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- **MATERIE DI RIFERIMENTO:** Human Anatomy
- **BIOGRAPHY:**

Si laurea nel 1999 in Medicina e Chirurgia presso l'Università Federico II di Napoli, nel 2002 conclude il Dottorato di ricerca in Morfologia Umana e Sperimentale all'Università degli Studi di Bari e nel 2005 termina la specializzazione in medicina dello Sport. Dal 2009 prende il via la sua carriera accademica.

ESPERIENZE RECENTI

- **Università Federico II di Napoli, Napoli > In corso**
Ricercatore Universitario nel settore scientifico-disciplinare BIO/16 (Anatomia Umana)
- **Università Federico II di Napoli, Napoli > 2006-2012**
Insegnamento Anatomia Umana, CdL in Farmacia. Pianificazione ed esecuzione di esperimenti in vivo e in vitro su cellule staminali cardiache umane. Supervisione e formazione di laureandi e dottorandi.
- **Università Federico II di Napoli, Napoli > 2016-2018**
Insegnamento Human Anatomy II, CdL in Medicina e Chirurgia in lingua inglese

PUBBLICAZIONI ACCADEMICHE

1. Bandiera P, Bucchieri F, Carpino G, Castaldo C, Cavaletti G, Conconi MT, Consalez G, Cremona O, Cusella De Angelis MG, De Luca A, **Di Meglio F**, Yung Follo M, Franchitto A, Giampà C, Manzoli L, Mazzone V, Morini S, Nurzynska D, Onori P, Papa M, Paternostro F, Raspanti M, Relucenti M, Rezzani R, Rizzi A, Rodella LF, Rumio C, Toesca A, Tortorella C, Vercelli A, Zecchi S. Anatomia Umana. Raccolta di quesiti a risposta

multipla per la verifica e l'autoverifica degli apprendimenti SSD BIO-16. Napoli: EdiSES, 2017.

2. Gobbi P, Castaldo C, **Di Meglio F**, Gesi M, Nori S, Nurzynska D, Rende M, Tayebati SK, Vercelli A, Drake RL, Vogl AW, Mitchell AWM - Anatomia del Gray - I fondamenti. [Gray's Basic Anatomy]. Milano, EDRA LSWR, 2015.

3. Montagnani S, Castaldo C, **Di Meglio F**, Nurzynska D. Lineamenti di Anatomia microscopica. [Basic Microscopic Anatomy]. Idelson-Gnocchi Editore, 2014.

4. Amenta F, Bianchi S, Brunetti A, Calderan L, Castaldo C, **Di Meglio F**, Fabene P, Ferrandino I, Guerra G, Grimaldi MC, Macchiarelli G, Montagnani S, Nottola SA, Nurzynska D, Rende M, Tafuri D, Tommaselli GA. Seeley - Vanputte - Regan - Russo Anatomia e cenni di Anatomia Microscopica, Istologia, Fisiologia. III edizione, Sorbona - Idelson-Gnocchi Editore, 2014.

5. Macchiarelli G, Montagnani S, Arcucci A, Bianchi S, Castaldo C, Cinelli MP, Continenza MA, **Di Meglio F**, Guerra G, Nottola SA, Nurzynska D, Spera R. Anatomia per le professioni sanitarie. Sorbona: Idelson-Gnocchi Editore, 2014.

6. Nurzynska D, **Di Meglio F**, Montagnani S, Castaldo C. Cardiac stem cells derived from epithelial-mesenchymal transition of epicardial cells: role in heart regeneration (method). In: Hayat MA (ed). Stem cells and cancer stem cells, vol. 5: therapeutic applications in disease and injury. New York: Springer, 2012: 109-115.

7. Nurzynska D, Castaldo C, Montagnani S, **Di Meglio F**. Cardiac progenitor and stem cell biology and therapy. In: Atala A (Ed.) Progenitor and stem cell technologies and therapies. Cambridge: Woodhead Publishing Limited, 2012:418-442.

8. Montagnani S., Tazzi A., Arcucci A., Bareggi R., **Di Meglio F.**, Gaeta E., Gioglio L., Guerra G., Valenza V., Verze' L., Viglietti Panzica C. Anatomia umana normale. In: Montagnani S., Tazzi A. Anatomia Umana Normale, Idelson-Gnocchi, 2007: p. 1-478.

9. Montagnani S, **Di Meglio F**, D'Anna M, Sciorio S, Castaldo C, Giordano-Lanza G. Le proteine della Matrice Extracellulare espresse nel miocardio durante lo sviluppo possono essere considerate un marcatore della rigenerazione cardiaca nell'adulto. In: Aldo Gerbino et al. Biomorfologia dello sviluppo. Salvatore Sciascia Editore, 2003: 65-75.

10. Montagnani S, **Di Meglio F**. Anatomia del pavimento pelvico e del perineo. In: Bove A, Balzano A. La Dissinergia del Pavimento Pelvico. MEDISERVE Srl, 2002: p. 3-14.

