

Prof. Giacomo Frati – *Curriculum vitae*

Nome Giacomo FRATI, MD
Luogo e data nascita
C.F., nazionalità
Lingue parlate Italiano, Inglese (British Institute of Rome), Francese, Spagnolo
Indirizzo permanente
Indirizzo attuale
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-e-mail e-mail giacomo.frati@uniroma1.it

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-2004 Ricercatore associato, Hopital Européen George Pompidou, Division of Cardiac Surgery and Lab 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-2005 nov- Ricercatore associato– 2003-: Cardiac stem cells program vs Myoblast Autologous Grafting in Ischemic Cardiopathy [MAGIC] study, Hopital Européen 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, Division 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 Cardiochirurgia 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
- 2017- THE EFFECTS OF DARK CHOCOLATE IMPLEMENTATION IN ELITE ATHLETES
ClinicalTrials.gov Identifier N°: NCT03288623
Study Director and Principal Investigator: Giacomo Frati, MD, Sapienza University
- 2017- ROLE OF TRADITIONAL CIGARETTES, ELECTRONIC AND IQOS CIGARETTES ON OXIDATIVE STRESS
ClinicalTrials.gov Identifier N°: NCT03301129
Study Director and Principal Investigator: Giacomo Frati, MD, Sapienza University
- 2020 Vice-Presidente e membro del Consiglio Direttivo del Collegio dei Docenti del SSD MED/50
- 2020 Rappresentante eletto dei professori ordinari nella Giunta di Facoltà di Farmacia e Medicina, Università Sapienza, per il triennio 2020/2023

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^a 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^a 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^a Fac. di Medicina e Chirurgia, Univ. Roma *La Sapienza*, Scuola di Specializzazione in Cardiocirurgia
- 2006- Professore Associato-Ordinario MED/50 Scienze tecniche mediche applicate, I^a 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^a 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^a 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^a 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^a 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^a 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^a 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^a 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- Ruolo di coordinatore del C.I. di Tecniche avanzate di perfusione ed assistenza meccanica
- 2015- Vice Coordinatore della Scuola di Specializzazione in Cardiochirurgia, 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
- 2017- Ruolo di coordinatore del C.I. Aggiornamenti in scienze delle tecniche di fisiopatologia cardiocircolatoria e perfusione cardiovascolare

D.b. Studenti laureati/specializzati/dottorati/borse-assegni di ricerca: 47 lauree (24 Corso di laurea in Medicina e Chirurgia, 8 Corso integrato specialistico per tecnici di fisiopatologia cardiocircolatoria, 10 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 Cardiochirurgia, 5 Dottorati Fisiopatologia Sperimentale, 5 Dottorati di ricerca in Fisiopatologia chirurgica angio-cardio-toracica ed imaging, 3 Dottorati in Medicina Molecolare, 38 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-Premio 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 educazionale 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 TIS (Top Italian Scientists in Italy and Abroad. Sito internet : <http://www.topitalianscientists.org>)
Giacomo Frati: Biomedical Sciences, 84esima posizione pari merito, 693esima posizione in assoluto
- 2019 Brevetto/Patent Patent Number(s): EP3636254A1
Antioxidant compositions/ Composizioni Antiossidanti
Priority: 10.10.2018 IT 201800009318
Date of publication: 15.04.2020 Bulletin 2020/16
Int Cl.: A61K 31/132 (2006.01) A61K 31/455 (2006.01) A61K 31/7016 (2006.01) A61P 39/06 (2006.01)
Inventors: Sebastiano Sciarretta, Valentina Valenti, Roberto Carnevale, Antonio GM Marullo, Luigi Frati, **Giacomo Frati**
- 2019 Premio Europevent 2019, Best Moderated Poster, Lisbon, 11-13 April 2019
- 2019 Nomina a Socio Ordinario Accademia Medica di Roma

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

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)
2018	Società Italiana per la Ricerca Traslazionale e le Professioni Sanitarie (SIRTEPS)-Socio Fondatore
2019	Socio Ordinario Accademia Medica di Roma

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) EDORUM 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
- 12) MINERVA CARDIOANGIOLOGICA-Deputy 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, ATVB, 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 le 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.

Publicazioni 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 transdiffer-entiation, 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, Hypertension , Stem Cells Int. Curr Cardiol Rep, Autophagy	ca. 157
	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 transplantation and regeneration -wound healing -aging	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 Rev and Reports, Cytotechnology, Can J Physiol Pharmacol, Journal of Cardiovasc Med, Med of Inflamm, Oxid Med Cell Longev, J Am Heart Assoc, Stem Cells Dev, Biomed Res Int, Clinical Science, Cell Transpl, 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, Sci Reports, Pharm Res, Int J Mol Sci, Journal of Cellular Biochemistry, Am J Cardiovasc Drugs	ca. 685
	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	The NEJM, 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 Card 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, J Cardio Imaging, World J Surg, Journal of Cardio 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, Crit Care Med, Transplantation, Biomed Res Int, Prog in Cardio Diseases, Ann Vasc Surg, Curr Atheroscler Rep, Am J Transplantation, JACC Cardiovasc Imaging, Am J Hypertens, Eur Radiol, Atherosclerosis, J Cell Mol Card, EJ Pr Card, Br J Pharm	ca. 693
	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, Br J Anaesth, Minerva Card	ca 40

