, MASSETTI M, PETRELLA L, FANELLI M, RIZZI M, FORTUNATO O, MORETTI F, CARADONNA E, BEARZI C, **RIZZI R***. In vivo organized neovascularization induced by 3D bioprinted endothelial-derived extracellular vesicles. Biofabrication 2021. *IF: 8,213*. In press.

SONIA MACCARI, VALENTINA PACE, FEDERICA BARBAGALLO, TONINO STATI, CATERINA AMBROSIO, VANESSA VEZZI, CRISTINA GRO', LIVIANA CATALANO, PAOLA MATARRESE, PAOLA MOLINARI, **ROBERTO RIZZI**, GIUSEPPE MARANO. Daily intermittent β-blockade improves cardiac function in post-infarction heart failure. Eur J Pharmacol. 2020 Jun 22;882:173287. doi: 10.1016/j.ejphar.2020.173287. PMID: 32585157

BACI D, CHIRIVÌ M, PACE V, MAIULLARI F, MILAN M, RAMPIN A, SOMMA P, PRESUTTI D, GARAVELLI S, BRUNO A, CANNATA S, LANZUOLO C, GARGIOLI C, **RIZZI R** AND BEARZI C. Extracellular Vesicles from skeletal muscle cells efficiently promote myogenesis in induced pluripotent stem cells. Cells. 2020 Jun 23;9(6):1527. doi: 10.3390/cells9061527.

BIANCHI A, MOZZETTA C, PEGOLI G, LUCINI F, VALSONI S, ROSTI V, PETRINI C, CORTESI A, GREGORETTI F, ANTONELLI L, OLIVA G, DE BARDI M, **RIZZI R**, BODEGA B, PASINI D, FERRARI F, BEARZI C, LANZUOLO C. Dysfunctional polycomb transcriptional repression contributes to Lamin A/C dependent muscular dystrophy. J Clin Invest. 2020 Jan 30. pii: 128161. doi: 10.1172/JCI128161.

MAIULLARI F, COSTANTINI M, MILAN M, PACE V, CHIRIVÌ M, MAIULLARI S, BACI D, MAREI HE, SELIKTAR D, RAINER A, GARGIOLI C, BEARZI C, **RIZZI R***. A multi-cellular 3D bioprinting approach for vascularized heart tissue engineering based on HUVECs and iPSC-derived cardiomyocytes. SCI REP. 2018 SEP 10;8(1):13532. DOI: 10.1038/S41598-018-31848-X.

MILAN M, PACE V, MAIULLARI F, CHIRIVÌ M, BACI D, MAIULLARI S, MADARO L, MACCARI S, STATI T, MARANO G, FRATI G, PURI PL, DE FALCO E, BEARZI C, **RIZZI R***. Givinostat reduces adverse cardiac remodeling through regulating fibroblasts activation. CELL DEATH DIS. 2018 JAN 25; 9(2):108.

MAREI H, **RIZZI R**, ALTHANI A, AFFIFI N, CENCIARELLI C, CACECI T, SHUAIB A. Potential of stem cell-based therapy for ischemic stroke. FRONT NEUROL. 2018 FEB 6; 9:34. DOI: 10.3389/FNEUR.2018.00034

MAREI HE, SHOUMAN Z, ALTHANI A, AFIFI N, ABD-ELMAKSOUD A, LASHEN S, HASAN A, CACECI T, **RIZZI R**, CENCIARELLI C, CASALBORE P, MAREI HE (reprint author). Cholinergic and dopaminergic neuronal differentiation of human adipose tissue derived mesenchymal stem cells. JOURNAL OF CELLULAR PHYSIOLOGY, 2018; 233 (2): 936

SOHAIL MU, ALTHANI A, ANWAR H, **RIZZI R**, MAREI HE. Role of the gastrointestinal tract microbiome in the pathophysiology of diabetes mellitus. J Diabetes Res. 2017; 2017:9631435. doi: 10.1155/2017/9631435. Epub 2017 Sep 26. Review. PubMed PMID: 29082264; PubMed Central PMCID: PMC5634576.

