

Graziella Pellegrini CV

ORCID ID orcid.org/0000-0001-9861-0736

Registered expert for European Research & Innovation

CURRENT POSITION

- Full professor of Cell Biology, Department of Life Sciences, University of Modena and Reggio Emilia, Modena, Italy
- Cell Therapy Program Coordinator, Centre for Regenerative Medicine “Stefano Ferrari”, University of Modena and Reggio Emilia, Modena, Italy
- EU scientific expert
- Member of ISSCR Education Committee
- Council member of Cell Transplant and Regenerative Medicine Society

EDUCATION AND TRAINING

- 1984-1988: Pre- and post-doctoral training on Molecular Pharmacology, Pharmacology Department of Genova University, Genova, Italy
- 1988: Degree in Chemistry and Pharmaceutical Technologies, University of Genova, Italy.
- 1989: Degree in Pharmacy, University of Genova, Italy.
- 1989 Professional qualification to practice as a pharmacist
- 1999: Cytometry Methods, National Academy of Medicine, Milano, Italy
- 2009: Advanced course on Manufacturing and characterization of experimental medicinal products for advanced therapies, ISS, Roma
- 2009: Workshops on Advanced Therapy Medicinal Products, EMA, London
- 2013: National qualification for full professor

PREVIOUS APPOINTMENTS

- 1988-1991: Investigator, Laboratory of Cell Differentiation, National Institute for Cancer Research, Genova, Italy.
- 1991-1993: Head of Laboratory, Cellife Biotechnology, S.p.A., Milano, Italy.
- 1993-1995: Senior Investigator, Department of Cellular and Molecular Biology, Advanced Biotechnology Center, Genova, Italy.
- 1996-2002: Deputy Head, Laboratory of Tissue Engineering Laboratory, I.D.I. Hospital, Roma, Italy.
- 2002-2007: Head, Laboratory of the Epithelial Stem Cell Regional Research Center, The Veneto Eye Bank Foundation, Venice, Italy

- 2006-2016: Associate Professor of Cell Biology, University of Modena and Reggio Emilia, Modena, Italy.
- 2008-present: Head, Cell Therapy Program, Center for Regenerative Medicine “Stefano Ferrari”, University of Modena and Reggio Emilia, Modena, Italy.
- 2008-2022: Founder, Member of the Board of Directors and R&D Director, Holostem Terapie Avanzate S.r.l., Modena, Italy.
- 2010-2017: QP, Holostem Terapie Avanzate S.r.l., Modena, Italy.
- 2016-present: Full Professor of Cell Biology, University of Modena and Reggio Emilia, Modena, Italy.
- 2022- 2023 Scientific Expert of the clinical trial for urethral reconstruction in children suffering from Posterior Hypospadias, and
- 2016-2023 Clinical Research Scientist / Product Expert of the 3 European Clinical Trials for the treatment and follow up of patients suffering for a rare form of blindness due to Limbal Stem Cell Deficiency
- 2025-2028 Councilor of the Cell Therapy and Regenerative Medicine Society
- 2025-2026 Consultant of Meyer Children Hospital, Florence , Italy

MAJOR SCIENTIFIC ACHIEVEMENTS

Graziella Pellegrini has dedicated most of her scientific activities to translational medicine. She is recognized as leading scientist in human squamous epithelial stem cell biology and has been a driving force in the development of epithelial stem cell-mediated cell therapy and gene therapy.

Following on early work on the use of human epidermal stem cell cultures in life-saving treatment of massive full-thickness burns and in repigmentation of stable vitiligo and piebaldism by keratinocyte/melanocyte co-culture (reviewed in *Regen. Med.* 2006), Pellegrini and her main collaborator Michele De Luca were first to establish human urethral stem cell culture aimed at urethral regeneration in posterior hypospadias (*N. Engl. J. Med.* 1990; *Eur. Urol.* 2016; *Curr Stem Cell Res Ther.* 2016; *World J Urol.* 2019). They then developed human limbal stem cell culture (*J. Cell Biol.* 1999) for corneal regeneration in patients with severe limbal stem cell deficiency (*Lancet* 1997; *N. Engl. J. Med.* 2010; *Regen. Med.* 2013; *Stem Cells* 2014, *Regen. Med.* 2016; *Cornea* 2019). This treatment leads to recovery of normal vision and is now reproduced worldwide. In February 2015 such cultures were formally approved as an Advanced Therapy Medicinal Product by EMA, which registered them under the name of Holoclar. Holoclar is the first stem cell-based therapy approved in Europe and EMA has indicated it amongst the most relevant achievements in the field in the last 20 years.

They have characterized molecular mechanisms regulating long term proliferative potential, clonal evolution and self-renewal of epithelial stem cells. In particular, they shed light on the role of p63 (different isoforms) and c/EBP δ in regulating the proliferative potential and the self-renewal of human corneal stem cells, respectively (PNAS 2001, 2005; J. Cell Biol. 2007). Notably, their work demonstrated that the clinical success of limbal stem cultures is dependent on a discrete number of stem cells identified as holoclones expressing the $\Delta N\alpha$ isoform of p63 (N. Engl. J. Med. 2010, TMM 2011, Regen. Med. 2013). Pellegrini and De Luca are also pioneering ex-vivo epithelial stem cell-mediated gene therapy for genetic skin diseases. They coordinated the first successful clinical trial to treat junctional epidermolysis bullosa (JEB) (Nat. Med. 2006; Stem Cell Rep. 2014; J. Invest. Dermatol, 2017; Nature, 2017).

JEB is a severe, often lethal genetic disease caused by mutations in genes encoding the basement membrane component laminin-332. Patients develop chronic skin and mucosa wounds, impairing their quality of life and leading to skin cancer. Pellegrini and De Luca have recently reported life-saving regeneration of entire, fully functional epidermis on a 7-year-old child suffering from a devastating, life-threatening form of JEB (Nature, 2017). Using integrations as clonal genetic marks, it was shown that the vast majority of epidermal TA progenitors are progressively lost within a few months after grafting and the regenerated epidermis is sustained only by a limited number of long-lasting, self-renewing stem cells (Cell Rep. 2019).

Based on this notion and on previous corneal data (N. Engl. J. Med 2010) they established that the essential feature of any cultured epithelial grafts is the presence and preservation of an adequate number of holoclone-forming cells. This provides a blueprint that can be applied to other stem cell-mediated ex vivo cell and gene therapies (N&V Nature 2010) by epithelial and other cell types (IOVS 2014 a & b; Current Transplantation 2018; Cell Prolif. 2019; Front Bioeng Biotechnol. 2020).

Pellegrini was in the International Committee defining the International Guidelines on Limbal Stem Cell Deficiency.

During their career, Pellegrini with her colleague De Luca, in collaboration with several clinicians, have treated:

- Hundreds of patients with massive skin burns (lifesaving)
- Approximately 400 patients with massive ocular burns (restoration of vision)
- Approximately 100 patients with stable vitiligo and piebaldism
- Over hundred patients with oral mucosa defects
- Less than 10 patients with posterior hypospadias

- Three patients successfully treated in a Phase I/II clinical trials of ex vivo gene therapy of Epidermolysis Bullosa (24 patients enrolled in Italy and Austria)

by means of cultured and characterized epithelial stem cells.

SUMMARY OF SCIENTIFIC ACTIVITY

- Regulation of neurotransmitter release in central nervous system
- Adhesion mechanisms of human keratinocytes
- Biology of stem cells of human stratified epithelia
- Cell therapy by human epithelial cells cultured in vitro: epidermis for burnt patients and co-culture with melanocytes, used for the development of a protocol for clinical application on vitiligo patients; oral mucosa, urethra and ocular surface, in particular corneal surface, reconstructed in vitro for the first clinical application of cell therapy on limbal stem cell deficiency; the developed protocol allowed the treatment of specific type of blindness
- Gene therapy by genetically corrected keratinocytes
- Organization and spreading of cell therapy protocols and cultured cornea clinical application in Europe
- Translation of cell therapy protocol into GMP system (EU Regulation 1394/2007) and distribution of the advanced therapy for reconstruction of human corneal epithelium.
- International training on Cell Therapy protocol application for the regeneration of human corneal epithelium (Holoclar) in Limbal Stem Cell Deficiency
- Science popularization for Unistem, Zanichelli, Piccin, National Geographic, World Economic Forum, TEDx, Dubai Expo 2022 and others.

AWARDS AND ACKNOWLEDGMENTS

- 1988 Best poster presented at XXIV Congresso Nazionale della Società Italiana di Farmacologia, Brescia, 25-28 September 1988
- 2002 Biennial Research Award “A.I.R.C.M.O.” (Italian Association for research and treatment of ocular pathologies), Rieti, 26 May 2002
- 2015 “Bonissima” Award assigned by the Mayor of Modena to the Centre for Regenerative Medicine “Stefano Ferrari”, Modena, 9 April 2015
- 2015 “Bonissima” Award assigned by the Mayor of Modena to Holostem Terapie Avanzate, Modena, 9 April 2015
- 2015 Award “Smart & Disruptive Companies 2015” assigned by MIT Technology Review Italy to Holostem Terapie Avanzate, Padova, 20 April 2015
- 2015 Best Italian abstract at American Urological Association’s 2015 Annual Meeting, New Orleans, USA, May 2015
- 2015 Galeno Italy (Holoclar Award)
- 2016 Galien Nederland (Holoclar Award)
- 2016 Galien UK (Holoclar Award)

- 2017 Personal Award “Le Ragioni della Nuova Politica”, Roma, 14 December 2017
- 2018 ISSCR Award for Innovation, Melbourne Australia, 20-23 June 2018 (co-awarded with Michele De Luca)
- 2018 International award “Lombardia è ricerca”, Milan, 8 November 2018 (co-awarded with Michele De Luca and Tobias Hirsch)
- 2020 – International award Louis-Jeantet Prize (co-awarded with Michele De Luca)
- 2020 – International award TERMIS Career Achievement Award, European branch of Tissue Engineering and Regenerative Medicine International Society, 29 May 2020.
- 2020 – European Tech Women Award, London, 2, 4, 8 September 2020
- 2023- Award of Associazione Cavalieri San Silvestro, May 20, 2023
- 2023 – International award FEBS Award National Lecture support, Szczecin, Poland May 2023
- 2024- Award Gabriella Fabbrocini, Naples, May, 2024
- 2025- International award ISSCR Public Service Award

MISCELLANEA

- 2000-2022 Technology transfer of human epidermal and corneal epithelial culture for transplantation, consultant J-TEC, Gamagori, Japan
- 2005 Chapter on the scientific activity on translation of regenerative medicine in Milano G. e Palmerini C., La rivoluzione delle cellule staminali, Feltrinelli, pp. 78-88
- 2014 Interview on the scientific activity on translation of regenerative medicine in Capocci M. e Corbellini G. (a cura di), Le cellule della speranza, Il caso Stamina tra inganno e scienza, Codice Edizioni, pp. 73-105
- 2014 Mention on scientific activities in Napoletano R., Viaggio in Italia, Rizzoli, pp. 55-56
- 2018 Women in Science, Part II, published on Stem Cell Report vol. 11 pp. 843-846, October 9 2018
- Science popularization on media, Italian: Surgery news, Class, Linx, L’oculista italiano, Oftalmologia Sociale, Radio 3 Scienza, Wired, Il Sole 24 Ore, Le Iene, L’Italia con voi, Maratona della scienza online, Dubai Expo 2020, Elisir
Abroad: ABCNews, Bio-tech Media, Eurostemcell, Nature, CNN, Dokters Van Morgen, Le Temps, etc.,
- Luca Coscioni Organization for human rights and freedom, 22 Oct 2023
- 2024 RAI play ‘Italian Genius’
- Invitation to Tokyo Italian Embassy October 2025
- Invitation to the Italian Senate to speak about rare diseases, 19 February 2026

PATENTS

1. Geraci G., De Rosa M., Rossi M., Cancedda R., De Luca M. and Pellegrini G., Cryoprotective aqueous solution useful for the preservation of in vitro cultured epithelial sheets, US Patent 5,670,308
2. Geraci G., De Rosa M., Rossi M., Cancedda R., De Luca M. and Pellegrini G., Cryoprotective aqueous solution useful for the preservation of in vitro cultured epithelial cells, EP Patent 0671877,
3. De Luca M. and Pellegrini G., Case for the protection and the transportation of epidermis or skin grafts cultivated in vitro from a skin graft cut from a donor, US Patent 2003034267
4. De Luca M. and Pellegrini G., Case for the protection and the transportation of epidermis or skin grafts cultivated in vitro from a skin graft cut from a donor, WO03024213
5. De Luca M. and Pellegrini G., Reconstructed laminae of human epithelium corneae and method of producing the same, US Patent 6,610,538
6. De Luca M. and Pellegrini G., In vitro reconstituted sheets of human corneal epithelium and method of producing the same, EP Patent 1451302
7. Pellegrini G., Desogus M., Device for ocular sampling, particularly for peripheral corneal sampling, EP2928381
8. Pellegrini G., Sorani A. Container, EP Patent 3462860
9. Pellegrini G., Sorani A. Container, US Patent 2019289844
10. De Luca M, Pellegrini G., Alessandrini A., In vitro method for producing a flap of genetically modified cells on fibrin substrate, WO2019034550
11. De Luca M, Pellegrini G., Alessandrini A., Method for producing cell flaps, US 2020/0291353
12. De Luca M., Pellegrini G. Therapeutic uses of flap of genetically modified cells,US 2020/027646
13. De Luca M., Pellegrini G. Therapeutic uses of flap of genetically modified cells, EP Patent 3684384
14. Pellegrini G., Maurizi E. Method for mesenchymal phenotype reversion in primary human corneal endothelial cells, National, deposit 102022000020061, EU and USA deposit.