		Total cumulative I.F.	ca. 1585
Pub-Med Indexed papers, total: 343			
<i>h</i>-index total papers		Total cumulative <i>h</i>-index	53 (GS) 52 (PP) 45 (SC) 41 (ISI)
<i>h</i>-c			32
Cites/year:			563
i10-index			180
g-index			105
Cites/paper:			34
Mean Impact Factor/paper			4,6
Citations Index		Total Citations	11833 (GS) 11805 (PP) 7991 (SC) 7028 (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/authid/detail.uri?authorId=7003602863</p> <p>Link to ISI: http://apps.webofknowledge.com/CitationReport.do?product=UA&se arch_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.				
				I.F.
01	Bonacchi M, Prifti E, Frati G , Leacche M, Salica A, Giunti G, Proietti P, Furci B, Miraldi F	Total arterial revascularization using internal mammary arteries and/or radial artery conduits according the new composite grafts techniques.	J Cardiac Surgery 1999; 14 :408-416	0.086
02	De Luca A, Sargiacomo M, Puca A, Sgaramella G, De Paolis P, Frati G , Morisco C, Trimarco B, Volpe M, Condorelli GL	Characterization of <i>caveolae</i> from rat heart: localization of post-receptor signal extracorpore molecules and their rearrangement after norepinephrine stimulation.	J Cell Biochem 2000; 77 :529-539	2.664
03	Lazzereschi D, Forni M, Cappello F, Bacci ML, Di Stefano C, Marfè G, Giancotti P, Wang HJ, Rossi M, Del-la Casa G, Pretagostini R, Frati G , Bruzzone P, Stassi G, Stoppacciaro A, Turchi V, Cortesini R, Sinibaldi P, Frati L, Lavitrano M	Efficiency of transgenesis using sperm-mediated gene transfer: generation of transgenic pigs.	Transplant Proc 2000; 32 :892-894	0.588
04	Prifti E, Bonacchi M, Giunti G, Frati G , Proietti P, Leacche M, Salica A, Sani G, Brancaccio G	Does on-pump/beating-heart coronary artery bypass grafting offer better outcome in end-stage coronary artery disease patients?	J Card Surg 2000; 15 :403-10	0.937
--	Prifti E, Bonacchi M, Salica A, Giunti G, Frati G , Leacche M, Furci B, Totaro M, Proietti P, Comito C, Toscano M	Early and mid-term outcome of coronary artery bypass grafting in end-stage coronary artery disease patients.	Cor Europaeum 2000; 8 :93-99 [*]	----
--	Prifti E, Bonacchi M, Frati G , Proietti P, Baboci A, Leacche M	Strategies of surgical management in patients with severe porcelain aorta undergoing cardiac operations.	Cor Europaeum 2000; 8 :161-164 [*]	----
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07	Lembo G, De Luca N, Battagli C, Iovino G, Aretini A, Musicco M, Frati G , Pompeo F, Vecchione C, Trimarco B	A common variant of the endothelial nitric oxide synthetase (Glu298Asp) is an independent risk factor for carotid atherosclerosis.	Stroke 2001; 32 :735-740	5.233
08	Neri E, Coffin O, Toscano T, Mas-setti M, Bizzarri F, Capannini G, Frati G , Sassi C	Replacement of infected prosthesis on the ascending aorta with an abdominal aortic autografting in a young patient.	J Thorac Cardiovasc Surg 2001; 121 :194-195	3.319
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11	Vecchione C, Colella S, Fratta L, Gentile MT, Selvetella G, Frati G , Trimarco B, Lembo G	Impaired Insulin-like growth factor 1 vasorelaxant effect in hypertension.	Hypertension 2001; 37 :1480-1485	5.630
12	Condorelli GL, Roncarati R, Ross J jr, Pisani A, Stassi G, Todaro M, Trocha S, Drusco A, Gu Y, Russo MA, Frati G , Jones SP, Lefer DJ, Napoli C, Croce CM	Heart-targeted overexpression of <i>caspase3</i> in mice increases infarct size and depresses cardiac function.	Proc Natl Acad Sci US 2001; 98 :9977-82	10.272
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16	Prifti E, Bonacchi M, Frati G , Proietti P, Giunti G, Leacche M	<i>Lambda</i> graft with the radial artery or free internal mammary artery anastomosed to the right internal mammary artery: flow dynamics.	Ann Thorac Surg 2001; 72 :1275-1281	2.041
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23	Prifti E, Bonacchi M, Frati G , Giunti G, Babatasi G, Sani G	Ischemic mitral valve regurgitation grade II-III: correction in patients with impaired left ventricular function undergoing simultaneous coronary revascularization.	J Heart Valve Dis 2001; 10 :754-762	1.219
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38	Bizzarri F, Frati G	Harvesting of the radial artery: skeletonization versus pedicled technique.	Ann Thorac Surg 2002; 73 : 1359-1360	2.041
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66	Muzzi L., Bizzarri F, Barretta A, Miraldi F, Laghi A, Pugliese G, Sartini P, Frati G	A Piece of chainlink fence in the heart	Tex Heart Inst J, Vol.34, Number 4, 2007;498-500	0.601
67	Cortes-morichetti M., Frati G. , Schussler O., Duong Van huyen J.P., Lauret E., Genovese J., Carpentier A.F., Chachques J.C.	Association Between a Cell-Seeded Collagen Matrix and Cellular Cardiomyoplasty for Myocardial Support and Regeneration	TISSUE ENGINEERING 2007 Nov;13(11):2681-7.	3.725
68	Teresa Gentile M, Vecchione C, Marino G, Aretini A, Di Pardo A, Antenucci G, Maffei A, Cifelli G, Iorio L, Landolfi A, Frati G , Lembo G.	Resistin impairs insulin-evoked vasodilation	Diabetes. 2008 Mar;57(3):577-583;	7.955
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319	Biondi-Zoccai G, Sciarretta S, Carnevale R, Peruzzi M, Frati G	Cardiovascular benefits of switching from tobacco to electronic cigarettes	J Am Coll Cardiol. 2020 Apr 7;75(13):1613.	18.639
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322	Biondi-Zoccai G, Gaudino M, Romagnoli E, Sciarretta S, Abbate A, Frati G .	Italian cardiovascular expats: global leaders with Italian heartstrings	Minerva Cardioangiol. 2020 Jan 24.	0.781
323	Biondi-Zoccai G, Cavarretta E, Frati G , Versaci F	Risks and benefits of very low levels of low-density lipoprotein cholesterol: when less is not necessarily more	Int J Cardiol. 2020 Apr 1. pii: S0167-5273(20)31102-5. doi: 10.1016/j.ijcard.2020.03.079.	4.034
324	Giusy Tiseo, Elena Cavarretta, Cristina Nocella, Sebastiano Sciarretta, Ornella Spagnolello, Enrico Baldini, Mariangela Peruzzi, Giuliano Bertazzoni, Marullo A, Miraldi F, Morelli A, Giacomo Frati , Roberto Carnevale, Falcone Marco	Interplay between Nox2 activity and platelet activation in patients with sepsis and septic shock: a prospective study	Oxid Med Cell Longevity Minor Revision	5.076
325	Biondi-Zoccai G, Garmenda CM, Abbate A, Giordano A, Frati G , Sciarretta S, Antonazzo B, Versaci F	Atherothrombosis Prevention and Treatment with Anti-interleukin-1 Agents	Curr Atheroscler Rep. 2020 Jan 13;22(1):4	3.769
326	Biondi-Zoccai G, Landoni G, Carnevale R, Cavarretta E, Sciarretta S, Frati G .	SARS-CoV-2 and COVID-19: facing the pandemic together as citizens and cardiovascular practitioners	Minerva Cardioangiol. 2020 Mar 9	0.781
327	Protano C, Manigrasso M, Cammalleri V, Biondi Zoccai G, Frati G , Avino P, Vitali M.	Impact of electronic alternatives to tobacco cigarettes on indoor air particular matter levels	Int J Environ Res Public Health. 2020 Apr 24;17(8).	2.147
328	Pastori D, Carnevale R, Stanzione R, Nocella C, Cotugno M, Marchitti S, Bianchi F, Forte M, Valenti V, Biondi-Zoccai G, Schiavon S, Vecchio D, Versaci F, Frati G , Violi F, Volpe M, Pignatelli P, Rubattu S, Sciarretta S	T2238C atrial natriuretic peptide gene variant and cardiovascular events in patients with atrial fibrillation: A substudy from the ATHERO-AF cohort	Int J Cardiol. 2020 Aug 27	3.229