ARTICOLI IN RIVISTE SCIENTIFICHE:

1. **Di Meglio F**, Nurzynska D, Romano V, Miraglia R, Belviso I, Sacco AM, Barbato V, Di Gennaro M, Granato G, Maiello C, Montagnani S, Castaldo C. Optimization of Human Myocardium Decellularization Method for the Construction of Implantable Patches. Tissue Eng Part C Methods. 2017; doi: 10.1089/ten.TEC.2017.0267

2. Sirico F, Ricca F, **Di Meglio F**, Nurzynska D, Castaldo C, Spera R, Montagnani S. Local corticosteroid versus autologous blood injections in lateral epicondylitis: meta-analysis of randomized controlled trials. Eur J Phys Rehabil Med. 2017; 53(3):483-491

3. Pagano F, Angelini F, Castaldo C, Picchio V, Messina E, Sciarretta S, Maiello C, Biondi-Zoccai G, Frati G, **Di Meglio F**, 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.

4. Nappi F, Spadaccio C, Castaldo C, **Di Meglio F**, Nurzynska D, Montagnani S, Chello M, Acar C. Reinforcement of the pulmonary artery autograft with a polyglactin and polydioxanone mesh in the Ross operation: experimental study in growing lamb. J Heart Valve Dis. 2014;23(2):145-8

5. Chiono V, Mozetic P, Boffito M, Sartori S, Gioffredi E, Silvestri A, Rainer A, Giannitelli SM, Trombetta M, Nurzynska D, **Di Meglio F**, Castaldo C, Miraglia R, Montagnani S, Ciardelli G. Polyurethane-based scaffolds for myocardial tissue engineering. Interface Focus. 2014; 4(1):20130045

6. Castaldo C, **Di Meglio F**, Miraglia R, Sacco AM, Romano V, Bancone C, Della Corte A, Montagnani S, Nurzynska D. Cardiac fibroblast-derived extracellular matrix (biomatrix) as a model for the studies of cardiac primitive cell biological properties in normal and pathological adult human heart. Biomed Res Int. 2013; Epub 2013 May 2

7. Nurzynska D, Iruegas ME, Castaldo C, Müller-Best P, **Di Meglio F**. Application of biotechnology in myocardial regeneration-tissue engineering triad: cells, scaffolds, and signaling molecules. Biomed Res Int. 2013; Epub 2013 Feb 17

8. Nurzyska D, **Di Meglio F**, Romano V, Miraglia R, Sacco AM, Latino F, Bancone C, Della Corte A, Maiello C, Amarelli C, Montagnani S, Castaldo C. Cardiac primitive cells become committed to a cardiac fate in adult human heart with chronic ischemic disease but fail to acquire mature phenotype: genetic and phenotypic study. *Basic Res Cardiol.* 2013;108(1):320.
9. Nurzyska D, **Di Meglio F**, Castaldo C, Miraglia R, Romano V, Latino F, Guerra G, Brunese L, Montagnani S. Flatfoot in children: anatomy of decision making. *Ital J Anat Embryol.* 2012; 117(2):98-106
10. **Di Meglio F**, Nurzyska D, Castaldo C, Miraglia R, Romano V, De Angelis A, Piegari E, Russo S, Montagnani S. Cardiac shock wave therapy: assessment of safety and new insights into mechanisms of tissue regeneration. *J Cell Mol Med.* 2012;16(4):936-942.
11. **Di Meglio F**, Castaldo C, Nurzyska D, Miraglia R, Romano V, Russolillo V, Langella G, Vosa C, Montagnani S. Localization and origin of cardiac CD117-positive cells: identification of a population of epicardially-derived cells in adult human heart. *Ital J Anat Embryol.* 2010;115(1/2):71-78.
12. **Di Meglio F**, Castaldo C, Nurzyska D, Romano V, Miraglia R, Bancone C, Langella G, Vosa C, Montagnani S. Epithelial-mesenchymal transition of epicardial mesothelium is a source of cardiac CD117-positive stem cells in adult human heart. *J Mol Cell Cardiol.* 2010;49(5):719-727.
13. **Di Meglio F**, Castaldo C, Nurzyska D, Romano V, Miraglia R, Montagnani S. Epicardial cells are missing from the surface of the heart with ischemic cardiomyopathy - a useful clue about the self-renewal potential of adult human heart? *Int J Cardiol.* 2010; 145(2):e44-46.
14. Castaldo C, **Di Meglio F**, Nurzyska D, Romano G, Maiello C, Bancone C, Müller P, Böhm M, Cotrufo M, Montagnani S. CD117-positive cells in adult human heart are localized in the subepicardium and their activation is associated with laminin-1 and $\alpha 6$ integrin expression. *Stem Cells.* 2008;26(7):1723-1731.
15. Della Corte A, Quarto C, Bancone C, Castaldo C, **Di Meglio F**, Nurzyska D, De Santo LS, De Feo M, Scardone M, Montagnani S, Cotrufo M. Spatiotemporal patterns of smooth muscle cell changes in ascending aortic dilatation with bicuspid and tricuspid aortic valve stenosis: focus on cell-matrix signaling. *J Thorac Cardiovasc Surg.* 2008;135(1):8-18.

