

## INFORMAZIONI PERSONALI

### Chiara De Leonibus, PhD, MD

+39 347 1834224 (IT)

[chiara.deleonibus@unibas.it](mailto:chiara.deleonibus@unibas.it)

Femmina | Nata a Chieti il 20 Maggio 1985 | Nazionalità: Italiana

Lingua madre: Italiano

Altre lingue: Inglese (CERTIFICATO ACCADEMICO IELTS: Punteggio totale: 7.0)

## ESPERIENZE LAVORATIVE

- 2020-Oggi **Post-Doc** presso il Telethon Institute of Genetics and Medicine (TIGEM), Pozzuoli (NA), Italia
- 2015-2019 **PhD in Genetica Umana** della European School of Molecular Medicine (SEMM), Telethon Institute of Genetics and Medicine (TIGEM), Pozzuoli (NA), Italia
- 2010-2015 **Specializzanda in Pediatria** presso l'Università G. D'Annunzio di Chieti, Chieti (CH), Italia
- 2012-2014 **Clinical Researcher** presso il Dipartimento di Endocrinologia Pediatrica, Royal Manchester Children's Hospital, UK

## ISTRUZIONE E FORMAZIONE

- 2015-2019 **PhD in Genetica Umana** della European School of Molecular Medicine (SEMM), presso il TIGEM, Pozzuoli (NA), Italia. Titolo della tesi: "A selective ER-phagy exerts procollagen quality control via a Calnexin-FAM134B complex"
- 2014-2015 **MPhil Degree** (Master of Philosophy) presso la Facoltà di Medicina e Chirurgia, Università di Manchester (UK). Titolo della tesi: "Pharmacogenomics applied to growth disorders: impact of genes on clinical and cellular responses to recombinant human growth hormone (r-hGH) and on Zebrafish growth"
- 2010-2015 **Specializzazione in Pediatria** presso l'Università G. D'Annunzio di Chieti, Italia con voto 70/70 cum laude. Titolo della tesi: "Pharmacogenomics applied to growth disorders: impact of genes on clinical and cellular responses to recombinant human growth hormone (r-hGH) and on Zebrafish growth"
- 2003-2009 **Laurea in Medicina e Chirurgia** presso l'Università "Federico II" di Napoli con voto 110/110 cum laude. Titolo della tesi (in Pediatria): "Study of the GH-IGF-1 axis and the effect of GH therapy in children with idiopathic short stature"
- 2006-2007 **Programma Erasmus** presso l'Università di Kuopio, Finlandia. Studente visitatore presso il Dipartimento di Pediatria, Università di Kuopio, Finlandia da Settembre 2006 a Luglio 2007

## ATTIVITÀ DIDATTICA

- 2023-Oggi **RTDA** in Genetica Medica (SSD: MED/03) per il Corso di laurea magistrale a ciclo unico in Medicina e Chirurgia, Università degli studi della Basilicata (UNIBAS), Potenza
- 2020-2023 **Attività di co-tutor** di dottorandi iscritti al dottorato in "Genomic and Experimental Medicine (GEM)" della Scuola Superiore Meridionale e "Human Genetics" della Open University. Sede di svolgimento del progetto: Telethon Institute of Genetics and Medicine (TIGEM), Pozzuoli (NA)
- 2018 **Tutoraggio studente** per progettazione ed esecuzione di lavoro sperimentale di tesi di Laurea magistrale in Biotecnologie Mediche, Università Federico II di Napoli. Sede di svolgimento del lavoro sperimentale: Telethon Institute of Genetics and Medicine (TIGEM), Pozzuoli (NA)

## INFORMAZIONI ADDIZIONALI

## Premi e Riconoscimenti

Giugno 2020-Gennaio 2021 **Assegno di Ricerca** approvato dal Ministero dell'Istruzione, dell'Università e della Ricerca (MIUR) - PROGETTO: 000013\_2020\_C; CUP: E64I19000320008. THERA4GROWTH –POC01\_0078 "Innovative therapeutic approaches for treatment of skeletal disorders". **12.500,00 €**

2020 Premio **L'Oréal-UNESCO For Women in Science**, 2020. **20.000,00 €**

2015 **PhD Scholarship della European School of Molecular Medicine (SEMM)** – Durata: 4 anni. **75.000,00 €**

2012 **Long Term ESPE Research Fellowship** sponsorizzato dalla "European Society for Paediatric Endocrinology" (ESPE), da spendere presso l'Università di Manchester, Royal Manchester Children's Hospital, Manchester, UK (periodo di due anni: da Settembre 2012 a Settembre 2014) **106.150,00 €**

