



CURRICULUM VITAE REDATTO AI SENSI DEGLI ARTT. 46 E 47 DEL

D.P.R. 28.12.2000, N. 445

La sottoscritta Eleonora Maurizi

è consapevole che in caso di dichiarazioni non veritiere, di formazione o uso di atti falsi verrà punito ai sensi del Codice Penale e delle Leggi speciali in materia così come previsto dall'art. 76 del D.P.R. n. 445/2000 e che, inoltre, qualora dal controllo effettuato emerga la non veridicità del contenuto delle dichiarazioni rese, decadrà dai benefici eventualmente conseguenti al provvedimento emanato sulla base della dichiarazione non veritiera – art. 75 del D.P.R. n. 445/2000.

Personal information

First name / Surname **Eleonora Maurizi**
E-mail **eleonora.maurizi@unimore.it**
Nationality **Italian**
Date of birth **20 / 07 / 1987**
Bibliographic ID **Scopus: 56037060700**
ORCID: 0000-0002-8032-6355
ResearcherID: AAC-1076-2019

Work history

Date	April 2023 – current
Position	Researcher (RTD-A) in BIO/13
Institution	University of Modena and Reggio Emilia, Unimore - CidStem
Date	April 2021-March 2023
Position	Post Doc Fellowship
Institution	University of Modena and Reggio Emilia, Unimore - CidStem
Date	November 2020-February 2020
Position	Broad- spectrum research technician
Company	Holostem Terapie Avanzate
Date	October 2020-November 2020
Position	Post Doc Fellowship
Institution	University of Modena and Reggio Emilia, Unimore - CidStem
Date	July 2018- July 2020
Position	Post Doc Fellowship
Institution	University of Parma
Date	May 2017- July 2018
Position	Post Doc Fellowship
Institution	University of Parma
Visiting experience	King's College London (Prof. Chiappini), Tigem Napoli (Prof. Surace)
Date	January 2017-May 2017
Position	Post Doc Research Associated (PDRA)
Institution	Ulster University (Prof. Moore)
Date	August 2012 – December 2013
Position	Post graduation fellowship
Institute	University-Hospital of Parma, Centre for Regenerative Medicine “S Ferrari” Modena
Supervisor	Prof. Macaluso and Prof. Pellegrini
Visiting experience	Doshisha University, Kyoto, Japan (supervision of Prof. Koizumi N.)

Education and training

Date January 2014 – December 2016
Position **Doctoral degree - PhD in Biomedical Sciences**
Institution providing education Ulster University, UK – Life and Health Sciences
Supervisor Prof. Moore
Thesis theme A genetic and molecular investigation into the pathomechanism of pterygium

Date October 2009 – April 2012
Title of qualification awarded **Medical, Veterinary and Pharmaceutical Biotechnology MS degree (LM-9)**
Institution providing education University of Parma
Mark **110/110 cum laude**
Institute providing training Centre for Regenerative Medicine “Stefano Ferrari” Modena
Supervisor Prof. Macaluso and Prof. Pellegrini
Thesis theme Study of corneal endothelial cells for applications in regenerative medicine

Date October 2006 – July 2009
Title of qualification awarded **Biotechnology BS degree**
Institution providing education University of Parma
Supervisor Prof. Rotoli
Thesis theme Using confocal microscopy for the detection of cytotoxicity mediated by contact with nanostructured material.

Teaching

19-20 June 2024: Unimore MRM PhD course: “Intracellular regulation: advanced materials and small molecules”
March-May 2024: Unimore “Applied biochemistry” in Pharmacy degree (LM-13), Life Sciences Department
December 2021: Utrecht Univ. Seminar on Corneal endothelium
January 2021: UniMore "Seminars in life sciences", at Medical Biotechnology MS course
May 2018: UniPr Seminar titled “Ocular Tissue regeneration” at Medical Biotechnology course
May 2017: UniPr Seminar titled “Genetic diseases of the eye” at Medical Biotechnology course
October 2017-June 2018 High school teacher (I.S.I.S.S. Pietro Giordani Parma)
January-April 2015: Ulster Univ. Dr. Stephen McClean assistant in “Biochemistry” for Biomedical Sciences, Biology, Nutrition and Pharmacy degree course

Publications

- 1. Cell therapy in the cornea: the emerging role of microenvironment.** Suanno G, Genna VG, Maurizi E, Dieh AA, Griffith M, Ferrari G. Prog Retin Eye Res. 2024 May 24;101275.
- 2. Impact of culture media on primary human corneal endothelial cells derived from old donors.** Merra A, Maurizi E, Pellegrini G. 2024 Exp Eye Res. 2024 Mar;240:109815.
- 3. GSK-3 inhibition reverts mesenchymal transition in human primary corneal endothelial cells.** Maurizi E, Merra A, Macaluso C, Schioli D, Pellegrini G. Eur J Cell Biol. 2023 Mar 7;102(2):151302.
- 4. Preparation of human primary macrophages to study the polarization from monocyte-derived macrophages to pro- or anti-inflammatory macrophages at biomaterial interface in vitro.** Parisi L, Bianchi MG, Ghezzi B, Maurizi E, Macaluso GM, Bussolati O, Lumetti S. Journal of dental sciences. 2023 Feb 13.