16. Nurzynska D, **Di Meglio F**, Castaldo C, Arcucci A, Marlingghaus E, Russo S, Corrado B, De Santo L, Baldascino F, Cotrufo M, Montagnani S. Shock waves activate in vitro cultured progenitors and precursors of cardiac cell lineages from human heart. *Ultrasound Med Biol.* 2008;34(2):334-42.
17. **Di Meglio F**, Nurzynska D, Castaldo C, Arcucci A, De Santo L, de Feo M, Cotrufo M, Montagnani S, Giordano-Lanza G. In vitro cultured progenitors and precursors of cardiac cell lineages from human normal and post-ischemic heart. *Eur J Histochem.* 2007;51(4):275-82.
18. **Di Meglio F**, Nurzynska D, Castaldo C, Russo S, Corrado B, Corrado EM, Montagnani S. Shock waves hit cardiac muscle: extracorporeal cardiac shock wave therapy proves safe and beneficial in patients with chronic ischemic heart disease. *ISMST Newslettter.* 2007;3(1):10-11.
19. Cotrufo M, De Santo L, Della Corte A, **Di Meglio F**, Guerra G, Quarto C, Vitale S, Castaldo C, Montagnani S. Basal lamina structural alterations in human asymmetric aneurismatic aorta. *Eur J Histochem.* 2005;49(4):363-70.
20. Cotrufo M, Della Corte A, De Santo LS, Quarto C, De Feo M, Romano G, Amarelli C, Scardone M, **Di Meglio F**, Guerra G, Scarano M, Vitale S, Castaldo C, Montagnani S. Different patterns of extracellular matrix protein expression in the convexity and the concavity of the dilated aorta with bicuspid aortic valve: preliminary results. *J Thorac Cardiovasc Surg.* 2005;130(2):504-11.
21. Postiglione L, Ladogana P, Montagnani S, di Spigna G, Castaldo C, Turano M, Bruno EM, **Di Meglio F**, Riccio A, Rossi G. Effect of granulocyte macrophage-colony stimulating factor on extracellular matrix deposition by dermal fibroblasts from patients with scleroderma. *J Rheumatol.* 2005;32(4):656-64.
22. Postiglione L, Di Domenico G, Ramaglia L, di Lauro AE, **Di Meglio F**, Montagnani S. Different titanium surfaces modulate the bone phenotype of SaOS-2 osteoblast-like cells. *Eur J Histochem.* 2004;48(3):213-22.
23. Postiglione L, Di Domenico G, Giordano-Lanza G, Ladogana P, Turano M, Castaldo C, **Di Meglio F**, Coccozza S, Montagnani S. Effect of human granulocyte macrophage-colony stimulating factor on differentiation and apoptosis of the human osteosarcoma cell line SaOS-2. *Eur J Histochem.* 2003;47(4):309-16.

24. Chimenti C, Kajstura J, Torella D, Urbanek K, Heleniak H, Colussi C, **Di Meglio F**, Nadal-Ginard B, Frustaci A, Leri A, Maseri A, Anversa P. Senescence and death of primitive cells and myocytes lead to premature cardiac aging and heart failure. *Circ Res.* 2003 Oct 3;93(7):604-13. Epub 2003 Sep 4.

25. Postiglione L, Di Domenico G, Ramaglia L, Montagnani S, Salzano S, **Di Meglio F**, Sbordone L, Vitale M, Rossi G. Behavior of SaOS-2 cells cultured on different titanium surfaces. *J Dent Res.* 2003;82(9):692-6.

26. Montagnani S, Castaldo C, **Di Meglio F**, Sciorio S, Giordano-Lanza G. Extra cellular matrix features in human meninges. *Ital J Anat Embryol.* 2000;105(3):167-77.

Elenco delle pubblicazioni su atti congressuali

PRESENTAZIONI A CONGRESSI NAZIONALI:

1. Romano V, **Di Meglio F**, Nurzynska D, Belviso I, Sacco AM, Di Gennaro M, Carfora A, Avagliano A, Greco L, Montagnani S, Castaldo C. Optimization Of Human Heart Decellularization Method For Cardiac Regenerative Medicine. 71st Meeting of the Italian Society of Anatomy and Histology. *Ital J Anat Embryol*, Vol. 122(1Suppl):184, 2017.

2. Cerrone A, Tuzi M, Postiglione A, Sirico F, **Di Meglio F**, Castaldo C, Montagnani S. Rectus femoris proximal insertion anatomy - analysis of the clinically relevant anatomy and variations. 71st Meeting of the Italian Society of Anatomy and Histology. *Ital J Anat Embryol*, Vol. 122(1Suppl):59, 2017.

3. Romano V, Carfora A, Miraglia R, Belviso I, Barbato V, Sacco AM, Granato G, Di Gennaro M, **Di Meglio F**, Castaldo C, Nurzynska D, Montagnani S. Positional memory of fibroblast may affect efficiency of iPSC reprogramming. 70° Congresso della Società Italiana di Anatomia e Istologia, 2016. *It J Anat Embryol*, Vol. 121, n.1 (Supplement): 171, 2016.

4. Mozetic P, Chiono V, Silvestri A, Boffito M, Gioffredi E, Di Rienzo AM, Sartori S, Giannitelli SM, Rainer A, Nurzynska D, Castaldo C, **Di Meglio F**, Ciardelli G, Trombetta M. Biomimetic Polyurethane Scaffolds for Myocardial Tissue Engineering. *Convegno dell'Associazione Italiana di Chimica per Ingegneria (AICIng 2014)*; 14-17 Settembre 2014; Lecce.