MAREI HE, SHOUMAN Z, ALTHANI A, AFIFI N, A AE, LASHEN S, HASAN A, CACECI T, **RIZZI R**, CENCIARELLI C, CASALBORE P. Differentiation of human olfactory bulb-derived neural stem cells toward oligodendrocyte. J CELL PHYSIOL. 2018 FEB; 233(2):1321-1329. DOI: 10.1002/JCP.26008. EPUB 2017 JUN 22. PUBMED PMID: 28500734.

RONCA A, MAIULLARI F. MILAN M, PACE V, GLORIA A, **RIZZI R**, DE SANTIS R, AMBROSIO L. Surface functionalization of acrylic based photocrosslinkable resin for 3D printing application. BIOACTIVE MATERIALS. 2017, 2(3): 131–137. doi:10.1016/j.bioactmat.2017.04.002

CARLOMOSTI F, D'AGOSTINO M, BEJI S, TORCINARO A, **RIZZI R**, ZACCAGNINI G, MAIMONE B, DI STEFANO V, DE SANTA F, CORDISCO S, ANTONINI A, CIARAPICA R, DELLAMBRA E, MARTELLI F, AVITABILE D, CAPOGROSSI MC, MAGENTA A. Oxidative stress-induced miR-200c disrupts the regulatory loop among SIRT1, FOXO1 and eNOS. Antioxidant e Redox Signaling. Antioxidant e Redox Signaling. Antioxid Redox Signal. 2016 Dec 13..IF: 7.093; CIT: 0

MACCARI S, BUONCERVELLO M, RAMPIN A, SPADA M, MACCHIA D, GIORDANI L, STATI T, BEARZI C, CATALANO L, **RIZZI R**, GABRIELE L, MARANO G. Biphasic effects of propranolol on tumour growth in B16F10 melanoma-bearing mice. Br J Pharmacol. 2016 Oct 28. doi: 10.1111/bph.13662. [Epub ahead of print] PubMed PMID: 27792834.IF: 8.784; CIT: 0

VONO R, FUOCO C, TESTA S, PIRRÒ S, MASELLI D, MC COLLOUGH DF, SANGALLI E, PINTUS G, GIORDO R, FINZI G, SESSA F, CARDANI R, GOTTI A, LOSA S, CESARENI G, **RIZZI R**, BEARZI C, CANNATA S, SPINETTI G, GARGIOLI C, MADEDDU P. Activation of the Pro-Oxidant PKCβII-p66Shc Signaling Pathway Contributes to Pericyte Dysfunction in Skeletal Muscles of Diabetic Patients with Critical Limb Ischemia. Diabetes. 2016 Sep 6. pii: db160248. [Epub ahead of print] PubMed PMID: 27600065.IF: 8.784; CIT: 0

NARDELLA M, GUGLIELMI L, MUSA C, IANNETTI I, MARESCA G, AMENDOLA D, PORRU M, CARICO E, SESSA G, CAMERLINGO R, DOMINICI C, MEGIORNI F, MILAN M, BEARZI C, **RIZZI R**, PIROZZI G, LEONETTI C, BUCCI B, MERCANTI D, FELSANI A AND D'AGNANO I. Down regulation of the Lamin A/C in neuroblastoma triggers the expansion of tumor initiating cells. Oncotarget. 2015 Sep 3. [Epub ahead of print].IF: 5.008; CIT: 2

VANNOZZI L, RICOTTI L, CIANCHETTI M, BEARZI C, GARGIOLI C, **RIZZI R**, DARIO P AND MENCIASSI A. Self-assembled polydimethylsiloxane structures from 2D to 3D for bio-hybrid actuation. Bioinspir Biomim. 2015 Aug 20;10(5):056001. doi: 10.1088/1748-3190/10/5/056001.IF: 2.891; CIT: 4

FUOCO C, **RIZZI R**, BIONDO A, LONGA E, MASCARO A, SHAPIRA-SCHWEITZER K, KOSSOVAR O, BENEDETTI S, SALVATORI ML, SANTOLERI S, TESTA S, BERNARDINI S, BOTTINELLI R, BEARZI C, CANNATA SM, SELIKTAR D, COSSU G, GARGIOLI C. In vivo generation of an artificial, functional skeletal muscle. EMBO Mol Med. 7:411-22, 2015. IF: 9.547; CIT: 6

