

Prof. Giacomo Frati – *Curriculum vitae*

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| Nome | Giacomo FRATI, MD |
| Luogo e data nascita | [REDACTED] |
| C.F., nazionalità | [REDACTED] |
| Lingue parlate | Italiano, Inglese (British Institute of Rome), Francese, Spagnolo |
| Indirizzo permanente | [REDACTED] |
| Indirizzo attuale | [REDACTED] |
| Attuale ruolo universitario | Professore Ordinario MED/50 Scienze tecniche mediche applicate, Fac Farmacia e Medicina, Univ Roma "Sapienza" - Dirig II livello Cardiochirurgia, Policlinico Umberto I, Roma |
| Phone-fax- | 39+06+4991.8295 |
| e-mail | e-mail giacomo.frati@uniroma1.it [REDACTED] |

A. Formazione

1992/93 Diploma di Maturità classica – Liceo Ginnasio Dante Alighieri, Roma

1993 Ammissione al Corso di Laurea in Medicina e Chirurgia (26° nella graduatoria per 625 posti) - Università degli Studi di Roma *La Sapienza*

1994-1997 Internato, Dipartimento di Medicina Sperimentale e Patologia, laboratorio di medicina molecolare, Università degli Studi di Roma *La Sapienza*

1996, 1997, 1998 *Summer student*, Kimmel Cancer Center, Laboratory on Molecular Medicine, Thomas Jefferson University, Philadelphia, PA, USA (*training on biotechnologies applied to the cardiovascular diseases*)

1997-1999 Internato, Istituto di Chirurgia del cuore e dei grossi vasi, Università degli Studi di Roma *La Sapienza*

1996-1998 Internato in emergenze medico-chirurgiche, DEA, Università di Roma *La Sapienza*

1998/99
[13.07.1999] Laurea in Medicina e Chirurgia con voti 110/110 e lode – (media voti 29.82/30), Università degli Studi di Roma *La Sapienza* (tesi sperimentale: Xenotrapianto cardiaco: modelli sperimentali e prospettive di applicazioni cliniche)

2000 Corso di Perfezionamento in Cardiochirurgia-*Cardiac Surgery 2000, science and practice Course*. National Heart & Lung Institute, Imperial College School of Medicine and Royal Brompton Hospital at Harefield, London (diretto da Prof. Sir Magdi H Yacoub), 8-12 maggio

1999/2000 -
2003/04
[nov 2004] Specialista in cardiocirurgia *cum laude* – 1999-2002: Scuola di Specializzazione in Cardiochirurgia - Policlinico Le Scotte, Univ degli Studi di Siena - 2003-2004: Facoltà di Medicina e Chirurgia, Università “Campus Biomedico”, Roma

B. Attività di ricerca in laboratori esteri, programmi di ricerca internazionali

1996, 1997,
1998 *Summer student*, Kimmel Cancer Center, Laboratory on Molecular Medicine, Thomas Jefferson University, Philadelphia, PA, USA (*training on biotechnologies applied to the cardiovascular diseases*) [Prof. Carlo M. Croce]

2003 nov- Ricercatore associato, Hopital Européen George Pompidou, Division of Cardiac Surgery and Lab

- 2004 Applied Medical Technologies, Cardiac Stem cells Program, Myoblast Autologous Grafting in Ischemic Cardiopathy [MAGIC], Univ Paris V- Pierre et Marie Curie [Prof. Philippe Menasché]
- 2003 jan-febr *Visiting scientist*, Cardiovascular Research Institute, New York Medical College, New York [Prof. Piero Anversa]
- 2005 Ricercatore associato, Hopital Broussais, Division of Cardiac Surgery and Lab Applied Medical Technologies-*Laboratoire de valvules et de protheses cardiac*, Cardiac Stem Cells Program, Univ Paris V-Pierre et Marie Curie [Prof. Alain Carpentier, Prof. Juan Carlos Chachques]
- 2005 Member of the *International advisory board* and coordinator for Italy, *Clinical Trial Protocol: The effect of intracoronary transplantation of bone marrow-derived stem cells over cardiac remodelling in the subacute period of the myocardial infarction*. Study Coordinator: Prof. Juan Carlos Chachques, Hopital Broussais, Paris.
- 2007 Member of the *International advisory board*, " *International Society for Cardiac Stem/Progenitor Cell Research*"
- 2009-2012 Membro del comitato scientifico "Onlus Futura Ricerca"
- 2009-2010 Direttore Scientifico "Onlus Futura Ricerca"
- 2011- Membro del Consiglio Scientifico della Fondazione Italiana Cuore e Circolazione-onlus
- 2011- Agreement Division of Cardiac Surgery Policlinico Umberto I°, Sapienza University of Rome- Division of Cardio-Thoracic Surgery, Washington University of St. Louis, Professor A.Patterson

C. Posizioni accademiche e professionali, Collaborazioni Scientifiche, Eventi formativi

- 1999-2003 Specializzando in *Cardiochirurgia-residency-specialty on cardiac surgery*, Facoltà di Medicina e Chirurgia, Università degli Studi di Siena
- 1999- Collaborazione di ricerca, Istituto di ricovero e cura a carattere scientifico Neuromed, Pozzilli-Isernia
- 2000 Esame di Stato per la professione di medico chirurgo – iscrizione Ordine dei Medici chirurghi di Roma n. M 50233 dal 4 settembre 2000 [ENPAM # 30023959E]
- 2002-2005 Ricercatore universitario MED/23 Chirurgia cardiaca, Dirigente di I° Livello, Università "Campus Bio-Medico", Roma
- 2003-2009 Membro del Consiglio direttivo SIRC (Società Italiana Ricerche Cardiovascolari)
- 2003 nov- Ricercatore associato– 2003-: Cardiac stem cells program vs Myoblast Autologous Grafting in Ischemic Cardiopathy [MAGIC] study, Hopital Europeén Georges Pompidou, Division of Cardiac Surgery, Paris (Prof. Philippe Menasché); 2005- : Cardiac stem cells program: bone marrow-derived stem cells over cardiac remodelling in the subacute period of the myocardial infarction, Hopital Broussais, Divison of Cardiac Surgery, Paris (Prof. Alain Carpentier, Prof. Juan Carlos Chachques)
- 2005- Professore associato MED/50 Scienze tecniche mediche applicate , Dirigente di I° Livello, I° Fac. di Medicina e Chirurgia, Univ. Roma *La Sapienza*, Dipartimento Cuore e Grossi Vasi "A.Reale", Polo Pontino-ICOT
- 2007-2010 Collaborazione di ricerca, Cardiocentro Ticino, Lugano (CH)
- 2009-2012 Membro del Comitato Scientifico "Onlus Futura Ricerca"

- 2009- Attività di collaborazione con la “Onlus A.N.G.E.L.S”
- 2009- Professore associato confermato - Afferenza presso il Dipartimento di Scienze e biotecnologie medico-chirurgiche Università "Sapienza", Polo Pontino, Latina
- 2007- Collaborazione di ricerca, "Laboratoire de Recherche Biochirurgicale de l'Université Paris Descartes, Centre de recherche de l'Hôpital Européen Georges Pompidou" Prof. A.Carpentier, Prof. JC. Chachques
- 2011- Professore Ordinario MED 50 - Afferenza presso il Dipartimento di Scienze e biotecnologie medico-chirurgiche Università "Sapienza", Polo Pontino, Latina
- 2009-2010 Direttore Scientifico “Onlus Futura Ricerca”
- 2011- Membro del Consiglio Scientifico della Fondazione Italiana Cuore e Circolazione-onlus
- 2011- Responsabile Cell-Factory Università Sapienza, Polo Pontino e coordinatore del programma "Medicina Rigenerativa" Università Sapienza, Polo Pontino
- 2011- Collaborazione di ricerca, Washington University in St. Louis, Thoracic Immunobiology Laboratory Prof. Andrew Gelman, Ph.D.
- 2012- Collaborazione di ricerca, Johns Hopkins University, Baltimore, Cardiovascular Laboratory, Gordon Tomaselli, Marie Roselle Abraham
- 2012- Collaborazione di ricerca, Università Cattolica del Sacro Cuore, Dip. Medicina Cardiovascolare, Prof. M .Massetti
- 2012- Collaborazione di ricerca, Ospedale Pediatrico Bambin Gesù, Dott. Antonio Amodeo
- 2012- Collaborazione di ricerca, Università degli Studi di Torino, Dipartimento di Anestesia e Rianimazione, Prof. M.V.Ranieri e Dipartimento di Cardiocirurgia Universitaria, Prof. M. Rinaldi
- 2012- Membro del Consiglio Scientifico del SBGLab (Systems Biology Group)
- 2013- Abilitazione scientifica nazionale alle funzioni di professore di prima fascia nel settore concorsuale 06/E1 - Chirurgia Cardio-Toraco-Vascolare (ex MED 23)
- 2013- Corso di: Alta Formazione in Economia e Management in Ospedale (Art. 3 comma 9, D.M. 22/10/2004 n. 270 e del Regolamento Didattico d'Ateneo) corrispondente al requisito di "Formazione Manageriale" prescritto per l'accesso al II livello dirigenziale (categoria dei medici) dall'Art. 5, comma 1, lettera d del D.P.R. 10/12/1997 N°484
- 2014- Investigator nel Trial Clinico RECARDIO (RECARDIO : *PHASE I TRIAL OF ENDOCAVITARY INJECTION OF BONE-MARROW-DERIVED CD133 + CELLS IN ISCHEMIC REFRACTORY CARDIOMYOPATHY*) [ClinicalTrials.gov N°: NCT02059681](https://clinicaltrials.gov/ct2/show/study/NCT02059681)
- 2015- Collaborazione di Ricerca, University College Dublin, Professor Paul McLoughlin
- 2015- Collaborazione di Ricerca, Virginia Commonwealth University in Richmond, Prof. A. Abbate
- 2016- Investigator nel Trial Clinico EU-Care (A European study on effectiveness and sustainability of current Cardiac Rehabilitation programmes in the Elderly)- Grant Agreement number: 634439 — EU-CaRE — H2020-PHC-2014-2015/H2020
- 2016 Corso obbligatorio di Alta Formazione : La Gestione del Rischio Clinico in Sala Operatoria - Evento formativo 535-133400 eseguito in data 23/05/2016