329	Pingitore A, Peruzzi M, Biondi-Zoccai G, Frati G , Cavarretta E	Rejuvenating Pheidippides and the Evergreen Benefits of Endurance Training	J Am Coll Cardiol. 2020 May 5;75(17):2278.	18.639
330	Marullo AG, Cavarretta E, Biondi-Zoccai G, Mancone M, Peruzzi M, Piscioneri F, Sartini P, Versaci F, Morelli A, Miraldi F, Frati G	Extracorporeal membrane oxygenation for critically ill patients with coronavirus-associated disease 2019: an updated perspective of the European experience	Minerva Cardioangiol. 2020 Apr 27.	0.781
331	Biondi-Zoccai G, Antonazzo B, Giordano A, Versaci F, Frati G , Ronzoni S, Nudi A, Nudi F.	Oral antiplatelet therapy in the elderly undergoing percutaneous coronary intervention: an umbrella review	J Thorac Dis. 2020 Apr;12(4):1656-1664	2.027
332	Mazza M, Marano G, Antonazzo B, Cavarretta E, Di Nicola M, Janiri L, Sani G, Frati G , Romagnoli E.	What about heart and mind in the covid-19 era?	Minerva Cardioangiol. 2020 May 12	0.781
333	Peruzzi M, Sanasi E, Pingitore A, Marullo AG, Carnevale R, Sciarretta S, Sciarra L, Frati G , Cavarretta E	An overview of cycling as active transportation and as benefit for health	Minerva Cardioangiol. 2020 Apr;68(2):81-97	0.781
334	Nudi F, Nudi A, Neri G, Procaccini E, Schillaci O, Versaci F, Frati G , Biondi-Zoccai G	Myocardial perfusion imaging in patients with unprotected left main disease	Minerva Cardioangiol. 2020 May 29	0.781
335	Infusino F, Cimino S, Lombardi M, Mancone M, Cavarretta E, Frati G , Pugliese F, Fedele F, Biondi-Zoccai G	Relationship between ACE-inhibitors, ARBs and SARS-CoV-2 infection: where are we?	Minerva Cardioangiol. 2020 May 29	0.781
336	Versaci F, Scappaticci M, Calcagno S, Del Prete A, Romeo F, Peruzzi M, Cavarretta E, Frati G	ST-elevation myocardial infarction in the COVID-19 era	Minerva Cardioangiol. 2020 May 29	0.781
337	Biondi-Zoccai G, Frati G , Gaspardone A, Mariano E, Di Giosa AD, Bolignano A, Dei Giudici A, Calcagno S, Scappaticci M, Sciarretta S, Valenti V, Casati R, Visconti G, Penco M, Giannico MB, Peruzzi M, Cavarretta E, Budassi S, Cosma J, Federici M, Roever L, Romeo F, Versaci F	Impact of environmental pollution and weather changes on the incidence of ST-elevation myocardial infarction	Eur J Prev Cardiol. 2020 Jun 2:2047487320928450	5.64
338	Biondi-Zoccai G, Carnevale R, Vitali M, Tritapepe L, Martinelli O, Macrina F, Bullen C, Peruzzi M, Cavarretta E, Marullo AG, Abbate A, Romagnoli E, Sciarretta S, Casati R, Visconti G, Versaci F, Frati G	A randomized trial comparing the acute coronary, systemic, and environmental effects of electronic vaping cigarettes versus heat-not-burn cigarettes in smokers of combustible cigarettes undergoing invasive coronary assessment: rationale and design of the SUR-VAPES 3 trial	Minerva Cardioangiol. 2020 Jun 2	0.781
339	Cereda V, Falbo PT, Manna G, Iannace A, Menghi A, Corona M, Semenova D, Calò L, Carnevale R, Frati G , Lanzetta G	Hormonal prostate cancer therapies and cardiovascular disease: a systematic review	Heart Fail Rev. 2020 Jun 4.	4.015
340	Biondi-Zoccai G, Versaci F, Frati G	Focusing on kidneys and platelets in acute coronary syndromes: pre hoc and post hoc risk profiling	J Cardiovasc Med (Hagerstown). 2020 Jun 8	1.658