CATTANEO P, KUNDERFRANCO P, GRECO C, GUFFANTI A, STIRPARO GG, RUSCONI F, **RIZZI R**, DI PASQUALE E, LOCATELLI SL, LATRONICO MV, BEARZI C, PAPAIT R, CONDORELLI G. DOT1L-mediated H3K79me2 modification critically regulates gene expression during cardiomyocyte differentiation. Cell Death Differ. 2014 Dec 19. doi:10.1038/cdd.2014.199. [Epub ahead of print].IF: 8.218; CIT: 2

FUOCO C, SANGALLI E, VONO R, SACCHETTI B, MADEDDU P, CESARENI G, SELIKTAR D, **RIZZI R**, BEARZI C, CANNATA S, SPINETTI G, GARGIOLI C. 3D hydrogel environment rejuvenates aged pericytes for skeletal muscle tissue engineering. Front Physiol. 2014 May 30;5:203. doi: 10.3389/fphys.2014.00203.IF: 4.031; CIT: 11

AMENDOLA D, NARDELLA M, GUGLIELMI L, CERQUETTI L, CARICO E, **RIZZI R**, BEARZI C, D'AGNANO I, STIGLIANO A, NOVELLI G, BUCCI B. Human placenta-derived neurospheres are susceptible to transformation after extensive in vitro expansion. Stem Cell Research & Therapy 2014, 5:55 doi:10.1186/scrt444.IF: 4.504; CIT: 3

BEARZI C, GARGIOLI C, BACI D, FORTUNATO O, SHAPIRA-SCHWEITZER K, KOSSOVER O, LATRONICO MVG, SELIKTAR D, CONDORELLI G, **RIZZI R***. *PlGF–MMP9*-engineered cardiomyocyte-derived iPS cells supported on a PEG–fibrinogen hydrogel scaffold possess an enhanced capacity to repair damaged myocardium. Cell Death Dis. 2014 Feb 13;5:e1053. doi: 10.1038/cddis.2014.12.IF: 5.378; CIT: 5

FAGOONEE S, BEARZI C, DI CUNTO F, CLOHESSY JG, **RIZZI R**, RESCHKE M, TOLOSANO E, PROVERO P, PANDOLFI PP, SILENGO L, ALTRUDA F. The RNA binding protein ESRP1 fine-tunes the expression of pluripotency-related factors in mouse embryonic stem cells. PLoS One. 8:e72300, 2013.IF: 3.057; CIT: 7

SANDRI M, **RIZZI R**, SCHIATTARELLA GG, LEVIALDI GHIRON JH, LATRONICO MVG, PIRONTI G, CHIARIELLO GA, ESPOSITO G, TAMPIERI A and CONDORELLI G. A collagen membrane-based engineered heart tissue improbe cardiac function in ischemic rat hearts. Bioinspired, Biomimetic and Nanobiomaterials. 10.1680/bbn.12.00028, 2012.IF: 0; CIT:1

RIZZI R, BEARZI C, MAURETTI A, BERNARDINI S, CANNATA S and GARGIOLI C. Tissue engineering for skeletal muscle re generation. Muscle, Ligaments and Tendons J. 2:230-4, 2012.IF: 0; CIT: 18

RIZZI R, DI PASQUALE E, PORTARARO P, PAPAIT R, CATTANEO P, LATRONICO MVG, ALTOMARE C, SALA L, ZAZA A, HIRSCH E, NALDINI L, CONDORELLI G, BEARZI C. Post-natal cardiomyocytes can generate iPS cells with an enhanced capacity toward cardiomyogenic re-differentiation. Cell Death Differ. 19:1162-74, 2012.IF: 8.218; CIT: 25

ZHANG D, CONTU R, LATRONICO MVG, ZHANG J, **RIZZI R**, CATALUCCI D, MIYAMOTO S, HUANG K, CECI M, GU Y, DALTON ND, PETERSON KL, GUAN K, BROWN JH, CHEN J, SONENBERG N and CONDORELLI G. MTORC1 regulates cardiac function and myocyte survival through 4E-BP1 inhibition in mice. J Clin Invest. 120:2805-16, 2010.IF: 12.575; CIT: 120

