

CURRICULUM VITAE

Stefano Castellani

PERSONAL INFORMATION

- **Name** : Stefano Castellani
- **Date of Birth** : December 30, 1977
- **Place of Birth** : Casarano (Lecce), Italy
- **Phone** : + 39 320 2713230
- **E-Mail** : stefano.castellani@uniba.it

Present position : Associate Professor in General Pathology at the University of Bari (MED/04)
– Department of Biomedical Sciences and human Oncology

EDUCATION

- 2005 – 2007 **PhD in Pediatric Therapy and Development Pharmacology**, University of Cagliari (Italy) ; project concerning the evaluation of efficiency , efficacy and safety of lentiviral vectors in CFTR gene transfer in respiratory epithelial models in cystic fibrosis developed at Institute for Experimental Treatment of Cystic Fibrosis directed by Prof. Massimo Conese, **H.S. Raffaele**, Milan; Tutor : Prof. Carla Colombo
- 1995 -2001
Degree in Pharmaceutical Biotechnology , University of Bologna , (110/110)
- 1990 -1995
Maturità scientifica (leaving certificate) , Liceo Scientifico G. Vanini (High School) , Casarano (Lecce)

Work Experiences

- May 2020 – present : Assistant Professor in General Pathology at the University of Bari (MED/04) – Department of Biomedical Sciences and human Oncology
- September 2015- August 2018 : Fixed-term Assistant Professor in General Pathology at the University of Foggia – Department of Medical and Surgical Sciences; project : Principal investigator of the project : “Delivery of natural anti-oxidants to the lung by paramagnetic nanoparticles for the treatment of respiratory chronic diseases” in the Futureinresearch program (Apulia region).

- March 2015 - June 2015 : Term contract (co.co.co.) at the University of Foggia , Department of Medical and Surgical Sciences, General Pathology Laboratory directed by Prof. Massimo Conese, project PRIN 20109PLMH2 concerning “Study of delivery systems for Nucleic Acid Based Drugs for inflammatory diseases” (Principal investigator : Dr. Sante Di Gioia)
- July 2013 – November 2014 : Term contract (co.co.co.) at the University of Foggia , Department of Medical and Surgical Sciences, General Pathology Laboratory directed by Prof. Massimo Conese, project PRIN 20109PLMH2 concerning “Study of delivery systems for Nucleic Acid Based Drugs for inflammatory diseases” (Principal investigator : Dr. Sante Di Gioia)
- October 2010 – August 2012 : Term contract (co.co.co.) at the University of Foggia , Biomedical Sciences Department, General Pathology Laboratory directed by Prof. Massimo Conese (Funded by “Regione Puglia”)
- December 2008 – July 2010 : Recipient of two fellowships funded by “Fondazione per la Ricerca sulla Fibrosi Cistica Onlus” (Verona) working at the University of Foggia , Biomedical Sciences Department, General Pathology Laboratory directed by Prof. Massimo Conese, concerning : “Cellular and molecular mechanism of the actin cytoskeleton involvement in the NHERF-1 dependent rescue of deltaF508 CFTR in human airways cells” (progetto FFC 2007#2) and “Interactome in Cystic Fibrosis: role of NHERF1 in actin cytoskeleton and tight junction pathophysiology”(progetto FFC#1/2009)
- December 2007 – November 2008 Term contract (co.co.co.) at the University of Foggia , Biomedical Sciences Department, General Pathology Laboratory directed by Prof. Massimo Conese, concerning the :“Alteration of junctional organization and actin cytoskeleton in human respiratory epithelium : role of inflammation in cystic fibrosis” (PRIN 2006)
- July 2005-November 2007: PhD thesis at Institute for Experimental Treatment of Cystic Fibrosis (H.S.Raffaele), Milan. Title of the project: “Evaluation of efficiency, efficacy and safety of CFTR-gene delivery mediated by lentivirus vectors in model system of cystic fibrosis airway epithelium”.
- February 2004 - June 2005: Recipient of a fellowship at Institute for Experimental Treatment of Cystic Fibrosis, (H.S.Raffaele, Milan), project funded by “Fondazione per la Ricerca sulla Fibrosi Cistica (Verona) e dall’Associazione Lombarda Fibrosi Cistica”. Type of the project “Evaluation of efficiency, efficacy and safety of CFTR-gene delivery mediated by lentivirus vectors in model system of cystic fibrosis airway epithelium”.
- April 2002 - January 2004: Recipient of fellowships at “Ospedale Maggiore- I.R.C.C.S.” Milan, Italy. Type of the project: “role of MMSET gene in multiple myeloma”
- September 2000 - November 2001: Thesist at Department of Human Anatomy – University of Bologna, Italy ; Type of the project: Phospholypase C isoforms characterization

Fields of Interest

2002-2003 Molecular Oncology of Multiple Myeloma

Study of MMSET gene role (multiple myeloma SET domain) involved in t(4;14) translocation associated with multiple myeloma, by cloning, immunofluorescence and luciferase assay techniques

2004-2007 Viral vectors for gene therapy of cystic fibrosis

- Large scale production of HIV-1 derived lentiviral vectors for gene therapy of cystic fibrosis.
- Evaluation of lentiviral vectors efficiency and toxicity in polarized respiratory epithelium, by flow cytometry and Real Time PCR.
- Application of Magnetofection as new technique to improve therapeutic efficacy of lentiviral vectors in vitro : evaluation of efficiency, toxicity and effects on epithelial tight junctions.
- Down-regulation of epithelial sodium channel ENaC with shRNA vehiculated by lentiviral vectors

2008-2011 Physiopathology of epithelial respiratory cells in cystic fibrosis

- Study of inter-relationships between PDZ domains proteins [CFTR (Cystic Fibrosis Transmembrane Conductance Regulator) and NHERF1 (Na⁺/H⁺ exchanger regulator factor 1)] in regulating tight junctions organization and actin cytoskeleton by confocal microscopy techniques.

2010- 2011 Cell therapy of cystic fibrosis by using human mesenchymal stem cells (hMSCs).