### Travel Grants:

2020 **Premio per la migliore presentazione** per la Sessione Scientifica – Meeting di Istologia ed Embriologia 2020, Virtual Meeting. Titolo della presentazione: Transcriptional regulation of selective autophagy controls endoplasmic reticulum functions in chondrocytes during skeletal growth. **500,00 €**

2019 **B2 Scholarship** per il Meeting KEYSTONE SYMPOSIA, Autophagy: From model systems to therapeutic opportunities (B2), Santa Fe, New Mexico, USA. **\$1.200,00 (equivalente a 1.023,38 €)**

2014 Vincitrice dell'**ESPE Travel Grant** per il 53<sup>rd</sup> Annual ESPE Meeting in Dublino, Irlanda, dal 18 al 20 Settembre 2014. Sponsorizzato dalla "European Society for Paediatric Endocrinology" (ESPE). **500,00 €**

## Progetti di Ricerca

2020-Oggi Progetto di Ricerca: "Modulation of *autophagy to promote cellular clearance in collagenopathies*"

2015-2019 Progetto di Ricerca: "*Autophagy of Procollagen: A Selective ER-Phagy Exerts Procollagen Quality Control via a CALNEXIN-FAM134B Complex*"

2012-2014 Progetto di Ricerca: "*Pharmacogenomics applied to Growth Disorders: Assessment of the Impact of Gene Polymorphisms Associated with Responses to Recombinant Human Growth Hormone (r-hGH) in vitro and in vivo models*"

## Partecipazione a Studi Internazionali Multi-Centrici – Trials Clinici

2014-1015 1. Study Coordinator dello studio clinico multi-centrico MK0431-083 (Merck) con lo scopo di valutare l'effetto e la tollerabilità del farmaco Sitagliptin per il trattamento del T2DM in pazienti pediatrici.

2012-2014 2. Studio PREDICT sulla terapia con ormone della crescita (GH) (NCT00699855; Merck Serono S.A. – Geneva, Study 28614)

## Membership

Membro della *Società Italiana di Ricerca in Pediatria (SIRP)*  
Membro della *Italian Society of Cell Biology and Differentiation (ABCD)*  
Membro della *European Calcified Tissue Society (ECTS)*

1. **De Leonibus C**, Settembre C. Titolo: Selective delivery of cargo substrates to lysosomes via autophagy and nonautophagic pathways. Global Symposium on Lysosomal Storage Diseases (GSLSD), 11-12 Marzo 2021, Global Virtual Meeting
2. **De Leonibus C**, Cinque L, lavazzo M, Grumati P, Settembre C. Titolo: Transcriptional regulation of selective autophagy controls endoplasmic reticulum functions in chondrocytes during skeletal growth. Scientific Session – Histology and Embryology Meeting 2020, 26 Ottobre 2020, Virtual Meeting
3. **De Leonibus C**, Forrester A, Settembre C. Titolo: Selective ER-Phagy Exerts Procollagen Quality Control via a CALNEXIN-FAM134B Complex. KEYSTONE SYMPOSIA, Autophagy: From model systems to therapeutic opportunities (B2), 17-21 Febbraio 2019, Santa Fe, New Mexico, USA
4. **De Leonibus C**, Forrester A, Settembre C. Titolo: A selective ER-phagy exerts procollagen quality control via a Calnexin-FAM134B Complex. Membrane Trafficking and Organelle Biogenesis, 14-15 Ottobre 2018, Sorrento, Italia
5. **De Leonibus C**, Settembre C. Titolo: Unravelling the role of Arylsulfatase E (ARSE) in bone mineralization and development. EMBO Young Investigator Programme YIP PhD Course, 20-25 Novembre 2017, EMBL Heidelberg, Germania
6. **De Leonibus C**, Chatelain P, Knight C, Clayton P, Stevens A. Titolo: Effect of summer daylight exposure and genetic background on growth in growth hormone deficient (GHD) children. 97<sup>th</sup> ENDO Conference, 5-8 Marzo 2015, San Diego, CA, USA
7. **De Leonibus C**, Barinaga-Rementeria Ramirez I, Hurlstone A, Murray, Clayton P, Stevens A. Titolo: The effect of GRB10-deficiency in Zebrafish: a translational animal model to study human growth. 53<sup>rd</sup> Annual meeting ESPE, 18-20 Settembre 2014, Dublino (Irlanda)
8. **De Leonibus C**, Hanson D, Murray P, Stevens A, Clayton P. Titolo: The rs1024531 GRB10 promoter polymorphism is associated with response to growth hormone (GH) therapy in patients with GH deficiency (GHD): validation by in vitro functional analysis. 53<sup>rd</sup> Annual meeting ESPE, 18-20 Settembre 2014, Dublino (Irlanda)
9. **De Leonibus C**, Chatelain P, Clayton P, Stevens A. Titolo: Effect of latitude, summer daylight exposure and genetic background on growth response to recombinant human GH in GH deficient patients. Manchester Institute's External Advisory Panel, 19 Febbraio 2014, Manchester, UK
10. **De Leonibus C**, Chatelain P, Destevenas B, Clayton P, Stevens A, the PREDICT Investigator Group. Titolo: Effect of genetic background and latitude of study site on growth response to recombinant human growth hormone in patients with GH deficiency: a post-hoc analysis of PREDICT. 9th Joint Meeting of Pediatric Endocrinology, 19-22 Settembre 2013, Milano (Italia)