- 2016 Corso obbligatorio di Alta Formazione : La Gestione del Rischio Clinico - Evento formativo 535-152210 eseguito in data 21/06/2016
- 2016- Commissario della commissione nazionale per il conferimento dell'Abilitazione Scientifica Nazionale alle funzioni di professore universitario di prima e seconda fascia nel settore concorsuale 06/N2-SCIENZE DELL'ESERCIZIO FISICO E DELLO SPORT (d.d. 1532 , d.d. n. 1531,d.d. 2537, d.d. 3431 del 2016)
- 2017- Vice Presidente ALARICO Network

D. Attività didattica

- 1996 Tutore-dimostratore del Corso di Medicina di Emergenza-*Emergency Medicine Course Tutor*, Corso di Laurea in Medicina e Chirurgia, Facoltà di Medicina e Chirurgia, Università degli Studi di Roma *La Sapienza* (Direttore del Corso Prof. G. Bertazzoni)
- 2002-05 Docente nel Corso integrato di Malattie dell'apparato cardiovascolare del Corso di Laurea in Medicina e Chirurgia e nei Corsi integrati delle Lauree per le Professioni sanitarie, Facoltà di Medicina e Chirurgia, Università Campus Bio-Medico, Roma
- 2005- Professore Associato-Ordinario MED/50 Scienze tecniche mediche applicate, I[^] Fac. di Medicina e Chirurgia, Univ. Roma *La Sapienza*, Polo Pontino, corso integrato Malattie dell'apparato cardiovascolare (Patologia Integrata I)
- 2005- Professore Associato-Ordinario MED/50 Scienze tecniche mediche applicate, I[^] Fac. di Medicina e Chirurgia, Univ. Roma *La Sapienza*, Corso integrato specialistico per tecnici di fisiopatologia cardiocircolatoria I /III anno (Coordinatore di CI 2011-2017)
- 2006- Professore Associato-Ordinario MED/50 Scienze tecniche mediche applicate, I[^] Fac. di Medicina e Chirurgia, Univ. Roma *La Sapienza*, Scuola di Specializzazione in Cardiochirurgia
- 2006- Professore Associato-Ordinario MED/50 Scienze tecniche mediche applicate, I[^] Fac. di Medicina e Chirurgia, Univ. Roma *La Sapienza*, Polo Pontino, corso integrato Emergenze Medico-Chirurgiche
- 2006- Professore Associato-Ordinario MED/50 Scienze tecniche mediche applicate, I[^] Fac. di Medicina e Chirurgia, Univ. Roma *La Sapienza*, Scienze delle Professioni Sanitarie Tecniche Assistenziali
- 2007- Professore Associato-Ordinario MED/50 Scienze tecniche mediche applicate, I[^] Fac. di Medicina e Chirurgia, Univ. Roma *La Sapienza*, Polo Pontino, Corso integrato specialistico per fisioterapisti
- 2009 Professore Associato-Ordinario MED/50 Scienze tecniche mediche applicate, I[^] Fac. di Medicina e Chirurgia, Univ. Roma *La Sapienza*, Polo Pontino, Corso integrato Metodologia VII
- 2010- Professore Associato-Ordinario MED/50 Scienze tecniche mediche applicate, I[^] Fac. di Medicina e Chirurgia, Univ. Roma *La Sapienza*, Corso di Laurea Magistrale in Biotecnologie Mediche - Indirizzo Bioingegneristico Bioingegneria cellulare, tissutale e d'organo
- 2011-2016 Ruolo di coordinatore corso integrato di Patologia Medico-Chirurgica Integrata I,CLE
- 2011- Professore Ordinario MED/50 Scienze tecniche mediche applicate, I[^] Fac. di Medicina e Chirurgia, Univ. Roma *La Sapienza*, Policlinico Umberto I, corso integrato Emergenze Medico-Chirurgiche, CLD
- 2012- Professore Ordinario MED/50 Scienze tecniche mediche applicate, I[^] Fac. di Medicina e Chirurgia, Univ. Roma *La Sapienza*, Policlinico Umberto I, corso integrato Patologia Integrata I, CLB
- 2012- Professore Ordinario MED/50 Scienze tecniche mediche applicate, I[^] Fac. di Medicina e Chirurgia, Univ. Roma *La Sapienza*, Policlinico Umberto I, Scuola di Specializzazione Chirurgia Toracica

- 2012- Professore Ordinario MED/50 Scienze tecniche mediche applicate, I^a Fac. di Medicina e Chirurgia, Univ. Roma *La Sapienza*, Policlinico Umberto I, Scuola di Specializzazione Cardiologia
- 2013- Rulo di coordinatore del C.I. di Tecniche avanzate di perfusione ed assistenza meccanica
- 2015- Vice Coordinatore della Scuola di Specializzazione in Cardiocirurgia, Università Sapienza di Roma
- 2017- Componente del Collegio Dottorato di Ricerca, Università degli Studi di ROMA "La Sapienza"
Titolo: "FISIOPATOLOGIA ED IMAGING CARDIO-TORACO-VASCOLARE", Ciclo: 33

D.b. Studenti laureati/specializzati/dottorati/borse-assegni di ricerca: 35 lauree (19 Corso di laurea in Medicina e Chirurgia, 8 Corso integrato specialistico per tecnici di fisiopatologia cardiocircolatoria, 3 Scienze delle Professioni Sanitarie Tecniche Assistenziali, 5 Corso di Laurea Magistrale in Biotecnologie Mediche - Indirizzo Bioingegneristico Bioingegneria cellulare, tissutale e d'organo), 6 Specializzazioni in Cardiocirurgia, 5 Dottorati Fisiopatologia Sperimentale, 3 Dottorati di ricerca in Fisiopatologia chirurgica angio-cardio-toracica ed imaging, 3 Dottorati in Medicina Molecolare, 36 Borse di Studio-Assegni di ricerca Finalizzati erogati da finanziamenti in veste di P.I./Responsabile scientifico

E. Riconoscimenti, premi, brevetti

- 2000 Premio di laurea "*Raffaele Bastianelli*"- "*Raffaele Bastianelli*", *Università di Roma La Sapienza*
- 2001 Co-autore dell'abstract vincitore congresso SIC-Società Italiana di Cardiologia, 8-12 Dicembre 2001
- 2003 Brevetto/*Patent Italy*-RM2003A000376 31.07.2003 Giacomello A, Messina E, Battaglia M, **Frati G**, Procedimento per l'isolamento e l'espansione di cellule staminali cardiache da biopsia/*Method for the isolation and expansion of cardiac stem cells from biopsy*
Owener: University of Rome "la Sapienza"
Teritorial covering: Italy, Europe, U.S.A.(US 2012/0093879A1), Canada, China
Application for patent n.RM2003A000376, 31/7/2003. Method for the isolation and expansion of cardiac stem cells from biopsy. International patent number: WO2005012510, 2005-02-10
Method for the isolation and expansion of cardiac stem cells from biopsy
Italy-RM2003A000376, 31.07.2003,
Giacomello A, Messina E, Battaglia M, **Frati G**

