Curriculum Vitae Europass

Personal information

First name(s) / surname(s)	**Maria Cristina Dechecchi**
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E-mail(s)	mcristina.dechecchi@gmail.com
Nationality	Italian
Date of birth	21/05/1956
Gender	Female

Work experience

Dates	01/09/2006-30/11/2019
Occupation or position held Main activities and responsabilities	*Dirigente Biologo, Responsabile SSF*, Laboratory of Molecular Pathology, Laboratory of Analyses - CFTR molecular analysis. MGMT promoter methylation analysis. Coordinator of multicentre projects supported by the Italian Cystic Fibrosis Research Foundation, aimed to investigation on innovative therapies for CF basic defect and lung inflammation, utilizing different approaches of cellular and molecular biology. Coordinator of multicentre projects supported by Regione Veneto (Prihta) on CFTR and ENaC molecular analysis. Coordinator of multicentre projects supported by Regione Veneto (Prihta) on methylation analysis of MGMT. Coordinator of research project on miRNA expression in serum of patients with gliomas.
Name and address of emplojer Type of business or sector	Azienda Ospedaliera Universitaria Integrata di Verona, Piazzale Stefani 1, 37126 Verona, Italy Biomedical research- Molecular genetics
Dates	08/08/1984-31/08/2006
Occupation or position held Main activities and responsabilities	*Dirigente Biologo, alta specializzazione*-Laboratory of Molecular Pathology of the Cystic Fibrosis Center- CFTR molecular analysis. Coordinator of multicentre projects supported by the Italian Cystic Fibrosis Research Foundation, aimed to investigation on innovative therapies for lung inflammation, utilizing different approaches of cellular and molecular biology. Research field: biological membrane transport processes, CFTR function regulation, CF gene transfer, inflammation.
Name and address of emplojer Type of business or sector	Azienda Ospedaliera Universitaria Integrata di Verona, Piazzale Stefani 1, 37126 Verona, Italy Biomedical research- Molecular genetics
Dates	01/01/1981-31/07/1984

Occupation or position held Main activities and responsabilities	Research fellow- Laboratory of Clinical Enzymology. Research field: clinical enzymology Ospedale Civile Maggiore, Piazzale Stefani 1, 37126 Verona, Italy
Name and address of emplojer Type of business or sector	
Dates	01/01/1980-31/12/1980
Occupation or position held Main activities and responsabilities	External Consultant of the Progetto finalizzato CNR, Laser of Potenza Institute of Biochemistry, University of Bari Research field: biochemistry of NADH irradiated by Laser
Name and address of emplojer Type of business or sector	University of Bari, Via Amendola 126/B, 70126 Bari, Italy Research field: biochemistry of NADH irradiated by Laser

Education and training

Dates	1986-1990
Title of qualification awarded	Specialist in Biochemistry
Principal subjects/occupational skills covered	Biochemistry, Molecular Biology and Clinical Chemistry
Name and type of organization providing education and training	Department of Biochemistry- University of Brescia, Italy
Dates Title of qualification awarded	1974-1979
Principal subjects/occupational skills Covered	Doctor in Biology, summa cum laude
Name and type of organization providing education and training	Different fields in biology
	University of Bari, Italy

Personal skills and competences

Mother tongue(s)	
Other language(s)	**Italian**
Self-assessment European level*	

English

Comprensione				Parlato				Scritto	
Ascolto		Lettura		Interazione orale		Produzione orale			
B1		B2		B1		B1		B2	

(*) Quadro comune europeo di riferimento per le lingue

Organisational skills and competences

Experience has been gained in the years on different aspects of ion transport through biological membranes and transmembrane signaling in inflammation, mainly in relation to cystic fibrosis and metabolism of sphingolipids, as reported in the publications listed in the PubMed. Recently research activity has been also focused on miRNA expression in serum samples obtained from patients with glioma. Main topics include 1) regulation of chloride transport mediated by the Cystic Fibrosis Transmembrane conductance Regulator (CFTR) protein, with special regards to the original identification of alternative activatory pathways, such as protein kinase C (*J Biol Chem* 268, 11321−11325, 1993); 2) Adenovirus-derived vectors for gene transfer with special regards to the original identificationof one of the two major receptors involved in the binding of adenoviruses types 2 and 5 with mammalian cells (jJ Virol 75, 8772-8780, 2001); 3) modulation of inflammatory response elicited by bacterial pathogens in human and murine respiratory models *in vitro* and *in vivo*.; miRNA analysis in serum of patients with brain tumors.

