Fernanda Bombaldi, PhD

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Fernanda Carla Bombaldi de Souza is a chemical engineer with a PhD in Chemical Engineering and experience in regenerative medicine, biomaterials, and advanced therapy medicinal products (ATMPs). Her work focuses on bridging the gap between academic research and clinical translation of cell-based therapies.

She currently works in project management and innovation at R-Crio Células-Tronco, a Brazilian biotechnology company dedicated to the processing, banking, and development of mesenchymal stem cell-based products. She is also co-founder of StemMed, a consultancy focused on scientific, technological, and regulatory strategies for the development of advanced therapy medicinal products and other biotechnology innovations. In these roles, she contributes to the development of advanced therapy products, including process development, quality strategies, and regulatory planning for clinical translation.

Her professional experience includes research activities in Brazil and abroad, working with stem cell biology, biomaterials, and biotechnological innovation. She has participated in projects involving mesenchymal stem cells derived from different tissue sources and their potential therapeutic applications, particularly in regenerative medicine and inflammatory diseases.

Fernanda has also been involved in interdisciplinary initiatives combining biotechnology, engineering, and translational research, including projects related to biomaterials, tissue engineering, and emerging biotechnologies such as cellular agriculture and biofabrication.

In addition to research and development activities, she actively contributes to

educational initiatives aimed at disseminating knowledge in biotechnology and regenerative medicine. She has participated in teaching and training activities related to biomaterials, cell culture, and advanced therapy development.

Her work is centered on understanding the scientific, technological, and regulatory challenges associated with bringing advanced therapies from laboratory research to clinical application, with emphasis on quality systems, regulatory frameworks, and translational strategies.