Publications

- 5. Mother-newborn ABO group discrepancy caused by a rare BW.17 variant.** Marraccini C, Iotti B, Vanzanelli P, Bedeschi E, Farnetti E, Nicoli D, Berni P, Razzoli A, Maurizi E, Gavioli G, Mazzi A, Baricchi R, Merolle L, Schirotti D. *Transfusion and apheresis science*, 2022 Dec 10; 103621.
- 6. Nanoneedles Induce Targeted siRNA Silencing of p16 in the Human Corneal Endothelium.** Maurizi E, Martella DA, Schirotti D, Merra A, Mustfa SA, Pellegrini G, Macaluso C, Chiappini C. *Adv Sci (Weinh)*. 2022 Oct 17; e2203257.
- 7. Fluctuations in Corneal Endothelial LAP2 Expression Levels Correlate with Passage Dependent Declines in Their Cell Proliferative Activity.** Maurizi E, Merra A, Schirotti D, Ghezzi B, Macaluso C, Pellegrini G. *Int J Mol Sci*. 2022 May;23(10):5859.
- 8. Platelet-rich Plasma Lysate for Treatment of Eye Surface Diseases.** Merolle L, Iotti B, Berni P, Bedeschi E, Boito K, Maurizi E, Gavioli G, Razzoli A, Baricchi R, Marraccini C, Schirotti D. *J. Vis. Exp*. 2022 June 27, e63772.
- 9. The cell as a tool to understand and repair urethra.** Sceberas V, Magrelli FM, Adamo D, Maurizi E, Attico E, Genna V, Lazzeri M, Barbagli G, Pellegrini G. *Scientific Advances in Reconstructive Urology and Tissue Engineering*. 2022; 1-24.
- 10. Regenerative medicine of epithelia: lessons from the past and future goals.** Maurizi E, Adamo D, Magrelli F, Galaverni G, Attico E, Merra A, Losi L, Maffezzoni BMR, Genna V, Sceberas V, Pellegrini G. *Front Bioeng Biotechnol* 2021 Mar 25;9:652214.
- 11. Nanomedicine Approaches to Negotiate Local Biobarriers for Topical Drug Delivery.** Mustfa SA, Maurizi E, McGrath J, Chiappini C. *Advanced Therapeutics*. 2021 Jan, 4(1), 2000160.
- 12. A fine-tuned β -catenin regulation during proliferation of corneal endothelial cells revealed using proteomics analysis.** Maurizi E, Schirotti D, Zini R, Limongelli A, Mistò R, Macaluso C, and Pellegrini G. *Sci. Rep*. 2020 Aug 14; 10(1):13841.
- 13. A novel role for CRIM1 in the corneal response to UV and pterygium development.** Maurizi E, Schirotti D, Atkinson SD, Mairs L, Courtney DG, O'Hagan B, McGilligan VE, Pagnamenta AT, Taylor JC, Vasquez JJD, Illanes-Velarde DE, Goldsmith D, Gouws P, Moore JE, Nesbit MA, Moore CBT. *Exp Eye Res*. 2019 Feb;179:75-92.
- 14. Effective In Vivo Topical Delivery of siRNA and Gene Silencing in Intact Corneal Epithelium Using a Modified Cell-Penetrating Peptide.** Schirotti D, Gómara MJ, Maurizi E, Atkinson SD, Mairs L, Christie KA, Cobice DF, McCrudden CM, Nesbit MA, Haro I, Moore T. *Mol Ther Nucleic Acids*. 2019 Sep 6;17:891-906.
- 15. CRISPR/Cas9 DNA cleavage at SNP-derived PAM enables both in vitro and in vivo KRT12 mutation-specific targeting.** Courtney DG, Moore JE, Atkinson SD, Maurizi E, Allen EH, Pedrioli DM, McLean WH, Nesbit MA, Moore CB. *Gene Ther* 2016 Jan; 23(1):108-12.
- 16. Keratin 12 missense mutation induces the unfolded protein response and apoptosis in Meesmann epithelial corneal dystrophy.** Allen EH, Courtney DG, Atkinson SD, Moore JE, Mairs L, Toftgaard Poulsen E, Schirotti D, Maurizi E, Cole C, Hickerson RP, James J, Murgatroyd H, Smith FJ, MacEwen C, Enghild JJ, Nesbit MA, Leslie Pedrioli DM, McLean WH, Moore CB. *Hum Mol Genet*. 2016 Jan 11.