5. Chiono V, Sirianni P, Boffito M, Silvestri A, Sartori S, Gioffredi E, Mozetic P, Giannitelli SM, Rainer A, Nurzynska D, **Di Meglio F**, Miraglia R, Castaldo C, Ciardelli G. Polyurethane scaffolds coated with biomimetic proteins for myocardial regeneration. Tissue Engineering and Regenerative Medicine International Society European Chapter Meeting; 10-13 June 2014; Genova. J Tissue Eng Regen Med 2014;8(s1): PP309.
6. Chiono V, Silvestri A, Boffito M, Gioffredi E, Di Rienzo AM, Sartori S, Giannitelli S, Mozetic P, Rainer A, Nurzynska D, Castaldo C, **Di Meglio F**, Ciardelli G. Biomimetic Polyurethane Scaffolds for Myocardial Tissue Engineering. Congresso della Società Italiana Biomateriali; 3-5 Giugno 2013; Baveno.
7. Chiono V, Sartori S, Silvestri A, Boffito M, Rainer A, Mozetic P, Giannitelli S, Nurzynska D, **Di Meglio F**, Castaldo C, Ciardelli G. Smart biomimetic patches for myocardial repair. Recent advances in cardiac repair: from stem cells to biomaterials and small molecules; 20-21 Giugno 2013; Torino.
8. Montagnani S, Castaldo C, **Di Meglio F**, Romano V, Miraglia R, Sacco AM, Barbato V, Bancone C, Nurzynska D. Cardiac fibroblast-derived extracellular matrix as a model for the studies of cardiac primitive cells in normal and pathological adult human heart. 35th National Congress of the Italian Society of Histochemistry, S. Margherita di Pula, June 12-14, 2013
9. Chiono V, Silvestri A, Boffito M, Gioffredi E, Di Rienzo AM, Sartori S, Giannitelli S, Mozetic P, Rainer A, Nurzynska D, Castaldo C, **Di Meglio F**, Ciardelli G. Biomimetic Polyurethane Scaffolds for Myocardial Tissue Engineering. Congresso della Società Italiana Biomateriali, 3-5 Giugno 2013; Baveno (VB).
10. Sacco AM, Miraglia R, Romano V, Latino F, Castaldo C, **Di Meglio F**, Nurzynska D, Bancone C, Della Corte A, Amarelli C, Maiello C, Montagnani S. Le proprietà biologiche delle cellule cardiache primitive umane in condizioni normali e post-ischemiche dipendono dal microambiente: studio in vitro con biomatrice cardiaca naturale, 73° Congresso Nazionale della Società Italiana di Cardiologia; 15-17 Dicembre 2012; Roma.
11. Miraglia R, Sacco AM, Romano V, Latino F, **Di Meglio F**, Nurzynska D, Castaldo C, Bancone C, Amarelli C, Maiello C, Della Corte A, Montagnani S. Biological properties of cardiac stem cells in normal and pathological conditions - matrix makes a difference. 66o Congresso della Società Italiana di Anatomia e Istologia; 20-23 Settembre 2012; Pistoia. It J Anat Embryol 2012; 117, n.2 (Suppl), p. 127.

- 12.** Montagnani S, Castaldo C, **Di Meglio F**, Nurzynska D, Miraglia R, Romano V, Amatruda N, Tafuri D, Bancone C, Cotrufo M. Shock wave therapy promotes survival of cardiac stem cells in end-stage heart failure. 64o Congresso della Società Italiana di Anatomia e Istologia; 15-18 Settembre 2010; Taormina. *It J Anat Embryol.* 2010;115(1/2 suppl):116.
- 13.** Nurzynska D, **Di Meglio F**, Castaldo C, Romano V, Miraglia R, Amatruda N, Montagnani S. Cardiac primitive cells are generated by epithelial-mesenchymal transition in the adult human heart. LXIII Congresso della Società Italiana di Anatomia e Istologia; 10-12 Settembre 2009; Torino. *It J Anat Embryol.* 2009;114(suppl 1):165.
- 14.** Miraglia R, Romano V, Castaldo C, **Di Meglio F**, Nurzynska D, Amatruda N, Montagnani S. Microenvironment provides integrin-mediated signals that control stem cells survival and self-renewal. LXIII Congresso della Società Italiana di Anatomia e Istologia; 10-12 Settembre 2009; Torino. *It J Anat Embryol.* 2009;114(suppl 1):154.
- 15.** Romano V, Miraglia R, **Di Meglio F**, Nurzynska D, Castaldo C, Amatruda N, Montagnani S. Cardiac shock wave therapy: assessment of safety and new insights into the mechanisms of tissue regeneration. LXIII Congresso della Società Italiana di Anatomia e Istologia; 10-12 Settembre 2009; Torino. *It J Anat Embryol.* 2009;114(suppl 1):188.
- 16.** Montagnani S, Nurzynska D, **Di Meglio F**, Castaldo C, Romano V, Miraglia R, Amatruda N, Bancone C, Cotrufo M. Human epicardial cells: in vivo and in vitro morphological study of their fate in the normal and pathological heart. XXXIII Congresso della Società Italiana di Istochimica; 8-10 Giugno 2009; Roma. *Eur J Histochem.* 2009; 53(suppl 1):37.
- 17.** Nurzynska D, **Di Meglio F**, Castaldo C, Corrado B, Russo S, Montagnani S. Effetti del trattamento con onde d'urto su popolazioni cellulari da miocardio umano. IX Congresso della Società Italiana Terapia con Onde d'Urto; 23-24 Ottobre 2008; Torino.
- 18.** Nurzynska D, Romano V, Castaldo C, **Di Meglio F**, Miraglia R, Russolillo V, Vosa C, Montagnani S. Epicardial cells are missing from the surface of hearts with ischemic cardiomyopathy: a useful clue about the self-renewal potential of the adult human heart? LXII Congresso della Società Italiana di Anatomia e Istologia; 14-16 Settembre 2008; Verona. *It J Anat Embryol.* 2008; 113(suppl 1):212.
- 19.** Miraglia R, **Di Meglio F**, Romano V, Castaldo C, Nurzynska D, Vosa C, Russolillo V, Montagnani S. Influence of changes in extracellular matrix composition on biology of cardiac

primitive cells from human adult heart. LXII Congresso della Società Italiana di Anatomia e Istologia; 14-16 Settembre 2008; Verona. It J Anat Embryol. 2008; 113(suppl 1):199.