SCIENTIFIC SOCIETY MEMBERSHIP

- 1990 – 2003: Member of Italian Society of Cell Biology and Differentiation (FISV)
- 1999 – present: Member of the Association for Research in Vision and Ophthalmology (ARVO)
- 2000: Founding Member of the International Ocular Surface Society (IOSS)
- 2003: Member of International Society of Dacryology and Dry Eye (ISDDE)
- 2004- 2005: Member of Tissue Engineering Society International (TESi)
- 2005 – present: Member of International Society for Stem Cell Research (ISSCR)
- 2006 – present: Member of Società Italiana di Oftalmologia
- 2008 – 2021: Member of Tear Film and Ocular Surface Society (TFOS)
- 2010: Member of International Society for Eye Research (ISER)
- 2010, 2012, 2015, 2016: Member of European Society for Cell and Gene Therapy (ESCGT)
- 2010 – present: Member of Associazione Italiana di Biologia e Genetica (AIBG)
- 2012-2013, 2017-2018, 2025-2026: Member of Limbal Stem Cell Deficiency Working Group, New Orleans

- 2012-2016: Member of European Society of Cornea & Ocular Surface Disease Specialists (EUCornea)
 - 2014-2015, 2019-2020, 2021, 2022: International Society of Tissue Engineering (TERMIS)
 - 2017-2019: Member of National Committee for Ethical Committee coordination
 - 2020-2022: Scientific Advisory Board – Mogrify Cambridge, UK
 - 2021: Scientific Advisory Board – IRP (Pediatric Research Institute) – Padova (Italy)
 - 2021-2025 Member of the Translational Committee of International Society for Stem Cell Research (ISSCR)
 - 2022- 2024 Member of the MCTR (Manufacturing Clinical translation and Industry) committee of the International Society for Stem Cell Research (ISSCR)
 - 2023-present Member of ISSCR Educational Committee
 - 2025 Councilor of CTRMS (Cell Transplant and Regenerative Medicine Society)
-

TEACHING (COURSES, SEMINARS & WORKSHOPS)

Courses at University of Modena and Reggio Emilia:

- 2006-2008 Experimental Models [BFS-1]
- 2006-2008 Experimental Models [BM-1]
- 2008-2010 Microbial and cellular biotechnologies [SBT-48]
- 2008-2012 Biological bases of Molecular and Regenerative Medicine [BMF-3]
- 2012-2014 Biological bases of Regenerative Medicine [BMD-7]
- 2014-2015 Technologies for Tissue Engineering [BMD-8]
- 2015-present Regenerative medicine [BTM-06]
- 2006-present: Professor at PhD Program in Molecular and Regenerative Medicine
- 2020-2023 Master ATMP (Advanced Therapy Medicinal Products) industrial development, production process, clinical implementation, use.

Other teaching activities

1. Adjunct professor in “Regional laboratory course in biotechnology” run by Cellife Biotechnology S.p.A. at IST Cancer Institute, Genova, 1991-92
2. Adjunct professor in “Regional Advanced Course in Biotechnology” at Advanced Biotechnology Center, Genova, 1994
3. Adjunct professor in “Chemioprevenzione dei tumori” course at Biotechnology and Experimental Oncology School, S.Margherita Ligure, Italy, 1995
4. Adjunct professor in the European course “Advanced Technologies in Stem Cell Growth and Development” at EU Stem Cells School, 2002, Pisa, Italy
5. Adjunct professor in annual course of Biological Tissues Bioengineering, 2002, Bressanone, Italy
6. Seminar, Laval University, 2002, Quebec, Canada
7. Adjunct professor in Stem Cell Course of Scuola Superiore di Immunologia “Ruggero Ceppellini”, 2003, Napoli, Italy
8. Adjunct professor in Adult Stem Cell Course of the Italian Branch of the European Tissue Culture Society, 2004, Brescia, Italy
9. Professor, Scientific journalist Course University of Pavia, 2004, Pavia, Italy
10. Professor, National theoretical and practical courses for ophthalmologists “Culture techniques and application of corneal epithelial stem cells”, 2004, Venice, Italy

11. Professor, National and international theoretical and practical courses for ophthalmologists “Transplantation of in vitro expanded corneal stem cell”, 2004, Venice, Italy
12. Seminar at Zeiss, 27 January 2005, Jena, Germany,
13. Seminar on Confocal Microscopy, ICGEB, 20-21 April 2005 Trieste, Italia
14. Seminar, University Hospital Basel 17 May 2005, Basilea, Switzerland
15. Professor, Master programs in Cell and Molecular Biology at the Ecole Normale Supérieure, Lyon 26 September 2005, Lione, France
16. Professor, National theoretical and practical courses for ophthalmologists “Culture techniques and application of corneal epithelial stem cells”, 2006, Venice, Italy
17. Seminar at University of Ferrara, 7 April. 2006, Ferrara, Italy
18. Seminar at University of Ragusa, 6 May 2006, Ragusa, Italy
19. Seminar at University of Milano, “Bioethic course on stem cells”, 2 October 2007, Milan, Italy
20. Professor at International School of advanced biomedicine and bioinformatics “Stem cells: Biology, Biotechnology, medical applications”, University of Catania, 1-5 October 2007, Acitrezza, Italy
21. Seminar “Cell Therapy of genetically modified epidermal cells, PhD Course in human Reproductive and Developmental Sciences, University of Bologna, 28 November 2007, Bologna, Italy
22. Corso di Aggiornamento teorico-pratico “Microscopia: dalle molecole al paziente. Generare ed interpretare immagini in biomedicina”, 3-6 December 2007, Genova, Italy
23. Seminar at J-TEC (Japanese Tissue Engineering Company), 21 April 2008, Gamagori, Japan
24. Seminar on Regenerative Medicine, University of Parma, 5 May 2008, Parma, Italy
25. Seminar at LVPEI (LV Prasad Eye Institute), 18 January 2009, Hyderabad, India
26. Seminar on “Study, Reconstruction and clinical application of limbal-corneal epithelium”, 20 January 2009, Madurai, India
27. Professor, Master program in Cell and Molecular Biology, Ecole Normale Supérieure, 22 January 2009, Lyon, France
28. Seminar “Translational Medicine of stratified epithelia”, PhD program New perspectives in morphological sciences, University of Milan, 23 June 2009, Milan, Italy
29. Professor, International Summer School on “Low vision: epidemiology and therapeutical approaches”, 17-24 September 2009, Lecce, Italy
30. Professor, International School on Advanced Molecular Biomedicine, 2-6 October 2009, Acitrezza (CT), Italy
31. Professor, Master Biosciences della Ecole Normale Supérieure, 27-29 January 2010, Lione, France
32. Seminar on “Permanent Corneal Regeneration by Autologous Cultures of Limbal Stem Cells: a Long-Term Clinical Study”, North East England Stem Cell Institute (NESCI), 25 February 2010, Newcastle, UK
33. High Specialization Shortmaster “Apparecchiature Biomedicali: sistemi avanzati per la diagnostica e la terapia medica”, 23 April 2010, Mirandola (MO)
34. Seminars CME & Doctoral Course “Regenerative and Transplantation Medicine in Ophthalmology”, 12-16 November 2011, Bangalore, India
35. Seminar, Course of Bioethics 2011-2012, University of Milan, 5 March 2012, Milano, Italy
36. “Regenerative Medicine Seminar Series” at Cedars-Sinai, 3 October 2013, Los Angeles (USA)
37. Course “Applicazioni Traslazionali dei Medicinali Sperimentali per Terapie Avanzate”, ISS, 18-19 November 2013, Roma, Italy

38. Seminar on “The ocular surface from basic science to industrialization” iBG-Izmir, Izmir Biomedicine and Genome Center, Dokuz Eylul University Health Campus, 24 April 2015, Izmir, Turkey
39. Seminar “Esempi di medicina rigenerativa mediante epiteli di rivestimento”, University of Genova, Ciclo di Lezioni Seminariali “Medicina Rigenerativa Oggi”, 29 April 2015, Genova, Italy
40. Professor at “Corso teorico-pratico sulla Citologia della Superficie Oculare”, University of Napoli Federico II, 7-8 October 2015, Napoli, Italy
41. Seminar “Holostem and Holoclar Story: New Ophthalmological Techniques and Industry Trends in Europe”, Osaka, Japan, 17 March 2016
42. Centro Chirurgico Toscano, Workshop “La ricostruzione del corpo umano con l’ingegneria tissulare e le cellule staminali: stato attuale e prospettive future”, April 16, 2016, Arezzo (Italy)
43. Institute of Reconstructive Neurobiology, University of Bonn, LIFE & BRAIN Center, Seminario “State of translational activities at the various sites”, Bonn, 3 November 2016
44. John Walton Muscular Dystrophy Research Centre, Newcastle University, Seminario “Advanced therapy medicinal products, road to the clinic”, 23 November 2016, Newcastle, UK
45. Azienda Ospedaliera San Giovanni Addolorata, Course “Le cellule staminali in oftalmologia: le Ustioni Corneo-Congiuntivali”, 13 October 2017, Roma, Italy
46. Ri.MED Foundation, Symposium “Restoration of Vision”, 26-27 October 2017, Roma, Italy
47. AO Ospedali Riuniti Villa Sofia-Cervello, Seminar, 12 February 2018, Palermo, Italy
48. UCLA, Stein Eye Institute, Seminar, 23 February 2018, Los Angeles, USA
49. Unistem Day 2018, 16 March 2018, Modena, Italy
50. Università di Roma Tor Vergata, “Frontiers in Genito-Urinary Reconstruction”, 13-14 April 2018, Roma, Italy
51. 13th YES Meeting (Young European Scientist Meeting), 13-16 September 2018, Porto, Portugal
52. 4th ITRUST Futurology Meeting, 26-28 September 2018, Roma
53. “NAO Summit – Conoscenze a confronto”, 10 October 2018, Milan, Italy
54. Il Ruolo del Farmacologo nel SSN, 20-21 November 2018, Roma, Italy
55. BSRT, Berlin-Brandenburg School for Regenerative Therapies, Symposium “The Art of Failure: Regenerative Therapies from Experimental Sketches to Clinical Masterpieces”, 28-30 November 2018, Berlin, Germany
56. University of Utrecht, “Introduction to Stem Cell Biology” Course, 15 January 2019, Utrecht, The Netherlands
57. Université de Strasbourg, Winter School on Physical Organic Chemistry, E-WISPOC 2019, 27 January-1 February 2019, Bressanone
58. IT-ARVO Chapter Meeting, Terapie Avanzate in Oftalmologia, 15-16 February 2019, Catania, Italy
59. H2020-MSCA-ITN-2017, European Training Networks, “Educating the next generation of scientists in translational medicine: Focus on eye diseases”, 11 July 2019, Modena, Italy
60. Columbia University Irving Medical Center (CUIMC), Columbia Stem Cell Initiative (CSCI) Seminar Series, 24 October 2019, New York, USA
61. Human and Mammalian genetics and Genomics: the 60th Mc Kusick short course, The Jackson Laboratory, Bar Harbour, Maine, USA, 15-26 July 2020 (remote)
62. Università degli Studi di Milano, lesson for 3rd edition of the 2nd Level Master in Pediatric Nephrology and Urology, Milano, Italy, 12 November 2020 (remote)
63. EATRIS, ADVANCE ATMPs Development Online Course, 1 December 2020 (remote)

64. Utrecht University, PhD Programmes on Cancer Stem Cells & Developmental Biology (CSnD) and Regenerative Medicine, 10 December 2020 (remote)
65. REMIX Seminar Series on Tissue Engineering and Regenerative Medicine, 18 January 2021 (remote)
66. Biontech, Spring Session of Biotech online seminars, 10 March 2021 (remote)
67. Università Cattolica del Sacro Cuore, International Master's Program in "Regenerative Medicine and Tissue Engineering"- Module 7: Roadmap to Clinical Translation, 3rd September 2021 (remote)
68. World Conference of the Tissue Engineering and Regenerative Medicine International Society, TERMIS, November 15-19th 2021, Prof. Graziella Pellegrini (remote)
69. Lund University, NSC-Reconstruct Workshop #2: Regulatory and ethical issues related to the development and clinical use of next generation cell therapy products, November 22nd-23rd 2021, Lund, Sweden (remote)
70. Utrecht University, PhD Programme on "Cancer Stem Cells and Developmental Biology" (CSnD) and Regenerative Medicine, 15 December 2021 (remote)
71. NCNbio Srl, "Dal red biotech nuove professioni per i giovani, esploriamo la Bioproduction delle terapie avanzate... continua il viaggio nelle cell factories italiane", 11 January 2022 (remote)
72. Mogrify, "Mogrify Lunch & Learn" series, 13 January 2022 (remote)
73. Limbal Stem Cells, Symposium on Group Catalyst, 24-26 March 2022 (remote)
74. 61° Simposio AFI, "Il mondo farmaceutico: i paradigmi di una nuova era", 8-10 June 2022, Rimini, Italy
75. World Council of Philadelphia, 17 June 2022
76. Università Cattolica del Sacro Cuore, Master in Regenerative Medicine and Tissue Engineering, Second Edition, Rome, Italy, 28 January 2023
77. Course on Lamellar Keratoplasty, Apr 29, 2023, AugenKlinik Sulzbach, from remote, Germany
78. Utrecht University, PhD Programme on "Cancer Stem Cells and Developmental Biology" (CSnD) and Regenerative Medicine December 2023
79. CTMRS Webinar Montreal 29 February 2024
80. UNISTEM University of Chieti-Pescara, 22 March 2024
81. Utrecht University, PhD Programme December 2024
82. Harvard Medical School of Medicine, Stem Cell Medicine Course. March 2025 online
83. Istituto Superiore di Sanità (ISS), ADVANCE EU course, February 2025
84. Royal College of Physicians, Bowman Club, Edinburgh, April 4th 2025
85. 1st International symposium on corneal regenerative medicine, Montreal, Canada, October 16th 2025
86. LOEX 40's anniversary, Quebec, Canada, October 17th 2025
87. Tokyo Italian Embassy "Innovative Advanced Therapies: the Italian and Japanese perspectives" (October, 22th)
88. Cell Therapy and Regenerative Medicine Society (CTRMS) Annual meeting, October 22-26 2025, Tokyo, Japan
89. Milano Bicocca University Seminar, December 16, 2025, Milan, Italy

....