Additional information

She was responsible for CFTR molecular analysis and from 2011 to 2019. Since 2006 she has been focused her research interest on modulators of sphingolipid metabolism as new drugs for CF lung inflammation. She has been PI or Coordinator or collaborator of different research projects (Telethon Foundation, Italian Cystic Fibrosis Research Foundation, Regione Veneto). Co-Inventor in 1 National Patent. Publications reported in the PubMed

List of selected full papers published in international scientific journals (last five years)

Milani R, Brognara E, Fabbri E, Manicardi A, Corradini R, Finotti A,Gasparello J, Borgatti M, Cosenza LC, Lampronti I, **Dechecchi MC**, Cabrini G,Gambari R. Targeting miR-155-5p and miR-221-3p by peptide nucleic acids induces caspase-3 activation and apoptosis in temozolomide-resistant T98G glioma cells. Int J Oncol. 2019 Jul;55(1):59-68.

De Fenza M, D'Alonzo D, Esposito A, Munari S, Loberto N, Santangelo A,Lampronti I, Tamanini A, Rossi A, Ranucci S, De Fino I, Bragonzi A, Aureli M,Bassi R, Tironi M, Lippi G, Gambari R, Cabrini G, Palumbo G, **Dechecchi MC**,Guaragna A. Exploring the effect of chirality on the therapeutic potential of N-alkyl-deoxyiminosugars: anti-inflammatory response to Pseudomonas aeruginosa infections for application in CF lung disease. Eur J Med Chem. 2019 Aug1;175:63-71.

Finotti A, Gasparello J, Fabbri E, Tamanini A, Corradini R, **Dechecchi MC**,Cabrini G, Gambari R. Enhancing the Expression of CFTR Using Antisense Molecules against MicroRNA miR-145-5p. Am J Respir Crit Care Med. 2019 Jun1;199(11):1443-1444.

Dechecchi MC, Tamanini A, Cabrini G. Molecular basis of cystic fibrosis: from bench to bedside. Ann Transl Med. 2018 Sep;6(17):334. Review.

Laselva O, Marzaro G, Vaccarin C, Lampronti I, Tamanini A, Lippi G, Gambari R,Cabrini G, Bear CE, Chilin A, **Dechecchi MC**. Molecular Mechanism of Action of Trimethylangelicin Derivatives as CFTR Modulators. Front Pharmacol. 2018 Jul 4;9:719.

Chiricozzi E, Loberto N, Schiumarini D, Samarani M, Mancini G, Tamanini A, Lippi G, **Dechecchi MC,** Bassi R, Giussani P, Aureli M. Sphingolipids role in the regulation of inflammatory response: From leukocyte biology to bacterial infection. J Leukoc Biol. 2018 Mar;103(3):445-456.

Rimessi A, Bezzerri V, Salvatori F, Tamanini A, Nigro F, **Dechecchi MC**,Santangelo A, Prandini P, Munari S, Provezza L, Garreau de Loubresse N, Muller J,Ribeiro CMP, Lippi G, Gambari R, Pinton P, Cabrini G. PLCB3 Loss of Function Reduces Pseudomonas aeruginosa-Dependent IL-8 Release in Cystic Fibrosis. Am JRespir Cell Mol Biol. 2018 Oct;59(4):428-436.

Marzaro G, Lampronti I, D'Aversa E, Sacchetti G, Miolo G, Vaccarin C, Cabrini G, **Dechecchi MC**, Gambari R, Chilin A. Design, synthesis and biological evaluationof novel trimethylangelicin analogues targeting nuclear factor kB (NF-kB). Eur J Med Chem. 2018 May 10;151:285-293.

Santangelo A, Imbrucè P, Gardenghi B, Belli L, Agushi R, Tamanini A, Munari S, Bossi AM, Scambi I, Benati D, Mariotti R, Di Gennaro G, Sbarbati A, Eccher A, Ricciardi GK, Ciceri EM, Sala F, Pinna G, Lippi G, Cabrini G**, Dechecchi MC**. A microRNA signature from serum exosomes of patients with glioma as complementary diagnostic biomarker. J Neurooncol. 2018 Jan;136(1):51-62.

Lampronti I, Manzione MG, Sacchetti G, Ferrari D, Spisani S, Bezzerri V,Finotti A, Borgatti M, **Dechecchi MC**, Miolo G, Marzaro G, Cabrini G, Gambari R,Chilin A. Differential Effects of Angelicin Analogues on NF-κB Activity and IL-8 Gene Expression in Cystic Fibrosis IB3-1 Cells. Mediators Inflamm. 2017; 2017: 2389487.

Fabbri E, Tamanini A, Jakova T, Gasparello J, Manicardi A, Corradini RSabbioni G, Finotti A, Borgatti M, Lampronti I, Munari S, **Dechecchi MC**, Cabrini G, Gambari R. A Peptide Nucleic Acid against MicroRNA miR-145-5p Enhances the Expression of the Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) in Calu-3 Cells. Molecules. 2017 Dec 29;23(1).

