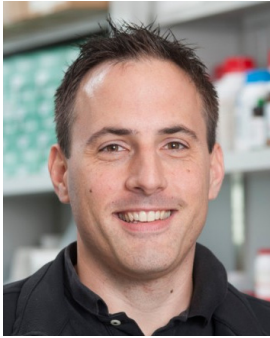




Seminar series „Cell biology, development & regeneration”



Prof. Philipp Niethammer

Sloan Kettering Institute, New York

“The Early Wound Signals. Illuminating the wound microenvironment in live zebrafish.”

Thursday, 4.5.2017

11:00

N27, multimedia-room

Host: Prof. Gilbert Weidinger, Institute of Biochemistry and Molecular Biology

Philipp Niethammer's lab studies how leukocytes are guided to sites of damage in tissues. He has been using an ingenious mix of developmental and cell biological approaches to identify mechanisms of early wound response signaling. He showed that an H_2O_2 tissue-scale gradient mediates wound detection (*Nature*, 2009) and that cell swelling caused by osmolarity differences between interstitial fluid and the external environment represents a trigger for chemoattractant production that attracts leukocytes to the wound (*Nature Cell Biology*, 2013).

The seminar series „Cell biology, development and regeneration” is jointly organized by:

Institute of Biochemistry and Molecular Biology
Institute of Comparative Molecular Endocrinology
Institute of General Physiology
Molecular Cardiology lab