Vittorio Sebastiano, PhD
Associate Professor
Obstetrics and Gynecology

RNA-based Interventions for the Treatment of Aging and Aging-associated Disorders

Dr. Vittorio Sebastiano is an Associate Professor in the Department of Obstetrics and Gynecology at Stanford School of Medicine. His lab has established a new technology named ERA (Epigenetic Reprogramming of Aging), which repurposes the conceptual idea of reprogramming, with the goal to promote epigenetic rejuvenation of adult cells leaving their identity untouched. This new technology was patented and is being implemented by Turn Biotechnologies, of which Dr. Sebastiano is co-founder, Head of Research, and Chair of the Scientific Advisory Board.

In 2009, Dr. Sebastiano completed a postdoctoral fellowship at the laboratory of Dr. Marius Wernig at Stanford University, where he implemented the newly discovered iPSC technology and was among the first to demonstrate that iPSCs can be efficiently derived, genetically modified, and implemented for cell therapy in genetic diseases (Sebastiano et al., 2014, Science Translational Medicine).

Dr. Sebastiano completed his undergraduate and graduate studies at the University of Pavia, Italy, where he studied murine germ cells and preimplantation development and where he pioneered cellular reprogramming by Somatic Cell Nuclear Transfer. He joined the Max Planck Institute for Molecular Biomedicine as a postdoctoral fellow under the mentorship of Dr. Hans Robert Schöler, where he continued his research on cellular reprograming, germ cells biology, and embryonic development.

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