Numero di pubblicazione EP1649012A1
Data di pubblicazione 26 apr 2006
Data di registrazione 29 lug 2004
Data di priorità 31 lug 2003
Pubblicato anche come
EP2465921A2
US20070020758
US20120020935
US20120045421
US20120093879
Universita' Degli Studi Di Roma "La Sapienza"
Classificazione internazionale
A61K 35/12
C12N 5/077
Classificazione Europea
C12N 5/06B6C

Applicazione clinica nel Trial Clinico : CARDIOSphere-Derived autologous Stem Cells to Reverse ventricular dysfunction (CADUCEUS), **ClinicalTrials.gov Identifier:** NCT00893360

Applicazione clinica nel Trial Clinico: Allogeneic Heart Stem Cells to Achieve Myocardial Regeneration (ALLSTAR), **ClinicalTrials.gov Identifier: NCT01458405**

Applicazione Clinica nel Trial Clinico : HOPE-Duchenne (Halt cardiomyopathy progression in Duchenne) (HOPE) **ClinicalTrials.gov Identifier: NCT02485938**

- 2004 Co-autore dell'abstract Vincitore Congresso SIRC-Società Italiana di Ricerche Cardio-vascolari, 23-25 Settembre 2004
- 2008 Premio Migliore Comunicazione Poster, XXIV Congresso Società Italiana di Chirurgia Cardiaca SICCH, Roma 8/11 Novembre 2008
- 2009 **Giacomo Frati** "Sapienza University", Vincitore premio Europeo "*Atomium Culture 2008/2009*"
- Atomium Culture is a European Non-Profit Organisation that cooperates with the most authoritative Universities and the most important newspapers in Europe (Il Sole 24 Ore in Italy) in a common project of selection, exchange and dissemination of the best and most innovative European research. Atomium Culture aim is to credit the most brilliant young researchers in Europe (under 40) and to raise social awareness about the importance of the work done within the European Universities and the impact it has on everyday life. The fields treated by Atomium Culture are:
- Art; - Geography; - Medicine;
 - Biology; - History; - Philosophy;
 - Chemistry; - Law; - Physics;
 - Economics; - Literature; - Political Science;
 - Engineering; - Mathematics; - Sociology.
- 2010 Riconoscimento della "Federation of the European Academies of Medicine" come miglior ricercatore under 40
- 2010 Premio della Romanian Academy of Medical Sciences in occasione della Feam Spring Conference, Bucharest, March 2010
- 2011 Brevetto/Patent- US 20120021019 A1
Cardiac stem cell populations for repair of cardiac tissue
Applicants: Università degli studi di Roma "Sapienza" [it/it]; (it).
Inventors: Giacomello A., Messina E., Battaglia M., **Frati G.**
Numero di pubblicazione US20120021019 A1
Numero domanda US 13/245,787
Data di pubblicazione 26 gen 2012
Data di registrazione 26 set 2011
- 2011 Premio Sapienza Ricerca 2011, Researcher Under 40
- 2012 Premio Grant educativale Giovani Ricercatori (Malesci) 73° CONGRESSO NAZIONALE della Società Italiana di Cardiologia Roma, 15 – 17 dicembre 2012
- 2013 Premio Miglior Comunicazione Poster, Europrevent, Rome, 19-21 Aprile 2013
- 2013 Brevetto/Patent-Italy-RM2011A000500-23.09.2011-IT- Frati L., **Frati G.**, Nuti M., Pierelli L.
Platelet lysate, uses and method for the preparation thereof-Lysat de plaquettes, ses utilisations et son procédé de préparation

Applicants: Università degli studi di Roma "Sapienza" [it/it]; (it). Futura Stem Cells sa [ch/ch]; (ch)
Pub. No.: WO/2013/042095
Priority Application Information and Date: ITRM0500, 23 Sep 2011
International Application No.: PCT/IB2012/055062
International Filing Date: 24.09.2012
Publication Date: 28.03.2013
IPC: A01N 1/02 (2006.01), A61K 35/14 (2006.01), A61L 2/00 (2006.01)

- 2013 Brevetto/Patent Patent Number(s): WO2013042095-A1
Inventor(s): **Frati G**, Frati L, Nuti M, Pierelli L
Preparing platelet lysate essentially free of contaminating agents used as coadjuvant for isolating e.g. stem cells, by exposing fraction to photochemical agent and UV rays, subjecting fraction to freezing, and centrifuging fraction
Patent Assignee Name(s) and Code(s): UNIV ROMA LA SAPIENZA (UYRO-Non-standard)
FUTURA STEM CELLS SA (FUTU-Non-standard)
Derwent Primary Accession Number: 2013-E32187 [26]
International Patent Classification: A01N-001/02; A61K-035/14; A61L-002/00
Application Details: WO2013042095-A1 WOIB055062 24 Sep 2012
Priority Application Information and Date: ITRM0500 23 Sep 2011
- 2015 Richiesta di brevetto/Patent Pending
ESTREMI DEL DEPOSITO
N. DEPOSITO M15227J3845 (n. pratica)
DATA 26/02/2015
Inventors: Giuseppe Biondi-Zoccai, **Giacomo Frati**, Antonino Marullo, Mariangela Peruzzi, Massimo Mancone, Arturo Giordano
Minimally invasive self-adjusting right atrial catheter and method to prevent contrast-induced nephropathy- Catetere minimamente invasivo e auto-assistente per l'atrio destro e metodo per la prevenzione della nefropatia da mezzo di contrasto
- 2015 Richiesta di brevetto/Patent Pending
ESTREMI DEL DEPOSITO
N. DEPOSITO M15415M0502 (n. pratica)
DATA 15/04/2015
Inventors: Mario Fulvio Gaudino, Massimo Massetti, Umberto Benedetto, Giuseppe Biondi Zoccai, **Giacomo Frati**
De-Air Metodo e dispositivo per il de-airing del ventricolo sinistro in corso di interventi cardiocirurgici
- 2016 Richiesta di brevetto/Patent Pending
ESTREMI DEL DEPOSITO
N. DEPOSITO 102016000120839 (n. pratica)
DATA 29/11/2016
Inventors: Sebastiano Sciarretta, Valentina Valenti, Elena Cavarretta, Antonio GM Marullo, **Giacomo Frati**
Soluzione Cardioplegica con Attivatori dell'Autofagia per l'arresto Diastolico del Cuore in Corso di Interventi Cardiocirurgici
- 2017 Richiesta di brevetto/Patent Pending
Inventors: **Giacomo Frati**, Patrizio Sartini, Antonino Marullo, Giuseppe Biondi-Zoccai
Dike cannula (Antegrade cardioplegia cannulae designed to ensure optimal Cardioplegic distribution through the aortic root in aortic incompetent valves)
- 2017 TIS (Top Italian Scientists) **Giacomo Frati**: Biomedical Sciences, 86esima posizione pari merito, 875esima posizione in assoluto

F. Società scientifiche- *scientific societies' memberships and affiliations*

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|---------|---|
| 1997- | New York Academy of Science, 2 East 63 rd Street, New York, NY 10021 - <i>Member</i> ID No. 476781 |
| 2002- | Società Italiana di Chirurgia Cardiaca |
| 2003- | American Association for the Advancement on Science – <i>Member</i> ID No. 16720598 SCI |
| 2003- | Società Italiana di Cardiologia – <i>Member</i> ID No. 5761 |
| 2003- | Società Italiana di Ricerche Cardiovascolari [Consiglio direttivo- <i>Board</i>] |
| 2006- | Cardiothoracic System Network (CTS Network) |
| 2009- | Fondazione Europea Dragan-Associazione Fondazione Roma Chirurgia |
| 2009-12 | Direttore Scientifico “Onlus Futura Ricerca” |
| 2011- | Membro del Consiglio Scientifico della Fondazione Italiana Cuore e Circolazione-onlus |
| 2012- | Membro del Consiglio Scientifico del SBGLab (Systems Biology Group) |
| 2013- | Società Italiana di Anestesia e Terapia Intensiva Cardiotoracica e Vascolare (ITACTA) |