SOCIAL ACTIVITIES: DISSEMINATION

1. UniStem Day 2012, University of Modena and Reggio Emilia, 9 March 2012, Modena, Italy
2. UniStem Day 2013, University of Milan, 15 March 2013, Milan, Italy
3. Lesson to students of Scuola Media Istituto Sacro Cuore, 9 January 2014, Modena, Italy
4. UniStem Day 2014, University of Modena e Reggio Emilia, 13 March 2014, Modena, Italy
5. UniStem Day 2014, University of Modena e Reggio Emilia, 14 March 2014, Modena, Italy
6. UniStem Day 2015, University of Modena e Reggio Emilia, 13 March 2015, Modena, Italy
7. **WORLD ECONOMIC FORUM**, Breakthrough in Science, Davos, Switzerland, January 2015
8. “La Scienza a scuola: 100 lessons by scientists and teachers “capire come la scienza cambia il mondo” organized by Zanichelli Editore, 30 November 2015, Milano, Italy
9. Zanichelli Editore, Lessons “La scienza a scuola” , lesson to student of Liceo Lorenzini, 27 October 2016, Pescia (PT), Italy
10. Zanichelli Editor, Lessons “La scienza a scuola” , lesson to students of Liceo Scientifico Righi, Roma, 18 November 2016
11. Zanichelli Editor, Lessons “La scienza a scuola”, lessons to students of Liceo Scientifico Allegretti, 16 December 2016, Vignola (MO), Italy
12. UniStem Day 2017, 17 March 2017, Roma, Italy
13. Zanichelli Editor, Lessons “La scienza a scuola” : Liceo Cornaro, 3 November 2017, Padova, Italy
14. Zanichelli Editor, Lessons “La scienza a scuola” Liceo Scientifico Morin, 10 November 2017, Mestre, Italy
15. Zanichelli Editore, Lessons “La scienza a scuola” Liceo Scarpa, 24 November 2017, Motta di Livenza, Italy
16. Zanichelli Editor, Lesson “Riparare il nostro corpo con le cellule staminali”, Liceo Bruno Franchetti, Mestre (VE), Italy, 24 November 2020 (remote)
17. Zanichelli Editor, Lesson “Riparare il nostro corpo con le cellule staminali”, Liceo Paleocapa, Rovigo, 2 December 2020 (remote)
18. Zanichelli Editor, Lesson “Riparare il nostro corpo con le cellule staminali”, Liceo Vivona, Roma, 16 December 2020 (remote)
19. Zanichelli Editor, Lesson “Riparare il nostro corpo con le cellule staminali”, Liceo Gandini, Lodi, 15 February 2021 (remote)
20. Zanichelli Editor, Lesson “Riparare il nostro corpo con le cellule staminali”, Liceo Valeriani, Imola (BO), 25 February 2021
21. Zanichelli Editor, Lesson “Riparare il nostro corpo con le cellule staminali”, Liceo Racchetti, Crema (CR), 23 February 2021
22. Zanichelli Editor, lesson, “Riparare il nostro corpo con le cellule staminali”, Liceo di Crotone, 28 October 2021 (remote)
23. Zanichelli Editor, lesson, “Riparare il nostro corpo con le cellule staminali”, Liceo Palmieri, Lecce, 24 november 2021 (remote)
24. Zanichelli Editor, lesson, “Riparare il nostro corpo con le cellule staminali”, Liceo Classico “Maurolico”, Messina e Liceo Scientifico “Galileo Galilei”, Spadafora, 1 December 2021 (remote)
25. Zanichelli Editor, lesson, “Riparare il nostro corpo con le cellule staminali”, Liceo di Biella, 16 dicembre 2021, Prof. Graziella Pellegrini (remote)
26. Zanichelli Editor, lesson, “Riparare il nostro corpo con le cellule staminali”, Liceo Scientifico Statale “Leonardo Da Vinci”, Pescara, 02 February 2022 (remote)
27. Zanichelli Editor, lesson, “Riparare il nostro corpo con le cellule staminali”, Liceo Biologico “Selmi”, Modena, 24 February 2022 (remote)

28. Zanichelli Editor, lesson, “Riparare il nostro corpo con le cellule staminali”, Liceo di Biella, 4 March 2022 (remote)
29. Zanichelli Editor, lesson, “Riparare il nostro corpo con le cellule staminali”, Liceo Castelnuovo di Firenze, 11 March 2022 (remote)
30. Fondazione “Costruiamo il Futuro”, Scuola di Formazione “Pensiamo il Futuro”, 8-10 april 2022, Milano, Italy
31. **EXPO DUBAI 2020**, Organization and presentation of the Life Science stand “Personalized Medicine: new tools and active policies for prevention, diagnosis and therapy”, January 2022
32. EXPOSANITA’, Workshop Clust-ER Health, Industrie della Salute e del Benessere, “Prodotti medicinali per le terapie avanzate: prospettive di sviluppo e industrializzazione”, 12 May 2022, Bologna
33. Zanichelli Editor, lesson, “Riparare il nostro corpo con le cellule staminali”, Liceo E. Maiorana, S.Lazzaro BO February 7 2023
34. Zanichelli Editor, lesson, “Riparare il nostro corpo con le cellule staminali”, Liceo Duca Treviso, 15 February 2023
35. Zanichelli Editor, lesson, “Riparare il nostro corpo con le cellule staminali”, Liceo Valentini di Castrolibero, February 17, 2023
36. Unistem Day, March 10 2023, Milan , Italy
37. Zanichelli Rho MI Jan 10, 2024
38. Zanichelli, Caserta March 7, 2024
39. Zanichelli, Battipaglia Mar 14, 2024
40. Unistem, Chieti March 22, 2024
41. World Health Forum March March 23, 2024
42. **Rai Play**, Italian Genius, January 2025
43. Online course for **Harvard Medical School** and ISSCR on Stem Cell Clinical Application
44. Unistem Day, University of Modena and Reggio Emilia, March 20 2026, Modena, Italy
45. Rare disease meeting, Italian Senate February 19, 2026
46. LUC University Public Engagement Seminar, Reggio Emilia, 24 February 2026
47. Unistem Day, Modena March 20, 2026

SCIENTIFIC MEETING ORGANIZATION

1. Co-Chairman, International Congress on Eye Research, 6-11 October 2002, Geneva, Switzerland
2. Co-Chairman of Stem Cell I section, ARVO Annual Meeting, 28 April-4 May 2006, Ft.Lauderdale, FL, USA
3. Co-Chairman of session “Basic Perspective in Ocular Surface Stem Cells”, International Congress on Eye Research, 29 October 2006, Buenos Aires, Argentina
4. President and chairman, Meeting “Cornea – cellule staminali – chirurgia del trapianto”, 9 December 2006, Bolzano, Italy
5. Member of International Scientific Committee, Asia-ARVO meeting, organizing session “Stem Cell Research”, 15-18 January 2009, Hyderabad, India
6. Chairman and Co-chairman, Gordon Research Conference, 7-12 March 2010, Ventura, CA, USA
7. World Ophthalmology Congress, 16-20 February 2012, Abu Dhabi, United Arab Emirates
8. Session organizer, ARVO Annual Meeting, 6-10 May 2012, Fort Lauderdale, FL, USA

9. Member of the Scientific Committee, ISSCR Annual Meeting 2017, 14-17 June 2017, Boston, MA, USA
10. Member of the ISSCR Translational Committee 2019, 2020, 2021, 2022 and 2023
11. Member of the MCTI (Manufacturing Clinical translation and Industry) committee of the International Society for Stem Cell Research (ISSCR) 2022, 2023
12. Member of the Educational Committee of the International Society for Stem Cell Research (ISSCR) from 2023
13. World Ophthalmology Congress, 16-19 August 2024, Vancouver, Canada

INVITED LECTURESHIPS

1. EUROCONFERENCE, “Tissue and cell engineering” 18-23 September 1998, S.Margherita Ligure, Italy
2. Meeting “Il trapianto di cornea complicato” 8-9 October 1999 ,Castiglione della Pescaia, Italy
3. VI Scientific Meeting A.I.S.Co, 25 November 1999, Roma, Italy
4. XIV International Congress of Eye Research , 15-20 October 2000 Santa Fè, NM, USA
5. The International Symposium of Modern Ophthalmology, 3-5 August 2001, Taipei,Taiwan
6. First Singapore Eye Research Institute International Meeting, 27-30 September 2001, Singapore
7. First Biennial Meeting of the European Tissue Engineering Society International, 7-10 November 2001, Freiburg, Germany
8. First International Workshop “Cell therapy: filling the gap between basic science and clinical trials”, Istituto Superiore di Sanità, 15-17 October 2001, Rome, Italy
9. “Advances on stem cell implants for ocular surface diseases”, Hospital Maisonneuve-Rosemont, 9 April 2002, Montreal , Canada
10. Meeting of Vision Health Network of Fonds de Recherche en Santé du Quebec, 12 April 2002, Trois Rivieres, Canada
11. 1st European Meeting Advances in Diagnosis and Treatment of Ocular SurfaceDisease, 31 May-1 June 2002, S. Margherita Ligure, Italy
12. EVER (European Vision and Eye Research) Symposium, September 2002, Lisboa, Portugal
13. 6th Allergan symposium, 27 September 2002, Londra, UK
14. ICER (International Congress on Eye Research) Meeting, 6-11 October 2002, Geneva, Switzerland
15. From stem cells to clinic, Reserche, Technologie Transfertet role des fondationsbancaires, Dec 6 December 2002, Brussel, Belgium
16. French Symposium of Ophtalmology, Hopital Hotel Dieu, 25 January 2003, Paris, France
17. SITRAC (Italian Society of Cornea Transplantation) Symposium, February 2003, Mestre, Italy
18. SICSSO (Italian Society of Stem Cells of the Ocular Surface) and IOSS (International Ocular Surface Society) Meeting, 5-7 June 2003, Erice, Italy
19. EEBA (European Eye Bank Association) Annual Meeting, 21 June 2003, Washington, USA
20. ETES (European Tissue Engineering Society) 2nd Annual Meeting, 3-6 September 2003, Genova, Italy
21. Korean Ophtalmology Annual Symposium, 11 October 2003, Seoul, Korea
22. TESI (Tissue Engineering Society International), December 2003, Orlando, FL, USA

23. SITRAC Italian Society of Cornea Transplantation Symposium 26-28 February 2004, Siena, Italy
24. SIG (Special Interest Group) at ARVO (Association for Research in Vision and Ophthalmology), 24-30 April 2004, Ft. Lauderdale, FL, USA
25. Workshop on Stem Cells, Italian Association for Cell Culture, 3 May 2004, Brescia, Italy
26. SOI (Italian Ophthalmology Society) Annual Meeting, 20-22 May 2004, Napoli, Italy
27. SICSSO (Italian Society of Ocular Surface Stem Cells), 3-4 June 2004, Maiori (SA), Italy
28. Superficie Oculare a-z Meeting, 2-3 July 2004, Bari, Italy
29. Eye Banking and Tissue Engineering, 22-23 September 2004, Genova, Italy
30. EVER (European Vision and Eye Research) Meeting 23-26 September 2004, Lisbona, Portugal
31. Tissue Banks, Recent development and new perspectives, 25 October 2004, Torino, Italy
32. SOI (Italian Ophthalmology Society) Meeting 22 November 2004, Roma, Italy
33. XI Annual Symposium, Ranbaxy Science Foundation, 7-10 March 2005, Hyderabad, India
34. Meeting "Cellule staminali: dal laboratorio all'applicazione clinica", Spedali Civili di Brescia. 31 May 2005, Brescia, Italy
35. SICSSO (Italian Society of Ocular Surface Stem Cells), 3 June 2005, Venezia, Italy
36. V Meeting SOC (Società Oftalmologia Calabrese) 1-2 July 2005, Siderno (RC), Italy
37. LOEX Symposium, 22-24 September 2005, Quebec, Canada
38. VII Research Days, Federal University of Sao Paulo, 8-10 December 2005, Sao Paulo, Brasil
39. Meeting "La frontiera della Ricerca Scientifica", 7 April 2006, Cento (FE), Italy
40. Meeting "Educazione Continua in Oftalmologia 2006 – Le Cellule Staminali Nella Patologia Della Superficie Oculare", 27 April 2006, Modena, Italy
41. The Royal College Of Ophthalmologists Annual Congress, 23-25 May 2006, Manchester, UK
42. SICSSO (Italian Society of Ocular Surface Stem Cells) V National Congress "The latest on ocular surface", 1-3 June 2006, Roma, Italia.
43. Meeting at Istituto Humanitas, 16 September 2006, Rozzano (MI), Italia.
44. ISER (International Society for Eye Research), XVII International Congress on Eye Research, 29 October– 3 November 2006, Buenos Aires, Argentina.
45. President and Speaker, Meeting "Cornea – cellule staminali – chirurgia del trapianto", 9 December 2006, Bolzano, Italy
46. SOI (Italian Ophthalmology Society) Annual Meeting 23-25 May 2007, Roma, Italy
47. SICSSO (Italian Society of Ocular Surface Stem Cells) International Congress, 14-17 June 2007, Lecce, Italy
48. 3° Meeting Day on Stem cell "Terapia Cellulari con Cellule Staminali Adulte", 22 June 2007, Milano, Italy
49. TFOS (Tear Film and Ocular Surface Society) Meeting, 3-7 September 2007, Taormina, Italy
50. Regenerative Medicine, Brainstorming of European Community Scientific Department, 20 September 2007, Bruxelles, Belgium
51. Premio Sapió, Giornata di studio sulle Biotechnologie "Stem Cell Research & Clinical Application", 23 November 2007, Milano, Italy
52. SITraC (Società Italiana Trapianto di Cornea) Congress, 21-23 February 2008, Milano, Italy
53. Regenerative medicine expert consultation meeting, 6 March 2008, Bruxelles, Belgium
54. CIBA Vision Symposium in the 112th Japanese Ophthalmological Society Meeting, 19 April 2008, Yokohama, Japan
55. Cimtec Symposium, Smart Biomaterials, 8-13 June 2008, Acireale, Italy
56. Conference on clinical application of cultured epithelium in limbal stem cell deficiency (LSCD), 25 June 2008, Belfast, Ireland
57. ESCCA European Congress, "Cell Therapy", 19 September 2008, Bremen, Germany
58. Asia-ARVO Meeting, Stem Cell Research session, Seeking stem cells session, 15-18 January 2009, Hyderabad, India