341	Infusino F, Marazzato M, Mancone M, Fedele F, Mastroianni CM, Severino P, Ceccarelli G, Santinelli L, Cavarretta E, Marullo AGM, Miraldi F, Carnevale R, Nocella C, Biondi-Zoccai G, Pagnini C, Schiavon S, Pugliese F, Frati G , d'Ettore G	Diet Supplementation, Probiotics, and Nutraceuticals in SARS-CoV-2 Infection: A Scoping Review	Nutrients. 2020 Jun 8;12(6):E1718	4.171
342	Biondi Zoccai G, Carnevale R, Sciarretta S, Frati G	Electronic cigarette	Eur Heart J Suppl. 2020 Jun;22	1.321
343	Pepe M, Corcione N, Biondi-Zoccai G, Morello A, Berti S, Bedogni F, Iadanza A, Tomai F, Sardella G, Romagnoli E, Ferraro P, Conte S, Nestola PL, Giosa M, Cimmino M, Frati G , Giordano A	Comparison of Outcomes of Transcatheter Aortic Valve Implantation in Patients ≥ 85 Years Versus Those < 85 Years	Am J Cardiol. 2020 May 26	2.843
344	Giordano A, Biondi-Zoccai G, Frati G , Bartorelli AL	Management of Structural Heart Disease and Acute Coronary Syndromes in the COVID-19 Pandemic	Curr Atheroscler Rep. 2020 Jun 10;22(7):29	3.769
345	Sebastiano Sciarretta, Maurizio Forte, Francesca Castoldi, Giacomo Frati , Francesco Versaci, Junichi Sadoshima, Guido Kroemer, Maria Chiara Maiuri	Caloric restriction mimetics for the treatment of cardiovascular diseases	Cardiovasc Res Under Revision	7.014
346	Cavarretta E, Peruzzi M, Versaci F, Frati G , Sciarra L	How to manage an athlete with mitral valve prolapse	Eur J Prev Cardiol. 2020 Jul 30	5.64
347	Frati G , Versaci F, Sciarretta S	A novel signalling mechanism regulating telomere length in cardiomyocytes	Cardiovasc Res. 2020 Jul 14	7.014
348	Morelli A, Romano SM, Sanfilippo F, Santonocito C, Frati G , Chiostri M, Agrò FE, Ertmer C, Rehberg SW, Vieillard-Baron A	Systolic-dicrotic notch pressure difference can identify patients with septic shock at risk of cardiovascular decompensation in case of heart rate reduction	Br J Anaesth. 2020 Jul 17	6.880
349	Cavarretta E, Biondi-Zoccai G, Frati G , Versaci F.	Veneto's Successful Lesson for a World Shocked by COVID-19: Think Globally and Act Locally	J Cardiothorac Vasc Anesth. 2020 Jun 16	2.258
350	Cristina Nocella, Ivano Mezzaroma, Vittoria Cammisotto, Valentina Castellani, Cinzia Milito, Alban Rugova, Giacomo Frati , Pasquale Pignatelli, Francesco Violi, Daniele Pastori, and Roberto Carnevale	Lipopolysaccharide induces platelet activation in HIV patients: the role of different viral load patterns	HIV Medicine Under Revision	3.640
351	Morello A, Corcione N, Ferraro P, Cimmino M, Pepe M, Cassese M, Frati G , Biondi-Zoccai G, Giordano A	The best way to transcatheter aortic valve implantation: From standard to new approaches	Int J Cardiol. 2020 Aug 16	3.471
352	Peruzzi M, Cavarretta E, Frati G , Carnevale R, Miraldi F, Biondi-Zoccai G, Sciarretta S, Versaci F, Cammalleri V, Avino P, Protano C, Vitali M.	Comparative Indoor Pollution from Glo, Iqos, and Juul, Using Traditional Combustion Cigarettes as Benchmark: Evidence from the Randomized SUR-VAPES AIR Trial	Int J Environ Res Public Health. 2020 Aug 19;17(17)	2.849
353	Biondi-Zoccai G, Frati G , Miraldi F, Chiariello GA, Versaci F	A clinical conundrum: three management strategies for three-vessel coronary artery disease?	J Cardiovasc Pharmacol. 2020 Aug 7	2.371

