



ICGEB

International Centre for Genetic
Engineering and Biotechnology

Developing
Knowledge

ICGEB International SEMINAR PROGRAMME 2018

Monday, 21 May 2018 | 12:00 noon | ICGEB Seminar Room, W building | Padriciano, 99, Trieste, ITALY



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The ACTR integrates facilities of the Ludwig Boltzmann Institute for Trauma (LBI Trauma) and 23 further research groups of universities in Austria. The cluster offers state-of-the-art facilities for tissue engineering including (stem/endothelial) cell research. With its fully translational approach, an interdisciplinary team including MD/VetMD, location partly in hospitals and a GMP facility it provides an optimal research environment. ACTR covers - Neuroregeneration, Soft Tissue Repair, Cartilage/Tendon and Bone/Ligament Regeneration as well as competence centers for molecular biology, miRNA analysis, polymer synthesis, bioprinting, preclinical in vivo facilities incl. imaging, morphology. Based upon a new technology to make silk biocompatible, we started to translate this approach via large animal experimentation into the clinic. For cartilage replacement we established two novel ways to use decellularized cartilage matrix for cell therapy. In the bone field we study cell based therapies using hypertrophic bone marrow or adipose derived MSC and iPS derived MSC. On the other hand we try to further improve bone morphogenetic protein related non-viral gene therapies. For the neuro area we put a lot of emphasis on mechanobiology based therapeutic approaches (shockwave) both for peripheral as well as spinal cord injuries. In addition we try to use amnion as gliding tissue to minimize fibrosis.

***“Austrian Cluster for Tissue Regeneration - News from
ligament, cartilage, bone and neuro area”***

Host: M. Giacca

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More information at:

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Open event - Free entrance