G. EDITORIAL BOARD - Revisore Per Riviste

- 1) *PLOS ONE* Editorial Board-Academic editor
- 2) SCIENTIFIC REPORTS-NATURE Editorial Board-Academic editor
- 3) BIOMED RESEARCH INTERNATIONAL Editorial Board-Academic Editor
- 4) LEAD GUEST EDITOR Special Issues in BioMed Research International "**Translational Regenerative Medicine for Cardiovascular Diseases**"
- 5) JOURNAL OF CARDIOLOGY AND THERAPY Editorial Board-Academic Editor
- 6) WEBMED CENTRAL- Editorial Board-Academic editor
- 7) EDORIUM JOURNAL OF CARDIOLOGY- Editorial Board-Academic editor
- 8) JOURNAL OF ANAESTHESIOLOGY AND CRITICAL CARE MEDICINE- Editorial Board-Academic editor
- 9) LEAD GUEST EDITOR Special Issues in BioMed Research International " **Bridging the gap between translational and outcome research in cardiovascular disease**"
- 10) INTERNATIONAL ARCHIVES OF MEDICINE-Translational Cardiology Section- Editorial Board-Academic editor
- 11) BMC Cardiovascular Disorders Editorial Board-Academic editor

Circa 30 Papers/anno gestiti in veste di Academic Editor

ATTIVITÀ DI REVISORE: Scientific Reports-Nature, Nature Medicine, JACC, Cardiovascular Research, Circulation, Circ. Res., Journal of Cardiothoracic Surgery, Chest, International Journal of Cardiology, Journal of Molecular and Cellular Cardiology, Annals of Thoracic Surgery, Journal of Cellular and Molecular Medicine, Plos One, Stem cell research and therapy, Stem Cells Translational Medicine, Biomed Research International, Mediators of Inflammation, Oxidative medicine and Cellular Longevity, Journal of Biological Regulators & Homeostatic Agents, Diabetes and Vascular Disease Research, European Surgical Research-Clinical and Experimental Surgery, Journal of Cardiovascular Diseases & Diagnosis, Journal of Cardiology and Therapy, Journal of Anaesthesiology and Critical Care Medicine, Openheart-BMJ

Circa 30 Revisioni/anno in veste di revisore

H. Pubblicazioni [*Impact Factor=IF*]

L'attività scientifica riguarda tecnologie e biotecnologie applicabili alla medicina ed in particolare alle malattie cardiovascolari, nel presupposto che la professione medica e le professioni sanitarie ausiliarie ed integrative di quelle medico-chirurgiche (cardiologo, chirurgo cardiovascolare, chirurgo toracico, biologo molecolare, bioingegnere) divengano "strutturali" in una équipe medica diagnostico-terapeutica multidisciplinare.

I grandi ambiti nei quali si è sviluppata l'attività di ricerca riguardano:

- a) lo studio di fattori biologici, cellulari, molecolari, genetici connessi con condizioni patologiche cardiovascolari;
- b) lo studio di fattori biologici cellulari e molecolari connessi con condizioni patologiche cardiovascolari, polmonari e con biotecnologie cellulari-TE (tissue engineering) utilizzabili a fini terapeutici. Lo scopo è quello di traslare in ambito clinico metodologie bio-tecnologiche che partendo da studi in vitro possano essere utilizzate in ambito clinico;
- c) lo studio di tecnologie e metodologie medico-chirurgiche-terapeutiche applicabili a patologie cardiovascolari/cardiochirurgiche, polmonari e a tutte quelle patologie ove ci sia la possibilità di utilizzazione di nuove metodologie chirurgiche e biotecnologiche (cellule staminali cardiache in vari modelli animali; isolamento ed espansione di cellule staminali adulte umane, murine, suine; xenotrapianto da animali transgenici per inibitori della cascata del complemento; cellule staminali per l'attenuazione dell'ALI e per la rigenerazione polmonare; ECMO; VAD, cellule staminali per la rigenerazione corneale; metodiche di tissue engineering applicate a molteplici patologie acute e croniche);
- d) l'utilizzo di revisioni sistematiche come strumento di ricerca con l'obiettivo di riassumere dati provenienti da strumenti di ricerca primari, in particolare da studi clinici, con un metodo esplicito e trasparente per identificare, valutare e riassumere i risultati di singoli studi (detti studi primari) sugli effetti di un intervento sanitario (revisioni sistematiche, meta-analisi, network meta-analisi);
- e) l'utilizzo di Survey, (con creazione di una piattaforma informatica dedicata: www.cardiogroup.org) al fine di valutare le proporzioni di diverse caratteristiche di una popolazione a partire dallo studio di una parte della popolazione, chiamata campione;
- f) aspetti etici e medico legali connessi alle patologie cardiovascolari, alle principali metodologie biotecnologiche, alla gestione dei pazienti con cessazione irreversibile delle funzioni encefaliche, alle malattie terminali.

| Pubblicazioni indexate su Pub-Med/Med-line | | | |
|---|--|---|----------------------|
| No. | Parole chiave/key words | Rivista/journal [*Med-line -^EMBASE indexed] | Cumulative IF |
| | General surgery, colorectal cancer | Archiv Surgery | 2.584 |
| | Molecular medicine, biotechnology, hypertension, pathophysiology, circulation; - myocytes, cell damage, caspase3, apoptosis; - endothelial cells, myocytes-induced transdifferen-tiation, myocardium regeneration; -TNF- α signal transduction, neonatal cardiac myocytes; - cholesterol high level, apoE knockout mice | Am J Physiol Heart Circul, J Cell Biochem, Proc National Acad Sci, Circulation, FASEB J, Journal of Cell Molec Medicine, IJBRHA, Methods Mol Biol, Cell Death Dis, Adv Exp Med Biol, Stem Cells Int | ca. 116 |
| | Biotechnological cellular and molecular findings and procedures applied to medicine (stem cells/biological factors and biomolecules/virus detection related to cardiovascular diseases): - atherosclerosis risk factors; platelets, Vit. E; - virus detection in myocarditis - hypertension, NO, ROS, free radicals, angiotensin II, EGF - mouse/human cardiac stem cells, isolation, expansion -tissue engineering -lung trasplantation and regeneration -wound healing | The NEJM, Arterioscl Thromb, Circulation, Circulation Res, JACC, JACC Cardiovasc Interv, Diabetes, Haematologica, Hypertension, J Hypertension, Tissue engineering, Current Stem Cell Research & Therapy, Human Immunology, Biomaterials, Cell Tissue Bank, Stem Cell Reviews and Reports, Cytotechnology, Can J Physiol Pharmacol, Journal of Cardiovascular Medicine, Mediators of Inflammation,Oxidative medicine and Cellular Longevity, J Am Heart Assoc, Stem Cells Dev, Biomed Res Int, Clinical Science, Cell Transplantation, J Nucl Cardiol, Cell Reports, Cardiovasc Diagn Ther, Frontiers in Bioscience, Thromb Haemost. Chest, Mech Ageing Dev, Ann N Y Acad Sci., High Blood Press Cardiovasc Prev , Stem Cells Transl Med, Scientific Reports-Nature, Pharmacol Res | ca. 433 |
| | Technological/biotechnological procedures applied to medicine (cardiology, cardio-vascular surgery, thoracic): - arterial myocardial revascularization - mitral valve repair/reconstruction, - abdominal aortic autografting, surgical treatment of abdominal aortic aneurysms; - anomalous origin of the right pulmonary artery: repair; - myoblast transplantation after heart infarct -[human/mouse cardiac stem cells, isolation, expansion] - heart xenotransplantation -Imaging -ECMO | Ann Thorac Surgery, Can J Cardiol, Cardiovasc Res, Cardiovascular Surgery, Circulation Res, Am J Cardiol, J Thorac Dis, Cor Europaeum, Echocardiography, Eur J Cardio-thoracic Surgery, Heart Vessels, J Cardiovasc Surgery, Am Heart J J Heart Valve Dis, J Thoracic and Cardiovascular Surgery, International Journal of Cardiology, Texas Heart Inst J, Transplant Proc, Journal of Cell Molec Medicine, J Endovasc Ther, Intensive Care Medicine, Crit Care, Crit Care Resusc, Eur Heart J Cardiovasc Imaging, World J Surg, Journal of Cardiovascular Diseases & Diagnosis, J Interv Cardiol, Clin Res Card, International Journal of Case Reports in Medicine,Angiology, Int J Surg Case Rep, Int J Surg, J Cardiovasc Med , J Cardiol, J Cardiothorac Vasc, Transplantation, Progress in Cardiovascular Diseases, Ann Vasc Surg, Curr Atheroscler Rep, Am J Transplantation, JACC Cardiovasc Imaging, Am J Hypertens | ca. 361 |
| | Ethics/Publics/Intensive care medicine: Xenotrasplantation, Ethics, Stressors, Survey | Transplant Proc, Intensive Care Medicine, J Med Ethics, Stem cell research and therapy, Thrita, PLoS One | ca 12 |

