Clinical Colloquium
Regenerative Medicine

Thursday, 31st May 2018 at 1–2pm,
Institute for Regenerative Medicine (IREM),
University of Zurich, Wagistrasse 12,
WAD-L-121/3, 8952 Schlieren

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Nanorobots in Medicine

The Responsive Biomedical Systems Lab develops diagnostic and therapeutic systems at the nano- and microscale with the aim of tackling a range of challenging problems in healthcare. These nanorobots are designed to react to signals of the local disease environment, such as characteristic enzymatic activity. Further, they can be engineered to respond to externally applied stimuli including heat, acoustic, or electromagnetic signals, prompting a diagnostic or therapeutic output. In this talk, examples are presented that illustrate how wirelessly controlled micro- and nanorobots can be employed specifically in cancer diagnostics and therapy.