59. SITraC (Italian Society on Cornea Transplant) meeting, 26-28 February 2009, Torino, Italy
60. Chiesi R&D Award, 7 April 2009, Parma, Italy
61. 26th Biennial Cornea Research Conference, 9-10 October 2009, Boston, USA
62. SIOG congresso "Aggiornamenti in genetica oculare: diagnosi e trattamento delle patologie oculari geneticamente determinate", 8 February 2010, Milano, Italy
63. Gordon Conference "Biology & Pathobiology of the Cornea", 7-11 March 2010, Ventura, CA, USA
64. World Cornea Congress VI, 7-9 April 2010, Boston, USA
65. ARVO (Association for Research in Vision and Ophtalmology) Annual Meeting, 2-6 May 2010, Fort Lauderdale, USA
66. World Ophtalmology Congress, 5-9 June 2010, Berlin, Germany
67. International Congress of Eye Resarch, 18-23 July 2010, Montreal, Canada
68. ISCT-Europe, 2nd Regional Meeting, 11-14 September 2010, Belgirate (VB), Italy
69. Paul Martini Foundation Workshop, 16 September 2010, Berlin, Germany
70. 6th International Conference on the Tear Film & Ocular Surface (TFOS), 23-25 September 2010, Firenze, Italy
71. 18th ESGCT Annual Congress, 22-25 October 2010, Milano, Italia
72. The 2nd Asia Cornea Society Biennial Scientific Meeting, 1-3 December 2010, Kyoto, Japan
73. Dutch Medical Research Council (ZonMw) ATMP workshop, 9-10 March 2011, Heeze, The Netherlands
74. Accademia Nazionale di Scienze, Lettere e Arti di Modena, Conference on "Cellule staminali e medicina rigenerativa", 19 March 2011, Modena, Italy
75. ARVO Annual Meeting, 1-5 May 2011, Fort Lauderdale, FL, USA
76. Annual conference "Vision Restoration: Regenerative Medicine in Ophthalmology", 26-27 May 2011, Pittsburgh, USA
77. 10th Congress of the French Society of Cell and Gene Therapy, 6-8 June 2011, Nantes, Francia
78. First International Joint Congress ROL&SICSSO, 7-9 July 2011, Principina a mare (GR), Italy
79. UniStem, "Cellule staminali nella sperimentazione clinica", 24 June 2011, Milano, Italy
80. 2nd Polish Congress of Biochemistry and Cell Biology, 5-9 September 2011, Krakow, Poland
81. NIRM Symposium "Recent Development in Stem Cell Research", 20 September 2011, Amsterdam, The Netherlands
82. 4th Annual Limbal Stem Cell Meeting, 23 September 2011, Nottingham, UK
83. Convegno Unisalute "Le cellule Staminali e il loro Impiego attuale nella clinica", 30 September 2011, Bologna, Italy
84. Biotech 2011, 6 October 2011, Milano, Italy
85. 115th Annual American Academy of Ophtalmology Meeting, 22-25 October 2011, Orlando, FL, USA
86. Karnataka Ophthalmic Society, 30th Annual Conference, 11-13 November 2011, Bangalore, India
87. 56° Congresso Nazionale della Società Italiana di Gerontologia e Geriatria, 30 November 2011, Firenze, Italy
88. World Ophthalmology Congress 2012, 16-20 February 2012, Abu Dhabi, United Arab Emirates
89. 26° Congresso nazionale SITRAC, 23-25 February 2012, Roma, Italy
90. UniStem, IV edizione della Giornata della Scienza dedicata alle scuole superiori, 9 March 2012, Modena, Italy
91. "Working group of the Pontifical Academy of Sciences on new developments in stem cell research and possible application in medicine", 16-17 April 2012, Città del Vaticano
92. ARVO Annual Meeting, 6-10 May 2012, Fort Lauderdale, FL, USA

93. 2nd International Joint Congress ROL&SICSSO, 28-30 June 2012, Roma, Italy
94. EMBO Conference Series on Regeneration, 2-6 September 2012, Oxford, UK
95. NICB, Conference "Biothecnology in Action 2012", 4-6 September 2012, Dublin, Ireland
96. 3th EuCornea congress, 6-8 September 2012, Milano, Italy
97. ESGT-SFTCG Annual Congress 2012, 25-29 October 2012, Versailles, Francia
98. American Academy of Ophthalmology, Cornea Society Limbal Stem Working Group, 12 November 2012, Chicago, USA
99. Convegno "CELLULE STAMINALI : Stato dell'arte e indicazioni cliniche fra dilemmi etici e prescrizioni istituzionali", Ordine dei Medici Chirurghi ed Odontoiatri, 2 February 2013, Brescia, Italy
100. Unistem Day 2013, 14 March 2013, Milano, Italy
101. Japanese Ophthalmological Society 117th Annual Meeting, 4-7 April 2013, Tokyo, Japan
102. EATRIS Conference on Translational Medicine, 3-4 June 2013, Amsterdam, The Netherlands
103. 11th ISSCR Annual Meeting, 12-15 June 2013, Boston, MA, USA
104. PDA Europe Conference, "Advanced Therapy Medicinal Products", 25-26 June 2013, Firenze, Italy
105. 3rd Joint Meeting of Refr@active.online and SICSSO, 27-29 June 2013, Siena, Italy
106. 12th Congress of the Transplant Society, 7-11 July 2013, Milano, Italy
107. University of Vermont, International Workshop "Stem Cells and Cellular Therapies in Lung Biology and Lung Diseases Conference", 29 July-1 August 2013, Burlington, USA
108. ISSCR, Regional Forum Series 2013, "Stem Cells in Translation, 15-18 September 2013, Firenze, Italy
109. TFOS 7th International Conference on the Tear Film & Ocular Surface: basic science and clinical relevance", 18-21 September 2013, Taormina (CT), Italy
110. Stem Cell Biology Symposium, 24-28 September 2013, Cold Spring Harbor, NY, USA
111. XV Congresso Nazionale AIBG, 27-28 September 2013, Arcavacada di Rende (CS), Italy
112. Cornea Society Limbal Stem Cell Working Group Meeting, 17 November 2013, New Orleans, USA
113. 6° Convegno Annuale ONLUS-AICC (Associazione Italiana di Colture Cellulari), "Progressi e prospettive delle terapie cellulari", 20-22 November 2013, Brescia, Italy
114. EATRIS (European Infrastructure for Translational Medicine), "ATMP Platform Meeting", 16-17 December 2013, Rome, Italy
115. 6th International Symposium "Advances in diagnosis and treatment of corneal diseases", 6-8 March 2014, Wisla, Poland
116. Senato della Repubblica, Commissione Igiene e Sanità, "Le Applicazioni delle Cellule Staminali in Medicina Rigenerativa", 15 April 2014, Palazzo Giustiniani, Roma, Italy
117. SIBO (Società Italiana Banche degli Occhi) National Congress, 10 May 2014, Monza, Italy
118. 2014 Nature China Conference, 29-31 May 2014, Guangzhou, China
119. TERMIS-EU, 2014 Chapter Meeting, 10-13 June 2014, Genova, Italy
120. I Congress of the Polish Biochemistry, Cell Biology, Biophysics and Bioinformatics – BIO2014, 9-12 September 2014, Warsaw, Poland
121. EU Cornea Meeting – Symposium on "Corneal donation practice in Europe", 12-13 September 2014, London, UK
122. Università degli Studi di Modena e Reggio Emilia, Primo incontro scientifico di Ateneo su "Cellule Staminali e Medicina Rigenerativa", 7 October 2014, Modena, Italy
123. EMBO Conference on Stem Cells in Cancer and Regenerative Medicine 2014, 9-12 October 2014, Heidelberg, Germany
124. STUEMO (Società Tosco-Umbro-Emiliano-Marchigiana di Oftalmologia), Congresso Annuale "Innnovazione in Oftalmochirurgia", 25 October 2014, Modena, Italy
125. ISCF (International Stem Cell Forum) Symposium, "Regenerative Medicine and Stem Cells: Translational Challenges", 18 November 2014, Amsterdam, The Netherlands

126. Universidad de los Andes, 2nd Chilean Congress for Cell Therapy and Regenerative Medicine”, 27-29 November 2014, Santiago, Chile
127. World Economic Forum Annual Meeting 2015, 21-24 January 2015, Davos, Switzerland
128. Workshop “Dalla ricerca sulle staminali alla ‘fabbrica’ dei nuovi farmaci”, 10 April 2015, Modena, Italy
129. American Urological Association, AUA 2015 Annual Meeting, 15-29 May 2015, New Orleans, USA
130. EATRIS, Second EATRIS Conference “Building Bridges in Translational Medicine”, 27-28 May 2015, Amsterdam, The Netherlands
131. PDA, 2015 PDA Europe Conference, “Advanced Therapy Medicinal Products”, 2-3 June 2015, Amsterdam, The Netherlands
132. Gordon Research Conference “Exploring Innovations in Tissue Repair and Regeneration: From Bench to Therapies”, 7-12 June 2015, Colby-Sawyer College, New London, NH, USA
133. XIV SICSSO Congress “Endothelial Keratoplasty: DSAEK or DMEK?”, 25-27 June 2015, Lecce, Italy
134. Interdisciplinary Center for Neurosciences (IZN)-Neurobiologie, Ruprecht-Karls-Universitat, Retreat on “Translational Neuroscience: from Cell Biology to Therapeutics”, 19-20 July 2015, Heidelberg, Germany
135. Sun Yatsen University, Zhongshan Ophthalmic Center, “Biannual Meeting of International Society of Ocular Cell Biology” (ISOCB), August 7-9, 2015, Guangzhou, China
136. EMBO Conference “Cell therapy today: achievements, hopes and hypes”, 9-13 September 2015, Manchester, UK
137. Turkish Stem Cell Society, 2nd International Stem Cell Meeting”, 30 September-3 October 2015, Antalya, Turkey
138. Fundação Oswaldo Cruz (FIOCRUZ), Gonçalo Moniz Research Center, “I° FIOCRUZ Workshop on Regenerative Medicine”, 1-2 October 2015, Salvador de Bahia, Brasil
139. German Ophthalmological Society, DOG Meeting “Ocular surface reconstruction State of the art and future concepts”, 1-4 October 2015, Berlin, Germany
140. EMBO Workshop “Stem cell mechanobiology in development and disease”, 18-21 October, Capri, Italy
141. Azienda Ospedaliera San Gerardo, Convegno “Terapie Avanzate: Pratica Clinica e Qualità nella Produzione”, 26 October 2015, Roma, Italy
142. AIFA (Agenzia Italiana del Farmaco), ° PIC/S Expert Circle Meeting on Human Blood, Tissues, Cells & ATMPs”, 28 October 2015, Roma, Italy
143. SOI-ASMOOI (Associazione Sindacale Medici Oculisti ed Ortottisti Italiani), Simposio “Le Cellule Staminali in Oftalmologia: Presente e Futuro”, 25 November 2015, Roma, Italy
144. EATRIS Educational Workshop on “ATMP development”, 26-27 November 2015, Palermo, Italy
145. Azienda Ospedaliera San Giovanni Addolorata & S.I.TRA.C, “Le Cellule Staminali in Oftalmologia: Presente e Futuro”, 12 December 2015, Roma, Italy
146. XX Congresso Nazionale SITRAC, Simposio “Cellule Staminali e Ustioni Oculari: il nuovo traguardo della Ricerca Clinica”, 25 February 2016, Rimini
147. Pharmaceuticals and Medical Devices Agency & The Japanese Society for Regenerative Medicine, “International Regulatory Forum of Human Cell Therapy and Gene Therapy Products”, 16 March 2016, Osaka, Japan
148. ARVO, 2016 Annual Meeting, Minisimposia on “Cornea Regeneration”, 1-5 May 2016, Seattle, USA
149. Novo Nordisk Foundation & Danish Stem Cell Center (DanStem), “The Stem Cell Niche – Development and Disease” Conference, Bi-Annual Copenhagen Bioscience Conference, 22-26 May 2016, Copenhagen, Denmark