DE FALCO E, AVITABILE D, TOTTA P, STRAINO S, SPALLOTTA F, CENCIONI C, TORELLA AR, **RIZZI R**, PORCELLI D, ZACHEO A, DI VITO L, POMPILIO G, NAPOLITANO M, MELILLO G, CAPOGROSSI MC and PESCE M. Altered SDF-1-mediated differentiation of bone marrow-derived endothelial progenitor cells in diabetes mellitus. J Cell Mol Med. 13:3405-14, 2009.IF: 4.938; CIT: 31

FERREIRA-MARTINS J, RONDON-CLAVO C, TUGAL D, KORN JA, **RIZZI R**, PADIN-IRUEGAS ME, OTTOLENGHI S, DE ANGELIS A, URBANEK K, IDE-IWATA N, D'AMARIO D, HOSODA T, LERI A, KAJSTURA J, ANVERSA P and ROTA M. Spontaneous calcium oscillations regulate human cardiac progenitor cell growth. Circ Res. 105:764-74, 2009. IF: 11.551; CIT: 52

BONI A, URBANEK K, NASCIMBENE A, HOSODA T, ZHENG H, DELUCCHI F, AMANO K, GONZALEZ A, VITALE S, OJAIMI C, **RIZZI R**, BOLLI R, YUTZEY KE, ROTA M, KAJSTURA J, ANVERSA P, LERI A. Notch1 regulates the fate of cardiac progenitor cells. Proc Natl Acad Sci U S A. 105:15529-34, 2008.IF: 9.423; CIT: 119

RIZZI R, BARTOLOMUCCI A, MOLES A, D'AMATO F, SACERDOTE P, LEVI A, LA CORTE G, CIOTTI MT, POSSENTI R and PAVONE F. The VGF-derived peptide TLQP-21: a new modulatory peptide for inflammatory pain. Neurosci Lett. 441:129-33, 2008.IF: 2.107; CIT: 21

ROTA M, KAJSTURA J, HOSODA T, BEARZI C, VITALE S, ESPOSITO G, IAFFALDANO G, PADIN-IRUEGAS ME, GONZALEZ A, **RIZZI R**, SMALL N, MURASKI J, ALVAREZ R, CHEN X, URBANEK K, BOLLI R, HOUSER SR, LERI A, SUSSMAN MA and ANVERSA P. Bone marrow cells adopt the cardiomyogenic fate in vivo. Proc Natl Acad Sci. 104(45); p. 17783, 2007.IF: 9.423; CIT: 195

ROTA M, HOSODA T, DE ANGELIS A, ARCARESE ML, ESPOSITO G, **RIZZI R**, TILLMANNS J, TUGAL D, MUSSO E, RIMOLDI O, BEARZI C, URBANEK K, ANVERSA P, LERI A and KAJSTURA J. The young mouse heart is composed of myocytes heterogeneous in age and function. Circ Res. 101:387-99, 2007.IF: 11.551; CIT: 48

BARTOLOMUCCI A, LA CORTE G, POSSENTI R, LOCATELLI V, RIGAMONTI AE, TORSELLO A, BRESCIANI E, BULGARELLI I, **RIZZI R**, PAVONE F, D'AMATO FR, SEVERINI C, MIGNOGNA G, GIORGI A, SCHININÀ ME, ELIA G, BRANCIA C, FERRI GL, CONTI R, CIANI B, PASCUCCI T, DELL'OMO G, MULLER EE, LEVI A and MOLES A. TLQP-21, a VGF-derived peptide, increases energy expenditure and prevents the early phase of diet-induced obesity. Proc Natl Acad Sci. 103:14584-9, 2006.IF: 9.423; CIT: 78

MOLES A, BARTOLOMUCCI A, GARBUGINO L, CONTI R, CAPRIOLI A, COCCURELLO R, **RIZZI R**, CIANI B and D'AMATO FR. Psychosocial stress affects energy balance in mice: modulation by social status. Psychoneuroendocrinology. 31:623-33, 2006.IF: 4.704; CIT: 55

SEVERINI C, LEVI A, LA CORTE G, **RIZZI R**, POSSENTI R. Estrogens modulate VGF-derived peptides induced contraction of rat isolated gastric fundus. FEBS J. 272:43 Suppl. 1, 2005.IF: 4.237; CIT: 0

