



Universität
Basel

Research Project

PolarNet

Third-party funded project

Project title PolarNet

Principal Investigator(s) [Spang, Anne](#) ;

Organisation / Research unit

Departement Biozentrum / Biochemistry (Spang)

Department

Project Website <http://polarnet-itn.eu/contact/>

Project start 01.10.2015

Probable end 30.09.2019

Status Completed

The ability of cells to polarize underlies the most basic biological functions such as motility and response to external challenges, but also the formation and maintenance of tissues in a multicellular organism. The importance of cell polarity is underscored by the fact that cell polarity is essential for animal development and is perturbed in disease states such as cancer. Understanding cell polarity requires knowledge of the molecular players involved and a quantitative description of their biochemical interactions, as well as the mechanical processes underlying polarity establishment. PolarNet brings together academic and private partners from 7 European countries to establish a multidisciplinary, intersectoral training and research programme that will study the basic principles of cell polarity. The research will combine complementary model systems ranging from fungi and cultured mammalian cells to whole organisms, and employ a broad set of approaches such as advanced genetics, protein biochemistry, high-resolution live imaging and image analysis, biophysics and theoretical modelling. This setting provides an opportunity to train early stage researchers in a unique combination of experimental and theoretical approaches. This will provide an excellent starting point for a successful career in the rapidly expanding field of multidisciplinary or 'integrative' biology. Training Europe's next generation of scientists at the forefront of cell and organismal polarity research is crucial for progress in several medically important fields, including cancer research and stem cell biology. The tight collaboration with non-academic partners will strengthen the technological base of different projects and provide early stage researchers with insights into the translation potential of the performed studies and the career development opportunities in biomedical industry.

Keywords Cell Polarity

Financed by

Commission of the European Union

Add publication

Add documents

Specify cooperation partners

ID	Kreditinhaber	Kooperationspartner	Institution	Laufzeit - von	Laufzeit - bis
3693571	Spang, Anne	Van den Heuvel, Sonder, Prof.	Developmental Biology, Department of Biology, Faculty of Science, Utrecht University	01.10.2015	30.09.2019
3693580	Spang, Anne	Boxem, Mike, Prof.	Developmental Biology, Department of Biology, Faculty of Science, Utrecht University	01.10.2015	30.09.2019
3693581	Spang, Anne	Arkowitz, Robert, Prof.	CNRS, University of Nice	01.10.2015	30.09.2019