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

Si laurea in Medicina e Chirurgia all'Università Federico II di Napoli nel 1998, nel 2003 si specializza in Medicina dello Sport. Nel 2014 segue il laboratorio Plastination Workshop Silicon S-10 Standard Method presso Institute of Pathology, Clinic Schwabing, Munich Municipal Hospital Group di Monaco (Germania)

ESPERIENZE RECENTI

- **Università Federico II di Napoli, Napoli > In corso**
Ricercatore Universitario nel settore scientifico-disciplinare BIO/16 (Anatomia Umana)
- **Weill Cornell Medical College, Dept. of Neurological Surgery, Microneurosurgery Skull Base Lab, Cornell University, New York, NY (USA) > 2016**
Supervisione e formazione di specializzandi e Research Fellow di Neurochirurgia
- **Università Federico II di Napoli, Napoli > 2005-2012**
Insegnamento di Anatomia Umana. Pianificazione ed esecuzione di esperimenti in vivo e in vitro su cellule staminali cardiache umane. Supervisione e formazione di laureandi e dottorandi

PUBBLICAZIONI ACCADEMICHE

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, Meglio FD, Nurzynska D, Chimenti I. Normal versus Pathological Cardiac Fibroblast-Derived Extracellular Matrix Differentially Modulates Cardiosphere-Derived Cell Paracrine Properties and Commitment. *Stem Cells Int*. 2017; 2017:7396462.
4. Puzzo D, Raiteri R, **Castaldo C**, Capasso R, Pagano E, Tedesco M, Gulisano W, Drozd L, Lippiello P, Palmeri A, Scotto P, Miniaci MC. CL316,243, a β 3-adrenergic receptor agonist, induces muscle hypertrophy and increased strength. *Sci Rep*. 2016; 5:37504
5. Nappi F, Fraldi M, Spadaccio C, Carotenuto AR, Montagnani S, **Castaldo C**, Chachques JC, Acar C. Biomechanics drive histological wall remodeling of neo-aortic root: A mathematical model to study the expression levels of ki 67, metalloprotease, and apoptosis transition. *J Biomed Mater Res A*. 2016;104(11):2785-93
6. 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
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8. Postiglione L, De Santo L, Di Spigna G, **Castaldo C**, Guerra G, Ladogana P, Arcucci A, Calabrese D, Covelli B, Vitale S, Mele V, Montagnani

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World J Cardiovasc Dis. 2013, 3:91-9.

9. Locci M, Nazzaro G, Miranda M, Salzano E, Montagnani S, **Castaldo C**, De Placido G. Vaginal lactoferrin in asymptomatic patients at low risk for pre-term labour for shortened cervix: Cervical length and interleukin-6 changes. J Obstet Gynaecol. 2013, 33(2):144-8.

10. **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, 2013:352370.

11. 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, 2013:236893.

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14. Di Meglio F, Nurzynska 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.

15. Di Meglio F, **Castaldo C**, Nurzynska 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.

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- 17.** Di Meglio F, **Castaldo C**, Nurzynska 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.
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- 19.** Della Corte A, Quarto C, Bancone C, **Castaldo C**, Di Meglio F, Nurzynska 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.
- 20.** 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.
- 21.** 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.
- 22.** 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 Newsletter*, 2007; 3 (1): 10-11.
- 23.** Postiglione L, Montagnani S, Ladogana P, **Castaldo C**, Di Spigna G, Bruno EM, Turano M, De Santo L, Cudemo G, Coccozza S, de Divitiis O, Rossi G.: Granulocyte Macrophage-Colony Stimulating Factor receptor expression on human cardiomyocytes from end-stage heart failure patients. *Eur J Heart Fail*, 2006 Oct; 8 (6): 564-70.

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- 26.** Linke A, Müller P, Nurzynska D, Casarsa C, Torella D, Nascimbene A, **Castaldo C**, Cascapera S, Bohm M, Quaini F, Urbanek K, Leri A, Hintze T.H, Kajstura J, Anversa P: Stem cells in the dog heart are self-renewing, clonogenic, and multipotent and regenerate infarcted myocardium, improving cardiac function. *Proc Natl Acad Sci USA*, 2005; 102 (25): 8966-8971.
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ABSTRACT E 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.

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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.

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13. 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).

14. 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).

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. 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).

17. Di Meglio F, **Castaldo C**, Nurzynska D, Miraglia R, Romano V, Amatruda N, Bancone 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; Chicago (IL, USA). Circulation 2010; 122 (21 suppl): A19173.

18. **Castaldo C**, Nurzynska D, Di Meglio F, Miraglia R, Romano V, Bancone 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; Chicago (IL, USA). Circulation 2010; 122 (21 suppl): A19123.

19. 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; Chicago (IL, USA). Circulation 2010; 122 (21 suppl): A18992.

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