



Curriculum Vitae

Personal information **Beatrice Claudia Castiglioni**

Work experience

Feb 2026 - Present

Clinical Trial Coordination Center, IRST, IRCCS Istituto Romagnolo per lo Studio dei Tumori "Dino Amadori" – IRST S.r.l., Via Piero Maroncelli, 40, 47014 Meldola, Italy

Clinical Project Assistant

Coordinates oncology clinical trials, overseeing study operations, timelines, protocol compliance, site communication, and data quality to ensure efficient trial execution in accordance with GCP standards.

2024 – Present

European Medicines Agency (EMA), Domenico Scarlattilaan 6, 1083 HS Amsterdam, Netherlands
European Specialised Expert Community (ESEC), Non-clinical and New Approach Methodologies (NAMs) ESEC member

Collaboration with international experts for the regulatory implementation and validation of new non-clinical methodological approaches, in compliance with the 3Rs principles and aimed at an animal-free approach.

Nov 2024 – Nov 2025

Tissue Regeneration Laboratory - Department of Pharmaceutical Sciences, University of Eastern Piedmont, Via Largo Donegani 2, Novara, Italy

Post-Doc Fellowship

Project: "Is it possible to improve the success rate of cellular therapy based on mesenchymal stromal cells?" (PRIN 2022-2022HB7PNP).

Management and manipulation of micro-fragmented adipose tissue (MFAT) and derived adipose-derived mesenchymal stromal cells (ADSCs), including analysis of their senescence profile and regenerative potential for the treatment of musculoskeletal injuries.

April 2024 – July 2024

Departments of Orthopedics & Sports Medicine, Erasmus MC, Dr. Molewaterplein 40, 3015 GD Rotterdam, Netherlands

PhD in Drug Innovation

Analysis of senescence profile of human MFAT and derived stem cells, evaluating regenerative potential.

Nov 2021 – Nov 2024

Department of Pharmaceutical Innovation and Strategy, Italian Medicines Agency (AIFA), Via del Tritone 181, Rome, Italy

PhD in Drug Innovation

Evaluation of pharmacokinetic/pharmacodynamic data in clinical and non-clinical sections of biologics dossiers under EMA centralized procedures. Study of New Approach Methodologies (NAMs) and Complex In Vitro Models (CIVMs) to support animal-free approaches.

Nov 2021 – Nov 2024

Tissue Regeneration Laboratory - Department of Pharmaceutical Sciences, University of Eastern Piedmont, Via Largo Donegani 2, Novara, Italy

PhD in Drug Innovation

Identification of natural extracts promoting healthy bone metabolism in age-related musculoskeletal pathologies. Isolation, characterization, and differentiation of primary human and murine cells; histological, microCT, and fluorescence microscopy analyses.

Oct 2020 – Oct 2021

Tissue Regeneration Laboratory - Department of Pharmaceutical Sciences, University of Eastern Piedmont, Via Largo Donegani 2, Novara, Italy

Post-Graduate Fellowship

Project: "High added-value bioactive polyphenols recovered from waste of olive oil production – Circular economy for a sustainable future" (Cariplio Grant). Study of olive oil by-product polyphenols on bone metabolism in degenerative/inflammatory musculoskeletal diseases. Optimization, development, and handling of 3D scaffolds and release kinetics.

Education and training

2021 – 2024

Department of Pharmaceutical Sciences, University of Eastern Piedmont, Via Largo Donegani 2, Novara, Italy

PhD in Drug Innovation

Tissue regeneration in degenerative, inflammatory, and age-related musculoskeletal diseases using preclinical research approaches. Analysis of emerging therapeutic strategies and their potential clinical applications.

2020

Department of Pharmaceutical Sciences, University of Eastern Piedmont, Via Largo Donegani 2, Novara, Italy

Pharmacist License

Preparation and dispensing of medicines, pharmaceutical technology and formulation, pharmaceutical legislation, management of pharmacological therapy, and patient care.

2013 – 2019

Department of Pharmaceutical Sciences, University of Eastern Piedmont, Via Largo Donegani 2, Novara, Italy

Master's Degree in Pharmaceutical Chemistry and Technology (LM-13)

Additional information

Publications

Perini M, **Castiglioni B**, Galai E, Trapani D, Genazzani AA, Miglio G. Differences in the on-label cancer indications of medicinal products between Europe and the USA. *Lancet Oncol.* 2025 Feb;26(2):e103-e110. doi: 10.1016/S1470-2045(24)00434-0. PMID: 39914420.

Salvadori L, Paiella M, **Castiglioni B**, Belladonna ML, Manenti T, Ercolani C, Cornioli L, Clemente N, Scircoli A, Sardella R, Tensi L, Astolfi A, Barreca ML, Chiappalupi S, Gentili G, Bosetti M, Sorci G, Filigheddu N, Riuzzi F. Equisetum arvense standardized dried extract hinders age-related osteosarcopenia. *Biomed Pharmacother.* 2024 May;174:116517.

Castiglioni B, Leigh M, Bosetti M. Adipose derived stem cells versus micro-fragmented adipose tissue in cartilage tissue regeneration and repair. *Gazzetta Medica Italiana - Archivio per le Scienze Mediche* 2023 December;182(12):995-1002

Brunelli F, Ceresa C, Aprile S, Coppo L, **Castiglioni B**, Bosetti M, Fracchia L, Tron GC. Isocyanides in med chem: A scaffold hopping approach for the identification of novel 4-isocyanophenylamides as potent antibacterial agents against methicillin-resistant *Staphylococcus aureus*. *Eur J Med Chem.* 2023 Jan 15;246:114950.

Salvadori L, Belladonna ML, **Castiglioni B**, Paiella M, Panfili E, Manenti T, Ercolani C, Cornioli L, Chiappalupi S, Gentili G, Leigh M, Sorci G, Bosetti M, Filigheddu N, Riuzzi F. KYMASIN UP Natural Product Inhibits Osteoclastogenesis and Improves Osteoblast Activity by Modulating Src and p38 MAPK. *Nutrients.* 2022 Jul 25;14(15):3053.

Projects

Memberships

Other Relevant Information