20. Di Meglio F, Nurzynska D, Castaldo C, Miraglia R, Maiello C, Romano G, Bancone C, Cotrufo M, Montagnani S. Evidence for epithelial-mesenchymal transition in the adult human epicardium in vitro: possible role in cardiac tissue regeneration. LXI Congresso della Società Italiana di Anatomia e Istologia; 12-22 Settembre 2007; Sassari. It J Anat Embryol. 2007; 112(suppl 2).

21. Montagnani S, Della Corte A, Castaldo C, **Di Meglio F**, Nurzynska D, Calabrese D, De Feo M, Arcucci A, Cotrufo M. Smooth muscle cell apoptosis in ascending aortic dilation with aortic valve stenosis: the role of cell-matrix interactions. XXXII Congresso della Società Italiana di Istochimica; 31 Maggio-2 Giugno 2007; Messina. Eur J Histochem. 2007;51(suppl 2):26.

22. Di Meglio F, Castaldo C, Nurzynska D, Arcucci A, Calabrese D, Mele V, Russo S, Romano G, Montagnani S. Cellular bases of new treatment options in the post-ischemic heart failure: the use of shock waves in the activation of myocardial regeneration. LX Congresso della Società Italiana di Anatomia e Istologia; 15-17 Settembre 2006; Pavia. It J Anat Embryol. 2006;111(suppl 2):83.

23. Castaldo C, **Di Meglio F**, Nurzynska D, Arcucci A, Mele V, Calabrese D, Della Corte A, Quarto C, Cotrufo M, Montagnani S. Vascular smooth muscle cells in the ascending aorta aneurysm undergo apoptosis related to the changes in the expression of extracellular matrix proteins. LX Congresso della Società Italiana di Anatomia e Istologia; 15-17 Settembre 2006; Pavia. It J Anat Embryol. 2006;111(suppl 2):53.

24. Di Meglio F, Nurzynska D, Castaldo C, Arcucci A, Mele V, Montagnani S, Giordano-Lanza G. Markers of differentiation of cells of cardiac lineages in the human heart in vitro. LIX Congresso della Società Italiana di Anatomia e Istologia; 18-21 Settembre 2005; Sorrento. It J Anat Embryol. 2005;110(suppl 1):92.

25. Esposito G, D'Armiento M, **Di Meglio F**, Vitale S, Guerra G, Montagnani S, Mele V, Nurzynska D, Castaldo C. Contractile proteins expression in developing human myocardium. XXXI Congresso della Società Italiana di Istochimica; 15-17 Giugno 2005; Pisa. Eur J Histochem. 2005;109(suppl 1):16.

PRESENTAZIONI A CONGRESSI INTERNAZIONALI:

1. Castaldo C, Nurzynska D, Romano V, Belviso I, Sacco AM, Carfora A, Di Gennaro M, Greco L, Schonauer F, Montagnani S, **Di Meglio F**. Decellularized human skin as biological scaffold for cardiovascular repair and regeneration. 28th Annual Conference of the European Society for Biomaterials (ESB), Athens, Greece, Sep 04-08, 2017.
2. **Di Meglio F**, Schonauer F, Nurzynska D, Romano V, Belviso I, Miraglia R, Granato G, Sacco A, Carfora A, Di Gennaro M, Barbato V, Montagnani S, Castaldo C. Relevance of Positional Memory of Fibroblasts in Reprogramming to Induced Pluripotent Stem Cells. 2016 TERMIS - Americas Conference & Exhibition. TISSUE ENGINEERING: Part A, Vol. 22 (Supplement 1): S-3, 2016.
3. Romano V, Miraglia R, **Di Meglio F**, Nurzynska D, Belviso I, Sacco A, Di Gennaro M, Barbato V, Granato G, Carfora A, Montagnani S, Castaldo C. Struggling to Prepare an Injectable Self-Assembling Human Cardiac Matrix and Facing Unexpected Failure. 2016 TERMIS - Americas Conference & Exhibition. TISSUE ENGINEERING: Part A, Vol. 22 (Supplement 1): S-47, 2016.
4. Belviso I, Castaldo C, Nurzynska D, Romano V, Miraglia R, Granato G, Sacco A, Carfora A, Greco L, Barbato V, Di Gennaro M, Montagnani S, **Di Meglio F**. Exosomes Delivered by Human Cardiac Primitive Cells Impact on Both Cardiac Cellular and Extracellular Compartment. 2016 TERMIS - Americas Conference & Exhibition. TISSUE ENGINEERING: Part A, Vol. 22 (Supplement 1): S-110, 2016.
5. Sacco A, **Di Meglio F**, Nurzynska D, Miraglia R, Romano V, Barbato V, Belviso I, Di Gennaro M, Granato G, Carfora A, Montagnani S, Castaldo C. Fibrin and Extracellular Matrix As in Vivo Self-Assembling Scaffold for Direct Delivery of Cardiac Primitive Cells. 2016 TERMIS - Americas Conference & Exhibition. TISSUE ENGINEERING: Part A, Vol. 22 (Supplement 1): S-120, 2016.
6. Nurzynska D, Castaldo C, **Di Meglio F**, Mozetic P, Giannitelli SM, Rainer A, Brancaccio M, Vitale N, Boffito M, Carmagnola I, Ciardelli G, Chiono V. Functionalised polyurethane scaffolds mimicking cardiac primitive cell niche microenvironment by additive manufacturing. 2016 TERMIS - EU Conference. European Cells and Materials, Vol. 31 (suppl.1): 162, 2016.
7. Castaldo C, **Di Meglio F**, Nurzynska D, Barbato V, Belviso I, Di Gennaro M, Romano V, Miraglia R, Sacco AM, Granato G, Montagnani S. Decellularized human cardiac extracellular matrix as a natural scaffold for stem cell-based cardiac engineering. 10th World Biomaterials