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| Pub-Med Indexed papers, total: 228 | | Total cumulative I.F. | ca. 924 |
| <i>h</i>-index total papers | | Total cumulative <i>h</i>-index | 41 (GS) 40 (PP) 35 (SC) 32 (ISI) |
| h-c | | | 32 |
| Cites/year: | | | 423 |
| i10-index | | | 120 |
| g-index | | | 75 |
| Cites/paper: | | | 33 |
| Mean Impact Factor/paper | | | 4 |
| Citations Index | | Total Citations | 7624 (GS) 7605 (PP) 5152 (SC) 4307 (ISI) |
| Link Principali Motori di ricerca Bibliografici-Scientometrici Autore: Giacomo Frati | | | |
| <p>Link to Pubmed: http://www.ncbi.nlm.nih.gov/pubmed/?term=frati+g</p> <p>Link to Scholar: http://scholar.google.it/citations?user=dB3TCO4AAAAJ&hl=it</p> <p>Link to Scopus: http://www.scopus.com/cto2/main.uri?ctoId=CTODS_661046315&authors=7003602863&origin=AuthorNamesList http://www.scopus.com/authid/detail.uri?authorId=7003602863</p> <p>Link to ISI: http://apps.webofknowledge.com/CitationReport.do?product=UA&search_mode=CitationReport&SID=V1M28QXR31BVgjb8Bbr&page=1&cr_pqid=1&viewType=summary</p> <p>Link to ORCID: http://orcid.org/0000-0003-2703-3761</p> <p>Researcher ID : K-5072-2016</p> | | | |

| Lavori scientifici da Pub-Med/Med-line-NIH – I.F.= <i>impact factor</i> ; ----; no Pub-Med I.F. | | | | |
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| 230 | Cavarretta E, Frati G | microRNAs in coronary heart disease: ready to enter the clinical arena? | Biomed Res Int. 2016;2016:2150763 | 2.134 |
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| 233 | Straface E, Frati G , Gambardella, Pagano F, Angelini F, Ascione B, Vona, De Falco E, Cavarretta E, La Russa R, Malorni W, Chimenti I | Sex differences of human cardiac progenitor cells in the biological response to TNF- α treatment | Stem Cells International In Press | 3.687 |
| 234 | Schirone L, Forte M, Palmerio S, Yee D, Nocella C, Angelini F, Pagano F, Schiavon S, Bordin A, Carrizzo A, Vecchione C, Valenti V, Chimenti I, Falco E, Sciarretta S, Frati G | A Review of the Molecular Mechanisms Underlying the Development and Progression of Cardiac Remodeling | Oxid Med Cell Longev. 2017;2017:3920195. doi: 10.1155/2017/3920195. Epub 2017 Jul 2 | 4.492 |
| 235 | Forte M, Nocella C, De Falco E, Palmerio S, Schirone L, Valenti V, Frati G , Carnevale R, Sciarretta S | The Pathophysiological Role of NOX2 in Hypertension and Organ Damage | High Blood Press Cardiovasc Prev. 2016 Dec 3 | 1.175 |
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| 239 | Cavarretta E, Marullo AGM, Sciarretta S, Benedetto U, Greco E, Rover L, Peruzzi M, Biondi-Zoccai G, Frati G | A network meta-analysis comparing ventricular assist devices in adult patients with heart failure | Am J Cardiol Under Revision | 3.398 |
| 240 | Pagano F, Angelini F, Castaldo C, Picchio V, Messina E, Sciarretta S, Maiello C, Biondi-Zoccai G, Frati G , Meglio FD, Nurzynska D, Chimenti I | Normal versus Pathological Cardiac Fibroblast-Derived Extracellular Matrix Differentially Modulates Cardiosphere-Derived Cell Paracrine Properties and Commitment | Stem Cells Int. 2017;2017:7396462. doi: 10.1155/2017/7396462. Epub 2017 Jun 27 | 3.687 |
| 241 | Carmine Izzo, Antonia Alfano, Nicola Virtuoso, connie calabrese, Eros De Simone, Sebastiano Sciarretta, Giacomo Frati , Antonio Damato, Mariateresa Ambrosio, Francesco De Caro, Paolo Remondelli, Carmine Vecchione, Albino Carrizzo | The Impact of Aging on Cardio and Cerebrovascular Diseases | Oxid Med Cell Longev. Under Revision | 4.492 |
| 242 | Nudi F, Schilllaci O, Di Belardino N, Versaci F, Tomai F, Pinto A, Neri G, Procaccini E, Nudi A, Frati G , Biondi-Zoccai G | Temporal Trends in the Prevalence, Severity, and Localization of Myocardial Ischemia and Necrosis at Myocardial Perfusion Imaging After Myocardial Infarction | Am J Cardiol. 2017 Aug 24. pii: S0002-9149(17)31171-2. doi: 10.1016/j.amjcard.2017.07.007 | 3.398 |

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| 243 | Sciarretta S, Yee D, Nagarajan N , Dominic P. Del Re, Shirakabe A, Boppana S, Valenti V, Vecchione C, Rubattu S, Volpe M, Forte M, Frati G , Peiyong Zhai, Sadoshima J | Trehalose, a Natural Dissacharide, Reduces Cardiac Remodeling After Myocardial Infarction Through Autophagy Activation | JACC Minor Revision | 19.896 |
| 244 | De Falco E, Frati G , Chimenti I, Sciarretta S, Rizzi R | The histone deacetylase inhibitor Givinostat (ITF2357) attenuates cardiac failure by reducing fibrosis | Cardiovasc Res. Under Revision | 5.878 |
| 245 | Balistreri C, Crapanzano F, Pisano C, Allegra A, Martinelli O, Tonelli E, Lio D, Ruvolo G, Schirone L, Forte M, Cavarretta E, Marullo A, Mazzesi G, Sciarretta S, Frati G | Interplay among Notch signalling, EPC and inflammation in patients with bicuspid aortic valve with and without thoracic aortic aneurysm | The Journal of Thoracic and Cardiovascular Surgery Under Revision | 4.446 |
| 246 | Carnevale R, Nocella C, Frati G , Pignatelli P, Tanzilli G, Irace L, Martinelli O, Violi F | Localization of escherichia coli lipopolysaccharide into human atherosclerotic plaque | JCI Under Revision | 12.886 |
| 247 | Laura Iop, Eleonora Dal Sasso, Leonardo Schirone, Maurizio Forte, Mariangela Peruzzi, Elena Cavarretta, Silvia Palmerio, Gino Gerosa, Sebastiano Sciarretta and Giacomo Frati | The light and shadows of senescence and inflammation in cardiovascular pathology and regenerative medicine | Mediators Inflamm. In Press | 3.232 |
| 248 | Balistreri C, Buffa S, Allegra A, Ruvolo G, Colonna-Romano G , Giuseppe Mazzesi G, Frati G Sciarretta S | Reduced blood levels of immune T and B subsets in bicuspid aortic valve disease: typical signatures related to alterations in the entire Notch pathway? | In Preparation | — |
| 249 | Simona Mastrangeli, Roberto Carnevale, Elena Cavarretta, Sebastiano Sciarretta, Mariangela Peruzzi, Antonino G. M. Marullo, Elena De Falco, Isotta Chimenti, Valentina Valenti, Christopher Bullen, Leonardo Roever, Giacomo Frati , Giuseppe Biondi-Zoccai | Predictors of oxidative stress and vascular function in an experimental study of tobacco versus electronic cigarettes: a post-hoc analysis of the SUR-VAPES 1 (Sapienza University of Rome-Vascular Assessment of Proatherosclerotic Effects of Smoking) Study | In preparation | — |

I. Principali Linee di ricerca

I1. Meccanismi cellulari e molecolari correlati con la progressione dell'ipertrofia cardiaca

I2. Meccanismi cellulari e molecolari correlati con fenomeni di ripopolazione/rigenerazione cellulare vascolare o muscolare cardiaca post-infarto

I3. Rivascolarizzazione coronarica: dai fattori prognostico-molecolari alla valutazione delle metodologie cliniche-interventistiche-chirurgiche

I4. Metodologie, tecniche e tecnologie applicate alla chirurgia cardiaca

I5. Xenotrapianto cardiaco

I6. Patogenesi dei fenomeni aterosclerotici e terapie antiossidanti in patologia cardiovascolare

I7. Rigenerazione cardiaca mediante l'utilizzo di cellule staminali in associazione all'ingegneria tissutale

I8. Terapia genica basata su sistemi cellulari e ruolo della Nox2 nel danno polmonare da ischemia-riperfusionazione acuta: nuovi strumenti per la medicina rigenerativa (EVLPE)

I9. Metodologie diagnostiche applicate alle principali malattie cardiovascolari ed alla medicina rigenerativa (Ecocardiografia 3D, MRI, TC, FMT, Bioluminescenza, Fotoacustica)

I10. Trapianti di cuore e di polmone

I11. Medicina rigenerativa e tissue engineering per la customizzazione di Valvole Cardiache Autologhe