#### Pubblicazioni su riviste con IF

1. Gene expression signatures predict response to therapy with growth hormone. Stevens A, Murray P, **De Leonibus C**, Garner T, Koledova E, Ambler G, Kapelari K, Binder G, Maghnie M, Zucchini S, Bashnina E, Skorodok J, Yeste D, Belgorosky A, Siguero JL, Coutant R, Vangsøy-Hansen E, Hagenäs L, Dahlgren J, Deal C, Chatelain P, Clayton P. *Pharmacogenomics J.* 2021. PMID: 34045667. **IF: 3.55**
2. Guidelines for the use and interpretation of assays for monitoring autophagy (4th edition)<sup>1</sup>. Klionsky DJ, ...**De Leonibus C**, et al. *Autophagy.* 2021. PMID: 33634751. **IF: 16.016**
3. MiT/TFE factors control ER-phagy via transcriptional regulation of FAM134B. Cinque L, **De Leonibus C**, lavazzo M, Krahmer N, Intartaglia D, Salierno FG, De Cegli R, Di Malta C, Svelto M, Lanzara C, Maddaluno M, Wanderlingh LG, Huebner AK, Cesana M, Bonn F, Polishchuk E, Hübner CA, Conte I, Dikic I, Mann M, Ballabio A, Sacco F, Grumati P, Settembre C. *EMBO J.* 2020. PMID: 32716134. **IF: 11.2**

