Symposium 14: Multidisciplinary, intersectoral and convergence research in Europe

Organizer

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Theme

Injuries and degenerative conditions continuously increase and financially strain healthcare systems worldwide. As the life expectancy increases, it is imperative to develop therapies that will repair and regenerate damaged organs and tissues. The new frontier in biomaterials' design is the development of biomimetic, bioinspired, biofunctional and bioresponsive implantable devices that not only will imitate the intricate extracellular matrix composition and architecture, but will also positively interact with the host and, through their cargo, promote functional repair and regeneration. Such grand challenge can only be tackled in union. Thus, engineers, chemists, biologists, clinicians, entrepreneurs, to mention only a few, have joint forces towards the creation of the bionic human. Some visionary initiatives from traditional distinct disciplines / sectors, through the support, albeit limited, of industry investment and state / cross-border funding have come to fruition with the clinical translation / commercialisation some elegant tools / discoveries / systems / technologies. This symposium will provide examples of success stories and discuss funding, manufacturing and regulatory challenges in translating multidisciplinary, intersectoral and convergence biomedical research in European setting.

Invited Speakers

Multi disciplinary translational research to solve clinical problems to help the patient: The AO success since 1959
Geoff Richards, AO Foundation, Davos, Switzerland
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Multidisciplinary, intersectoral research in regenerative medicine: Perspectives from Cambridge Centre for Medical Material
Ruth Cameron, University of Cambridge, Cambridge, UK
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CÚRAM – Creating a centre for excellence. An experiment in the Irish ecosystem
Abhay Pandit, SFI CÚRAM, NUI Galway, Galway, Ireland
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The conditions for a successful transfer of research laboratory works on matrices for tissue engineering into clinical applications
Didier Letourneur, INSERM, Paris, France
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Transfer of basic research towards clinical applications: Development of a next-generation of bone-substituting biomaterials
Sander Leeuwenburgh, Radboud University Medical Center, Nijmegen, The Netherlands
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