2012 - 2014 - Study of the role of epithelium Na⁺ channel (ENaC) in cystic fibrosis and cystic fibrosis-like diseases and screening of novel therapeutical inhibitors of ENaC

2012- 2013 – Study of the levels of colony stimulating factors in healthy people and cystic fibrosis patients

2013-present - Identificazione di sistemi di rilascio ottimali per i Nucleic Acid Based Drugs e studio dei meccanismi d'azione in alcuni modelli di patologie umane infiammatorie e tumorali (progetto PRIN 20109PLMH2)

2015- 2018 : Delivery of natural anti-oxidants to the lung by paramagnetic nanoparticles for the treatment of respiratory chronic diseases (Futureinresearch project)

Publications

- **Castellani S**, D’Oria S, Diana A, Polizzi AM, Di Gioia S, Mariggìo MA, Guerra L, Favia M, Vinella A, Leonetti G, De Venuto D, Gallo C, Montemurro P, Conese M. G-CSF AND GM-CSF MODIFY NEUTROPHIL FUNCTIONS AT CONCENTRATIONS FOUND IN CYSTIC FIBROSIS. (2019) Scientific Reports Sep 10;9(1):12937. doi: 10.1038/s41598-019-49419-z.
- Maria Matteo, Elisa Beccia, Annalucia Carbone, **Stefano Castellani**, Lucio Milillo, Dorina Lauritano, Sante Di Gioia, Antonella Angiolillo, Massimo Conese (2019). Effect of Mother’s Age and Pathology on Functional Behavior of Amniotic Mesenchymal Stromal Cells—Hints for Bone Regeneration – APPLIED SCIENCES 22 Aug 2019
- Musante I, Scudieri P, Venturini A, Guidone D, Caci E, **Castellani S**, Conese M, Galiotta LJV. Peripheral localization of the epithelial sodium channel in the apical membrane of bronchial epithelial cells. EXP PHYSIOL. 2019 Jun;104(6):866-875. doi: 10.1113/EP087590. Epub 2019 Apr 8.
- **Castellani S**, Di Gioia S, di Toma L, Conese M. Human Cellular Models for the Investigation of Lung Inflammation and Mucus Production in Cystic Fibrosis. ANAL CELL PATHOL (AMST). 2018 Nov 15;2018:3839803. doi: 10.1155/2018/3839803. eCollection 2018.
- **Castellani S**, Trapani A, Spagnoletta A, di Toma L, Magrone T, Di Gioia S, Mandracchia D, Trapani G, Jirillo E, Conese M. (2018). Nanoparticle delivery of grape seed-derived proanthocyanidins to airway epithelial cells dampens oxidative stress and inflammation. JOURNAL OF TRANSLATIONAL MEDICINE, vol. 16, p. 140, ISSN: 1479-5876, doi: 10.1186/s12967-018-1509-4
- Davide De Rocco, Barbara Pompili, **Stefano Castellani**, Elena Morini, Luca Cavinato, Giuseppe Cimmino, Maria A Mariggìo, Simone Guarnieri, Massimo Conese, Paola Del Porto, Fiorentina Ascenzioni (2018). Assembly and Functional Analysis of an S-MAR Based Episome with the Cystic Fibrosis Transmembrane Conductance Regulator Gene. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, vol. 19, ISSN: 1661-6596, doi: 10.3390/ijms19041220
- Annalucia Carbone, Roberto Zefferino, Elisa Beccia, Valeria Casavola, **Stefano Castellani**, Sante Di Gioia, Valentina Giannone, Manuela Seia, Antonella Angiolillo, Carla Colombo, Maria Favia, and Massimo Conese (2018). Gap Junctions Are Involved In The Rescue Of CFTR-Dependent Chloride Efflux By Amniotic Mesenchymal Stem Cells In Co-Culture With Cystic Fibrosis Cfbe41o- Cells. STEM CELLS INTERNATIONAL, vol. 1203717, ISSN: 1687-9678, doi: 10.1155/2018/1203717
- Di Gioia S, di Toma L, **Castellani S**, Conese M (2018). Inflammatory Response in Acute Lung Injury: A Comparison between Intratracheal and Intubation Administration of P. Aeruginosa

- De Leo V, Ruscigno S, Trapani A, Di Gioia S, Milano F, Mandracchia D, Comparelli R, **Castellani S**, Agostiano A, Trapani G, Catucci L, Conese M. (2018). Preparation of drug-loaded small unilamellar liposomes and evaluation of their potential for the treatment of chronic respiratory diseases. INTERNATIONAL JOURNAL OF PHARMACEUTICS, ISSN: 0378-5173, doi: 10.1016/j.ijpharm.2018.04.030
- Conese M, Beccia E, Carbone A, **Castellani S** et al. (2018) The role of stem cells in cystic fibrosis disease modeling and drug discovery. EXPERT OPINION ON ORPHAN DRUGS Volume 6, 2018 - Issue 12
- Conese M, Beccia E, **Castellani S**, Di Gioia S, Colombo C, Angiolillo A, Carbone A (2018). The long and winding road: stem cells for cystic fibrosis. EXPERT OPINION ON BIOLOGICAL THERAPY, vol. 18, p. 281-292, ISSN: 1471-2598, doi: 10.1080/14712598.2018.1413087
- Conese Massimo, Tirelli Silvia Amedea, Alicandro Gianfranco, Gioia Sante Di, Carbone Annalucia, **Castellani Stefano**, Colombo Carla, Di Gioia S. (2017). Biomarkers of Inflammation and Remodelling in Cystic Fibrosis. CLINICAL IMMUNOLOGY, ENDOCRINE & METABOLIC DRUGS, vol. 3, p. 92-108, ISSN: 2212-7070, doi: 10.2174/2212707004666170502171110
- Guerra Lorenzo, D'Oria Susanna, Favia Maria, **Castellani Stefano**, Santostasi Teresa, Polizzi Angela M., Marigliò Maria A., Gallo Crescenzo, Casavola Valeria, Montemurro Pasqualina, Leonetti Giuseppina, Manca Antonio, Conese Massimo (2017). CFTR-dependent chloride efflux incystic fibrosis mononuclear cellsis increased by ivacaftor therapy. PEDIATRIC PULMONOLOGY, ISSN: 8755-6863, doi: 10.1002/ppul.23712
- **Castellani S**, Favia M, Guerra L, Carbone A, Abbattiscianni Ac, Di Gioia S, Casavola V, Conese M. (2017). Emerging relationship between CFTR, actin and tight junction organization in cystic fibrosis airway epithelium.. HISTOLOGY AND HISTOPATHOLOGY, vol. 32, p. 445-459, ISSN: 0213-3911, doi: 10.14670/HH-11-842
- Di Gioia S., Sardo C., **Castellani S.**, Porsio B., Belgiovine G., Carbone A., Giammona G., Cavallaro G., Conese M. (2017). From genesis to revelation: The role of inflammatory mediators in chronic respiratory diseases and their control by nucleic acid-based drugs. CURRENT DRUG DELIVERY, vol. 14, p. 253-271, ISSN: 1567-2018, doi: 10.2174/1567201813666160824142843
- Liso Arcangelo, **Castellani Stefano**, Massenzio Francesca, Trotta Rosa, Pucciarini Alessandra, Bigerna Barbara, De Luca Pasquale, Zoppoli Pietro, Castiglione Filippo, Palumbo Maria Concetta, Stracci Fabrizio, Landriscina Matteo, Specchia Giorgina, Bach Leon A, Conese Massimo, Falini Brunangelo (2017). Human monocyte-derived dendritic cells exposed to hyperthermia show a distinct gene expression profile and selective upregulation of IGFBP6. ONCOTARGET, ISSN: 1949-2553, doi: 10.18632/oncotarget.18338
- CONESE, MASSIMO, Susanna, D'Oria, **CASTELLANI, STEFANO**, TROTTA, ROSA, Pasqualina, Montemurro, LISO, ARCANGELO (2017). Insulin-like growth factor-6 (IGFBP-6) stimulates neutrophil oxidative burst, degranulation and chemotaxis. INFLAMMATION RESEARCH, ISSN: 1023-3830, doi: 10.1007/s00011-017-1107-6