17. Protein Composition of TGFBI-R124C- and TGFBI-R555W-Associated Aggregates Suggests Multiple Mechanisms Leading to Lattice and Granular Corneal Dystrophy. Courtney DG, Poulsen ET, Kennedy S, Moore JE, Atkinson SD, Maurizi E, Nesbit MA, Moore CB, Enghild JJ. *IOVS*. 2015 Jul;56(8):4653-61.

18. siRNA silencing of the mutant keratin 12 allele in corneal limbal epithelial cells grown from patients with Meesmann's epithelial corneal dystrophy. Courtney DG, Atkinson SD, Allen EH, Moore JE, Walsh CP, Pedrioli DM, MacEwen CJ, Pellegrini G, Maurizi E, Serafini C, Fantacci M, Liao H, Irvine AD, McLean WH, Moore CB. *IOVS*. 2014 May 6;55(5):3352-60.

19. Development of allele-specific gene-silencing siRNAs for TGFBI Arg124Cys in lattice corneal dystrophy type I. Courtney DG, Atkinson SD, Moore JE, Maurizi E, Serafini C, Pellegrini G, Black GC, Manson FD, Yam GH, Macewen CJ, Allen EH, McLean WH, Moore CB. *IOVS*. 2014 Feb 18;55(2):977-85.

Patents

Patent deposition, title: "**Method for mesenchymal phenotype reversion in primary human corneal endothelial cells**" (italian n.: 102022000020061, international n.: PCT/EP2023/076499 - ITPF5927/WO)

Conferences

- 8-9 June 2024, online **EKLG Global Summit, Oral presentation**
- 14-17 June 2023, Boston **ISSCR Annual Meeting, Poster:** A new path to regenerate corneal endothelium: gsk-3 inhibition reverts mesenchymal transition in primary human corneal endothelial cells. Maurizi E, Merra A, Schioli D, Macaluso C, Pellegrini G.
- 6-7-8 March 2023, online **Cells2023.sciforum, Oral presentation:** Corneal epithelial and endothelial regeneration
- 23-25 September 2022, Roma **AIBG Conference, Oral presentation:** Novel insights into corneal endothelial cell proliferation
- 30 June-1/2 July 2022, Firenze **SICSSO Conference, Poster:** Novel insights into corneal endothelial cell proliferation. Maurizi E, Merra A, Schioli D, Macaluso C, Pellegrini G.
- 16-21 February 2020, Lucca **Gordon Conference: Cornea and Ocular Surface Biology and Pathology Discussion Leader** at the session: Transcriptomics and Proteomics: Corneal Cell Types and Changes in Disease
Poster: Corneal endothelial cells proteomics revealed a fine β -catenin regulation during proliferation. Maurizi E, Schioli D, Zini R, Limongelli A, Mistò R, Macaluso C, and Pellegrini G.
- 11-13 December 2019, Milano **Nano Day Congress, Poster:** Biodegradable nanoneedles for delivery of nucleic acids into the cornea. Maurizi E, Schioli D, Limongelli A, Mistò R, Chiappini C, Macaluso C
- 12-14 July 2017, Parma **Nano Day Congress**
- 21-24 May 2016, Barcelona **ESHG Conference**
- 16 October 2015, Liverpool **LSCF Meeting, Poster:** Whole exome sequence analysis of pterygium in a multigenerational Northern Irish family. Maurizi E, Schioli D, Nesbit MA, Moore JE, Atkinson SD, and Moore CBT
- 4 September 2015, Dublin **ISGH Meeting, Poster:** Mutant allele-specific gene silencing in autosomal dominantly inherited Fuchs' corneal dystrophy using CRISPR Cas9 nuclease. Maurizi E, Courtney D, Nesbit MA, Moore JE, Atkinson SD, and Moore CBT
- 18 September 2014, Dublin **From Cells to Tissues Meeting**

14 March 2014, Belfast -
Awarded for the best poster

Vision TRG, Poster: Development of Allele-specific Therapeutic siRNA Keratin 12 Leu132Pro in Meesmann's Epithelial Corneal Dystrophy Courtney DG, Atkinson SD, Allen EHA, Moore JE , Walsh CP, Pedrioli DML, MacEwen CJ, Pellegrini G, Maurizi E, Serafini C, Fantacci M, Liao H, Irvine AD, McLean WHI and Moore CBT.

28 February 2014, Belfast

Rare Disease Day Meeting

25 February 2014, Belfast

Young Scientist **TRG Symposium**

Certificates and awards

2022: PNRR M6/C2 call N. PNRR-MR1-2022-12376561 **Grant** accepted

2020: FAR **Grant** accepted

2018: Lions Club Bardi **fellowship** award

2017-2021: International Team for Implantology, N. 1263_2017 **Grant** accepted

2017: Lions Club Bardi **fellowship** award

2014: Awarded for the **best poster** at Vision TRG Belfast

2013: Leonardo Project **award** "Unipharma-Graduates"

2012: **National qualification for biology profession**