BARTOLOMUCCI A, D'AMATO F, **RIZZI R**, GARBUGINO L, CONTI R, CAPRIOLI A, PALANZA P, SGOIFO A, PARMIGIANI S, MOLES A. Opposite autonomic and neurendocrinealterations in dominant and subordinate male mice under chronic social strees. Behav Pharm. 15:A8-A8, 2004.IF: 2.000; CIT: 1

MOLES A, **RIZZI R** and D'AMATO FR. Postnatal Stress in mice: Does stressing the mother have the same effect as stressing in pups? Dev Psychobiol. 44:230-7, 2004.IF: 2.128; CIT: 32

MOLES A, **RIZZI R** and D'AMATO FR. The number of male pups within the bitter of NMRI mice is associated with the dam's food preferences late in pregnancy. Psychoneuroendocrinology. 28:250-60, 2003.IF: 4.704; CIT: 4

D'AMATO FR, **RIZZI R,** MOLES A. A model of social stress in dominant mice: effects on sociosexual behaviour. Physiol Behav. 73:421-6, 2001.IF: 2.461; CIT: 27.

H-INDEX

20 (https://www.scopus.com/freelookup/form/author.uri)

BOOK CHAPTER

BEARZI C, PARISI C, **RIZZI R***. Modelli sperimentali avanzati per lo studio delle patologie psichiatriche. In: Brambilla P, editor. Neuroscienze psichiatriche e computazionali. Torino: Edizioni Minerva Medica; 2021. ISBN: 978-88-5532-068-9.

BEARZI C, **RIZZI R***. (2019) The Heart-Brain Connection in Patients with Duchenne Muscular Dystrophy. In: Govoni S, Politi P, Vanoli E. (eds) Brain and Heart Dynamics. Springer, Cham. DOI: https://doi.org/10.1007/978-3-319-90305-7_64-1.

RIZZI'S LAB FOUNDED PROJECTS

2021-2024, FONDAZIONE REGIONALE per la RICERCA BIOMEDICA, Bando Giovani "Early Career Award": "Chondroitin sulfate proteoglycan-4, secreted by a binding imbalance between SP1 and NF-kB on CHST11 gene, triggers sympathetic cardiac denervation in Duchenne Muscular Dystrophy" – ID 1731651.

2020-2023, Ricerca Finalizzata Giovani, Ministero della Salute: "Engineered T cells (CAR-T) for the treatment of cardiac fibrosis in Duchenne Muscular Dystrophy" – ID SG-2019-12368961.

2018-2021, Roche: "Caratterizzazione degli effetti dell'HDACi Givinostat nel ripristino della funzionalità della sinapsi neurocardiacadel topo mdx, attraverso la modulazione dell'espressione di NGF nei fibroblasti interstiziali cardiaci" - ID CNR 0004002.

2020-2023, MINISTRY OF DEFENCE "GRENADE – "Generazione di tessuti individuo-specifici per il riparo di organi danneggiati" – prot. M_D GCOM REG2020 0009780 23-06-2020

2020-2023, CARIPLO FOUNDATION "The role of microRNA-34 in regulating autoimmune T cell response in the depressive syndrome"– prot. 2019-3392

2018-2020, LAZIOINNOVA SATISFY "Generazione di tessuti umani individuo-specifici per test di efficacia di nuovi farmaci" – prot. 85-2017-15095.

2017-2020, PARENT PROJECT, "Role of the HDAC inhibitor givinostat in cardiac remodelling in mdx mice.

2017-2018, ITALFARMACO, "ACE and HDAC inhibitors effects after myocardial infarction"**.**

2014-2017, Cluster ALISEI IRMI Project, ITALIAN MINISTRY OF EDUCATION, UNIVERSITY AND RESEARCH, "Creation of a multiregional infrastructure for the development of advanced therapies for organ and tissue regeneration" – prot. CTN01 00177 888744.

2013-2015, Lombardy Region, Framework agreement, RSPPTech "Research and development of products and technological platforms for the competitiveness of the lombard industry" – prot. 18095.

2011-2014, Lombardy Region, Superpig 2010, "Technological platform for using the pig model in biomedical (organ and tissue transplantation) and biotechnological (animal model) fields" – prot. 14388.

2008-2012, EC | FP7 | SP1 | NMP, "Angiogenesis-inducing Bioactive and Bioresponsive Scaffolds in Tissue Engineering". ID: 214402.