- **CASTELLANI, STEFANO, CONESE, MASSIMO** (2017). Not All Is CFTR - Neutrophils and Cholesterol in Cystic Fibrosis. *EBIOMEDICINE*, vol. 24, p. 28-29, ISSN: 2352-3964, doi: 10.1016/j.ebiom.2017.08.027
- Lasalvia M, **Castellani S**, D'Antonio P, Perna G, Carbone A, Colia Al, Maffione Ab, Capozzi V, Conese M (2016). Human airway epithelial cells investigated by atomic force microscopy: A hint to cystic fibrosis epithelial pathology. *EXPERIMENTAL CELL RESEARCH*, vol. 348, p. 46-55, ISSN: 0014-4827, doi: 10.1016/j.yexcr.2016.08.025
- **Castellani S.**, Orlando C., Carbone A., Di Gioia S., Conese M. (2016). Magnetofection enhances lentiviral-mediated transduction of airway epithelial cells through extracellular and cellular barriers. *GENES*, vol. 7, ISSN: 2073-4425, doi: 10.3390/genes7110103
-
- Carbone A, Valente M, Annacontini L, **Castellani S**, Di Gioia S, Parisi D, Rucci M, Belgiovine G, Colombo C, Di Benedetto A, Mori G, Lo Muzio L, Maiorella A, Portincasa A, Conese M “*Adipose-derived mesenchymal stromal (stem) cells differentiate to osteoblast and chondroblast lineages upon incubation with conditioned media from dental pulp stem cell-derived osteoblasts and auricle cartilage chondrocytes*” *J Biol Regul Homeost Agents*. 2016 Jan-Mar;30(1):111-22
- Abbattiscianni AC, Favia M, Mancini MT, Cardone RA, Guerra L, Monterisi S, **Castellani S**, Laselva O, Di Sole F, Conese M, Zaccolo M, Casavola V “*Correctors of mutant CFTR enhance subcortical cAMP/PKA signaling via ezrin phosphorylation and cytoskeleton organization*” *J Cell Sci*. 2016 Jan 28. pii: jcs.177907
- Di Gioia S, Trapani A, **Castellani S**, Carbone A, Belgiovine G, Craparo EF, Puglisi G, Cavallaro G, Trapani G, Conese M. “*Nanocomplexes for gene therapy of respiratory diseases: Targeting and overcoming the mucus barrier*”. *Pulm Pharmacol Ther*. 2015 Oct;34:8-24
- Di Gioia S, Sardo C, Belgiovine G, Triolo D, d'Apolito M, **Castellani S**, Carbone A, Giardino I, Giammona G, Cavallaro G, Conese M “*Cationic polyaspartamide-based nanocomplexes mediate siRNA entry and down-regulation of the pro-inflammatory mediator high mobility group box 1 in airway epithelial cells*”. *Int J Pharm*. 2015 Aug 1;491(1-2):359-66
- Di Gioia S, Trapani A, Mandracchia D, De Giglio E, Cometa S, Mangini V, Arnesano F, Belgiovine G, **Castellani S**, Pace L, Lavecchia MA, Trapani G, Conese M, Puglisi G, Cassano T. “*Intranasal delivery of dopamine to the striatum using glycol chitosan/sulfobutylether- β -cyclodextrin based nanoparticles*”. *Eur J Pharm Biopharm*. 2015 Aug;94:180-93
- Guerra L, Favia M, **Castellani S**, Barbuti G, Montemurro P, Diana A, Santostasi T, Polizzi AM, Mariggiò MA, Reshkin SJ, Manca A, Casavola V, Conese M “*Antibiotic therapy affects functional behaviour in cystic fibrosis blood mononuclear cells*” *European respiratory journal – Eur Respir J*. 2015 Aug;46(2):558-61
- Trotta T, Guerra L, Piro D, d'Apolito M, Piccoli C, Porro C, Giardino I, Lepore S, **Castellani S**, Di Gioia S, Petrella A, Maffione AB, Casavola V, Capitanio N, Conese M. “*Stimulation of β 2-adrenergic receptor increases CFTR function and decreases ATP levels in murine hematopoietic stem/progenitor cells*”. *J Cyst Fibros*. 2015 Jan;14(1):26-33. Epub 2014 Aug 29.

- Conese M, **Castellani S**, Lepore S, Palumbo O, Manca A, Santostasi T, Polizzi AM, Copetti M, Di Gioia S, Casavola V, Guerra L, Diana A, Montemurro P, Marigliò MA, Gallo C, Maffione AB, Carella M “*Evaluation of genome-wide expression profiles of blood and sputum neutrophils in cystic fibrosis patients before and after antibiotic therapy*”.
PLoS One, 2014 Aug 1;9(8): e104080.
- Carbone A, **Castellani S**, Favia M, Diana A, Paracchini V, Di Gioia S, Seia M, Casavola V, Colombo C, Conese M “*Correction of defective CFTR/ENaC function and tightness of cystic fibrosis airway epithelium by amniotic mesenchymal stromal (stem) cells*”
Journal of cellular and molecular medicine 2014, Aug;18(8):1631-43
- Trapani A, Di Gioia S, **Castellani S**, Carbone A, Cavallaro S, Trapani G, Conese M.
Nanocarriers for Respiratory Diseases Treatment: Recent Advances and Current Challenges.
Current Topics in Medicinal Chemistry, 2014;14(9):1133-47
- Conese M, Piro D, Carbone A, **Castellani S**, Di Gioia S.
Hematopoietic and mesenchymal stem cells for the treatment of chronic respiratory diseases role of plasticity and heterogeneity.
The Scientific World Journal, 2014 Jan 19;2014:859817.
- Lepore S, Milillo L, Trotta T, **Castellani S**, Porro C, Panaro MA, Santarelli A, Bambini F, Lo Muzio L, Conese M, Maffione AB “*Adhesion and growth of osteoblast-like cells on laser-engineered porous titanium surface: expression and localization of N-cadherin and beta-catenin*” J Biol Regul Homeost Agents. 2013 Apr-Jun;27(2):531-41.
- Conese M, Cortese-Krott M.M, Copreni E, **Castellani S**, Di Gioia S.
“Role of macrophages in internalization and early clearance of Pseudomonas aeruginosa from the mouse lung”.
International Journal of Sciences, Vol 3 , 2014 Jan
- Conese M, Carbone A, **Castellani S**, Di Gioia S.
“ Paracrine Effects and Heterogeneity of Marrow-Derived Stem/Progenitor Cells: Relevance for the Treatment of Respiratory Diseases ”.
Cells Tissues Organs. 2013 197(6):445-73.
- Carbone A, Paracchini V, **Castellani S**, Di Gioia S, Seia M, Colombo C, Conese M.
“Human Amnion-Derived Cells: Prospects for the Treatment of Lung Diseases”.
Curr Stem Cell Res Ther. 2013 Apr 15
- Porro C, Di Gioia S, Trotta T, Lepore S, Panaro MA, Battaglino A, Ratclif L, **Castellani S**, Bufo P, Martinez MC, Conese M.
“Pro-inflammatory effect of cystic fibrosis sputum microparticles in the murine lung”
J Cyst Fibros. 2013 12: 721-728.

