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ICGEB International SEMINAR PROGRAMME 2017

Friday, 20 January 2017 | 12:00 noon | ICGEB Seminar Room, W building | Padriciano, 99, Trieste, ITALY



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In 2006 Yamanaka and colleagues first described that the introduction of specific stem cells factors is able to reprogram somatic cells into a pluripotent state giving rise to induced pluripotent stem cells (iPSCs). This discovery has revolutionized the ways in which we study monogenic, complex and epigenetic disorders, as well as early- and late-onset diseases. Indeed, iPSCs allow achieving a reliable, patient-specific, *in vitro* model to study pathogenic mechanisms and to screen drugs. Moreover, iPSCs represent a potential source for cell-mediated therapies to be tested in preclinical models.

The presentation will overview iPSC application in Amyotrophic Lateral Sclerosis (ALS) field focusing in particular on results obtained in the Neural Stem Cells Lab (University of Milan) *in vitro*, in motor neurons derived from ALS iPSCs, and *in vivo* using iPSCs transplantation in a ALS mouse model.

“Induced pluripotent stem cells for ALS: *in vitro* disease model and source of transplantation”

Host: F. Feiguin

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Open event - Free entrance