354	Cavarretta E, Pingitore A, Della Porta S, Capitani R, Bernardi M, Sciarra L, Saglietto A, Versaci F, Autore C, Perroni F, Biondi-Zoccai G, Frati G , Peruzzi M	Accuracy of the "International Criteria" for ECG screening in athletes in comparison with previous published criteria: rationale and design of a diagnostic meta-analysis	Minerva Cardioangiol. 2020 Sep 30.	0.781
355	Pacchiarotti A, Frati G , Saccucci P	A surprising link with unexplained infertility: a possible Covid-19 paradox?	J Assist Reprod Genet. 2020 Aug 26:1-2.	2.829
356	Saglietto A, D'ascenzo F, Cavarretta E, Frati G , Anselmino M, Versaci F, Biondi-Zoccai G, De Ferrari GM	Excess all-cause mortality during COVID-19 outbreak: potential role of untreated cardiovascular disease	Minerva Cardioangiol. 2020 Sep 30.	0.781
357	Giovanna Manzi, Silvia Papa, Roberto Badagliacca, Giuseppe Biondi-Zoccai, Giacomo Frati, Fabio Miraldi, Carmine Dario Vizza, Elena Cavarretta	Comparative effectiveness of oral therapies targeting the prostacyclin pathway in pulmonary arterial hypertension: a systematic review and network meta-analysis	Minerva Cardioangiol Under Revision	0.781

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-riperfusion acuta: nuovi strumenti per la medicina rigenerativa (EVLP)**
- 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’unita’ 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’unita’ 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 carotidee 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 (EVLP)*

Responsabile Scientifico: Prof. GIACOMO FRATI

24) 2017- Domanda di finanziamento per progetti di ricerca di università categoria medi anno 2017 Prot. RM11715C7852D47E dal titolo: *Ruolo di MST1 nel danno endoteliale indotto da dismetabolismo e stress ossidativo. Implicazioni traslazionali nelle principali patologie cardiovascolari*

Responsabile Scientifico: Prof. GIACOMO FRATI

25) 2018- Domanda di finanziamento per progetti di ricerca di università categoria medi anno 2018 Prot. RM118164264ED867 dal titolo: *Acute impact of Heat not Burn Device iQOS 2.2 on cardiac, respiratory, vascular function and oxidative stress: the Sapienza University of Rome-Vascular Assessment of Proatherosclerotic Effects of Smoking (SUR-VAPES) 4 trial*

Responsabile Scientifico: Prof. GIACOMO FRATI

FINANZIAMENTO TOTALE OTTENUTO: 2.900.000,00 EURO CIRCA

M.Capitoli di libri

1) REGENERACIÓN CARDIACA, Chachques JC, Herreros J, Carpentier A, Trainini JC, Editorial Magister Eos, Buenos Aires [Argentina], 2005, ISBN 987-21448-4-2

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

Capitolo 18 *Perspectivas Futuras*

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

Capitolo 15 *Lo Xenotrapianto*

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

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

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

Capitolo 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 Digital** 9788868128920 **ISBN Print** 9788861344662

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*

19) DIAGNOSTIC META-ANALYSIS (Springer International Publishing 2018 **ISBN** 978-3-319-78966-8 Biondi-Zoccai G. <https://www.springer.com/la/book/9783319789651#aboutBook>)

Chapter 1 : **Introduction to clinical diagnosis**

Chapter 3: **Peculiarities of diagnostic test accuracy studies**

20) TRANSCATHETER AORTIC VALVE IMPLANTATION: CLINICAL, INTERVENTIONAL AND SURGICAL PERSPECTIVES (Springer International Publishing, Cham Switzerland, 2019 Print ISBN 978-3-030-05911-8 Online ISBN 978-3-030-05912-5)