- Aarbiou J, Copreni E, Buijs-Offerman RM, van der Wegen P, **Castellani S**, Carbone A, Tilesi F, Fradiani P, Hiemstra PS, Yueksekdag G, Diana A, Rosenecker J, Ascenzioni F, Conese M, Scholte BJ
“Lentiviral small hairpin RNA delivery reduces apical sodium channel activity in differentiated human airway epithelial cell”
 J Gene Med. 2012 Dec;14(12):733-45. doi: 10.1002/jgm.2672
- Trotta T, Di Gioia S, Piro D, Lepore S, Cantatore S, Porro C, **Castellani S**, Petrella A, Fortunato F, Maffione AB, Conese M.
“Effect of Acute Lung Injury on VLA-4 and CXCR4 Expression in Resident and Circulating Hematopoietic Stem/Progenitor Cells”
 Respiration. 2013;85(3):252-64. doi: 10.1159/000341172. Epub 2012 Sep 26
- **Castellani S**, Guerra L, Favia M, Di Gioia S, Casavola V.
“NHERF1 and CFTR restore tight junction organisation and function in cystic fibrosis airway epithelial cells: role of ezrin and the RhoA/ROCK pathway”
- Laboratory Investigation, Nov;92(11):1527-40. doi: 10.1038/labinvest.2012.123. Epub 2012 Sep 10.
- Paracchini V, Carbone A, Colombo F, **Castellani S**, Mazzucchelli S, Di Gioia S, Degiorgio D, Seia M, Porretti L, Colombo C, and Conese M.
“Amniotic mesenchymal stem cells: a new source for hepatocyte-like cells and induction of CFTR expression by co-culture with cystic fibrosis airway epithelial cells”
 Journal of Biomedicine and Biotechnology,
- Piro D, Piccoli C, Guerra L, Sassone F, D'Aprile A, Favia M, **Castellani S**, Gioia SD, Lepore S, Garavaglia ML, Trotta T, Maffione AB, Casavola V, Meyer G, Capitanio N, Conese M.
“Hematopoietic Stem/Progenitor Cells Express Functional Mitochondrial Energy-Dependent Cystic Fibrosis Transmembrane Conductance Regulator”
 Stem Cells Dev. 2011 Jun 20
- Copreni E, **Castellani S**, Bagnacani A, Colombo A, Rizzuti T, Di Gioia S, Colombo C, Conese M *“Bacterial internalization is not sufficient to clear Pseudomonas aeruginosa infection in human fetal airway xenografts”*
 Medical Science Monitor, 2010 Dec;16(12):BR361-6.
- Orlando C, **Castellani S**, Mykhaylyk O, Copreni E, Zelphati O, Plank C, Conese M
“Magnetically guided lentiviral-mediated transduction of airway epithelial cells”.
 J Gene Med. 2010 Sep;12(9):747-54.
- Copreni E, Palmieri L, **Castellani S**, Conese M
*“A VSV-G Pseudotyped Last Generation Lentiviral Vector Mediates High Level and Persistent Gene Transfer in Models of Airway Epithelium *In Vitro* and *In Vivo*”*
 Viruses 2010, 2(8), 1577-1588

- Porro C, Lepore S, Trotta T, **Castellani S**, Ratclif L, Battaglino A, Di Gioia S, Martinez MC, Conese M, Maffione AB “*Isolation and characterization of microparticles in sputum of cystic fibrosis patients*”.
Respir Res. Jul 9;11(1):94 , 2010
- **Castellani S**, Di Gioia S, Trotta T, Maffione AB, Conese M “ *Impact of lentiviral vector-mediated transduction on the tightness of a polarized model of airway epithelium and effect of cationic polymer polyethylenimine*”
Journal of Biomedicine and Biotechnology, 2010, 2010:103976 Epub 2010 Jun 21.
- Auriche C , Di Domenico EG, Pierandrei S, Lucarelli M, **Castellani S**, Conese M, Melani R, Zegarra-Moran O, Ascenzioni F “*CFTR expression and activity from the human CFTR locus plus regulatory regions isolated, by a single step procedure, in BAC vectors*”
Gene Therapy, 2010 Nov;17(11):1341-54 . Epub 2010 Jun 10.
- **Castellani S**, Conese M “*Lentiviral vector and cystic fibrosis gene therapy*”
Viruses , 2(2) , 395- 412 2010.
- Favia M, Guerra L, Fanelli T, Cardone RA, Monterisi S, Di Sole F, **Castellani S**, Chen M, Seidler U, Reshkin SJ, Conese M, Casavola V “*Na⁺/H⁺ exchanger regulatory factor 1 overexpression-dependent increase of cytoskeleton organization is fundamental in the rescue of F508del cystic fibrosis transmembrane conductance regulator in human airway CFBE41o- cells*”
Molecular Biology of the Cell, 21 73-86 , 2010.
- Copreni E, Nicolis E, Tamanini A, Bezzetti V, **Castellani S**, Palmieri L, Giri MG, Vella A, Colombatti M, Rizzotti P, Conese M, Cabrini G “*Late generation lentiviral vectors: Evaluation of inflammatory potential in human airway epithelial cells*”
Virus Research, 144(1-2):8-17 , 2009.
- Copreni E, **Castellani S**, Palmieri L, Penzo M, Conese M “*Involvement of glycosaminoglycans in vesicular stomatitis virus G glycoprotein pseudotyped lentiviral vector-mediated gene transfer into airway epithelial cells*”
Journal of Gene Medicine, 10 (12):1294-302, 2008.
- Conese M, Di Gioia S, **Castellani S**
“*Gene therapy for cystic fibrosis*”
Expert Opinion in Therapeutic Patents, 18, 929-943, 2008.
- Conese M, **Castellani S**, Palmieri L, Copreni E
“*Lentivirus expression vectors*” in “*Virus Expression Vectors*”: Kathleen Hefferon ed., Research Signpost Transworld Research Network, pp. 81-122, 2007.
- Todoerti K, Ronchetti D, Agnelli L, **Castellani S**, Marelli S, Lambertenghi Delilieri G, Zanella A, Lombardi L, Neri A
“*Transcription repression activity is associated with the type I isoform of the MMSET gene involved in t(4;14) in multiple myeloma*”
British Journal of Haematology, 131, 214-218, 2005.
- Colombo C, Bennato V, Costantini D, Zazzaron L, **Castellani S**, Conese M

“Le nuove terapie per contrastare la fibrosi cistica”
Doctor Pediatría, n. 6, 8-17, 2005.