I12. Medicina rigenerativa e tissue engineering per la customizzazione di tessuto corneale autologo

I13. Metodologie, tecniche e revisione critica in ambito cardiocirurgico e cardiologico interventistico (Meta-analisi, Network Meta-analisi)

I14. Meccanismi cellulari e molecolari correlati ad Autofagia e Stress Ossidativo nelle principali cardiomiopatie (ischemica, sovraccarico, valvolare, invecchiamento)

I15. Aspetti etici e medico legali

L. Ricerche finanziate/In corso di finanziamento con Ruolo di Coordinatore Scientifico/Responsabile di Unità di Ricerca per Progetti di Ricerca ammessi al finanziamento sulla base di bandi competitivi che prevedano la revisione tra pari

1) 2003- PROGRAMMI DI RICERCA SCIENTIFICA DI RILEVANTE INTERESSE NAZIONALE (PRIN)

PROGETTO DI RICERCA

Anno 2003 – prot. 2003065109_005

Titolo: “Isolamento e caratterizzazione di cellule staminali cardiache adulte. Valutazione del loro ruolo nella riparazione del danno miocardico nel modello murino”

Responsabile scientifico dell’unità’ di Ricerca: dott. GIACOMO FRATI

2) 2005- PROJET DE RECHERCHE INSERM 2005-Biothérapies : « Utilisation d’un myocarde bioartificiel associe a un systeme de contention comme traitement de l’insuffisance cardiaque » **DIRECTEURS DE RECHERCHE :** Docteur Juan C. CHACHQUES, Prof. Alain CARPENTIER.

Directeur Unité de chirurgie: docteur GIACOMO FRATI

3) 2006- MINISTERO SALUTE (EX ART. 56 – RF 2006)

Titolo: “MECCANISMI DI SEGNALAZIONE INTRACELLULARE RESPONSABILI DELLA PROTEZIONE DALL’INSUFFICIENZA CARDIACA”

Responsabile scientifico Prof. GIACOMO FRATI

4) 2007-PROGETTO FINALIZZATO 2007- MINISTERO SALUTE (RF 2007) dal titolo “Novel combined molecular and stem cell therapeutical approach to treat heart failure “

Coordinatore Scientifico: Prof. GIACOMO FRATI

5) 2007-PROGRAMMI DI RICERCA SCIENTIFICA DI RILEVANTE INTERESSE NAZIONALE (PRIN)-PROGETTO DI RICERCA Anno 2007 – prot. 2007E4SCMR

Titolo: “Cell therapy and tissue engineering for heart diseases: creation of a biocomplex for post-ischemic cardiac regeneration”

Coordinatore Scientifico del progetto e Responsabile scientifico dell’unità’ di Ricerca: Prof. GIACOMO FRATI

6) 2007- PROGRAMMI DI RICERCA FONDI 5 X MILLE ANNO 2007

Titolo: Terapie geniche e cellulari applicate alle malattie cardiovascolari

Responsabile Scientifico: Prof. GIACOMO FRATI

7) RF 2007-2008 MINISTERO SALUTE-REGIONE MOLISE

Titolo :DEVELOPMENT OF TISSUE-ENGINEERED BLOOD VESSELS FOR PATIENTS CANDIDATE TO ARTERIAL REVASCULARIZATION

Responsabile Scientifico: Prof. GIACOMO FRATI

8) 2008-2009 PROGETTO FINALIZZATO “FONDAZIONE ROMA”

Titolo: “Evaluation of regenerative cell therapy and tissue engineering for ischemic heart disease: regional and global left ventricular quantitative analysis using non-invasive methods”

Responsabile scientifico dell’unita’ di Ricerca di Chirurgia: Prof. GIACOMO FRATI

9) 2009 Finanziamento Ricerca dell’Ateneo Federato delle Scienze delle Politiche Pubbliche e Sanitarie SPPS Progetto di ricerca di Facoltà Anno: 2009 – prot. C26F09EPMJ dal titolo: “Valutazione funzionale delle performances valvolari cardiache : creazione di un modello sperimentale per lo studio e l’analisi funzionale in vitro”

Responsabile scientifico : Prof. GIACOMO FRATI

10) 2010 Finanziamento Ricerca dell’Ateneo Federato delle Scienze delle Politiche Pubbliche e Sanitarie SPPS Progetto di ricerca di Facoltà Anno Anno: 2010 – prot. C26A10J5X4 dal titolo: *Use of a novel cell based therapy with Adipose Stromal Cells (ASCs)-derived cardiomyocytes, combined to modulation of inflammation for cardiac regeneration in heart failure.*

Responsabile Scientifico: Prof. GIACOMO FRATI

11) 2010- PROGRAMMI DI RICERCA FONDI 5 X MILLE ANNO 2010

Titolo: *Utilizzo di cellule staminali cardiache in associazione ad un sistema di assistenza ventricolare intracorporeo per il trattamento di pazienti in scompenso cardiaco terminale: creazione di un modello sperimentale pre-clinico*

Responsabile Scientifico: Prof. GIACOMO FRATI

12) 2011 Finanziamento Ricerca dell’Ateneo Federato delle Scienze delle Politiche Pubbliche e Sanitarie SPPS Progetto di ricerca di Facoltà Anno Anno: 2011- prot. C26A11J528 dal titolo: *Cell therapy and tissue engineering in heart diseases: novel tools for regenerative medicine.*

Responsabile Scientifico: Prof. GIACOMO FRATI

13) 2012-PROGRAMMI DI RICERCA SCIENTIFICA DI RILEVANTE INTERESSE NAZIONALE (PRIN) Anno 2010-2011 - prot. 2010RNXM9C_007

Progetto di Ricerca

NUOVE INTERAZIONI TRA PATHWAYS MOLECOLARI FAVORENTI UN RIMODELLAMENTO CARDIACO ADATTATIVO NELLA CARDIOMIOPATIA DA SOVRACCARICO

NOVEL INTERPLAYS AMONG MOLECULAR PATHWAYS FAVORING ADAPTIVE CARDIAC REMODELLING IN CARDIOMYOPATHY OF OVERLOAD

Responsabile scientifico dell’unita’ di Ricerca: Prof. Giacomo Frati

14) 2012- PROGETTI DI AVVIO ALLA RICERCA-prot. C26N12BSRY

Titolo: *Cardiac Transdifferentiation of Human Adipose Derived Mesenchymal Stem cells: potential use fore regenerative cardiac therapies in heart failure*

Responsabile Scientifico: GAIA SCAFETTA

Responsabile Tutoraggio e Co-responsabile scientifico: Prof. GIACOMO FRATI

15) 2013-Sapienza Università di Roma-Finanziamento per acquisizione di medie e grandi attrezzature scientifiche-Anno 2013 – prot. C26G13AXCK dal titolo:

Ecocardiografo portatile di ultima generazione con capacità di imaging 2D e 3D: utilizzo di cellule staminali cardiache in associazione ad un sistema di assistenza ventricolare intracorporeo (VAD) per il trattamento dello scompenso cardiaco terminale in modello sperimentale animale.

Responsabile Scientifico: Prof. GIACOMO FRATI

16) 2013-ASI (Agenzia Spaziale Italiana)-Progetto di ricerca

Supporto per la diagnostica non invasiva di placche carotidiche vulnerabili

Responsabile Scientifico dell'unità di ricerca: Prof. GIACOMO FRATI

17) 2014- PROGETTO FINALIZZATO “FONDAZIONE ROMA”

Titolo: *“Sistemi per la formazione pratica-simulata in ambito biomedico (Creazione di un Laboratorio didattico di colture cellulari-medicina rigenerativa e di un Laboratorio didattico-diagnostico di imaging per piccoli animali)”*

Responsabile Scientifico: Prof. GIACOMO FRATI

18) 2014- PROGETTI DI AVVIO ALLA RICERCA di Tipo A-prot.C26N14222K

Titolo: *Cardiac Transdifferentiation: a novel role for platelet lysate*

Responsabile Scientifico: CAMILLA SICILIANO

Responsabile Tutoraggio e Co-responsabile scientifico: Prof. GIACOMO FRATI

19) 2014-PROGETTI AWARDS DI UNIVERSITÀ- anno 2014 – prot. C26H148CRP

Titolo: *New insights in cardiac regeneration: breakthrough in left ventricular assist device (LVAD) and autologous stem cell combined therapy*

Responsabile Scientifico: Prof. GIACOMO FRATI

20) 2015-PROGETTI GRIFOLS ITALIA

Titolo: *A large animal experiment on the cardioprotective effect of Prolastin C in acute myocardial infarction: the Sapienza University of Rome-Prolastin (SUR-PRO) Study*

Responsabile Scientifico: Prof. GIACOMO FRATI

21) 2015-Domanda di finanziamento per progetti di ricerca di università anno 2015 - PROT.