150. ECRD 2016, 8th European Conference on Rare Diseases & Orphan Products, 26-28 May 2016, Edinburgh ,UK
151. Christian Medical College, Centre for Stem Cell Research, 1st Annual Symposium on Cell and Gene Therapy, 5-6 August 2016, Vellore, India
152. The Tamil Nadu Ophthalmic Association, 64th Annual TNOA Conference, 5-7 August 2016, Vellore, India
153. Gordon Research Conference 2016, “Tissue Niches & Resident Stem Cells in Adult Epithelia”, 7-12 August 2016, Hong Kong, China
154. 7th EuCornea Congress, 9-10 September 2016, Copenhagen, Denmark
155. XXXIV ESCRS Congress, Clinical Research Symposium “Stem Cell and the Eye”, 10 September 2016, Copenhagen, Denmark
156. Inaugural Meeting of Hellenic Society of Gene Therapy and Regenerative Medicine, 23-24 September 2016, Thessaloniki, Greece
157. ESGCT-ISSCR-ABCD Stem Cells and Gene Therapy Meeting, 18-21 October 2016, Firenze, Italy
158. International Conference, New Trends in Practical Ophthalmology, 21-22 April 2017, Szczecin, Poland
159. The Biology of Regenerative Medicine Conference, 25-27 April 2017, Cambridge, UK
160. Gordon Research Conference, GRC on Epithelial differentiation and keratinization, “Epithelial interactions in development, homeostasis, disease and therapy”, 7-12 May 2017, Lucca, Italy
161. Accademia Pontificia Lateranense, Workshop of “Patient’s Need and Regulatory Medicine Agencies”, 23 June 2017, Roma, Italy
162. Canadian Ophthalmological Society, COS 2017 Annual Meeting, 15-18 June 2017, Montréal, Canada
163. EACPT, 13th Congress of the European Association for Clinical Pharmacology and Therapeutics, 24-27 June 2017, Prague, Czech Republic
164. EATRIS Translational Medicine Conference, 24-26 September 2017, Prague, Czech Republic
165. Friends of Europe, State of Europe high-level Roundtable, 11-12 October 2017, Bruxelles, Belgium
166. Nature Conferences, “Regeneration”, 16-18 November 2017, Milano, Italy
167. Gordon Research Conference, Cornea & Ocular Surface Biology & Pathology Conference, 18-23 February 2018, Ventura, CA, USA
168. Netherlands Society of Gene and Cell Therapy (NVGCT) 2018 Spring Symposium, 15-16 March 2018, Lunteren, The Netherlands
169. Università Roma Tor Vergata, “Frontiers in Genito-Urinary Reconstruction, Updates, Tissue Engineering and Penile Transplant”, 13 -14 April 2018, Roma, Italy
170. AUA (American Urological Association), 2018 Annual Meeting, 17-21 May 2018, San Francisco, USA
171. International Society for Stem Cell Research, 2018 ISSCR Annual Meeting, 20-23 June 2018, Melbourne, Australia
172. 13th YES Meeting, Young European Scientist Meeting, 13-16 September 2018, Porto, Portugal
173. Congress BIO2018, International Congress of the Polish Biochemical Society and Polish Cell Biology, 18-21 September 2018, Gdansk, Polonia
174. 4th ITRUST Futurology Meeting, 26-28 September 2018, Roma, Italy
175. 14th AOPT Meeting, Next Generation Ocular Therapeutics, 7-10 March 2019, New Orleans (USA)
176. European Association of Urology, 34th Annual EAU Congress (EAU19), 15-19 March 2019, Barcelona, Spain

177. Swedish Center for Advanced Medicinal Products (CAMP), 2nd Swedish National Conference on Advanced Therapy Medicinal Products, 4 April 2019, Gothenburg, Sweden
178. Tissue Engineering & Regenerative Medicine International Society (TERMIS), EU Chapter 2019 Meeting, 27-31 May 2019, Rhodes, Greece
179. SCR, X Meeting Stem Cell Research Italy, 5-7 June 2019, Napoli, Italy
180. Federation of European Biochemical Societies, 44th FEBS Congress, “From molecules to Living Systems”, 6-11 July 2019, Krakow, Poland
181. European Society of Cataract & Refractive Surgeons, 37th Congress of the ESCRS, 14 September 2019, Paris, France
182. European Society of Organ Transplantation, ESOT Congress 2019 “Inspiring minds, Driving progress”, 15-18 September 2019, Copenhagen, Denmark
183. New York Stem Cell Foundation, NYSCF 2019 Conference, 22-23 October 2019, New York, USA
184. ISSCR’s International Symposium Series, “From Stem Cell Biology to New Therapies”, 6-8 November 2019, Toronto, Canada
185. FEAM European Biomedical Policy Forum, Workshop on “Regenerative Medicine: Scientific Advances and Regulatory Framework in Europe”, 27 November 2019, Bruxelles, Belgium
186. 60th Annual Meeting of the Ophthalmological Society of Taiwan, 13-15 December 2019, Taipei, Taiwan
187. DIA Europe, EU Regulatory Town Hall meeting, 17 March 2020, Bruxelles, Belgium – CANCELLED
188. SWELife-ATMP, Centre for Advanced Medical Products (CAMP), ATMP Conference, 1-2 April 2020, Stockholm, Sweden – CANCELLED
189. Tissue Engineering & Regenerative Medicine International Society (TERMIS), EU Chapter 2020 Meeting, Manchester, UK, 24-29 May 2020 (Remote)
190. London Tech Week, European Tech Women Award, London, 4 September 2020 (Remote)
191. Inflammatory Bowel Disease, III Edition, 22 January 2021, Verona, Italy
192. ATMP Sweden, ATMP Virtual World Tour, “hospital exemption and commercialization of ATMPs”, 29 April 2021
193. ATMP Sweden, ATMP World Tour Program, 26-30 of April 2021 (remote)
194. *LIVE* ATMP world tour April 29, 2021
195. ARVO 2021 Virtual Annual Meeting, SIG Session (Special Interest Group) entitled “The effect of ocular surface microenvironment on epithelial stem cells: translational implications”, 06 May 2021
196. ISCT 2021 New Orleans Virtual, Session V on “Tissue Engineering and regenerative Meeting”, 28 May 2021
197. AST (American Transplant Society) – TERMIS Webinar Series to share knowledge and to foster progress on organ bioengineering, towards the vision of regenerative medicine offering solutions for the future of organ transplantation, 2 June 2021
198. Centre for Stem cell Research Vellore, 6th Annual Cell and Gene Therapy Symposium (Virtual), 1-3 September, 2021 (remote)
199. World Conference of the Tissue Engineering and Regenerative Medicine International Society, TERMIS, November 15-19th 2021 (remote)
200. Expo Dubai 2020, Personalized Medicine: New tools and active polices for prevention, diagnosis and therapy, 27-28 January 2022, Dubai, UAE
201. Gordon Research Conference, GRS-GRC 2022 on “Cornea and Ocular Surface Biology, Pathology and Regeneration”, February 13-18, 2022, Ventura (California) (TO BE RESCHEDULED)
202. Limbal Stem Cells Symposium, 24-26 March 2022, Prof. Graziella Pellegrini (remote)
203. University of Aveiro (Portugal), International Webinars on Topics on Cell and Tissue Engineering (CTEng), 2º Edition, 17 June 2022 (remote)

204. 2022 TERMIS-EU conference, Award Cerimony, 28 June 2022, Krakow, Poland
 205. European Society of Medicine, 2022 ESMED General Assembly, 4-6 August 2022 (remote)
 206. Inflammatory Bowel Disease: Open Doors , 10 September 2022, Verona, Italy
 207. European Tissue Repair Society, ETRS 2022 Annual Meeting, 15-17 September 2022, Lyon, France
 208. Award ceremony of Louis Jeantet, Geneve, October 11, 2022
 209. GISM annual meeting, Turin October 21, 2022
 210. Cells, Cells and Nothing but Cells: Discoveries, Challenges and Directions, Online international meeting Part of the International Online Conference on Cells series, 6–8 Mar 2023
 211. XX Anniversary Lund University International Meeting, Lund 17-19 April 2023
 212. Stem Cell Network Meeting, Aachen 16-17 May 2023
 213. International Society for Cell & Gene Therapy (ISCT) Meeting Paris May 31- June 3 2023
 214. International Society for Stem Cell Research (ISSCR) Meeting, Boston June 12-18 2023
 215. BIO 2023 Meeting, Szczecin 13-16 September 2023
 216. STUEMO 2023, Oct 13-14 Parma, Italy
 217. AIFA Days 2023, Oct 19-20 2023, Modena, Italy
 218. UKRMP Showcase Event, Edinburgh, November 8-10 2023
 219. Update Technology in Urology, Nov 30 – Dec 3 2023, Rome
 220. World Health Forum, 23 March 2024, Padua
 221. Healthcare Transformation Academy, ATMP (Release criteria) April 18, 2024 webinar
 222. Webinar CTRMS, Feb 29, 2024 Montreal
 223. World Ophthalmology Congress, August 16-19, 2024 Vancouver (Canada)
 224. STEMCELLS MEET, September 19, 2024 Dubai webinar
 225. TTS International Transplantation Society, September 21-25, 2024 Istanbul Turkey
 226. Tear Film and Ocular Surface Society, October 30-November 2, 2024 Venice Italy
 227. Stemness, Regeneration and Immunity: from development to therapy, Francis Crick Institute, London UK, 4-5 November 2024
 228. CREATIC Conference, Poland November 22, 2024
 229. ISSCR Task Force, Edimburgh February 11-13, 2025
 230. Istituto Superiore di Sanità, Rome February 24-28, 2025
 231. From Man to Cell for Man Meeting, Genova Italy, May 6th 2025
 232. TERMIS EU (International Society of Tissue Engineering), May 20-23 2025, Friburg
 233. SITGEC, Società Italiana di Terapia Genica e Cellulare, June 6th, Rome, Italy
 234. ESOT (European Society for Organ Transplantation) June 29-July 1st, 2025 London
 235. 17th International Congress of Histochemistry and Cytochemistry, Aug 27 - 30 2025, Rimini, Italy
 236. Symposium on Corneal Regenerative Medicine, October 16th 2025, Montreal, Canada
 237. Scientific Conference for the 40th Anniversary of the LOEX, October 17th 2025, Quebec, Canada
 238. CTRMS (Cell Therapy and Regenerative Medicine Society) Meeting, October 22-26 2025, Tokyo, Japan
 239. San Raffaele Hospital, May 29 2026, Milan Italy
 240. ISSCR, Montreal July 10 2026, Montreal, Canada
-

GRANTS AND OTHER FINANCIAL SUPPORTS

- 2003-2005 Coordinator of project “Corneal Epithelial Stem cells culture and Transplantation” funded by Istituto Superiore di Sanità
- 2004-2007 Contractor of project “CORNEA-ENGINEERING – Three dimensional reconstruction of human corneas by tissue engineering” funded by European Community (EU, FP6-2002-NMP n. 504017)
- 2004-2006 Coordinator of project “Correction of genetic defects of macular corneal dystrophy type II in patients with corneal opacity” Funded by Veneto Region
- 2004-2008 Co-coordinator of project “Tissue repair by in vitro cultured conjunctival epithelium and clinical application” Funded by IDI Farmaceutici S.p.A. and MIUR
- 2004-2005 Coordinator of project “Treatment of bilateral limbal stem cell deficiency with cultured epidermal cell grafts on patients with no therapeutic alternatives” funded by Rome Bank Foundation
- 2006-2008 Contractor of the project “Ocular surface reconstruction in chemically burnt patients by cultured conjunctival graft” funded by National program on oriented research
- 2006 Co-Coordinator of the project “Tissue repair by conjunctival epithelium reconstruction in vitro and clinical application” funded by Padova e Rovigo Bank Foundation
- 2007-2009 Coordinator of the project “Corneal organotypic culture and diagnosis of blindness related to deep corneal lesions” funded by National program on oriented research for Veneto Region
- 2007-2009 Coordinator of the project “ Diagnosis and treatment of blindness due to bilateral total limbal stem cell deficiency” funded by by National program on oriented research for Alto Adige Region (RF-PAB-2006-344265)
- 2009-2011 Contractor of the project “Nerve growth factor (NGF) as a main actor in the activation/recruitment of ocular surface stem cells: in vitro and in vivo studies”, funded by Fondazione Cassa di Risparmio di Roma
- 2009-2011 Coordinator of the PRIN project “Utilizzo di nanotecnologie e medicina rigenerativa per la ricostruzione dell’uretra umana per il trattamento di stenosi uretrali recidivanti” (2008JJTFCW-001)
- 2011-2015 Contractor of the project Bio-COMET “Bioreactor-based, clinically oriented manufacturing of engineered tissues” Funded by European community (278807-FP7-HEALTH)
- 2012 Contractor of the project Bio-Trachea “Biomaterials for tracheal replacement in age-related cancer via a humanly engineered airway” Funded by European community (280584 FP7-NMP-2011-SMALL-5)
- 2013 Contractor of the project “ENDOMATRIX – Development of an engineered eNDOchondral extracellular MATRIX for bone regeneration” finanziato dall’Unione Europea (E!7865)
- 2015 PI of the DOMPE’project “Investigation of Nerve Growth Factor (NGF) effects on Rabbit ocular epithelial cell cultures”
- 2016 PI of the 3 years project “Medicina Rigenerativa dell’uretra”
- 2016 PI of the project funded by Gem Italy on surgical glue study for evaluation of toxicity on human tissues.
- 2018 Co-PI of the grant “Lombardia è ricerca” Prize funded by Lombardia Region
- 2020 Co-PI of the grant funded by Louis-Jeantet Prize
- 2021-2026 European consortium for communicating gene- and cell-based therapy information (EuroGCT Project)(H2020, 965241)
- 2022-2025 Organizational Model for Characterization and treatment of orphan bilateral blindness due to different forms of ocular surface stem cell deficiency: the bioengineered

oral mucosa from bench to bedside. PNRR-Mr1-2022-12376561 666655\47000 Ministry of Health.

