Wyss Zurich – ETH Zurich / University of Zurich

Seminar

Translational and Clinical Wyss Zurich Projects

Tuesday, August 27, 2019 at 12:30 – 13:30
Kleiner Hörsaal OST,
University Hospital Zurich

Dr. Deana Mohr and Dr. Jenny Ann Prange

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Working Together to Combat Urinary Incontinence – Status quo within the Wyss Zurich MUS.I.C. Associate project

Stress Urinary Incontinence (SUI), which is defined as the unintentional loss of urine, affects over 200 million people worldwide. With a prevalence of 20-50% in women, it creates an immense socioeconomic burden. The currently available treatments entail various complications and provide only short-term relief. Tissue engineering using autologous cells, which offers a feasible alternative for functional restoration of the damaged urinary sphincter muscle, represents an ideal treatment option that could reverse the underlying pathologic conditions.

MUS.I.C. is seeking to translate basic knowledge of Regenerative Medicine and stem cell therapy into clinical practice by undertaking a first-in-man study using autologous muscle precursor cells (MPCs), combined with neuromuscular electromagnetic stimulation (NMES), in 40 female patients. The project's aim is to perform the tasks required to show the safety and efficacy of the proposed novel multilevel treatment and to demonstrate the reproducibility of the therapeutic effect. Additional objectives are the optimization of the advanced-therapy medicinal product (ATMP), in order to achieve totally xeno-free and facilitated manufacturing, as well as the introduction of a novel injection technique for more efficient and precise implantation of the final product.

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Organizer: Prof. Dr. Simon P. Hoerstrup, PhD
Execution/Chair: Dr. Sina Reckel
www.wysszurich.uzh.ch, info@wysszurich.ch, +41 44 633 89 79

UniversityHospital Zurich
ETH zürich
University of Zurich