4. Beating the ER: Novel insights in FAM134B function and regulation. **De Leonibus C**, Cinque L, Settembre C. *EMBO J*. 2020. PMID: 32073155. **IF: 11.2**
5. Emerging lysosomal pathways for quality control at the endoplasmic reticulum. **De Leonibus C**, Cinque L, Settembre C. *FEBS Lett*. 2019. PMID: 31388984. **IF: 2.675**
6. A selective ER-phagy exerts procollagen quality control via a Calnexin-FAM134B complex. Forrester A\*, **De Leonibus C\***, Grumati P, Fasana E, Piemontese M, Staiano L, Fregno I, Raimondi A, Marazza A, Bruno G, Iavazzo M, Intartaglia D, Seczynska M, van Anken E, Conte I, De Matteis MA, Dikic I, Molinari M, Settembre C. *EMBO J*. 2018. PMID:30559329. **IF: 10.557 (\*) Co-first Authors**
7. Defective collagen proteostasis and matrix formation in the pathogenesis of lysosomal storage disorders. Settembre C, Cinque L, Bartolomeo R, Di Malta C, **De Leonibus C**, Forrester A. *Matrix Biol*. 2018. Review. PMID:29870768. **IF: 8.136**
8. The in vitro functional analysis of single-nucleotide polymorphisms associated with growth hormone (GH) response in children with GH deficiency. **De Leonibus C**, Murray P, Garner T, Hanson D, Clayton P, Stevens A. *Pharmacogenomics J*. 2018. PMID:29855605. **IF: 3.812**
9. Transcriptomics and machine learning predict diagnosis and severity of growth hormone deficiency. Murray PG, Stevens A, **De Leonibus C**, Koledova E, Chatelain P, Clayton PE. *JCI Insight*. 2018. PMID:29618660. **IF: 5.324**
10. mTORC1 hyperactivation arrests bone growth in lysosomal storage disorders by suppressing autophagy. Bartolomeo R, Cinque L, **De Leonibus C**, Forrester A, Salzano AC, Monfregola J, De Gennaro E, Nusco E, Azario I, Lanzara C, Serafini M, Levine B, Ballabio A, Settembre C. *J Clin Invest*. 2017. PMID:28872463. **IF: 13.25**
11. Acquired cross-linker resistance associated with a novel spliced BRCA2 protein variant for molecular phenotyping of BRCA2 disruption. Meyer S, Stevens A, Paredes R, Schneider M, Walker MJ, Williamson AJK, Gonzalez-Sanchez MB, Smetsers S, Dalal V, Teng HY, White DJ, Taylor S, Muter J, Pierce A, **De Leonibus C**, Rockx DAP, Roomans MA, Spooner E, Stauffer S, Biswas K, Godthelp B, Dorsman J, Clayton PE, Sharan SK, Whetton AD. *Cell Death Dis*. 2017. PMID:28617445. **IF: 5.638**
12. Low-dose Gene Therapy Reduces the Frequency of Enzyme Replacement Therapy in a Mouse Model of Lysosomal Storage Disease. Alliegro M, Ferla R, Nusco E, **De Leonibus C**, Settembre C, Auricchio A. *Mol Ther*. 2016. PMID:27658524. **IF: 6.688**
13. Network analysis and juvenile idiopathic arthritis (JIA): a new horizon for the understanding of disease pathogenesis and therapeutic target identification. Donn R, **De Leonibus C**, Meyer S, Stevens A. *Pediatr Rheumatol Online J*. 2016.Review. PMID:27411317. **IF: 2.283**
14. Growth Hormone Deficiency in Prepubertal Children: Predictive Markers of Cardiovascular Disease. **De Leonibus C**, De Marco S, Stevens A, Clayton P, Chiarelli F, Mohn A. *Horm Res Paediatr*. 2016. PMID:26960169. **IF: 1.844**
15. Influence of inhaled corticosteroids on pubertal growth and final height in asthmatic children. **De Leonibus C**, Attanasi M, Roze Z, Martin B, Marcovecchio ML, Di Pillo S, Chiarelli F, Mohn A. *Pediatr Allergy Immunol*. 2016. PMID:26919136. **IF: 3.775**
16. Effect of summer daylight exposure and genetic background on growth in growth hormone deficient children. **De Leonibus C**, Chatelain P, Knight C, Clayton P and Stevens A. *Pharmacogenomics J*. 2016. PMID: 26503811. **IF: 3.815**
17. Lamellar ichthyosis and arthrogyriposis in a premature neonate. **De Leonibus C**, Lembo C, Santantonio A, Fioretti T, Salvatore F, De Vivo M, Esposito G, Giliberti P. *J Dermatol Case Rep*. 2015. PMID: 26236414. **IF: 1.33**
18. Cerebral, renal and mesenteric regional oxygen saturation of term infants during transition. Montaldo P, **De Leonibus C**, Giordano L, De Vivo M, Giliberti P. *J Pediatr Surg* 2015. PMID: 25933924. **IF: 1.97**

