



Joint guest lecture of the
Philipps-Universität Marburg and
Max-Planck-Institute for Heart & Lung Research

22nd of May 2018

Guests are welcome

SERGEI SOKOL

Developmental and Regenerative Biology,
Mount Sinai School of Medicine,
New York, USA

“Wnt signaling in the control of embryonic cell polarity and fate“

Embryonic signaling pathways underlie key events in early development and often become misregulated in disease. The Wnt pathways occupy a special place, being involved in cell division, polarization, migration and differentiation. Besides the Wnt/beta-catenin pathway that controls cell lineage specification, non-canonical Wnt signaling regulates cell polarity and behavior in embryonic tissues. Using the *Xenopus* embryo as a model, we study how the pathway branches in different cellular compartments to regulate neural tube closure and ectoderm differentiation. Specific signaling mechanisms that generate cell and tissue polarity in the neural plate and the epidermis and trigger epithelial-mesenchymal transition during neural crest development will be discussed.

4:00 pm
Fachbereich 17
Großer Hörsaal



Max-Planck-Institut
für Herz- und Lungenforschung
W.G. Kerckhoff-Institut