Editors: Giordano A, Biondi Zoccai G, Frati G

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 Xenotrasplantation)	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
B03	Frati G	Cellular cardiomyoplasty for myocardial support and regeneration	12th Natl Congress SIRC-Soc It Ricerche Cardio-vascolari, Imola, Settembre 2005	Abs Book
B04	Cortes-Morichetti M, Carpentier Alain, Chachques JC, Frati G	Association of bioartificial myocardium and cellular cardiomyoplasty for myocardial regeneration.	12th Natl Congress SIRC-Soc It Ricerche Cardio-vascolari, Imola Settembre 2005	Abs Book
B05	Cortes-Morichetti M, Frati G , Chachques JC	Aplicacion de ingenieria de tejidos en cardiologia: miocardio bioartificial.	In: Chachques JC ed, Buenos Aires, Settembre 2005	Ediciones, Buenos Aires, 2005, pp.
B06	Frati G	Staminal cells in microgravity	2 nd International Conference on Gravity and Cardiovascular System, Pratica di Mare (Roma), 24-26 Novembre 2005	Abs Books
B07	Miguel Cortes-Morichetti, Giacomo Frati , Olivier Schussler, Jean P Duong, Evelyne Lauret, Alain F Carpentier, Juan C Chachques,	Association of Bioartificial Myocardium and Cellular Cardiomyoplasty fo Myocardial Support and Regeneration	AHA,Dallas ,Texas U.S.A, Wednesday, November 16, 2005	Abs Books
B08	Miguel Cortes Morichetti, Giacomo Frati , Jean-Louis Hebert, Yves Lecarpentier, Ysabel Conde, Ester Cimino, D’Orazio Simona, D’Angeli Ilaria, Antonio Vitarelli	Prognostic Value of Tissue Doppler Derived Tei Index after Experimental Myocardial Infarction	The 10 th HFM Annual Scientific Meeting,Paris 18-20 February, 2006	Journal of Cardiac Failure, Volume 12, Issue 6, Supplement, August 2006, Page S101

B09	Muzzi L, Carone E, Bizzarri F., Cortes-Morichetti M, Carpentier A, Chachques JC, Frati G.	Association of Bioartificial Myocardium and Cellular Cardiomyoplasty For Myocardial Support And Regeneration	The 55 th ESCVS International Congress St.Petersburg May 11/14 2006	Interactive Cardiovasc. And Thorac Surgery May 2006
B10	Frati G	Stem Cells : Bioartificial Myocardium and Cellular Cardiomyoplasty in microgravity	3th International Conference on Gravity and Cardiovascular System, Pratica di Mare /Roma 13-15 Novembre 2006	Abs Books
C01	Chachques J C., Jorge C Trainini, Lago N., Mouras J., Christen A., Cortes-Morichetti M., Frati G , Schussler O	Myocardial Assistance by Grafting a New Bioartificial Upgraded Myocardium (MAGNUM Trial): Clinical Feasibility Study	AHA, Chicago, Illinois, U.S.A November, 12/15,2006	Abs Books
C02	Frati G	Association of Bioartificial Myocardium and Cellular Cardiomyoplasty For Myocardial Support And Regeneration	50 th Anniversary Emodinamica, “50 anni di emodinamica” Roma, 19/20, Dicembre 2006	Abs Books
C03	Muzzi L., Sartini P, Bizzarri F, Frati G.	A Piece of Chainlink-Fence in the heart	25 th International Cardiovascular surgical symposium, Zurs-Alberg, Austria , 3/10 March 2007	Abs Books
C04	Muzzi L., Bizzarri F, Sartini P, Frati G.	A Piece of Chainlink-Fence in the heart	The 56 th ESCVS International Congress Venice, May 17/20 2007	Interactive Cardiovasc. And Thorac Surgery May 2007
C05	Frati.G , Muzzi L., Sartini P, Bizzarri F.	Bioartificial Myocardium and Cellular Cardiomyoplasty for Myocardial Support and Regeneration	XVIII Riunione Scientifica Annuale Gruppo Di Studio Italiano di Patologia Cardiovascolare (GSIPC) Latina, 8/9 Giugno 2007	Abs Books
C06	Messina E, Frati G , Barile L., Giacomello A.,	Cardiosphere-Forming Cells	Cardiac Stem Cells: what we need for clinical translation Rome, June, 27/28, 2007	Abs Books
C07	Frati G	Look to the future: stem cell therapy	Integrated Imaging: from Echocardiography to CT scan and MRI 4/7 Ottobre 2007, Sorrento	Abs Books
C08	L. Barile, G. Frati , R. Gaetani, E. Forte, V. Ionta, I. Chimenti, F. Bizzarri, L. Muzzi, P. Sartini, G. Pugliese, A. Giacomello, E. Messina	Cardiospheres for myocardial regeneration: research and development	2007 Autumn Padua Muscle Days. Muscle Recovery & Reconstruction Padova, 14-16 Ottobre 2007	Abs Books