Contributions in Books

- Conese Massimo, **Castellani Stefano**, D’Oria Susanna, Di Gioia Sante, Montemurro Pasqualina (2017). Role of neutrophils in cystic fibrosis lung disease. In: (a cura di): Khajah M.A., Role of Neutrophils in Disease Pathogenesis. InTech, ISBN: 978-953-51-5344-3
- Di Gioia S, Trapani A, Carbone A, **Castellani S**, Colombo C, Trapani G, Conese M
“Cationic Polymers for Gene Delivery into Mesenchymal Stem Cells as a Novel Approach to Regenerative Medicine” In RSC Polymer Chemistry Series No. 12 *“Cationic Polymers in Regenerative Medicine”*, Samal S. K. and Peter Dubruel (Eds.), The Royal Society of Chemistry, London, 2015, pp. 386-437.
- **Castellani S**, Di Gioia S, Carbone A, Conese M.
“Lentiviral vector-mediated gene transfer and applications in the field of the respiratory epithelium”. In "Virology I", iConcept Press, 2014
- Carbone A, **Castellani S**, Paracchini V, Di Gioia S, Colombo C, Conese M
“Placenta-Derived Stem Cells as a Source for Treatment of Lung and Liver Disease in Cystic Fibrosis” in Regenerative Medicine and Tissue Engineering pp 3-35
Intech (Edited by Jose A.Andrades) 2013
- Conese M, **Castellani S**, Palmieri L, Copreni E
“Lentivirus expression vectors” in *“Virus Expression Vectors”*: Kathleen Hefferon ed., Research Signpost Transworld Research Network, pp. 81-122, 2007

Monographies

- Di Gioia Sante, Pignataro Nicoletta, Belgiovine Giuliana, de Nittis Simona, **Castellani Stefano**, Conese Massimo (2018). High mobility group box 1 e le malattie respiratorie. Ruolo di HMGB1 nella risposta metabolica di cellule epiteliali respiratorie al lipopolisaccaride batterico. vol. 3, p. 1-59, Roma:Aracne Editrice, ISBN: 978-88-255-1569-5

Meeting , posters and oral communications

Trapani, A; Mandracchia, D; Tripodo, G; Di Gioia, S; **Castellani, S**; Cioffi, N; Ditaranto, N; Esteban, Ma; Conese, M
Solid Lipid Nanoparticles Made of Self-Emulsifying Lipids for Efficient Encapsulation of Hydrophilic Substances- Nanoinnovation 2018 – December 18-20, 2018 – Frascati –Rome – published on Nanoscience and Nanotechnology.

Stefano Castellani, Adriana Trapani, Anna Spagnoletta, Lorena di Toma, Sante Di Gioia, Delia Mandracchia, Thea Magrone, Giuseppe Trapani, Emilio Jirillo, Massimo Conese (2018). Solid lipid nanoparticles-mediated delivery of grape seed-derived proanthocyanidins to airway epithelial cells reduce oxidative stress. In : Nanomedicine Rome 2018. p. 63, Rome , June 18-20, 2018

Lorena di Toma, **Stefano Castellani**, Rosanna Tamborra, Vincenzo De Leo, Simona de Nittis, Lucia Catucci, Massimo Conese, Sante Di Gioia (2018). Isolation of nanoparticles from Brassica oleracea (Broccoli) and study of their effect on the metabolic activity of lung tumor cell lines. In: Nanomedicine Rome 2018. p. 39, Roma:Valmar, ISBN: 978-88-97987-19-2, Rome, June 18-20, 2018

Musante, I, Scudieri, P, **Castellani, S**, Conese, M, Caci, E, Galietta, LJ (2017). Analysis of ENaC protein expression in differentiated human bronchial epithelial cells. 31st Annual North American Cystic Fibrosis Conference, Indiana Convention Center, Indianapolis, Indiana, November 2–4, 2017 Pediatric Pulmonology. supplement, vol. 52, p. 253, ISSN: 1054-187X

Beccia E., Carbone A., Favia M., Zefferino R., **Castellani S.**, Angiolillo A., Casavola V., Conese M. (2017). Gap junctions are involved in the rescue of CFTR-dependent chloride efflux by amniotic mesenchymal stem cells in co-culture with cystic fibrosis CFBE41o- cells. In: VIII Meeting Stem Cell Research Italy. p. 32, Chieti, May 25-27, 2017

Castellani S, Trapani A, Mandracchia D, Di Gioia S, d'Alessandro M, Trapani G, Conese M. "Safety and uptake of solid lipid nanoparticles by airway epithelial cells: an in vitro study" accettato per comunicazione orale al "Nanomedicine 2016 congress", Viterbo, Italy, September 21-23 2016.

Castellani S, Carbone A , Di Gioia S, Cannito S, Raso R, Lucarelli M, Ascenzioni F, Conese M. "Study of the role of ENaC in cystic fibrosis: Expression of ENaC subunits as an investigation tool of the interaction between CFTR and ENaC and therapeutic approaches by epigenetic manipulation and activity reduction"
1st Italian CF Young Investigator Meeting (SIFC)
Rome, Italy, January 16-17, 2015 Abstract Book pag 20

Carbone A, **Castellani S**, Favia M, Diana A, Di Gioia S, Costantino L, Giannone V, Seia M. Zefferino R, Casavola V, Colombo C, Conese M.
"Amniotic mesenchymal stem cells can correct the defective CFTR/ENaC function and tightness of CF airway epithelial cells upon coculture : involvement of gap junctions"
1st Italian CF Young Investigator Meeting (SIFC)
Rome, Italy, 16-17 January 2015 Abstract Book pag 7

Trapani A, Di Gioia S, Cassano T, **Castellani S**, Belgiovine G, Cannito S, Conese M, Trapani G, Puglisi G. "Dopamine-loaded CS-, GCS-, and corresponding thiomers-based NPs for the brain delivery of the neurotransmitter by nasal route"
7 th Annual Thematic Workshop of CRS Italy Chapter.
Nanomedicine: pharmacokinetic challenges, targeting and clinical outcomes
Florence, 6-8 November 2014

Castellani S, Carbone A , Di Gioia S , Cannito S, Lucarelli M, Ascenzioni F, Conese M.
"Expression of ENaC subunits in Fischer Rat Thyroid cells as an investigation tool of the interaction between CFTR and ENaC and evaluation of ENaC inhibitors"
37th European cystic fibrosis conference
11-14 giugno 2014
Goteborg – Sweden
Journal of Cystic Fibrosis, June 2014, Vol. 13 Suppl. 2, pag S35 (WS17.4)

Carbone A, **Castellani S**, Paracchini V, Favia M, Diana A, Di Gioia S, Seia M, Casavola V, Colombo C, Conese M

“Human Amniotic Mesenchymal Stem Cells Modify the Function and Cytokine Production of F508del Airway Epithelial Cells Upon Coculture”

35th European Cystic Fibrosis Conference

Lisbon, Portugal 12 – 15th June 2013

Abstract Book (WS 15.3)

Carbone A, **Castellani S**, Seia M, Favia M, Diana A, Di Gioia S, Casavola V, Colombo C, Conese M

“Correzione in vitro del difetto di base della fibrosi cistica mediante co-culture di cellule staminali amniotiche e cellule epiteliali respiratorie con fibrosi cistica”.