C26A1578EJ dal titolo: *An advanced combined approach: nanocomposite biomaterials and Mesenchymal stem cells as tools to reduce cardiac fibrosis*

Responsabile Scientifico: Prof. GIACOMO FRATI

**22) 2016 PRIN: PROGETTI DI RICERCA DI RILEVANTE INTERESSE NAZIONALE –
Bando 2015 Prot. 20157ATSLF dal titolo:**

Discovery of molecular and genetic/epigenetic signatures underlying resistance to age-related diseases and comorbidities

Responsabile scientifico dell'unita' di Ricerca: Prof. GIACOMO FRATI

**23) 2016-Domanda di finanziamento per progetti di ricerca di università categoria grandi
anno 2016 dal titolo:** *Protective role of Steen solution on endothelial and lung parenchymal cells in
an in vitro model of ex vivo lung perfusion (EVLN)*

Responsabile Scientifico: Prof. GIACOMO FRATI

FINANZIAMENTO TOTALE OTTENUTO: 2.850.000,00 EURO CIRCA

M.Capitoli di libri

1) **REGENERACIÓN CARDIACA**, Chachques JC, Herreros J, Carpentier A, Trainini JC, Editorial Magister Eos, Buenos Aires [Argentina], 2005

Capitulo 17 *Aplicacion de ingenieria de tejidos en cardiologia: miocardio bioartificial*

Capitulo 18 *Perspectivas Futuras*

2) **MALATTIE DEL TORACE** Venuta F, Coloni F, (Editore SEU) 2008, ISBN: 9788865150245

Capitulo 15 *Lo Xenotrapianto*

3) **PATOLOGIA INTEGRATA MEDICO-CHIRURGICA I**, (Cooperativa Libreria, Nuova Cultura,Roma) 2010, ISBN: 9788861344952

Capitulo 14 *Trattamento Chirurgico dello Scompenso Cardiaco: Trapianto Cardiaco, Sistemi di Assistenza Ventricolare, Cuore Artificiale Totale*

Capitulo 15 *Prospettive Future per il Trattamento dello Scompenso Cardiaco: Xenotrapianto e Cellule Staminali*

Capitulo 16 *Circolazione extracorporea*

4) **Somatic Stem Cells** (Singh SR, Methods in Molecular Biology, Springer Science, 2012, ISBN 978-1-62703-097-7)

Isolation and Expansion of Adult Cardiac Stem/Progenitor Cells in the Form of Cardiospheres from Human Cardiac Biopsies and Murine Hearts

5) **Biochemical BASIS of Angiogenesis** (Editors: J.L. Mehta & Dhalla N.S., Springer Science, 2013)

Chapter 10 : *microRNA and Cardiovascular Disorders, with a Focus on Angiogenesis*

6) **ANNUAL UPDATE IN INTENSIVE CARE AND EMERGENCY MEDICINE 2013**

(Editor: J.L. Vincent, Erasme Hospital, Brussels, Belgium, Springer Science 2013, ISBN 978-3-642-25715-5)

Chapter 7: *Evidence-based stent choice in patients undergoing primary percutaneous coronary intervention*

7) The Merck Manual of Diagnosis and Therapy, 19th Edition

Merck Publishing (© 2009-2010 Merck Sharp & Dohme Corp., a subsidiary of Merck & Co., Inc., Whitehouse Station, N.J., U.S.A.)

Reviewer for Selected Chapters: Valvular Disorders (Aortic, Mitral, Pulmonic, Tricuspid)

8) ANNUAL UPDATE IN INTENSIVE CARE AND EMERGENCY MEDICINE 2014

(Editor: J.L. Vincent, Erasme Hospital, Brussels, Belgium, Springer Science 2014)

Chapter: **Optimizing intensity and duration of oral antithrombotic therapy after primary percutaneous coronary intervention**

9) CONTRAST MEDIA (3d Edition, Editor: Henrik S. Thomsen, Judith. A.W. Webb, Springer-Verlag Berlin Heidelberg 2014, ISSN 0942-5373 ISSN 2197-4187 (electronic)

ISBN 978-3-642-36723-6 ISBN 978-3-642-36724-3 (eBook) DOI 10.1007/978-3-642-36724-3 Springer Heidelberg New York Dordrecht London)

Chapter: **A Critical Review of Meta-Analysis of Adverse Events After Contrast Media**

10) NETWORK META-ANALYSIS: EVIDENCE SYNTHESIS WITH MIXED TREATMENT COMPARISON (Nova Science Pub Inc; 1st edition (July 15, 2014)

ISBN-10: 1633210014 , ISBN-13: 978-163321001)

Foreword: **The translational researcher's perspective**

11) SPRINGER PROTOCOLS (Publisher: Springer; Humana Press, 2014, DOI 10.1007/7651_2014_102, ISSN 1064-3745)

Chapter: **CULTURE OF HUMAN LIMBAL EPITHELIAL STEM CELLS ON TENON'S FIBROBLAST FEEDER-LAYERS: A TRANSLATIONAL APPROACH**

12) TRATTATO DI CARDIOCHIRURGIA 2016- Luigi Chiariello (Editore SEU , Società Editrice Universo Srl, Roma, Italia, ISBN 978-88-6515-129-7)

Capitolo: **Rigenerazione del Miocardio con le Cellule Staminali**

13) PSYCHOTHERAPY FOR ISCHEMIC HEART DISEASE- An evidence based clinical approach (Publisher: Springer, 2016)

Chapter: **Evidence-based psychotherapy in ischemic heart disease: umbrella review and updated meta-analysis**

14) APPUNTI DI CARDIOCHIRURGIA- 2016- Federico Bizzarri (Editore SEU , Società Editrice Universo Srl, Roma, Italia ISBN 978-88-6515-127-3)

Capitolo: **Il Trapianto di Cuore**

15) BIOCHEMICAL BASIS AND THERAPEUTIC IMPLICATIONS OF ANGIOGENESIS

(Editors: J.L. Mehta & Dhalla N.S., Springer Science, 2017, ISBN: 978-3-319-61114-3 (Pr.) 978-3-319-61115-0)

Chapter: **microRNAs, Angiogenesis and Atherosclerosis**

16) MITOCHONDRIAL DYNAMICS IN CARDIOVASCULAR MEDICINE (Springer International Publishing AG 2017 G. Santulli (ed.), Advances in Experimental Medicine and Biology 982, DOI 10.1007/978-3-319-55330-6_16)

Chapter 16 : **Functional role of nox4 in autophagy**

17) EXERCISE FOR CARDIOVASCULAR DISEASE PREVENTION AND TREATMENT (Springer International Publishing 2017, ISBN 978-981-10-4307-9,
<http://www.springer.com/cn/book/9789811043062>)

Chapter: **The Positive Effects of Exercise in Chemotherapy-related Cardiomyopathy**

18) PATOLOGIA INTEGRATA MEDICO-CHIRURGICA I, (Cooperativa Libreria, Nuova Cultura,Roma) 2017, ISBN: 9788861344952

Capitolo 15 *Prospettive Future per il Trattamento dello Scopenso Cardiaco: Cellule Staminali e Xenotrapianto*

Capitolo 16 *Trattamento Chirurgico dello Scopenso Cardiaco: Trapianto Cardiaco, Sistemi di Assistenza Ventricolare, Cuore Artificiale Totale*

