Post-Doctoral Position available as part of the ERA4Health CARDINNOV project:

"Defining the ideal human Amniotic progenitor Secretome forMulation for future cArdioprotective paRacrine Therapy - AmnioSMART"

A 3-year position of Post-Doctoral Researcher is available in the **research team** led by **prof. Sveva Bollini** (Scopus ID: 22933852600; https://orcid.org/0000-0003-1076-0823), at IRCCS Ospedale Policlinico San Martino, in Genova, Italy from **May 2024**.

The selected applicant will have the opportunity to work on the ambitious and interdisciplinary **AmnioSMART project recently funded by the ERA4Health CARDINNOV programme** and aiming at pin pointing the ideal secretome formulation ensuring medium-to-long-term cardioprotective paracrine effects via optimized delivery by smart biomaterials. The AmnioSMART project will unite internationally renowned Researchers from Italy, Portugal, Belgium and The Netherlands in an interdisciplinary yet synergic Consortium based on active and close collaborative relationship. The project will focus on a regenerative medicine and tissue engineering approach, combining stem cell-derived secretome biology with cutting-edge bioprinting, human induced pluripotent cell-technology, 3D modelling and spatial transcriptomics for precise administration of paracrine therapeutics.

The selected applicant will benefit from the dynamic environment of the labs within IRCCS Ospedale Policlinico San Martino area in central Genova, Italy. The research group has access to state-of-the-art equipment including cell culture facilities, time lapse-, transmission electron-, and 2-photon microscopy suites; advanced flow cytometry instruments (BD FACS Symphony S6), next generation sequencing facility (Illumina MiSeq and NextSeq 500 NGS platforms), MALDI imaging and ultimate CyTOF mass cytometry platforms.

Applicants must hold a PhD degree in Regenerative Medicine, Biotechnology, Tissue Engineering or related scientific fields and have previous research experience in the field of cell biology and regenerative medicine. The necessary technical expertise includes hands-on experience in cellular and molecular biology techniques, potency assays and analysis of in vitro and ex-vivo preclinical disease models. Previous experience in: paracrine biology and cardiac regenerative medicine, in vitro 3D culture human stem cells, extracellular vesicle separation and concentration and cardiovascular disease models would be particularly appreciated. Fluent spoken and written English are required.
The Selected Candidate will design, conduct, analyze and interpret experiments. Self-motivation, critical thinking, problem solving skills and team-work attitude are highly important. The Selected Candidate should also possess good organizational and time management skills to ensure optimal collaboration with the project partners. Any previous experience in supervising undergraduate and PhD Students will be also valued.

The project is funded by the ERA4Health Partnership. The position is for 36 months starting in May 2024. The application and review processes are expected to be carried out in early spring 2024 with the interview of the selected Candidates at beginning of April 2024.

Interested applicants should send a curriculum vitae, together with a brief statement of research interest, a publication list and the contact address of two referees to **sveva.bollini@hsanmartino.it**