19. Circulating asymmetric dimethylarginine and lipid profile in pre-pubertal children with growth hormone deficiency: effect of 12-month growth hormone replacement therapy. De Marco S, Marcovecchio ML, Caniglia D, **De Leonibus C**, Chiarelli F, Mohn A. *Growth Horm IGF Res* 2014. PMID: 25172154. **IF: 1.407**
20. EVI1 expression in childhood acute lymphoblastic leukaemia is not restricted to MLL and BCR/ABL rearrangements and is influenced by age. Stevens A, Hanson D, **De Leonibus C**, Whatmore A, Donn R, White D, Liu J, van den Heuvel-Eibrink M, Saha V, Clayton P, Meyer S. *Blood Cancer J* 2014. PMID: 24464103. **IF: 3.467**
21. Insights into the Pathophysiology of Catch-Up Compared to Non-Catch-Up Growth in Children Born Small for Gestational Age (SGA): An Integrated Analysis of Metabolic and Transcriptomic Data. Stevens A, Bonshek C, Whatmore A, Butcher I, Hanson D, **De Leonibus C**, Shaikh G, Brown M, O'Shea E, Victor S, Powell P, Settle P, Padmakumar B, Tan A, Odeka E, Cooper C, Birch J, Shenoy A, Westwood M, Patel L, Dunn BW, Clayton P. *Pharmacogenomics J* 2014. PMID: 24614687. **IF: 4.59**
22. Pharmacogenomics Related to Growth Disorders. Stevens A, **De Leonibus C**, Whatmore A, Hanson D, Murray P, Chatelain P, Westwood M, Clayton P. *Horm Res Paediatr* 2013; 80(6):477-490. PMID: 24296333. **IF: 1.713**
23. Pediatric perspective on pharmacogenomics. Stevens A, **De Leonibus C**, Hanson D, Whatmore A, Murray P, Donn R, Meyer S, Chatelain P, Clayton P. *Pharmacogenomics* 2013. PMID: 24236488. **IF: 3.425**
24. Network analysis: a new approach to study endocrine disorders. Stevens A, **De Leonibus C**, Hanson D, Dowsey AW, Whatmore A, Meyer S, Donn RP, Chatelain P, Banerjee I, Cosgrove KE, Clayton PE, Dunne MJ. *J Mol Endocrinol* 2013. PMID: 24085748. **IF: 4.022**
25. Timing of puberty and physical growth in obese children: a longitudinal study in boys and girls. **De Leonibus C**, Marcovecchio ML, Chiavaroli V, de Giorgis T, Chiarelli F, Mohn A. *Pediatr Obes* 2013. PMID: 23713062. **IF: 4.573**
26. Update on statural growth and pubertal development in obese children. **De Leonibus C**, Marcovecchio ML, Chiarelli F. *Pediatr Rep.* 2012. PMID:23355935. **IF: 0.84**
27. Brugada syndrome unmasked by febrile illness in an asymptomatic child. De Marco S, Giannini C, Chiavaroli V, **De Leonibus C**, Chiarelli F, Mohn A. *J Pediatr* 2012. PMID: 22608909. **IF: 2.70**
28. Thyroid dysfunction in obese pre-pubertal children: oxidative stress as a potential pathogenetic mechanism. D'Adamo E, **De Leonibus C**, Giannini C, Corazzini V, De Remigis A, Chiarelli F, Mohn A. *Free Radic Res* 2012. PMID: 22239613. **IF: 3.279**
29. A case of neonatal lupus syndrome and congenital atrioventricular block associated with maternal antibodies antiRo/SS-A. **De Leonibus C**, Lembo C, Giliberti P, Rojo S, Foglia MC, Giordano L, Fratta A. *Minerva Pediatr* 2012. PMID: 22495199. **IF: 0.638**
30. Hypophosphatasia in a child with widened anterior fontanelle: lessons learned from late diagnosis and incorrect treatment. Mohn A, **De Leonibus C**, de Giorgis T, Mornet E, Chiarelli F. *Acta Paediatr* 2011. PMID: 21342251. **IF: 2.073**
31. Cancrum oris in a boy with Down syndrome. Lembo S, **De Leonibus C**, Francia MG, Lembo C, Ayala F. *J Am Acad Dermatol* 2011. PMID: 21571193. **IF: 3.37**
32. The scenarios of shock in newborn infants. Giliberti P, Giordano L, Chello G, **De Leonibus C**, Giliberti P. *J Matern Fetal Neonatal Med* 2010. PMID: 20695755. **IF: 1.20**
33. The physiopathology of the patent ductus arteriosus. Giliberti P, **De Leonibus C**, Giordano L, Giliberti P. *J Matern Fetal Neonatal Med* 2009. PMID: 19718587. **IF: 2.47**

#### Pubblicazioni su riviste Nazionali

1. Near-infrared spectroscopy in neonatal intensive care unit: do we make our life more difficult? Giliberti P, **De Leonibus C**, Chello G, Magri D, Giordano L, Montaldo P, De Vivo M. JPNIM 2013; 2(2):e020223.

#### Capitoli

1. Network analysis and juvenile idiopathic arthritis (JIA): a new horizon for the understanding of disease pathogenesis and therapeutic target identification. Donn R, **De Leonibus C**, Meyer S, Stevens A. Chapter in "Contemporary Approaches to Juvenile Idiopathic Arthritis" Editors: Roberta Berard (LHSC Ontario Canada) & Ronald M Laxer (The Hospital for Sick Children Ontario Canada). Future Publishing Group (Accepted for publication).
2. Topical erythromycin for the treatment of atopic dermatitis in children. Lembo C, Patruno C, **De Leonibus C**, Panariello L, Lembo S, Ayala F. Annali italiani di dermatologia allergologica 2011; 65:113-118.

**H-Index: 15.0; Citazioni Totali: 1315; Impact Factor Totale: 152.83.** (Fonti: Scopus Author ID: 36096500400; Web of Science ID: AAB-9392-2019). La lista completa disponibile in: <https://www.ncbi.nlm.nih.gov/pubmed/?term=de+leonibus+c>

Autorizzo al trattamento dei dati personali ai sensi del D. Lgs 196/2003

La sottoscritta, Chiara De Leonibus, consapevole che le dichiarazioni false comportano l'applicazione delle sanzioni penali previste dall'art. 76 del D.P.R. 445/2000, dichiara che le informazioni riportate nel seguente curriculum vitae, redatto in formato europeo, corrispondono a verità

Luogo e Data: Napoli, 03/05/2022

Dott.ssa Chiara De Leonibus