- 2022-2025 Spoke 1 of National Center for Gene Therapy and Drugs based on RNA Technology, PNRR CN00000041.
- 2023- 2024 PRIN (Project of Relevant National Interest) The Empty Nose Syndrome, Investigations propaedeutic to in vivo studies 2022CMNWCZ Ministry of University and Research
- 2023-2025 Organizational model for characterization and treatment of orphan bilateral blindness due to different forms of ocular surface stem cell deficiency: the bioengineered oral mucosa from bench to bedside” PNRR-MR1-2022-12376561
- 2024-2029 SustainableATMP, FISA-2022-00928

BIBLIOGRAPHY

Articles

1. Pittaluga A, Asaro D, Pellegrini G, Raiteri M. **Studies on [3H]GABA and endogenous GABA release in rat cerebral cortex suggest the presence of autoreceptors of the GABAB type.** Eur J Pharmacol. 1987 Nov 24;144(1):45-52. doi:10.1016/0014-2999(87)90007-0
2. Bonanno G, Pellegrini G, Asaro D, et al **In vitro release of somatostatin from rat cerebral cortex synaptosomes and slices.** Pharmacol Res Comm. 1988(20, Suppl 2):48 doi:10.1016/S0031-6989(88)80178-4
3. Bonanno G, Pellegrini G, Asaro D et al. **Human brain cortex nerve endings are endowed with GABA autoreceptors of the GABA B** Pharmacol Res Comm. 1988(20, Suppl 2): 49 doi:10.1016/S0031-6989(88)80179-6
4. Raiteri M, Asaro D, Pellegrini G et al. **GabaB autoreceptor regulates 3H-Gaba and endogenous GABA release from rat cerebral cortex synaptosomes.** Pharmacol Res Comm 1988(20, Suppl 2):323 doi:10.1016/S0031-6989(88)80453-3
5. Asaro et al. Pharmacol Res Comm 48-49 323, 1988
6. Bonanno G, Cavazzani P, Andrioli GC, Asaro D, Pellegrini G, Raiteri M. **Release-regulating autoreceptors of the GABAB-type in human cerebral cortex.** Br J Pharmacol. 1989 Feb;96(2):341-6. doi:10.1111/j.1476-5381.1989.tb11823.x
7. Bonanno G, Pellegrini G, Asaro D, Fontana G, Raiteri M. **GABAB autoreceptors in rat cortex synaptosomes: response under different depolarizing and ionic conditions.** Eur J Pharmacol. 1989 Mar 7;172(1):41-9. doi:10.1016/0922-4106(89)90043-6
8. Raiteri M, Pellegrini G, Cantoni C, Bonanno G. **A novel type of GABA receptor in rat spinal cord?** Naunyn Schmiedebergs Arch Pharmacol. 1989 Dec;340(6):666-70. doi:10.1007/BF00717742
9. **Pellegrini G, Gherzi R, Franzi AT, D’Anna F, De Luca M, Cancedda R. In vitro reconstitution of differentiated human epithelia.** ATLA. 1992; 20:95-102.
10. **Pellegrini G, De Luca M, Orecchia G, Balzac F, Cremona O, Savoia P, Cancedda R., Marchisio PC. Expression, topography and function of integrin receptors is severely altered in keratinocytes from involved and uninvolved psoriatic skin.** J Clin Invest. 1992 Jun;89(6):1783-95. doi:10.1172/JCI115782
11. De Luca M, Pellegrini G, Bondanza S, Cremona O, Savoia P, Cancedda R, Marchisio PC. **The control of polarized integrin topography and the organization of adhesion-related cytoskeleton in normal human keratinocytes depend upon number of passages**

- in culture and ionic environment.** Exp Cell Res. 1992 Sep;202(1):142-50. doi:10.1016/0014-4827(92)90413-3
12. Marchisio PC, Cremona O, Savoia P, Pellegrini G, Ortonne JP, Verrando P, Burgeson RE, Cancedda R, De Luca M. **The basement membrane protein BM-600/nicein codistributes with kalinin and the integrin alpha 6 beta 4 in human cultured keratinocytes.** Exp Cell Res. 1993 Apr;205(2):205-12. doi:10.1006/excr.1993.1078
 13. De Luca M, Pellegrini G, Zambruno G, Marchisio PC. **Role of integrins in cell adhesion and polarity in normal keratinocytes and human skin pathologies.** J Dermatol. 1994 Nov;21(11):821-8. doi:10.1111/j.1346-8138.1994.tb03296.x
 14. Schiaffino MV, Baschiroto C, Pellegrini G, Montalti S, Tacchetti C, De Luca M, Ballabio A. **The ocular albinism type 1 gene product is a membrane glycoprotein localized to melanosomes.** Proc Natl Acad Sci U S A. 1996 Aug 20;93(17):9055-60.
 15. **Pellegrini G, Traverso C, Franzi AT, Zingirian M, Cancedda R, De Luca M. Long-term restoration of damaged corneal surfaces with autologous cultivated corneal epithelium.** Lancet 1997 Apr 5;349(9057):990-3. doi:10.1016/S0140-6736(96)11188-0
 16. Tsubota K, De Luca M, **Pellegrini G.** Corneal epithelial stem-cell transplantation. Lancet. 1997 April 5; 349(9064):1556. doi: 10.1016/S0140-6736(05)62141-1
 17. De Luca M, **Pellegrini G.** **The importance of epidermal stem cells in keratinocyte-mediated gene therapy.** Gene Ther. 1997 May;4(5):381-3.
 18. Dellambra E, Vailly J, Pellegrini G, Bondanza S, Golisano O, Macchia C, Zambruno G, Meneguzzi G, De Luca M. **Corrective transduction of human epidermal stem cells in laminin-5-dependent junctional epidermolysis bullosa.** Hum Gene Ther. 1998 Jun 10;9(9):1359-70. doi:10.1089/hum.1998.9.9-1359.
 19. **Pellegrini G, Bondanza S, Guerra L, De Luca M. Cultivation of human keratinocyte stem cells: current and future clinical applications.** Med Biol Eng Comput. 1998 Nov;36(6):778-90.
 20. **Pellegrini G, Golisano O, Paterna P, Lambiase A, Bonini S, Rama P, De Luca M. Location and clonal analysis of stem cells and their differentiated progeny in the human ocular surface.** J Cell Biol. 1999 May 17;145(4):769-82. doi:10.1083/jcb.145.4.769
 21. Chistolini P, De Angelis G, De Luca M, Pellegrini G, Ruspantini I. **Analysis of the mechanical properties of in vitro reconstructed epidermis: preliminary results.** Med Biol Eng Comput. 1999 Sep;37(5):670-2.
 22. **Pellegrini G, Ranno R, Stracuzzi G, Bondanza S, Guerra L, Zambruno G, Micali G, De Luca M. The control of epidermal stem cells (holoclones) in the treatment of massive full-thickness burns with autologous keratinocytes cultured on fibrin.** Transplantation. 1999 Sep 27;68(6):868-79.
 23. Guerra L, Capurro S, Melchi F, Primavera G, Bondanza S, Cancedda R, Luci A, De Luca M, **Pellegrini G. Treatment of “stable” vitiligo by Timesurgery and transplantation of cultured epidermal autografts.** Arch Dermatol. 2000 Nov;136(11):1380-9. doi:10.1001/archderm.136.11.1380
 24. Dellambra E, Pellegrini G, Guerra L, Ferrari G, Zambruno G, Mavilio F, De Luca M. **Toward epidermal stem cell-mediated ex vivo gene therapy of junctional epidermolysis bullosa.** Hum Gene Ther. 2000 Nov 1;11(16):2283-7. doi:10.1089/104303400750035825
 25. **Pellegrini G, Dellambra E, Golisano O, Martinelli E, Fantozzi I, Bondanza S, Ponzin D, McKeon F, De Luca M. p63 identifies keratinocyte stem cells.** Proc Natl Acad Sci U S A. 2001 Mar 13;98(6):3156-61. doi:10.1073/pnas.061032098
 26. Rama P, Bonini S, Lambiase A, Golisano O, Paterna P, De Luca M, **Pellegrini G. Autologous fibrin-cultured limbal stem cells permanently restore the corneal surface of patients with total limbal stem cell deficiency.** Transplantation. 2001 Nov 15;72(9):1478-85.

27. Guerra L, Primavera G, Raskovic D, Pellegrini G, Golisano O, Bondanza S, Paterna P, Sonogo G, Gobello T, Atzori F, Piazza P, Luci A, De Luca M. **Erbium:YAG laser and cultured epidermis in the surgical therapy of stable vitiligo.** Arch Dermatol. 2003 Oct;139(10):1303-10. doi:10.1001/archderm.139.10.1303
28. Guerra L, Primavera G, Raskovic D, Pellegrini G, Golisano O, Bondanza S, Kuhn S, Piazza P, Luci A, Atzori F, De Luca M. **Permanent repigmentation of piebaldism by erbium:YAG laser and autologous cultured epidermis.** Br J Dermatol. 2004 Apr;150(4):715-21. doi: 10.1111/j.0007-0963.2004.05500.x
29. **Pellegrini G. Changing the cell source in cell therapy?.** N Engl J Med. 2004 Sep 16;351(12):1170-2. doi: 10.1056/NEJMp048199
30. **Pellegrini G, Dellambra E, Paterna P, Golisano O, Traverso CE, Rama P, Lacal P, De Luca M. Telomerase activity is sufficient to bypass replicative senescence in human limbal and conjunctival but not corneal keratinocytes.** Eur J Cell Biol. 2004 Dec;83(11-12):691-700. doi:10.1078/0171-9335-00424
31. Di Iorio E, Barbaro V, Ruzza A, Ponzin D, Pellegrini G, De Luca M. **Isoforms of DNp63 and the migration of ocular limbal cells in human corneal regeneration.** Proc Natl Acad Sci U S A. 2005 Jul 5;102(27):9523-8. Epub 2005 Jun 27. doi: 10.1073/pnas.0503437102
32. Volpi N, Maccari F, Ferrari S, De Luca M, **Pellegrini G. Separation of keratan-sulfate-derived disaccharides by high-performance liquid chromatography and postcolumn derivatization with 2-cyanoacetamide and fluorimetric detection.** Anal Biochem. 2005 Jul 15;342(2):200-5. doi:10.1016/j.ab.2005.04.020
33. Ferrari S, Pellegrini G, Mavilio F, De Luca M. **Gene therapy approaches for epidermolysis bullosa.** Clin Dermatol. 2005 Jul-Aug;23(4):430-6. doi:10.1016/j.clindermatol.2004.07.017
34. De Luca M, Pellegrini G, Green H. **Regeneration of squamous epithelia from stem cells of cultured grafts.** Regen Med. 2006 Jan;1(1):45-57. doi:10.2217/17460751.1.1.45
35. Ferrari S, Pellegrini G, Matsui T, Mavilio F, De Luca M. **Gene therapy in combination with tissue engineering to treat epidermolysis bullosa.** Expert Opin Biol Ther. 2006 Apr;6(4):367-78. doi:10.1517/14712598.6.4.367
36. Ferrari S, Pellegrini G, Matsui T, Mavilio F, De Luca M. **Towards a gene therapy clinical trial for epidermolysis bullosa.** Rev Recent Clin Trials. 2006 May;1(2):155-62. doi: 10.2174/157488706776876472
37. Mavilio F, Pellegrini G, Ferrari S, Di Nunzio F, Di Iorio E, Recchia A, Maruggi G, Ferrari G, Bonini C, Capurro S, Conti A, Magnoni C, Giannetti A, De Luca M. **Correction of junctional epidermolysis bullosa by transplantation of genetically modified epidermal stem cells.** Nat Med. 2006 Dec;12(12):1397-402. doi:10.1038/nm1504. Epub 2006 Nov 19.
38. Di Iorio E, Barbaro V, Ferrari S, Ortolani C, De Luca M, **Pellegrini G. Q-FIHC: quantification of fluorescence immunohistochemistry to analyse p63 isoforms and cell cycle phases in human limbal stem cells.** Microsc Res Tech. 2006 Dec;69(12):983-91. doi: 10.1002/jemt.20375
39. Barbaro V, Di Iorio E, Ferrari S, Bisceglia L, Ruzza A, De Luca M, **Pellegrini G. Expression of VSX1 in human corneal keratocytes during differentiation to myofibroblasts in response to wound healing.** Invest Ophthalmol Vis Sci. 2006 Dec;47(12):5243-50. doi:10.1167/iovs.06-0185
40. Barbaro V, Testa A, Di Iorio E, Mavilio F, Pellegrini G, De Luca M. **C/EBPd regulates cell cycle and self-renewal of human limbal stem cells.** J Cell Biol. 2007 Jun 18;177(6):1037-49. doi: 10.1083/jcb.200703003. Epub 2007 Jun 11.
41. **Pellegrini G, De Luca M, Arsenijevic Y. Towards therapeutic application of ocular stem cells.** Semin Cell Dev Biol. 2007 Dec;18(6):805-18. doi:10.1016/j.semcdb.2007.09.011 Epub 2007 Sep 16.

