

# Francesca Paris

## Info & contacts

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## Scientific topics

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My research focuses on perinatal stem cells, specifically Wharton's jelly mesenchymal stem cells and Amniotic Epithelial stem cells. I study their potential applications in regenerative medicine for Type 1 Diabetes, investigating their unique properties and therapeutic potential for pancreatic beta cell regeneration and immune modulation.

## Education

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### Alma Mater Studiorum University of Bologna

- November 2021 - present: PhD in *Oncology, Hematology and Pathology*, category BIO-17 Doctoral project: **"Differentiation of perinatal stem cells into insulin producing beta pancreatic cells"**

### University of Verona

- October 2017 - October 2019: Master's Degree in *Molecular and medical biotechnology*, category LM-9, grade 110L/110.
- September 2014 - October 2017: Degree in *Bachelor Degree in Biomedical Laboratory Techniques (to qualify as a biomedical laboratory worker)*, category L/SNT3, grade 110L/110.

### Liceo Scientifico L. da Vinci, Trento

- September 2009 - July 2014: Diploma, grade 84/100.

## Traineeship experience

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### University of Verona Via dell'Artigliere 8, 37129 Verona.

- **October 2018 - October 2019, Neuroimmunology lab:** as a graduate student, I investigated different immunological aspects in animal models of Alzheimer's disease and autoimmune encephalomyelitis.
- **January 2017 - September 2018, Paleomicrobiology lab:** as a bachelor student, I participated in the design and development of a Paleomicrobiology lab. This experience taught me how to work in a clean and sterile room. I investigated different DNA extraction protocols to obtain high quality ancient DNA from bones and teeth.

## Work experience

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### University of Bologna via Zamboni 33, 40126 Bologna

- **May 2022 - May 2022/ May 2023 - May 2023, Teaching tutor:** as a PhD student I had the opportunity to work as teaching tutor in two laboratories: "NORMAL AND LEUKEMIC STEM CELLS" and "STEM CELL THERAPY"

**Santa Chiara Hospital** Largo Medaglie d'oro, 9, 38122 Trento TN.

- **December 2019 - October 2021, Azienda Provinciale per i Servizi Sanitari Trento, Pharmacology lab, Antiblastic Drug Unit:** as a biomedical technician I was responsible for the production of sterile chemotherapy, personalized preparations and antiviral therapies. We also designed experimental protocols for clinical trials.

I was also in charge for the management of drugs, medication materials, antiseptics, disinfectants and medical devices in the Antiblastic Drug Unit stockroom.

## Courses

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- "Training School COST Action 17116 SPRINT" Coimbra, Portugal - 29/06/2022 01/07/2022
- "Amniotic Fluid and Placental Membranes as Sources of Stem Cells" IJMS Webinar - 11/11/2021
- "Practical and theoretical course for graduate student" - Zeiss Academy - 19-20/06/2019
- "I Dispositivi di Protezione Collettiva per la prevenzione dei rischi nei laboratori di ricerca e analisi" Univerity of Verona - 07/06/2019
- "Gestione della sicurezza nell'utilizzo di sorgenti di radiazioni ottiche coerenti ed incoerenti" - Univerity of Verona - 5/06/2019
- "Corso C.I.R.S.A.L per il personale utilizzatore dello stabulario." Univerity of Verona - 30/04/2018

## Language Certifications

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- Italian: Native Italian speaker
- English: B2 level certification in both oral and written skills, LanguageCert ESOL (May 2021) / Academic English Skills (AcES) Upper-Intermediate Level (2022).
- Spanish: B2 level certification in both oral and written skills, Instituto Cervantes DELE (June 2013).