Congress, 2016. Front. Bioeng. Biotechnol. Conference Abstract: 10th World Biomaterials Congress, 2016. doi: 10.3389/conf.FBIOE.2016.01.00619.

8. Belviso I, Di Gennaro M, Romano V, Miraglia R, Barbato V, Sacco AM, Granato G, **Di Meglio F**, Nurzynska D, Montagnani S, Castaldo C. Identifying the ideal somatic cell for direct cardiac progenitor reprogramming. 15th World Stem Cell Summit 2015, Atlanta, GA, USA.

9. Castaldo C, Nurzynska D, Belviso I, Barbato V, Di Gennaro M, Romano V, Miraglia R, Sacco AM, Granato G, Montagnani S, **Di Meglio F**. Development of bioconstructs of human myocardium to enable cardiac regeneration. 15th World Stem Cell Summit 2015, Atlanta, GA, USA.

10. Nurzynska D, **Di Meglio F**, Sacco AM, Granato G, Belviso I, Barbato V, Di Gennaro M, Romano V, Miraglia R, Vitale M, Zambrano N, Scaloni A, Renzone G, Montagnani S, Castaldo C. In Vitro Produced Cardiac Extracellular Matrix for Studies of Myocardium Regeneration Potential. 4th TERMIS World Congress, 2015. TISSUE ENGINEERING: Part A Vol. 21, Supplement 1: S-77, 2015.

11. Chiono V, Boffito M, Sartori S, Gioffredi E, Massai D, Mozetic P, Giannitelli S, Rainer A, Trombetta M, Castaldo C, Nurzynska D, **Di Meglio F**, Miraglia R, Montagnani S, Vitale N, Tarone G, Ciardelli G. Biomimetic Polyurethane Scaffolds Guiding the In Vitro Behavior of Cardiac Stem Cells. 4th TERMIS World Congress, 2015. TISSUE ENGINEERING: Part A, Vol. 21 (Supplement 1): S-312, 2015.

12. **Di Meglio F**, Castaldo C, Nurzynska D, Sacco AM, Granato G, Miraglia R, Romano V, Barbato V, Belviso I, Montagnani S. Angiotensin II receptor antagonists and peroxisome proliferator-activated receptor agonists influence cardiac stem cell biology and stem cell-mediated regeneration of myocardium. 5th International Congress on Stem Cells and Tissue Formation; 8-11 July 2014, Dresden (Germany).

13. Nurzynska D, **Di Meglio F**, Sacco AM, Granato G, Miraglia R, Romano V, Barbato V, Belviso I, Montagnani S, Castaldo C. Activity of cardiac fibroblasts and modification of extracellular matrix in chronic ischemic heart disease influence in a specific manner biological properties of normal and pathological cardiac stem cells. 5th International Congress on Stem Cells and Tissue Formation; 8-11 July 2014, Dresden (Germany).

14. Castaldo C, **Di Meglio F**, Miraglia R, Romano V, Sacco AM, Granato G, Barbato V, Belviso I, Montagnani S, Chiono V, Sartori S, Gioffredi E, Boffito M, Mozetic P, Rainer A, Giannitelli SM,

Vitale N, Tarone G, Nurzynska D. Biological properties of cardiac primitive cells seeded on biocompatible polyurethane scaffolds functionalized with laminin-1 for myocardial regeneration. 5th International Congress on Stem Cells and Tissue Formation. 5th International Congress on Stem Cells and Tissue Formation; 8-11 July 2014, Dresden (Germany).

15. Chiono V, Sartori S, Silvestri A, Boffito M, Gioffredi E, Mozetic P, Rainer A, Giannitelli S, Nurzynska D, **Di Meglio F**, Castaldo C, Ciardelli G. Polyurethane-based scaffolds mimicking cardiac progenitor cells niche microenvironment. 12th International PAT Conference; 29 September-2 October 2013, Berlin (Germany); Polymers for Advanced Technologies 2013; 24(Suppl 1):49.

16. Nappi F, Spadaccio C, **Di Meglio F**, Montagnani S, Chello M, Covino E, Acar C. Bioresorbable external reinforcement induces histological rearrangement of pulmonary autograft in a experimental model of Ross operation. 7th Biennial Congress of Society for Heart Valve Disease & Heart Valve Society of America. 22-25 June 2013 Venice (Italy)

17. Chiono V, Sartori S, Silvestri A, Boffito M, Di Rienzo A.M, Mozetic P, Rainer A, Giannitelli S, Nurzynska D, **Di Meglio F**, Castaldo C, Bernard E, Ciardelli G. An innovative approach for the design of biomimetic scaffolds for myocardial regeneration. European Materials Research Society (E-MRS) Spring Meeting, 27-31 May 2013, Strasbourg (France).