Lampronti I, **Dechecchi MC**, Rimessi A, Bezzerri V, Nicolis E, Guerrini A,Tacchini M, Tamanini A, Munari S, D'Aversa E, Santangelo A, Lippi G, Sacchetti G,Pinton P, Gambari R, Agostini M, Cabrini G. β-Sitosterol Reduces the Expression of Chemotactic Cytokine Genes in Cystic Fibrosis Bronchial Epithelial Cells.Front Pharmacol. 2017 May 12;8:236.

Schiumarini D, Loberto N, Mancini G, Bassi R, Giussani P, Chiricozzi E, Samarani M, Munari S, Tamanini A, Cabrini G, Lippi G, **Dechecchi MC**, Sonnino S,Aureli M. Evidence for the Involvement of Lipid Rafts and Plasma Membrane Sphingolipid Hydrolases in Pseudomonas aeruginosa Infection of Cystic Fibrosis Bronchial Epithelial Cells. Mediators Inflamm. 2017;2017:1730245.

Santangelo A, Tamanini A, Cabrini G, **Dechecchi MC**. Circulating microRNAs as emerging non-invasive biomarkers for gliomas. Ann Transl Med. 2017 Jul;5(13):277.Review

Brognara E, Fabbri E, Montagner G, Gasparello J, Manicardi A, Corradini R,Bianchi N, Finotti A, Breveglieri G, Borgatti M,Lampronti I, Milani R, **DechecchiMC**, Cabrini G, Gambari R. High levels of apoptosis are induced in human gliomacell lines by co administration of peptide nucleic acids targeting miR-221 and miR-222. Int J Oncol. 2016 Mar;48(3):1029-38.

Khalil S, Fabbri E, Santangelo A, Bezzerri V, Cantù C, Di Gennaro G, Finotti A, Ghimenton C, Eccher A, **Dechecchi MC**, Scarpa A, Hirshman B, Chen C, Ferracin M, Negrini M, Gambari R, Cabrini G. miRNA array

screening reveals cooperative MGMT-regulation between miR-181d-5p and miR-409-3p in glioblastoma. Oncotarget.2016 May 10;7(19):28195-206.

Aureli M, Schiumarini D, Loberto N, Bassi R, Tamanini A, Mancini G, Tironi M,Munari S, Cabrini G, **Dechecchi MC**, Sonnino S. Unravelling the role of sphingolipids in cystic fibrosis lung disease. Chem Phys Lipids. 2016 Oct;200:94-103. Review.

Prandini P, De Logu F, Fusi C, Provezza L, Nassini R, Montagner G, Materazzi S, Munari S, Gilioli E, Bezzerri V, Finotti A, Lampronti I, Tamanini A**, Dechecchi MC**, Lippi G, Ribeiro CM, Rimessi A, Pinton P, Gambari R, Geppetti P, Cabrini G. Transient Receptor Potential Ankyrin 1 Channels Modulate Inflammatory Response in Respiratory Cells from Patients with Cystic Fibrosis. Am J Respir Cell Mol Biol. 2016 Nov;55(5):645-656.

Cabrini G, Fabbri E, Lo Nigro C, **Dechecchi MC**, Gambari R. Regulation of expression of O6-methylguanine-DNA methyltransferase and the treatment of glioblastoma (Review). Int J Oncol. 2015 Aug;47(2):417-28.
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Bezzerri V, Avitabile C, **Dechecchi MC**, Lampronti I, Borgatti M, Montagner G,Cabrini G, Gambari R, Romanelli A. Antibacterial and anti-inflammatory activity of a temporin B peptide analogue on an in vitro model of cystic fibrosis. J Pept Sci. 2014 Oct;20(10):822-30.

Loberto N, Tebon M, Lampronti I, Marchetti N, Aureli M, Bassi R, Giri MG,Bezzerri V, Lovato V, Cantù C, Munari S, Cheng SH, Cavazzini A, Gambari R,Sonnino S, Cabrini G, Dechecchi MC. GBA2-encoded β-glucosidase activity isinvolved in the inflammatory response to Pseudomonas aeruginosa. PLoS One. 2014 Aug 20;9(8)

Fabbri E, Borgatti M, Montagner G, Bianchi N, Finotti A, Lampronti I, Bezzerri V, Dechecchi MC, Cabrini G, Gambari R. Expression of microRNA-93 and Interleukin-8 during Pseudomonas aeruginosa-mediated induction of proinflammatory responses. Am J Respir Cell Mol Biol. 2014 Jun;50(6):1144-55.

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