

Interdisciplinary Colloquium Regenerative Medicine I

**Tuesday, 28nd Feb 2017 at 12:30 – 1:30 pm,
Kleiner Hörsaal OST,
University Hospital Zurich**

Prof. Burkhard Becher

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Chronic inflammatory disease: Autoimmunity or miscommunication

Many chronic inflammatory diseases are thought to be driven by autoimmune T cells. This is mostly due to the fact that many of these diseases have the MHC locus as a risk allele and that animals can be immunized with a T cell epitope for an auto-antigen to develop disease. However, deregulated cytokines are also a hallmark of chronic inflammation and in some diseases (e.g. psoriasis) it is becoming increasingly clear that cytokine deregulation is the cause of tissue inflammation. I propose that deregulated cytokine expression is the culprit behind many of the chronic inflammatory diseases and that T cells are only the instigators rather than executors of immunopathology. T cells can activate myeloid cells, which represent the primary infiltrate in chronic inflammatory diseases. I will discuss how T cells instruct myeloid cells to do their bidding.

Organiser: Prof. Dr. Dr. Simon P. Hoerstrup

Execution/Chair: Dr. Steffen M. Zeisberger
IREM & Wyss Zurich, Univ. of Zurich and ETH Zurich