42. Vinciguerra P, Albè E, Rosetta P, Di Iorio E, **Pellegrini G. Custom phototherapeutic keratectomy and autologous fibrin-cultured limbal stem cell autografting: a combined approach.** J Refract Surg. 2008 Apr;24(4):323-4.
43. Vrana NE, Builles N, Justin V, Bednarz J, Pellegrini G, Ferrari B, Damour O, Hulmes DJ, Hasirci V. **Development of a reconstructed cornea from collagen-chondroitin sulfate foams and human cell cultures.** Invest Ophthalmol Vis Sci. 2008 Dec;49(12):5325-31. doi: 10.1167/iovs.07-1599. Epub 2008 Aug 15.
44. Di Nunzio F, Maruggi G, Ferrari S, Di Iorio E, Poletti V, Garcia M, Del Rio M, De Luca M, Larcher F, Pellegrini G, Mavilio F. **Correction of laminin-5 deficiency in human epidermal stem cells by transcriptionally targeted lentiviral vectors.** Mol Ther. 2008 Dec;16(12):1977-85. doi: 10.1038/mt.2008.204. Epub 2008 Sep 23.
45. De Luca M, Pellegrini G, Mavilio F. Gene therapy of inherited skin adhesion disorders. Drug Discovery Today: Therapeutic Strategies. 2008 Dec;5(4):249-254. Doi: 10.1016/j.ddstr.2009.04.001
46. **Pellegrini G, Rama P, Mavilio F, De Luca M. Epithelial stem cells in corneal regeneration and epidermal gene therapy.** J Pathol. 2009 Jan;217(2):217-28. doi: 10.1002/path.2441.
47. Lambiase A, Micera A, Pellegrini G, Merlo D, Rama P, De Luca M, Bonini S, Bonini S. **In vitro evidence of nerve growth factor effects on human conjunctival epithelial cell differentiation and mucin gene expression.** Invest Ophthalmol Vis Sci. 2009 Oct;50(10):4622-30. doi: 10.1167/iovs.08-2716. Epub 2009 Apr 30.
48. De Luca M, Pellegrini G, Mavilio F. **Gene therapy of inherited skin adhesion disorders: A critical overview.** Br J Dermatol. 2009 Jul;161(1):19-24. doi: 10.1111/j.1365-2133.2009.09243.x. Epub 2009 Apr 20.
49. **Pellegrini G, De Luca M. Human embryonic stem-cell derived keratinocytes: how close to clinics?.** Cell Stem Cell. 2010 Jan 8;6(1):8-9. doi: 10.1016/j.stem.2009.12.002.
50. Colabelli Gisoldi RA, Pocobelli A, Villani CM, Amato D, **Pellegrini G. Evaluation of molecular markers in corneal regeneration by means of autologous cultures of limbal cells and keratoplasty.** Cornea. 2010 Jul;29(7):715-22. doi: 10.1097/ICO.0b013e3181c91ac4.
51. Rama P, Matuska S, Paganoni G, Spinelli A. De Luca M, **Pellegrini G. Limbal stem-cell therapy and long-term corneal regeneration.** N Engl J Med. 2010 Jul 8;363(2):147-55. doi: 10.1056/NEJMoa0905955. Epub 2010 Jun 23.
52. Builles N, Janin-Manificat H, Malbouyres M, Justin V, Rovère MR, Pellegrini G, Torbet J, Hulmes DJ, Burillon C, Damour O, Ruggiero F. **Use of magnetically oriented orthogonal collagen scaffolds for hemi-corneal reconstruction and regeneration.** Biomaterials. 2010 Nov;31(32):8313-22. doi: 10.1016/j.biomaterials.2010.07.066. Epub 2010 Aug 13.
53. **Pellegrini G, Rama P, De Luca M. Vision from the right stem.** Trends Mol Med. 2011 Jan;17(1):1-7. doi: 10.1016/j.molmed.2010.10.003. Epub 2010 Nov 11
54. Saghizadeh M, Soleymani S, Harounian A, Bhakta B, Troyanovsky SM, Brunken WJ, Pellegrini G, Ljubimov AV . **Alterations of epithelial stem cell marker patterns in human diabetic corneas and effects of c-met gene therapy.** Mol Vis. 2011;17:2177-90. Epub 2011 Aug 12.
55. Corradini F, Venturi B, Pellegrini G, De Luca M. **Methods for characterization/manipulation of human corneal stem cells and their applications in regenerative medicine.** Methods Mol Biol. 2012; 916:357-72. doi: 10.1007/978-1-61779-980-8_26.
56. **Pellegrini G, Rama P, Matuska S, Lambiase A, Bonini B, Pocobelli A, Gisoldi Colabelli R, Spadea L, Fasciani R, Ballestrazzi E, Vinciguerra P, Rosetta P, Tortori A, Nardi M, Gabbriellini G, Traverso CE, Macaluso C, Losi L, Percesepe A, Venturi B, Corradini F, Panaras A, Di Rocco A, Guatelli P, De Luca M. Biological parameters determining the**

- clinical outcome of cultured limbal stem cells.** *Regen Med.* 2013 Sep;8(5):553-67. doi: 10.2217/rme.13.43. Epub 2013 Jun 3.
57. Carulli S, Contin R, De Rosa L, Pellegrini G, De Luca M. **The long and winding road that leads to a cure for epidermolysis bullosa.** *Regen Med.* 2013 Jul;8(4):467-81. doi: 10.2217/rme.13.33.
 58. Pellegrini G, Rama P, Di Rocco A, Panaras A, De Luca M. **Concise review: hurdles in a successful example of limbal stem cell-based regenerative medicine.** *Stem Cells.* 2014 Jan;32(1):26-34. doi: 10.1002/stem.1517.
 59. Courtney DG, Atkinson SD, Moore JE, Maurizi E, Serafini C, Pellegrini G, Black GC, Manson F, Yam GH, Allen EH, McLean WH, Moore TC. **Development of allele specific gene silencing siRNAs for TGFBI Arg124Cys in Lattice Corneal Dystrophy Type I.** *Invest Ophthalmol Vis Sci.* 2014 Feb 18;55(2):977-85. doi: 10.1167/iovs.13-13279
 60. De Rosa L, Carulli S, Cocchiarella F, Quaglini D, Enzo E, Franchini E, Giannetti A, De Santis G, Recchia A, Pellegrini G, De Luca M, **Long-term stability and safety of transgenic cultured epidermal stem cells in gene therapy of junctional epidermolysis bullosa.** *Stem Cell Reports.* 2013 Dec 26;2(1):1-8. doi: 10.1016/j.stemcr.2013.11.001. eCollection 2014 Jan 14.
 61. Courtney DG, Atkinson SD, Allen EH, Moore JE, Walsh CP, Leslie Pedrioli DM, Macewen CJ, Pellegrini G, Maurizi E, Serafini C, Fantacci M, Liao H, Irvine AD, McLean WH, Moore TC. **siRNA Silencing of the Mutant Keratin 12 Allele in Corneal Limbal Epithelial Cells Grown from Patients with Meesmann's Epithelial Corneal Dystrophy.** *Invest Ophthalmol Vis Sci.* 2014 May 6;55(5):3352-60. doi: 10.1167/iovs.13-12957.
 62. Pellegrini G, De Luca M, **Eyes on the prize: limbal stem cells and corneal restoration,** *Cell Stem Cell.* 2014 Aug 7;15(2):121-2. doi: 10.1016/j.stem.2014.07.011.
 63. Cavallini GM, Pellegrini G, Volante V, Ducange P, De Maria M, Torlai G, Benatti C, Forlini M, **Chemical injury treated with autologous limbal epithelial stem cell transplantation and subconjunctival bevacizumab.** *Clinical Ophthalmology,* 2014 August 30;8:1671–1673 doi: 10.2147/OPHTH.S65298. eCollection 2014.
 64. Ianiro A, Giosia MD, Fermani S, Samorì C, Barbalinardo M, Valle F, Pellegrini G, Biscarini F, Zerbetto F, Calvaresi M, Falini G. **Customizing properties of β -chitin in squid pen (gladius) by chemical treatments.** *Mar Drugs.* 2014 Dec 15;12(12):5979-92. doi: 10.3390/md12125979.
 65. Murauer EM, Koller U, Pellegrini G, De Luca M, Bauer JW, **Advances in Gene/Cell Therapy in Epidermolysis Bullosa,** *Keio J Med.* 2015 Jun 25;64(2):21-5. doi: 10.2302/kjm.2014-0013-RE. Epub 2015 Jun 6
 66. Corradini F, Zattoni M, Barbagli G, Bianchi G, Giovanardi M, Serafini C, Genna V, Ribbene A, Balò S, Fidanza F, Lazzeri M, De Luca M, **Pellegrini G. Comparative Assessment Of Cultures From Oral And Urethral Stem Cells For Urethral Regeneration.** *Curr Stem Cell Res Ther.* 2016; 11(8):643-65. doi: 10.2174/1574888X10666150902094644 Epub 2015 Sep 1
 67. Pellegrini G, Lambiase A, Macaluso C, Pocobelli A, Deng S, Cavallini GM, Esteki R, Rama P, **From discovery to approval of an advanced therapy medicinal product-containing stem cells, in the EU.** *Regen Med.* 2016 Jun;11(4):407-20. doi: 10.2217/rme-2015-0051. Epub 2016 Apr 19.
 68. Milazzo G, Ardigò D, Toschi M, Matuska S, Rama P, De Luca M, **Pellegrini G.** *Holoclar: first of its kind in more ways than one.* *Cell Gene Therapy Insights* 2016 July 6;2(2):183-197. doi:10.18609/cgti.2016.023
 69. Barbagli G, Pellegrini G, Corradini F, Montorsi F, Sansalone S, Butnaru D, Lazzeri M. **One-stage Penile Urethroplasty Using Oral Mucosal Graft and Glue.** *Eur Urol.* 2016 Dec;70(6):1069-1075. doi: 10.1016/j.eururo.2016.04.025. Epub 2016 May 6

70. Bauer JW, Koller J, Murauer EM, De Rosa L, Enzo E, Carulli S, Bondanza S, Recchia A, Muss W, Diem A, Mayr E, Schlager P, Gratz IK, Pellegrini G, De Luca M. **Closure of a large chronic wound through transplantation of gene-corrected epidermal stem cells.** *J Invest Dermatol.* 2017 Mar;137(3):778-781. doi: 10.1016/j.jid.2016.10.038. Epub 2016 Nov 10
71. Rama P, Ferrari G, **Pellegrini G. Cultivated limbal epithelial transplantation.** *Curr Opin Ophthalmol.* 2017 Jul;28(4):387-389.
72. Hirsch T, Rothoeft T, Teig N, Bauer JW, **Pellegrini G**, De Rosa L, Scaglione D, Reichelt J, Klausegger A, Kneisz D, Romano O, Secone Seconetti A, Contin R, Enzo E, Jurman I, Carulli S, Jacobsen F, Luecke T, Lehnhardt M, Fischer M, Kueckelhaus M, Quaglino D, Morgante M, Biciato S, Bondanza S, De Luca M. **Regeneration of the entire human epidermis using transgenic stem cells.** *Nature.* 2017 Nov 16;551(7680):327-332. doi: 10.1038/nature24487. Epub 2017 Nov 8.
73. **Pellegrini G**, Ardigò D, Milazzo G, Iotti G, Guatelli P, Pelosi D, De Luca M. **Navigating Market Authorization: The Path Holoclar Took to Become the First Stem Cell Product Approved in the European Union.** *Stem Cells Transl Med.* 2018 Jan;7(1):146-154.
74. Stern JH, Tian Y, Funderburgh J, Pellegrini G, Zhang K, Goldberg JL, Ali RR, Young M, Xie Y, Temple S. **Regenerating Eye Tissues to Preserve and Restore Vision.** *Cell Stem Cell.* 2018 Jun 1;22(6):834-849. doi: 10.1016/j.stem.2018.05.013 [Erratum in *Cell Stem Cell* 2018]
75. Stern JH, Tian Y, Funderburgh J, Pellegrini G, Zhang K, Goldberg JL, Ali RR, Young M, Xie Y, Temple. **Regenerating Eye Tissues to Preserve and Restore Vision.** *Cell Stem Cell.* 2018 Sep 6;23(3):453. doi: 10.1016/j.stem.2018.08.014. [Erratum for *Cell Stem Cell* 2018]
76. Attico E, Sceberas V, **Pellegrini G. Approaches for Effective Clinical Application of Stem Cell Transplantation.** *Current Transplantation* 2018;5(3):244-250. doi: 10.1007/s40472-018-0202-0. Epub 2018 Aug 2
77. Sugarman J, Barker RA, Kerridge I, Lysaght T, Pellegrini G, Sipp D, Tanner C. **Tackling Ethical Challenges of Premature Delivery of Stem Cell-Based Therapies: ISSCR 2018 Annual Meeting Focus Session Report.** *Stem Cell Reports.* 2018 Nov 13;11(5):1021-1025. doi: 10.1016/j.stemcr.2018.10.020.
78. **Pellegrini G**, De Luca M. **Living with Keratinocytes.** *Stem Cell Reports.* 2018 Nov 13;11(5):1026-1033. doi: 10.1016/j.stemcr.2018.10.005.
79. Deng SX, Borderie V, Chan CC, Dana R, Figueiredo FC, Gomes JAP, Pellegrini G, Shimmura S, Kruse FE; and The International Limbal Stem Cell Deficiency Working Group. **Global Consensus on Definition, Classification, Diagnosis, and Staging of Limbal Stem Cell Deficiency.** *Cornea.* 2019 Mar;38(3):364-375. doi: 10.1097/ICO.0000000000001820.
80. De Rosa L, Secone Seconetti A, De Santis G, Pellacani G, Hirsch T, Rothoeft T, Teig N, Pellegrini G, Bauer JW, De Luca M. **Laminin 332-Dependent YAP Dysregulation Depletes Epidermal Stem Cells in Junctional Epidermolysis Bullosa.** *Cell Rep.* 2019 May 14;27(7):2036-2049.e6. doi: 10.1016/j.celrep.2019.04.055.
81. De Luca M, Aiuti A, Cossu G, Parmar M, Pellegrini G, Robey PG. **Advances in stem cell research and therapeutic development.** *Nat Cell Biol.* 2019 Jul;21(7):801-811. doi: 10.1038/s41556-019-0344-z. Epub 2019 Jun 17.
82. Sceberas V, Attico E, Bianchi E, Galaverni G, Melonari M, Corradini F, Fantacci M, Ribbene A, Losi L, Balò S, Lazzeri M, Trombetta C, Rizzo M, Manfredini R, Barbagli G, **Pellegrini G. Preclinical study for treatment of hypospadias by advanced therapy medicinal products.** *World J Urol.* 2019 Jul 9. doi: 10.1007/s00345-019-02864-x. [Epub ahead of print]