18. Nurzynska D, **Di Meglio F**, Castaldo C, Romano V, Miraglia R, Palma G, Vosa C, Montagnani S. Cardiac stem cells in adult human heart originate from epithelial-mesenchymal transition of epicardial mesothelium. American Heart Association Scientific Sessions; 13-17 November 2010, Chicago (IL, USA). Circulation. 2010;122(21 suppl): A18992.

19. **Di Meglio F**, Castaldo C, Nurzynska D, Miraglia R, Romano V, Amatruda N, Banccone C, Cotrufo M, Montagnani S. Adult Human Cardiac Stem Cells Become Readily Committed in Pathological Conditions - Phenotypic and Genetic Evidence. American Heart Association Scientific Sessions; 13-17 November 2010, Chicago (IL, USA). Circulation. 2010;122(21 suppl): A19173.

20. Castaldo C, Nurzynska D, **Di Meglio F**, Miraglia R, Romano V, Banccone C, Cotrufo M, Montagnani S. Extracellular Matrix Derived from Cardiac Fibroblasts Is the Optimal Substrate for Expansion of Cardiac Stem Cells Ex Vivo. American Heart Association Scientific Sessions; 13-17 November 2010, Chicago (IL, USA). Circulation. 2010;122(21 suppl): A19123.

21. Di Meglio F, Nurzynska D, Castaldo C, Romano V, Miraglia R, Amatruda N, Bancone C, Russolillo V, Langella G, Montagnani S. Epicardium-derived cells and CD117-positive cells in the adult human heart: common origin through epithelial-mesenchymal transition. European Society of Cardiology Congress; 29 August-2 September 2009; Barcelona (Spain). Eur Heart J. 2009;30(Abtract Suppl):495.

22. Di Meglio F, Nurzynska D, Castaldo C, Miraglia R, Romano V, Bancone C, Marlinghaus E, Russo S, Vosa C, Montagnani S. Timing and energy of the extracorporeal cardiac shock wave treatment have profound influence on the outcome of therapy in ischemic heart disease. European Society of Cardiology Congress; 29 August-2 September 2009; Barcelona (Spain). Eur Heart J. 2009;30(Abtract Suppl):472.

23. Di Meglio F, Castaldo C, Nurzynska D, Miraglia R, Romano V, Bancone C, Langella G, Vosa C, Montagnani S. Regenerative potential of adult human cardiac primitive cells is influenced by chronic pathological conditions: a phenotypic and genetic study. European Society of Cardiology Congress; 29 August-2 September 2009; Barcelona (Spain). Eur Heart J. 2009;30(Abtract Suppl):499.

24. Nurzynska D, **Di Meglio F**, Castaldo C, Romano V, Miraglia R, Marina L, Piegari E, De Angelis A, Bancone C, Montagnani S. Doxorubicin causes depletion of cardiac primitive cell pool that may add to the mechanisms of doxorubicin-mediated delayed cardiotoxicity. European Society of Cardiology Congress; 29 August-2 September 2009; Barcelona (Spain). Eur Heart J. 2009;30(Abtract Suppl):496.

25. Nurzynska D, Castaldo C, **Di Meglio F**, Miraglia R, Romano G, Maiello C, Mele V, Montagnani S. Interaction of alpha-6 integrin with laminin-1 is essential for cardiac regeneration mediated by cardiac primitive cells. European Society of Cardiology Congress; 30 August-3 September 2008; Munich (Germany). Eur Heart J. 2008;29(Abtract Suppl):368.

26. Castaldo C, Nurzynska D, **Di Meglio F**, Miraglia R, Romano V, Bancone C, Romano G, Montagnani S. The fate of cardiac primitive cells depends on the composition of the microenvironment changing in the pathological conditions. European Society of Cardiology Congress; 30 August-3 September 2008; Munich (Germany). Eur Heart J. 2008;29(Abtract Suppl):526.

27. Di Meglio F, Nurzynska D, Castaldo C, De Angelis A, Piegari A, Miraglia R, Bancone C, Montagnani S. Doxorubicin-associated late developing cardiomyopathy may be related to the depletion of cardiac primitive cells pool in the adult human heart. European Society of

Cardiology Congress; 30 August-3 September 2008; Munich (Germany). Eur Heart J. 2008;29(Abtract Suppl):362.

28. Nurzynska D, **Di Meglio F**, Castaldo C, Miraglia R, Romano V, Bancone C, Amarelli C, Mele V, Montagnani S. Role of laminin-1 and laminin-2 signalling mediated by $\alpha 6$ integrin in the CD117(+) cardiac primitive cells proliferation, survival and migration. International Federation of Societies for Histochemistry and Cytochemistry Congress; 23-27 August 2008; Gdansk (Poland). Folia Histochemica et Cytobiologica. 2008;46(Suppl.2):S85.

29. **Di Meglio F**, Miraglia R, Nurzynska D, Castaldo C, Romano V, Bancone C, Romano G, Montagnani S. Extracellular matrix composition determines proliferation and survival of cardiac primitive CD117-positive cells. International Federation of Societies for Histochemistry and Cytochemistry Congress; 23-27 August 2008; Gdansk (Poland). Folia Histochemica et Cytobiologica. 2008;46(Suppl.2):S84.