## Publications

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- [1] Mitigating Oxidative Stress in Perinatal Cells: A Critical Step toward an Optimal Therapeutic Use in Regenerative Medicine  
Valeria Pizzuti<sup>1, †</sup>, **Francesca Paris** <sup>1, †</sup>, Pasquale Marrazzo <sup>1, \*</sup>, Laura Bonsi <sup>1, ‡</sup> and Francesco Alviano <sup>2, ‡</sup> Paper accepted Biomolecules 2023
- [2] Characterization of Perinatal Stem Cell Spheroids for the Development of Cell Therapy Strategy  
**Paris, F.**; Marrazzo, P.; Pizzuti, V.; Marchionni, C.; Rossi, M.; Michelotti, M.; Petrovic, B.; Ciani, E.; Simonazzi, G.; Pession, A.; et al. Bioengineering 2023
- [3] The Medium Obtained from the Culture of Hodgkin Lymphoma Cells Affects the Biophysical Characteristics of a Fibroblast Cell Model.  
Rossi, M.; Alviano, F.; Myrtaj, B.; Zia, S.; Righi, S.; Pizzuti, V.; **Paris, F.**; Roda, B.; Zattoni, A.; Bonsi, L.; et al. Bioengineering 2023.
- [4] Perinatal Stem Cell Therapy to Treat Type 1 Diabetes Mellitus: A Never-Say-Die Story of Differentiation and Immunomodulation.  
**Paris, F.**<sup>†</sup>; Pizzuti, V.<sup>†</sup>; Marrazzo, P.; Pession, A.; Alviano, F.; Bonsi, L.. Int. J. Mol. Sci. 2022
- [5] LFA-1 controls Th1 and Th17 motility behavior in the inflamed central nervous system.  
Silvia Dusi, Stefano Angiari, Enrica Caterina Pietronigro, Nicola Lopez, Gabriele Angelini, Elena Zenaro, Vittorina Della Bianca, Gabriele Tosadori, **Francesca Paris**, Antonella Amoruso, Tommaso Carlucci, Gabriela Constantin, Barbara Rossi. Front. Immunol. 2019

## Conferences

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- [1] Biocompatibility assessment of biomaterials obtained from discarded natural sources for Dental Pulp Stem Cell culture.  
Pasquale Marrazzo, **Francesca Paris**, Valeria Pizzuti, Silvia Zia, Barbara Roda, Francesco Alviano and L. Bonsi. Poster GISM Meeting 2022 in Turin Italy
- [2] Three-dimensional spheroid co-culture for pancreatic differentiation protocols: a new model for regenerative medicine applications  
**Francesca Paris**, Valeria Pizzuti, Pasquale Marrazzo, Azzurra Sargenti, Simone Pasqua, Giovanna Petrocelli, Luca Pampanella, Martina Michelotti, Miriana Rognetta, Francesco Alviano, Laura Bonsi. Poster IPLASS Meeting 2022 in Brescia, Italy
- [3] Recovery of discarded natural structures as adaptive biomaterials for the culture of human perinatal stem cells  
P. Marrazzo, V. Pizzuti, **F. Paris**, S. Zia, B. Roda, L. Bonsi and F. Alviano. Abstract accepted at IPLASS Meeting 2022 in Brescia, Italy
- [4] Cytochalasin B modulates biological properties of human Wharton's Jelly Mesenchymal Stem Cells (hWJ-MSCs)  
L Pampanella, PM Abruzzo, G Petrocelli, R Tassinari, L Sulcanese, **F Paris**, V Pizzuti, C Ventura, S Canaider, F Facchin. Poster at SCR meeting Genova 2022, Italy
- [5] Cd4+ T Cells Infiltrate The Brain And Contribute To Disease Pathogenesis In Mice With Alzheimer's-like Disease Through An A4§1 Integrin-dependent Mechanism  
Giulia Iannoto, Eleonora Terrabuio, Elena Zenaro, Somayehsadat Ghasemi, Anna Slanzi, Bruno Dos Santos Lima, Enrica Caterina Pietronigro, Vittorina Della Bianca, Silvia Iaia, Rajasekar Nagarajan, **Francesca Paris**, Beatrice D'ulivo, Gabriela Constantin Constantin. Poster preseted at AINI Congress 2019, Camogli (Italy)
- [6] Cd8+ T Cells Contribute To Memory Impairment And Neuropathological Changes In Transgenic Mice With Alzheimer's-like Disease.  
Eleonora Terrabuio, Giulia Iannoto, Elena Zenaro, Somayehsadat Ghasemi, Anna Slanzi, Bruno Dos Santos Lima, Enrica Caterina Pietronigro, Vittorina Della Bianca, Silvia Iaia, Rajasekar Nagarajan, Beatrice D'ulivo, **Francesca Paris**, Gabriela Constantin. Poster preseted at AINI Congress 2019, Camogli (Italy)
- [7] Projecting and building up a Palaeomicrobiology lab: The Verona experience.  
Alda Bazaj, **Paris Francesca**, Giuseppe Cornaglia (2017). Poster presented at SIM Congress 2017, Genoa (Italy)