83. **Pellegrini G. New Drugs?**. Pharmadvances 0:6-8, 2019 September
doi: 10.36118/pharmadvances.00.2019.04
84. Barbalinardo M, Di Giosia M, Polishchuk I, Magnabosco G, Fermani S, Biscarini F, Calvaresi M, Zerbetto F, Pellegrini G, Falini G, Pokroy B, Valle F. **Retinoic acid/calcite micro-carriers inserted in fibrin scaffolds modulate neuronal cell differentiation.** J Mater Chem B. 2019 Oct 14;7(38):5808-5813. doi: 10.1039/c9tb01148j. Epub 2019 Sep 5.
85. Vukasovic A, Asnaghi MA, Kostesic P, Quasnichka H, Cozzolino C, Pusic M, Hails L, Trainor N, Krause C, Figallo E, Filardo G, Kon E, Wixmerten A, Maticic D, Pellegrini G, Kafienah W, Hudetz D, Smith T, Martin I, Ivkovic A, Wendt D. **Bioreactor-manufactured cartilage grafts repair acute and chronic osteochondral defects in large animal studies.** Cell Prolif. 2019 Nov;52(6):e12653. doi: 10.1111/cpr.12653. Epub 2019 Sep 6.
86. Deng SX, Borderie V, Chan CC, Dana R, Figueiredo FC, Gomes JAP, Pellegrini G, Shimmura S, Kruse FE. **Reply.** Cornea. 2019 Dec;38(12):e56-e57. doi: 10.1097/ICO.0000000000002145.
87. Magrelli Federica M, Merra A., **Pellegrini G. Surgery Versus ATMPs: An Example From Ophthalmology.** Front Bioeng Biotechnol. 2020 Jun 10;8:440. doi: 10.3389/fbioe.2020.00440. eCollection 2020.
88. Maurizi E, Schioli D, Zini R, Limongelli A, Mistò R, Macaluso C, **Pellegrini G. A fine-tuned β -catenin regulation during proliferation of corneal endothelial cells revealed using proteomics analysis.** Sci Rep. 2020 Aug 14;10(1):13841. doi: 10.1038/s41598-020-70800-w.
89. Attico E, Galaverni G and **Pellegrini G Clinical Studies of COMET for total LSCD: a review of the methods and molecular markers for follow up characterizations** Curr Ophthalmol Rep 2021
90. Maurizi E, Adamo D, Magrelli FA, Galaverni G, Attico E, Merra A, Maffezzoni MBR, Losi L, Genna VG, Sceberas V, **Pellegrini G. Regenerative Medicine of Epithelia: Lessons From the Past and Future Goals.** Front Bioeng Biotechnol. 2021 Mar 25;9:652214. doi: 10.3389/fbioe.2021.652214. eCollection 2021.
91. Attico, E., Galaverni, G., Bianchi, E., ...Rama, P., **Pellegrini, G. SOX2 Is a Univocal Marker for Human Oral Mucosa Epithelium Useful in Post-COMET Patient Characterization.** Int J Mol Sci 2022, 23(10), 5785
92. Maurizi, E., Merra, A., Schioli, D., ...Macaluso, C., **Pellegrini, G. Fluctuations in Corneal Endothelial LAP2 Expression Levels Correlate with Passage Dependent Declines in Their Cell Proliferative Activity.** Int J Mol Sci 2022, 23 (10) 5859
93. Adamo, D., Galaverni, G., Genna, V.G., Lococo, F., **Pellegrini, G. The Growing Medical Need for Tracheal Replacement: Reconstructive Strategies Should Overcome Their Limits.** Front Bioeng Biotechnol. 2022, 10, 846632
94. Chakravarti, S., Enzo, E., Rocha Monteiro de Barros, M., Maffezzoni, M.B.R., **Pellegrini, G. Genetic Disorders of the Extracellular Matrix: From Cell and Gene Therapy to Future Applications in Regenerative Medicine.** Annual review of genomics and human genetics, 2022, 23, pp. 193–222
95. Maurizi E, Martella DA, Schioli D, Merra A, Salman Ahmad Mustfa, Pellegrini G, Macaluso C, Chiappini C **Nanoneedles for targeted siRNA silencing of p16 in the Human Corneal Endothelium.** Advanced Science *in press*
96. Barker RA, Carpenter M, Jamieson C H. M, Murry C. E., Pellegrini G, Rao R.C. and Song J. **Lessons Learnt, And Still To Learn, In First In Human Stem Cell Trials.** Stem Cell Reports 2022 Dec 14:S2213-6711(22)00552-5
97. Adamo D, Attico E, Pellegrini G. **Education for the translation of Advanced Therapy Medicinal Products.** Front Med (Lausanne). 2023 Apr 4;10:1125892. doi: 10.3389/fmed.2023.1125892. eCollection 2023.

98. Maurizi E, Merra A, Macaluso C, Schirotti D, **Pellegrini G. GSK-3 inhibition reverts mesenchymal transition in primary human corneal endothelial cells.** Eur J Cell Biol. 2023 Mar 7;102(2):151302.
99. Attico E, Galaverni G, Torello A, Bianchi E, Bonacorsi S, Losi L, Manfredini R, Lambiase A, Rama P, **Pellegrini G. Comparison between Cultivated Oral Mucosa and Ocular Surface Epithelia for COMET Patients Follow-Up.** Int. J. Mol. Sci. 2023, 24(14) 11522; <https://doi.org/10.3390/ijms241411522> - 15 Jul 2023
100. Genna VG, Adamo D, Galaverni G, Lepore F, Boraldi F, Quaglino D, Lococo F, **Pellegrini G. Validation of airway porcine epithelial cells as an alternative to human in vitro preclinical studies.** Sci Rep. 2023 Sep 28;13(1):16290. doi: 10.1038/s41598-023-43284-7.
101. Merra A, Maurizi E, **Pellegrini G. Impact of culture media on primary human corneal endothelial cells derived from old donors.** Exp Eye Res. 2024 Feb 3;240:109815. doi: 10.1016/j.exer.2024.109815.
102. Marinova C, Vlkova E, Horackova M, Netukova M, Skalicka P, Pellegrini G, Sladkova V, Losova M, Skvarlova S. Optimizing Vision Restoration: **Experience with Holoclar Treatment, the Selection of a Qualified Treatment Center, Accessibility to Patients and Outcomes.** J Clin Exp Ophthalmol, Vol.15 Iss.2 No:1000971, 21-Mar-2024, DOI: 10.35248/2155-9570.24.15.971
103. Genna VG, Maurizi E, Rama P, Pellegrini G. **Biology and medicine on ocular surface restoration: Advancements and limits of limbal stem cell deficiency treatments.** Ocul Surf. 2025 Jan;35:57-67. doi: 10.1016/j.jtos.2024.11.005. Epub 2024 Nov 22.PMID: 39580144
104. Adamo D, Genna VG, Galaverni G, Chiavelli C, Merra A, Lepore F, Boraldi F, Quaglino D, Evangelista J, Lococo F, Pellegrini G. *Airway epithelial stem cell renewal and differentiation: overcoming challenging steps towards clinical-grade tissue engineering.* Stem Cell Res Ther. 2025 Jul 6;16(1):351. doi: 10.1186/s13287-025-04478-0
105. Adamo D, Galaverni G, Genna VG, Lococo F, Pellegrini G. **The Growing Medical Need for Tracheal Replacement: Reconstructive Strategies Should Overcome Their Limits.** Front Bioeng Biotechnol. 2022 May 9;10:846632. doi: 10.3389/fbioe.2022.846632
106. Barry J, Abranches E, Baptista RP, Barry C, Brandsten C, Bruce K, Carpenter MK, Cavagnaro J, Collins L, Csaszar E, Dashnau J, de Villa D, Fynes K, Gabaldo M, Hao J, Harel-Adar T, Hei D, Henchcliffe C, Hidalgo-Simon A, Hollands J, Hursh D, Jackman S, Kelly K, Kim JH, Kim H, Kino-Oka M, Lakshmipathy U, Lamb T, Lazic SE, Loring JF, Ludwig TE, Mariappan I, Monville C, Mountford JC, Nagy A, Okano H, Pellegrini G, Persson A, Prutton K, Rasko JEJ, Sareen D, Sato Y, Shnaiderman A, Stacey G, Svendsen CN, Tomishima M, Trounson A, Viswanathan S, Wang S, Wydenbach K, Zhang A, Zylberberg C, Mosher JT, Bharti K. **Charting the translational pathway: ISSCR best practices for the development of PSC-derived therapies.** Stem Cell Reports. 2026 Feb 10;21(2):102784. doi: 10.1016/j.stemcr.2025.102784

NON PEER REVIEW

107. Barbagli G, Valli B, Pellegrini G and Lazzeri M. **Biological constructs in urethral reconstruction: a brief clinical overview** AUA news. August 2021

Book Chapters

1. De Luca M., Pellegrini G., Zambruno G. "The epidermal keratinocyte" in Harris A., Epithelial Cell Culture, Cambridge University Press, Cambridge U.K., 1996, pp.122-44, ISBN: 0521550238

2. De Luca M., Guerra L., Bondanza S., Pellegrini G. “Applicazioni cliniche dei cheratinociti umani normali coltivati in vitro” in Guarnera G, Papi M., L’ulcera cutanea degli arti inferiori, Monti, Saronno (VA), 1998, pp. 217-232, ISBN: 8886881150
3. De Luca M., Guerra L., Dellambra E., Pellegrini G. “Keratinocyte-mediated cell and gene therapy”, In: Horch R.E., Munster A.M., Achauer, B.M. (Eds.), Cultured human keratinocytes and tissue engineered skin substitutes, Georg Thieme Verlag, Stuttgart, Germany, 2001, pp. 72-82, ISBN: 3-13-130161-9
4. Pellegrini G. “Terapia cellulare e genica con cheratinociti umani coltivati” in Cancedda R., Pietrabissa R., Ingegneria dei tessuti biologici, Patron, Bologna, 2002, p. 239-254, ISBN: 8855526642
5. Pellegrini G. e De Luca M., “Facciamo il punto sulla medicina rigenerativa della superficie oculare”, Annali Società Oftalmologia Italiana, 2006, pp. 31-56.
6. Pellegrini G., “Corneal regeneration by means of somatic cell therapy”, in J.A. Gutierrez et al., Cell Therapy , Mc Graw-Hill, Madrid, 2007, pp. 363-77.
7. Pellegrini G., Mavilio F. “ Medicina rigenerativa e nuove frontiere terapeutiche” in Fantoni et al., Biologia cellulare e genetica, Piccin, Padova, 2008, vol. 1 pp. 581-603.
8. Corradini F, Zattoni M, Rama P, De Luca M, Pellegrini G. Corneal Bioengineering in Orlando G. Regenerative Medicine Applications in Organ Transplantation. 2014, Elsevier Inc., pp. 829-840 ISBN: 978-012398523-1 Doi: 10.1016/B978-0-12-398523-1.00059-8
9. Graziella Pellegrini, Alessandro Lambiase, Claudio Macaluso, Augusto Pocobelli, Paolo Vinciguerra, Gian Maria Cavallini, Pietro Ducange, Paolo Rama. Rigenerazione della cornea. Dalla scoperta all’approvazione di un prodotto medicinale di terapia avanzata contenente cellule staminali in Europa. In Giampaolo Bagnara, Cellule Staminali Casa Editrice Esculapio, Bologna, 2016
10. Chiara Chiavelli, Eustachio Attico, Virginia Sceberras, Monica Fantacci, Matteo Melonari e Graziella Pellegrini. Stem Cells and Ocular Regeneration in R. L. Reis, & M. E. Gomes (Eds.), Encyclopedia of Tissue Engineering and Regenerative Medicine, Vol. 2, Academic Press: Elsevier. ISBN: 9780128136997
11. Virginia Sceberras, Federica Maria Magrelli, Davide Adamo, Eleonora Maurizi, Eustachio Attico, Vincenzo Genna, Massimo Lazzeri, Guido Barbagli and Graziella Pellegrini. The Cell As A Tool To Understand And Repair Urethra in “Scientific Advances in Reconstructive Urology and Tissue Engineering”, Elsevier, pp. 1-24. ISBN: 9780323911993. 2022
12. Graziella Pellegrini, Alessandro Lambiase, Claudio Macaluso, Augusto Pocobelli, Paolo Vinciguerra, Gian Maria Cavallini, Pietro Ducange, Davide Adamo, Giulia Galaverni Vincenzo Genna, Paolo Rama. Corneal regeneration. From discovery to approval of an advanced stem cell therapy medicinal product in Europe. In Giampaolo Bagnara, Stem Cells Casa Editrice Esculapio, Bologna, 2024
13. Graziella Pellegrini, Alessandro Lambiase, Claudio Macaluso, Augusto Pocobelli, Paolo Vinciguerra, Gian Maria Cavallini, Pietro Ducange, Paolo Rama. Rigenerazione della cornea. Dalla scoperta all’approvazione di un prodotto medicinale di terapia avanzata contenente cellule staminali in Europa. In Giampaolo Bagnara, Cellule Staminali Casa Editrice Esculapio, Bologna, 2024

Modena, April 2026