30. Castaldo C, **Di Meglio F**, Romano V, Nurzynska D, Piegari A, De Angelis A, Miraglia R, Bancone C, Romano G, Montagnani S. Distribution of cardiac primitive cells with epithelial and mesenchymal markers expression: identification of a population of epicardially derived cells in the adult human heart. International Federation of Societies for Histochemistry and Cytochemistry Congress; 23-27 August 2008; Gdansk (Poland). Folia Histochemica et Cytobiologica. 2008;46(Suppl.2):S84.

31. Castaldo C, Nurzynska D, **Di Meglio F**, Miraglia R, Bancone C, Romano G, Montagnani S. Epithelial-mesenchymal transition of epicardial cells requires specific signals from microenvironment and constitutes the source of cardiac primitive cells in the adult human heart. European Society of Cardiology Congress; 1-5 September 2007; Vienna (Austria). Eur Heart J. 2007;28(Abtract Suppl):223.

32. Nurzynska D, Castaldo C, **Di Meglio F**, Müller P, De Santo L, Bancone C, Amarelli C, Montagnani S. Subepicardium of the adult human heart hosts CD117 positive cells that undergo activation in the presence of laminin-1. European Society of Cardiology Congress; 1-5 September 2007; Vienna (Austria). Eur Heart J. 2007;28(Abtract Suppl):231.

33. Della Corte A, Quarto C, Castaldo C, **Di Meglio F**, Nurzynska D, De Santo LS, De Feo M, Scardone M, Montagnani S, Cotrufo M. New Insights in the Mechanisms of Smooth Muscle Cell Apoptosis in Ascending Aortic Dilatation with Bicuspid and Tricuspid Aortic Valve Stenosis: Possible Key-Role of Cell-Matrix Interactions. 87th Annual Meeting of The American Association for Thoracic Surgery; 5-9 May 2007; Washington (D.C., USA).

- 34.** Nurzynska D, **Di Meglio F**, Castaldo C, Arcucci A, De Santo L, Cotrufo M, Montagnani S. Adult human cardiac c-kit positive cells undergo activation in the chronic pathological conditions. World Congress of Cardiology; 2-6 September 2006; Barcelona (Spain). Eur Heart J. 2006;27(Abtract Suppl):552.
- 35.** **Di Meglio F**, Nurzynska D, Castaldo C, Arcucci A, Marlinghaus E, Russo S, Montagnani S. Shock waves treatment induces differentiation of cardiac primitive cells in vitro. World Congress of Cardiology; 2-6 September 2006; Barcelona (Spain). Eur Heart J. 2006;27(Abtract Suppl):163.
- 36.** Castaldo C, Nurzynska D, **Di Meglio F**, Vitale S, Cesselli D, Beltrami A.P, Mueller P, Montagnani S. Epicardium contains a population of c-kit positive cells that may contribute to myocardial regeneration. European Society of Cardiology Congress; 3-7 September 2005; Stockholm (Sweden). Eur Heart J. 2005;26(Abtract Suppl): 213.
- 37.** Giordano-Lanza G, Castaldo C, **Di Meglio F**, Vitale S, D'Armiento M, Montagnani S: Laminin involvement in cardiomyocyte progenitor cells migration and differentiation. 16th International Congress of the International Federation of Associations of Anatomists; 22-27 August 2004; Kyoto, (Japan). Anat Sci Int, 2004; 79 (suppl): O-024.
- 38.** **Di Meglio F**, Castaldo C, Guerra G, De Santo L, Montagnani S: In vitro interactions of human cardiac cell populations. XII International Congress of Histochemistry and Cytochemistry; 24-29 July 2004; San Diego, CA (USA). J Histochem Cytochem, 2004; 52 (suppl. 1): S44.
- 39.** Castaldo C, **Di Meglio F**, Vitale S, D'Armiento M, Giordano-Lanza G, Montagnani S: Laminin involvement in cardiac progenitor cells migration and differentiation. XII International Congress of Histochemistry and Cytochemistry; 24-29 July 2004; San Diego, CA (USA). J Histochem Cytochem, 2004; 52 (suppl. 1): S43.
- 40.** Castaldo C, Müller P, **Di Meglio F**, Zias E, Heleniak H, Baker M, Beltrami CA, Sonnenblick EH, Rastaldo R, Urbanek K, Kajstura J: Effects of Aging on Cardiac Cell Number, Growth, Senescence and Death. American Heart Association Meeting, 9-12 November 2003; Orlando, FL, (USA); Circulation, 2003; 108 (suppl. IV): 246.
- 41.** Torella D, Nurzynska D, Colussi C, **Di Meglio F**, Walsh K, Rosenzweig A, Nadal-Ginard B, Kajstura J, Sussman M, Anversa P, Leri A. Nuclear Targeting of Protein Kinase B Enhances

Telomerase Activity in Cardiomyocytes. American Heart Association Scientific Sessions; 9-12 November 2003; Orlando (FL, USA). Circulation. 2003;108(17) suppl: IV-288.

42. Castaldo C, Montagnani S, **Di Meglio F**, Sciorio S, Giordano-Lanza G: ExtraCellular Matrix features during development of human meninges. XI Intern. Congress of Histochemistry and Cytochemistry, September 2000; York (UK).