C09	R. Gaetani, F. Bizzarri, L. Muzzi, P. Sartini, G. Pugliese, L. Barile, E. Forte, V. Ionta, I. Chimenti, A. Giacomello, E. Messina G. Frati	Cardiospheres and tissue engineering for myocardial regeneration: potential for clinical application	2007 Autumn Padua Muscle Days. Muscle Recovery & Reconstruction Padova, 14-16 Ottobre 2007	Abs Books
C10	Frati G	Terapia cellulare e ingegneria tissutale nelle patologie ischemiche del miocardio: creazione di un biocomplesso per la rigenerazione cardiaca	LIPIDCLUB 2008 Roma, 15-16 Febbraio 2008	Abs Books
D01	Pugliese G., Muzzi L, Chachques J C, Chimenti I, Ricci M, Giacomello A, Messina E, Frati G.	Cardiospheres and Tissue Engineering for Myocardial Regeneration: Potential for Clinical Application	The 57 th ESCVS International Congress April 24-27, 2008 Barcelona, Spain	Interactive Cardiovasc. And Thorac Surgery, 2008
D02	D'Angeli I, Bizzarri F, Muzzi L, Pugliese G, Chirichilli I, Santo C, Rose D, Frati G.	Multislice Tomographic Diagnosis of Coronary-Pulmonary artery Fistula: a case report	The 57 th ESCVS International Congress April 24-27, 2008 Barcelona, Spain	Interactive Cardiovasc. And Thorac Surgery, 2008
D03	Muzzi L, Pugliese G, D'Angeli I, Ferrari R., Laghi A., Rose D., Vecchietti, Frati G.	Giant cardiac myxoma: Real time characterization by 64-slice Computed Tomography	The 57 th ESCVS International Congress April 24-27, 2008 Barcelona, Spain	Interactive Cardiovasc. And Thorac Surgery, 2008
D04	Frati G	Terapia cellulare cardiaca: an update	RO Manesesia, 5° Incontro Romano di Cardioanestesia Roma, 15-17 Maggio 2008	Abs Books
D05	Frati G	Bypass & Patologia valvolare: Indicazioni e follow-up	Cardio TC nella pratica clinica Roma, 29-30 Maggio 2008	Abs Books
D06	Frati G	Nuove frontiere: le cellule staminali	CARD'08, Latina 18 -19 settembre 2008	Abs Books
D07	Frati G	Terapia Cellulare nelle Patologie Ischemiche del Miocardio	Nuove Frontiere Tecnologiche In Medicina e Chirurgia, Latina 29 Settembre 2008	Abs Books
D08	Frati G	Look to the future: stem cell therapy	Integrated Imaging 2008 and 50 clinical case studies Ischia (Naples) 3-5 October 2008	Abs Books
D09	Frati G	Terapia cellulare ed ingegneria tissutale	I Congresso Nazionale della Federazione Italiana di Ostetricia e Ginecologia, Roma, 5-7 Novembre 2008	Abs Books

D10	Frati G	Terapia cellulare ed ingegneria tissutale	I° SSCTS, Latina, 16 Marzo 2009	Abs Books
E01	Frati G	Autologous cardiospheres for myocardial regeneration	XXVI Meeting, of the Association of Cardiac Surgeons and European Meeting of the Cardiac Bioassist Association, Lisboa, 24-26 June 2009	Abs Books
E02	Giuseppe Pugliese, Luigi Muzzi , Massimo Ricci , Roberto Gaetani, J.C. Chachques, David Rose, Ilaria Chirichilli , Chiara Santo, Alessandro Giacomello, Elisa Messina , Giacomo Frati	Cardiospheres and tissue engineering for myocardial regeneration: potential for clinical application	European Meeting of Young Surgeons, Rome 18-20, June 2009	Abs Books
E03	Frati	Cardiac regenerative medicine: pre-clinical, clinical problems and potential solutions	International Symposium on Cardiac Stem Cells differentiation and Biopsy-derived Cardiac Regenerative Cells : clinical implication of basic research Rome, 14-15-16 October 2009	Abs Books
E04	Frati G	Cell therapy and tissue engineering for myocardial regeneration: potential for clinical application	111° Congresso Nazionale Società Italiana di Chirurgia Rimini-Palacongressi, 25-28 Ottobre 2009	Abs Books
E05	Frati G	Fino a che punto le cellule staminali trovano applicazione clinica?	RO Manesthesia, 6° Incontro Romano di Cardioanestesia Roma, 26-27-28 Novembre 2009	Abs Books
E06	Frati G	Heart Regenerative Medicine	First International Conference- Regenerative Surgery December 9- 11, 2009, Villa Mondragone, Rome, Italy	Abs Books
E07	Frati G	Nuove frontiere terapeutiche: terapia cellulare ed ingegneria tissutale	Fondazione Europea DRAGAN- ASSOCIAZIONE FONDAZIONE ROMA CHIRURGIA, Roma 18/12 2009	Abs Books
E08	Rose D, Frati G	The role and future of stem cells in the myocardial regeneration	New Star, March 17- 19, 2010 Rome, Italy	Abs Books

E09	Mariangela Peruzzi, Giacomo Frati , Iliara Chirichilli, Ursula Tuderti, Giuseppe Pugliese, Juan Carlos Chachques, Massimo Ricci, Federica Papetti, Andrea Marcantonio, Chiara Santo	Cardiospheres and tissue engineering for myocardial regeneration: potential for clinical application	ACC Atlanta, Georgia, World Congress Center, Sunday, March 14, 2010	A19.E181 JACC March 9, 2010 Volume 55, issue 10A
E10	Frati G	Cardiospheres and tissue engineering for myocardial regeneration: potential for clinical application	FEDERATION OF THE EUROPEAN ACADEMIES OF MEDICINE, FEAM SPRING CONFERENCE Bucharest, March 24- 26, 2010	Abs Books
F01	Chirichilli I, Santo C, Tuderti U, Ciacciarelli M, Papetti F, Peruzzi M, Marcantonio A, Ricci M, Pugliese G, Muzzi L, Frati G	Real Time 3D Echocardiographic evaluation of diastolic left ventricle dysfunction	The 6 th congress of update in cardiology and cardiovascular surgery-heart and health foundation of Turkey, april 15-18 2010, Izmir, Turkey	International Journal of Cardiology
F02	Rose D, Frati G	Cardiac regeneration approaches in heart surgery	Rome Cardiology Forum 2010 An ESC (Europ Soc Card) Update Programme in Cardiology Rome, Italy – May 12- 14, 2010	Abs books
F03	Frati G	Stem Cell-based regeneration medicine in cardiovascular diseases: from bench to bedside	“Medicina rigenerativa e Biotecnologie: una sfida per il futuro” 8 Febbraio 2011, Senato della Repubblica, Roma	Abs books
F04	Frati G	Conventional and molecular imaging in regenerative cardiac surgery	Risonanza Magnetica in Medicina: dalla ricerca tecnologica avanzata alla pratica clinica, ROMA 31 marzo – 1 aprile 2011	Abs books
F05	Frati G	Le cellule staminali nello scompenso cardiaco: tra aspettative e realtà	Dai fattori di rischio allo sviluppo di scompenso cardiaco: strategie di prevenzione e trattamento Ischia, 15-17 Aprile 2011	Abs books
F06	Frati G	Cardiac Stem Cells Imaging	Controversies in Cardiac Imaging, 5-6 Maggio 2011, Chianciano Terme, Siena, Italy	Abs books

