

# 中枢神経系における細胞・薬剤導入の ための注入可能な生体高分子

## Injectable biopolymers for cell and drug delivery in the central nervous system

**講演者 (Speaker) : Prof. Filippo Rossi**

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**日時 (Date & Time) : Friday, Aug. 3, 2018 16:30-18:20 (Open 16:00)**

**会場 (Venue) : 厚生棟 大会議室 (16-A F3)**

**主催 (Host) : 慶應義塾大学グローバルリサーチインスティテュート (KGRI)  
基軸PJ創造クラスター**

**講演概要 (Summary of Lecture) :**

It is widely accepted that regenerative medicine success depends on its being a strongly interdisciplinary field. In this framework, we studied formulated hydrogels and nanoparticles specifically developed for cell and drug delivery in spinal cord injury (SCI) repair strategies. The intrinsically multi-factorial pathological trend of spinal cord injury is probably the most important reason behind the absence of efficient therapeutic strategies. So, systems able to perform multiple controlled and selective delivery of different therapeutic biological agents (cells and drugs) have gained particularly strong interest. In order to avoid trial and error approaches, experimental studies were performed following the classic chemical engineering multiscale approach: tuning microchemistry to manipulate macro properties in order to satisfy specific medical needs as injectability, low stress on target tissues, ability to retain biological fluids, capability of carrying living cells, and possibility to control the multiple delivery of drugs.

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Free admission, Open to anyone,  
Pre-registration not required