N. Comunicazioni presentate a Congressi (come *speaker*-lettura magistrale).

| No. | Autori/Authors | Titolo/Title | Congresso/Meeting | Rivista, anno; vol:pagine / Abs ' Book |
|-----|--|---|---|---|
| A01 | Frati G , Condorelli GL | Ipertrofia e scompenso cardiaco: un <i>continuum</i> molecolare? | 61nd Congresso Soc Ital Cardiologia, Roma, Dec , 1999 | Cardiologia 1999; 43 :1129-1132 |
| A02 | Frati G , Frati P, Muzzi L, Yacoub M | Clinical and ethical issues on xenotrasplantation | 18 th Int Congr <i>Transplantation Soc</i> , Roma, aug 27-sept 1 2000 (session 23.01 Xenotransplantation) | Abstracts' book, Abs No. 0646 |
| A03 | Bizzarri F, Scolletta S, Neri E, Frati G | Perioperative use of <i>Tirofiban Hydrochloride</i> does not increase surgical bleeding after emergency/urgent CABG. | Washington, DC, 2 nd Int Congress: <i>Heart Disease. New trends in research, diagnosis and treatment.</i> Washington, DC, 2001 jul 21-24 | Abstracts' book, Abs No. 523, <i>Medimond Pub.</i> , Englewood, NJ |
| A04 | Pignatelli P, Lenti L, Caroselli C, Frati G , Simeoni I, Gazzaniga PP, Pulcinelli FM, Violi F | L-propionylcarnitine inhibits superoxide anion production by human platelets | Washington DC ,2 nd Int Congress: <i>Heart Disease. New trends in research, diagnosis and treatment.</i> Washington DC, jul 21-24, 2001. | Abstracts' book No. 232 Violi et al, <i>Medimond Pub.</i> , Englewood, NJ |
| A05 | Bonacchi M, Prifti E, Giunti G, Frati G , Sani G | Urgent surgical revascularization of unstable angina. Influence of different mammary artery. | --- | Eur J Cardiothorac Surg 2001 ; 20 :747-754 |
| A06 | Vecchione C, Aretini A, Poulet R, Frati G , Lembo G | La vasodilatazione ossido nitrico dipendente evocata dalla leptina è mediata dall'attivazione di <i>AKT</i> attraverso un meccanismo P13K indipendente. | 62nd Congresso Soc Ital Cardiologia, Roma, Dec 8-12, 2001, Abs. C25 | Ital Heart J 2001; 2 (suppl. 6):9 |
| A07 | Fratta L, Calogero A, d'Amati G, Poulet R, Arcella A, Notte A, Frati G , Lembo G | Ruolo del fattore trascrizionale EGR-1 nel rimodellamento cardiaco durante sovraccarico pressorio. | 62nd Congresso Soc Ital Cardiologia, Roma, Dec 8-12, 2001, Abs. C239 | Ital Heart J 2001; 2 (suppl. 6):73 |
| A09 | M. Bonacchi, E Prifti, G Giunti, G Frati , A Salica, G. Sani | Urgent myocardial revascularization in patients with unstable angina. Early and mid-term outcome. | 51° International Congress of the European Society for Cardiovascular Surgery, ESCVS, HELSINKI, Finland, 29 June – 1 July 2002 | Abs Book |

| | | | | |
|-----|--|---|--|--|
| A10 | M. Bonacchi, E Prifti, G Giunti, G Frati , G. Sani | Ministernotomy in Aortic Valve Surgery. A prospective randomized Study for post-operative outcome | 51° International Congress of the European Society for Cardiovascular Surgery, ESCVS, HELSINKI, Finland, 29 June – 1 July 2002 | Abs Book |
| B01 | M. Bonacchi, E Prifti, G Giunti, G Frati | Lambda-graft employing radial artery or free left internal thoracic artery: flow dynamics | 51° International Congress of the European Society for Cardiovascular Surgery, ESCVS, HELSINKI, Finland, 29 June – 1 July 2002 | Abs Book |
| B02 | M Bonacchi, E Prifti, G Giunti, G Frati | Ministernotomy improve outcome in Aortic Valve Surgery. A prospective randomized Study | 5 th Annual Meeting of International Society for Minimally Invasive Cardiac Surgery, ISMIC, NEW YORK, USA, 20-23 June, 2002 | Abs Book |
| B03 | Bonacchi M, Battaglia F, Prifti E, Frati G | The release of cerebral brain damage markers and neurological outcome in off-pump surgery | National Conference on Stroke, Florence, Italy, 7-9, March 2004 | Abs Book |
| B02 | Frati G , Cortes Morichetti M, Menasché Ph, Carpentier A | Can autologous myoblast transplantation decrease chronic ischemic mitral regurgitation? | 11 th Natl Congress SIRC-Soc It Ricerche Cardio-vascolari, Latina, Sept 23-25 2004 | Abs Book |
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| G02 | Frati G | Lo scompenso cardiaco acuto: che fare? La terapia cellulare | RO Manesthesia, IX Incontro Romano di Cardioanestesia, Roma 19-21 Settembre 2012 Casa dell'Aviatore Viale dell'Università 20 | Abs books |
| G03 | Frati G | La Terapia Cellulare | X INCONTRO Nuove Strategie Terapeutiche in Ambito Cardiologico, Cassino, 6-7 Dicembre 2012 | Abs books |
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| G06 | Frati G | Terapia rigenerativa del miocardio: a che punto siamo? | Dai fattori di rischio allo sviluppo di scompenso cardiaco: strategie di prevenzione e trattamento Sorrento, 26-27 Aprile 2013 | Abs books |
| G07 | Gregorino Paone, Vittoria Conti , Corrado Mollica, Giuseppe Brunetti, Gianluca Monaco, Gilda Giannunzio, Patrizio Palermo, Giacomo Frati | Effects of long term home NIV on lung inflammation in stable COPD | ERS Annual Congress Barcelona , 7 th – 11 th September, 2013 | Abs books |
| G08 | Frati G. | Il concetto di terapia cellulare e la rigenerazione tissutale in cardiocirurgia | LowVisionAcademy IVX Congresso Nazionale, Roma, 27-28 Settembre 2013 | Abs books |
| G09 | Chimenti I, Frati G | Cardiac progenitor cells: current and future direction for cell therapy | 2013 Autumn Padua Muscle Days Terme Euganee, Italy, November 14-16 MYOCARDIAL REGENERATION SESSION | Abs books |
| G10 | Frati G | Indicazioni e limiti all'impianto di cellule staminali nella fase acuta dell'infarto miocardico | Dai fattori di rischio allo sviluppo di scompenso cardiaco: strategie di prevenzione e trattamento Sorrento, 4-6 Aprile 2014 | Abs books |
| H01 | Frati G | La scelta dell'intervento nelle dissezioni croniche di Tipo A può essere guidata da markers molecolari? | Patologia Aortica Acuta, Roma, 11 Aprile 2014 | Abs books |
| H02 | Frati G | La medicina rigenerativa nelle principali malattie cardiovascolari | 3000 Trapianti, Roma 19-20 Giugno 2014 | Abs books |
| H03 | Frati G | Cardiac regeneration: from basic research to clinical translation | XXI Congresso SIPMeT (Società Italiana di Patologia e Medicina Traslazionale) Molecular Mechanisms of | Abs books |

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| H04 | Chimenti I, Frati G | Cardiac regeneration | LXIV Congresso AIPaCMeM (Associazione Italiana di Patologia Clinica e Medicina Molecolare) Palermo, 17-19 settembre 2014 | Abs books |
| H05 | Benedetto U, Biondi-Zoccai G, Tonelli E, Frati G | European real-world transcatheter aortic valve implantation: Systematic review and meta-analysis of European national registries | XXIIX EACTS Annual Meeting, Milan, Italy 11-15 October 2014 | Abs books |
| H06 | Sebastiano Sciarretta, Narayani Nagarajan, Derek Yee, Peiyong Zhai, Priya Umaphathi, Christopher D Brady, Massimo Volpe, Giacomo Frati , Junichi Sadoshima | Activation of PKR-Like Endoplasmic Reticulum Kinase is Required for Autophagy Stimulation and Cardiomyocyte Survival During Acute Myocardial Ischemia | AHA, Chicago, Illinois, U.S.A, November 15-19, 2014 | Circulation. 2014;130:A15689 |
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| H08 | Benedetto U, Vitulli P, Frati G | Scoring system to guide decision making for the use of bilateral internal mammary arteries: the bima score | SICCH, Società Italiana di Chirurgia Cardiaca, XXVII National Congress, November 28-30, 2014, Rome | Abs books |
| H09 | Chimenti I, Pagano F, Cavarretta E, Siciliano C, Mangino G, Vitulli P, Izzo S, De Falco E, Greco E, Peruzzi M, Biondi Zoccai G, Marullo A, Frati G | Beta-blocking treatment in heart failure patients correlates with successful isolation of resident cardiac progenitor cells and affects their phenotype in vitro | 75nd Congresso SIC, Soc Ital Cardiologia, Roma, Dicembre 13- 15, 2014 | Abs books |
| H10 | Frati G | Closing lecture-Cellule Staminali nelle Patologie Cardio- Respiratorie | Update in Medicina Respiratoria, Roma, 18-19 Dicembre, 2014 | Abs Books |
| I01 | Proietti P, Frati G | Treatment of Aortic dissection: after 15 days | Roma, CAPUT Mundi, Rome, May 26-27, 2015 | Abs Books |
| I02 | Chimenti I, Frati G | Beta-blocker treatment in heart failure patients correlates with | 37° Congresso Nazionale della | Abs Books |

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| I03 | Frati G | Il Ricondizionamento degli organi per il Trapianto | RO Manesiesia, XII Incontro Romano di Cardioanestesia, Roma 26-27 Novembre 2015 | Abs Books |

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