IX Congresso Nazionale della Società Italiana per lo Studio della Fibrosi Cistica

Terrasini-Palermo, Italy 13 - 16th November 2013 Abstract Book (P. 37)

Portincasa A, Carbone A., Valente M, **Castellani S**, Di Gioia S, Conese M.

“Adipose derived stem cells for regenerative medicine: isolation, characterization and preclinical application. Current findings and future perspectives ”Fourth International Conference on Regenerative Surgery, 13 – 15 December 2012 Rome, Italy

Di Gioia S, Trotta T, Lepore S, Porro C, **Castellani S**, Maffione AB, Conese M

“Mobilisation of hematopoietic stem/progenitor cells in acute lung injury: role of VLA-4”

1st Joint Meeting of Pathology and Laboratory Diagnostics

12-15 Settembre, 2012

Udine, Italy

American Journal of Pathology, September 2012, Vol. 181, Suppl., pag S29

Conese M, Palombo O, **Castellani S**, Barbuti G, Polizzi A, Santostasi T., Marigliò MA, Fumarulo R, Manca A, Montemurro P, Carella M

“Evaluation of genome-wide expression profiles of blood and sputum neutrophils in cystic fibrosis patients before and after antibiotic therapy”

1st Joint Meeting of Pathology and Laboratory Diagnostics

12-15 Settembre, 2012

Udine, Italy

American Journal of Pathology, September 2012, Vol. 181, Suppl. , pag S5

Castellani S, Guerra L, Favia M, Di Gioia S, Casavola V, Conese M

“NHERF1 and CFTR overexpression restore tight junction organisation and function in cystic fibrosis airway epithelial cells via the involvement of ezrin and the RhoA/ROCK pathway”

1st Joint Meeting of Pathology and Laboratory Diagnostics

12-15 Settembre, 2012

Udine, Italy, American Journal of Pathology, September 2012, Vol. 181, Suppl., pag S27

Carbone A, **Castellani S**, Paracchini V, Favia M, Diana A, Seia M, Di Gioia S, Casavola V, Colombo C, Conese M

“Human Amniotic Mesenchymal Stem Cells Modify the Function and Cytokine Production of F508del Airway Epithelial Cells Upon Coculture”

1st Joint Meeting of Pathology and Laboratory Diagnostics

12-15 Settembre, 2012

Udine, Italy

American Journal of Pathology, September 2012, Vol. 181, Suppl., pag S28

Carbone A, **Castellani S**, Paracchini V, Favia M, Diana A, Seia M, Di Gioia S, Casavola V, Colombo C, Conese M.

“Human Amniotic Mesenchymal Stem Cells can Partially Correct the Cystic Fibrosis Phenotype Upon Coculture with F508del Airway Epithelial Cells”

35th European Cystic Fibrosis Conference

Dublino 6 – 9 Giugno 2012

Journal of Cystic Fibrosis, Vol 11, June 2012, S31 (WS14.3)

Castellani S, Carbone A, Paracchini V, Colombo C, Conese M

“Correction of the CF phenotype by human amniotic mesenchymal stem cells”

6th European CF Young Investigator Meeting , in qualità di **relatore**

Paris, 24 – 27 April 2012 Abstract book pag 64 (P40)

Carbone A, S. **Castellani S**, V. Paracchini V, Favia M, Diana A, M. Seia M, Di Gioia S, Casavola V, Colombo C, Conese M “ Co-culture di cellule staminali amniotiche e cellule epiteliali

respiratorie con la mutazione f508del: correzione del difetto di base della fibrosi cistica”

XVII Congresso Italiano della Fibrosi Cistica , VII Congresso Nazionale della Società per lo studio della Fibrosi Cistica, Tirrenia, Pisa, Italy, 23-26 November 2011

Carbone A, Paracchini V, **Castellani S**, Di Gioia S, Mazzucchelli S, Colombo F, Seia M, Colombo C, Conese M “In vitro differentiation of human amniotic mesenchymal stem cells in airway epithelium and correction of the CF phenotype” 5th European CF Young Investigators Meeting Lille, France, 23 -26 August 2011

Paracchini V, Carbone A, **Castellani S**, Mazzucchelli S, Colombo F, Seia M, Colombo C, Conese M “New approaches of cell therapy for cystic fibrosis: in vitro differentiation of human amniotic mesenchymal stem cells in airway epithelium and correction of the CF phenotype”

ECFS Basic Science Conference 2011 Tirrenia-Pisa, Italy, 30 March - 2 April 2011

Castellani S, Di Gioia S, Trotta T , Maffione AB, Conese M “Effect of Polyethylenimine on Lentiviral-Mediated Transduction of Airway Epithelial Cells” XXX Congresso della Società Italiana di Patologia , Salerno, Italy 14 -17 October 2010

Porro C, Lepore S, Trotta T, **Castellani S**, Ratclif L, Di Gioia S Martínez MC, Maffione AB, Conese M “Isolation and Characterization of Microparticles in Sputum from Cystic Fibrosis and Primary Ciliary Dyskinesia Patients” XXX Congresso della Società Italiana di Patologia , Salerno 14 -17 October 2010

Di Gioia S, De Fino I , Porro C, Licciardi , Giammona G, Castellani S, Maffione AB, Cavallaro G,. Conese M “Evaluation of Polyaminoacidic Polymers as Gene Transfer Agents Into Respiratory Epithelial Cells and of Their Biophysical Properties in the Presence of Cystic Fibrosis Sputum” XXX Congresso della Società Italiana di Patologia , Salerno 14 -17 October 2010

Trotta T, **Castellani S.**, Di Gioia S, Porro C, Lepore S, Maffione AB, Conese M “Effect of lentiviral vector-mediated transduction on the tight junction integrity of polarized airway epithelial cells”. In: LXIV Congresso Società Italiana Di Anatomia E Istologia Taormina -Messina September 2010, vol. 115/Suppl.1, p. 169

Porro C, Lepore S, Trotta T, **Castellani S.**, Ratclif L, Di Gioia S. Martinez M. C, Conese M, Maffione A. B. “A new biological marker isolated and characterized in sputum from lung pathology patients: microparticles” In: LXIV Congresso Società Italiana di Anatomia e Istologia Taormina -Messina September 2010 Italian Journal of Anatomy And Embryology, vol. 115 /Suppl.1, p. 142

Porro C, Lepore S, Trotta T, **Castellani S.**, Ratclif L, Di Gioia S. Martinez M. C, Conese M, Maffione A. B. “Isolation and characterization of microparticles in sputum from cystic fibrosis patients”. In: 33rd ECFS Conference, Valencia,16-19 June 2010

Castellani S, Di Gioia S, Conese M
“Gene Therapy of Cystic Fibrosis”
Meeting Italian society of Pathology “Beyond the bench...preparing your career transition”
Naples 2-3 December 2009

Favia M, Guerra L, Fanelli T, Cardone R.A, Monterisi S, **Castellani S**, Reshkin SJ , Conese M, Casavola V
“Ezrin phosphorylation and activation of RhoA play a role in the NHERF1 overexpression-dependent rescue of F508del-cftr in human airway CFBE41o- cells”
XIV Italian meeting of cystic Fibrosis - IV national meeting SIFC
Turin, 27-29 November 2008
Orizzonti FC, 4 (n. 1): 40, 2008

Di Gioia S, Piro D,Trotta T, **Castellani S**, Lepore S, Maffione AB, Conese M
“Behaviour of adhesion molecules in murine hematopoietic stem and progenitor cells upon LPS-induced inflammation in the lung”
XIV Italian meeting of Cystic Fibrosis - IV national meeting SIFC
Turin, 27-29 November 2008
Orizzonti FC, 4 (n. 1): 32, 2008.