F07	Frati G	Cellule staminali: a che punto siamo con la rigenerazione miocardica?	Come preservare e non disperdere il capitale del muscolo più importante, Roma 11 Giugno 2011	-----
F08	Frati G	The New Frontiers of Minimal Access: Stem cell therapy	1 st European Practical Course on Minimally Invasive and Video Assisted Mitral Surgery, Rome, July 7-8,2011	Abs books
F09	Frati G	Cardiochirurgia Mini – Invasiva	Caract 2011,13° congresso nazionale di aggiornamento in rianimazione e anestesia cardiotoracovascolare, Roma, 03/05 Novembre 2011	Abs books
F10	Cavarretta E., Frati G	Molecular imaging for Stem Cell Therapy	Multimodality Imaging and Decision Making in Cardiology, Rome, 14-15 June, 2012	Abs books
G01	Peruzzi M., Frati G	Overview sull'insufficienza cardiaca: Prospettive future con cellule staminali	Al Cuor non si comanda... Abbazia di Casamari Veroli (FR) 14-15 Settembre 2012	Abs books
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
G04	Frati G	Stem cell therapy in heart diseases	Forum Innovazioni Italia-Russia: Strategie Comuni per la cooperazione, gli investimenti e lo sviluppo, Roma, 13-14 Dicembre 2012	Abs books
G05	Cavarretta E,Casella G, Iossa,Peruzzi M,Dammaro C, Biondi-Zoccai G, Cali', Marullo A, Leonetti F, Basso N, Frati G	Cardiac remodeling and cardiovascular risk reduction in obese patients after laparoscopic sleeve gastrectomy	73° CONGRESSO NAZIONALE della Società Italiana di Cardiologia Roma, 15 – 17 dicembre 2012	Abs books

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 Disease: from basic research to clinical practice, Palermo, 17-20 settembre 2014	Abs books

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 Umapathi, 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
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 successful isolation of resident cardiac progenitor cells and affects their phenotype through EMT modulation	37° Congresso Nazionale della Società Italiana di Farmacologia (SIF), Napoli, 27-30 ottobre, 2015	Abs Books
I03	Frati G	Il Ricondizionamento degli organi per il Trapianto	RO Manestia, XII Incontro Romano di Cardioanestesia, Roma 26-27 Novembre 2015	Abs Books
I04	I. Chimenti, F. Pagano, E. Cavarretta, F. Angelini, M. Peruzzi, A. Barretta, E. Greco, E. De Falco, A.G.M. Marullo, S. Sciarretta, G. Biondi Zoccai, G. Frati	Beta-blocker treatment impacts on resident cardiac progenitors isolation and therapeutic features in cardiac surgery patients	ESC Congress 2016, Rome, August 27, 2016 - August 31, 2016	Abs Books

I05	Giordano A, Bedogni F, Corcione N, Ferraro P, Maresca G, Testa L, Pierli C, Stefanini G, Frati G , Biondi-Zoccai G	Impact of predilation before TAVI with five leading new-generation TAVI devices: early results from the RISPEVA Study	29th Annual Symposium on Transcatheter Cardiovascular Therapeutics (TCT), Denver, CO, OCT 29-NOV 02, 2017	JACC, Volume: 70 Issue: 18 Pages: B125-B125 Supplement: S Meeting Abstract: TCT-304
I06	Giordano A, Bedogni F, Corcione N, Ferraro P, Maresca G, Testa L, Pierli C, Stefanini G, Frati G , Biondi-Zoccai G	Comparative effectiveness and safety of five leading new-generation TAVI devices: early results from the RISPEVA Study	29th Annual Symposium on Transcatheter Cardiovascular Therapeutics (TCT), Denver, CO, OCT 29-NOV 02, 2017	JACC, Volume: 70 Issue: 18 Pages: B131-B131 Supplement: S Meeting Abstract: TCT-319
I07	Cavarretta E, De Fazi C, Frati G	Multidisciplinarietà nell'approccio al trattamento della dipendenza dal tabagismo	SpringMeeting 4-5 Maggio, 2018 Roma	Abs Book
I09	Frati G	Il Ricondizionamento D'organo	Revolution 1 Dicembre, 2018 Roma	Abs Book
I10	Frati G	Fumo: risposta infiammatoria e terapia personalizzata	16-17 Dicembre, 2019 Bologna	Abs book

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