Aarbiou J, Copreni E , **Castellani S**, Buijs-Offerman RM , Van der Wegen P , Jorna HJJ, Conese M, Scholte B
“Delivery of shRNA by Lentiviral transduction of differentiated human airway epithelial cells in culture reduces ENaC activity”
22th North American Cystic Fibrosis Conference
Orlando, 22-25 October 2008

Trotta T , Piro D , Di Gioia S , Lepore S , Castellani S , Conese M , Maffione AB
“LPS-induced adhesion molecule expression in murine hematopoietic stem and progenitor cells”
62° Congresso Società Italiana Anatomia ed Istologia (SIAI)
Turin 14-16 September 2008

Orlando C, Copreni E, Mykhaylyk O, **Castellani S**, Zelphati O, Plank C, Conese M
“Facilitation of lentiviral-mediated transduction of airway epithelial cells by magnetofection”
31st European Cystic Fibrosis conference
Prague, 11-14 June 2008
Journal of Cystic Fibrosis June 2008 (Vol. 7, Page S22)

Tilesi F, Copreni E, Melani R, Fradiani P, **Castellani S**, Pedemonte N, Caci E, Auriche C, Galiotta LJV, Conese M, Zegarra-Moran O, Ascenzioni F
“Selection and analysis of silencing RNA for efficient downregulation of ENaC channel in lung epithelial cells”
XIII Congresso italiano della Fibrosi Cistica – III congresso nazionale SIFC
Milan, 30 Novembre- 2 December 2007
Journal of Cystic Fibrosis July 2008 (Vol. 7, Pages S16-S17)

Castellani S, Copreni E, Palmieri L, Tilesi F, Ascenzioni F, Conese M
“Lentiviral vector mediated expression and activity of small hairpin rna interference for the ENaC subunits in in vitro models of human airway epithelium”
I European CF Young Investigators Meeting
Lille, France 29-31 August 2007

Copreni E, **Castellani S**, Palmieri L, Conese M
“Lentiviral vector-mediated expression of RNA interference for ENaC in cell models of airway epithelium suitable for functional evaluation of ENaC activity”
Journal of Cystic Fibrosis June 2007 (Vol. 6, Page S11)

Copreni E, Palmieri L, **Castellani S**, Tilesi F, Ascenzioni F, Conese M
“Lentiviral vector-mediated expression and activity of small hairpin RNA interference for the Epithelial Sodium Channel in functional models of human airway epithelium”
10° Annual Meeting American Society of Gene Therapy
Seattle, USA, 30 may- 3 june 2007
Journal of Cystic Fibrosis June 2007 (Vol. 6, Page S10)

Copreni E, Palmieri L, **Castellani S**, Conese M
“Studio in vivo dell’efficienza e persistenza del trasferimento genico mediato da un vettore virale di ultima generazione nell’epitelio respiratorio murino”
XII Congresso italiano della Fibrosi Cistica – II congresso nazionale SIFC
Florence, 23-25 November 2006
Minerva Medica 97, Suppl 1, pag 108-109, 2006

Fradiani P, Copreni E, Tilesi F, Palmieri L, **Castellani S**, Conese M, Ascenzioni F
“Assemblaggio di vettori per piccoli RNA interferenti per il controllo dell’espressione dell’ENaC nella Fibrosi Cistica”
XII Congresso italiano della Fibrosi Cistica – II congresso nazionale SIFC
Florence, 23-25 November 2006
Minerva Medica 97, Suppl 1, pag 106-107, 2006

Cabrini G, Tamanini A, Nicolis E, Bezzeri V, Quiri F, Copreni E, Conese M, Palmieri L, **Castellani S**

“Novel generation lentiviral vectors: evaluation of pro-inflammatory potential in human respiratory cells,”

IV Autumn Convention Italian Investigators of CF

Verona, 17-18 November 2006

Copreni E, **Castellani S**, Palmieri L, Conese M

“Efficiency and persistence of a VSV-G pseudotyped lentiviral vector mediated gene transfer into the murine airways hold promise for gene therapy of Cystic Fibrosis”

20th Annual North American Cystic Fibrosis Conference

Denver, Colorado, USA, 1-5 November 2006

Pediatric Pulmonology, Suppl.29, pag. 307, 2006

Copreni E, Nicolis E, Tamanini A, Bezzeri V, **Castellani S**, Palmieri L, Conese M, Cabrini G

“Novel generation lentiviral vectors: evaluation of inflammatory potential in human respiratory epithelial cells”

20th Annual North American Cystic Fibrosis Conference

Denver, Colorado, USA, 1-5 November 2006

Pediatric Pulmonology, Suppl. 29, pag. 307, 2006

Copreni E, Palmieri L, Carrabino S, **Castellani S**, Naldini L, Conese M

“Involvement of glycosaminoglycans in VSV-G pseudotyped lentiviral vector mediated gene transfer into airway epithelial cells”

9^o Annual Meeting American Society of Gene Therapy

Baltimore, Maryland, USA, 31 May- 4 June, 2006

Molecular Therapy 13, Suppl. 1, pag. S268-S269, 2006

Copreni E, Palmieri L, **Castellani S**, Tamanini A, Nicolis E, Cabrini G, Conese M

“Studio del potenziale pro-infiammatorio e immunogeno di un vettore lentivirale altamente efficiente nelle cellule respiratorie umane”

XI Congresso italiano della Fibrosi Cistica – I congresso nazionale SIFC

Roma, 1-3 December 2005

Copreni E, **Castellani S**, Palmieri L, Carrabino S, Naldini L, Conese M

“Gene transfer to the airway epithelium mediated by a third generation HIV-1 based vector: efficiency and role of heparan sulphate”

Molecular Therapy 11, Suppl. 1, pag. S140, 2005.

Conese M, Palmieri L, **Castellani S**, Copreni E

“Valutazione dell’efficienza, efficacia e sicurezza di vettori lentivirali nel trasferimento del gene CFTR in sistemi modello di epitelio respiratorio con fibrosi cistica”

3^o Autumn Convention of Italian Investigators of CF.

Verona, 18-19 November 2005

Copreni E, **Castellani S**, Palmieri L, Carrabino S, Naldini L, Conese M
“Gene transfer to the airway epithelium mediated by a third generation HIV-1 based vector: efficiency and role of heparan sulfate”
8° Annual Meeting American Society of Gene Therapy
St. Louis, Missouri, USA 1-5 Giugno 2005
Molecular Therapy 11, Suppl. 1, pag. S140, 2005

Copreni E, Penzo, **Castellani S**, Carrabino S, Conese M
“Trasferimento genico mediato da un vettore lentivirale in modelli di epitelio respiratorio in vitro e in vivo: efficienza e ruolo dell’eparan solfato”
X Congresso italiano della Fibrosi Cistica
Palermo, 27-30 Ottobre 2004
Acta Minerva Pediatrica 20, Special Issue, pag. 160, 2004

Copreni E, Penzo M, **Castellani S**, Carrabino S, Conese M
“Gene transfer to the airway epithelium mediated by last generation lentiviral vectors does not require preconditioning of the epithelial tight junctions”
18th Annual North American Cystic Fibrosis Conference
St. Louis, Missouri, USA, 14-17 October 2004
Pediatric Pulmonology, Suppl. 24, pag. 261, 2004

Copreni E, Carrabino S, Di Gioia S, Penzo M, **Castellani S**, Rejman J, Conese M
“Trasferimento genico in modelli in vitro e pre-clinici di epitelio respiratorio mediante vettori virali e non virali”
I° Meeting of Italian Investigators of CF
Commissione di ricerca di base Gruppo Italiano Fibrosi Cistica
Rome University “ La Sapienza ”, 1 July , 2004

PARTICIPATION IN MEETINGS

20-23 September 2016 - Viterbo - Nanomedicine, as speaker

16-17 January 2015- Rome, 1st Italian CF Young Investigator Meeting (SIFC), as speaker

11-14 June 2014 - Goteborg, Sweden, 37th European cystic fibrosis conference, as speaker

19 December 2013 - Bari, National Conference "Neonatal Screening in cystic fibrosis ... and in Puglia?" - organized by the Italian League of Cystic Fibrosis Apulian Association - non-profit organization

24 - 27 April 2012 6th European CF Young Investigator Meeting, Paris - France, as speaker

14 -17 October 2010 XXX Congress of the Italian Society of Pathology, Salerno

2-3 December 2009 - Naples - Meeting of the Italian Pathology Society “Beyond the bench... preparing your career transition” As speaker

27-28 November 2009 VII Autumn Convention of Researchers in Cystic Fibrosis - Verona, organized by the Foundation for Research on Cystic Fibrosis - onlus

1-4 October 2009 - Soverato (CZ) - XV Italian Congress of Cystic Fibrosis - V National Congress of the Italian Society for the Study of Cystic Fibrosis

November 14-15, 2008 VI convention of Researchers in Cystic Fibrosis - Verona, organized by the Foundation for Research on Cystic Fibrosis - onlus

11-14 June 2008 - Prague - 31st European Cystic Fibrosis conference
As a speaker

30 November - 2 December 2007 - Milan - XIII Italian Congress of Cystic Fibrosis - III SIFC National Congress

29-31 August 2007 - Lille, France - The European CF Young Investigators Meeting as speaker

November 18-19, 2005 III Convention of Researchers in Cystic Fibrosis - Verona, organized by the Foundation for Research on Cystic Fibrosis - onlus

20-23 October 2005- Baltimore (USA) - 19th Annual North American Cystic Fibrosis Conference

PARTICIPATION IN CALLS FOR FINANCING RESEARCH PROJECTS

2015-2018: Scientific director of the research project "Delivery of natural antioxidants to the lung through paramagnetic nanoparticles for the treatment of chronic respiratory diseases" - Funded by the Development and Cohesion Fund 2007-2013 - Program in support of intelligent specialization and social and environmental sustainability - FutureinResearch - admitted for funding on the basis of a competitive tender which provides for peer review

2017: Beneficiary of FFABR funds (paragraph 295 art.1 2017 Budget Law (Law 232/2016))

2018: Owner of the project "Nanotechnologies applied to the delivery of natural substances for the therapy of chronic respiratory diseases", Winner of the call for the funding of research projects under the Fund for Research Projects of the University (PRA), University of Foggia, issued with DR n. 449-2017 (prot. No. 10624-III / 12 of 14.04.2017); decree approval of acts: prot. n. 0007831 - I / 7 of 12/03/2018 - Official University Register - 385/2018

AWARDS AND ACKNOWLEDGMENTS

2011: Annalisa Marzotto Award for the best basic research poster at the XVII Italian Congress of Cystic Fibrosis, VII National Congress of the Society for the study of Cystic Fibrosis, Tirrenia, Pisa, 23-26 November 2011

Carbone A, Castellani S, Paracchini V, Favia M, Diana A, Seia M, Di Gioia S, Casavola V, Colombo C, Conese M "Co-cultures of amniotic stem cells and respiratory epithelial cells with the f508del mutation: correction of the defect of cystic fibrosis "Abstract book page 43 (P20)

OTHER ACTIVITIES'

From 2021: Topic Editor for the magazine "Molecules" EISSN 1420-3049, Published by MDPI

TEACHING ACTIVITY

Since 2010: Expert in the subject in General Pathology of the degree course of medicine and surgery with minutes of the Board of the Faculty of Medicine and Surgery of 10/06/2010 and appointed teacher for integrative teaching at the chair of General Pathology (scientific - disciplinary sector MED / 04) with the appointment of the Faculty of Medicine and Surgery Council of the University of Foggia (Prot. N. 2048 VII / 3 of 21/10/2010). Since 2010, 100 hours of lectures in General Pathology have been carried out for the degree course of Medicine and Surgery at the University of Foggia.

Teaching activity as holder of the General Pathology course for the degree courses in Dietetics (from 2015/2016 to 2017/2018), Radiology Techniques (Barletta branch, from 2016/2017 to 2017/2018), Physiotherapy (aa2017 / 2018) and the course of Immunology and General Pathology for the courses of Nursing (Foggia campus, from 2015/2016 to 2017/2018) and Nursing (S. Severo campus ay 2015/2016) at the University of Foggia

a.a. 2015/2016: Co-supervisor of a degree thesis in Biomedical Laboratory Techniques entitled "Interaction between solid lipid nanoparticles and respiratory epithelial cells: in vitro study of uptake and biocompatibility" at the University of Foggia

a.a. 2017/2018: Co-supervisor of a degree thesis in Nursing Sciences entitled "NURSING MANAGEMENT OF OUTPATIENT PATIENTS WITH COPD AT THE PURPOSE OF AN EXPERIMENTAL STUDY ON MUCOPENETRATION OF THE EXPECTORATE" at the University of Foggia

Member of the commission for the final examination of the PhD in Applied Morphobiology and Cytometabolism of Drugs (Doctoral School in Biosciences and Methodologies for Health -27th and 28th cycle - University of Bari), appointed with D.R. n.511 of 02-03-2016

a.a. 2020/2021: Holder of the General Pathology course for the degree courses in Medicine and Surgery (Taranto branch) and in Dietetics and of the Immunology course for the degree course in Medicine and Surgery in English (Bari English Medical Curriculum) at the University of Bari

