

# RESEARCH & CONTACT

Research within T3Net is conducted in several work packages, which all focus on different cellular and molecular aspects of invasive cell migration.

1. Cancer invasion and dissemination
2. Immunity, inflammation and vascular remodelling
3. Interactions with the ECM
4. Unravelling the basic molecular machinery- the search for new components
5. The third dimension

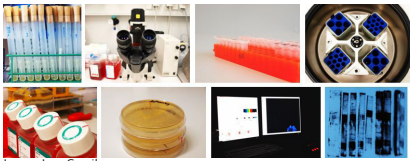


Image: Jens Cornils

## Contact us

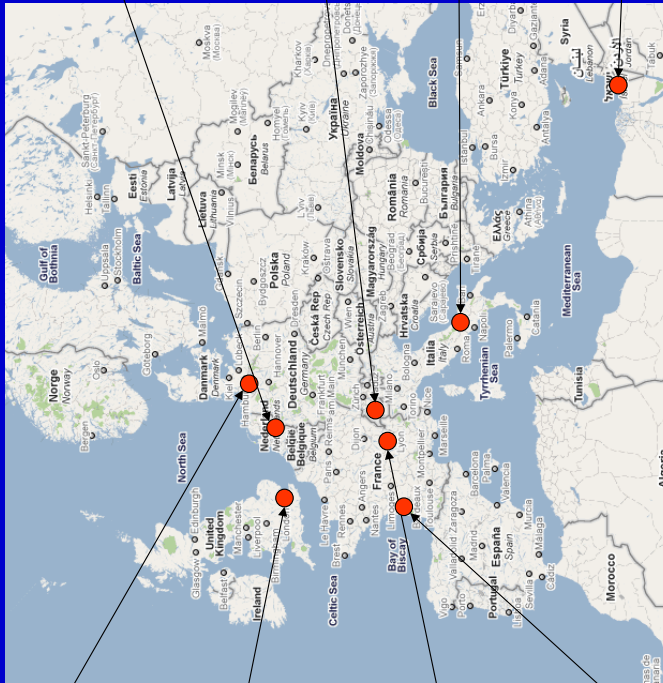
T3Net is very grateful for the public interest. We welcome you to ask further questions and get more information by contacting our project management:

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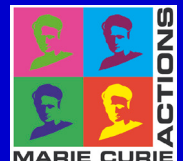
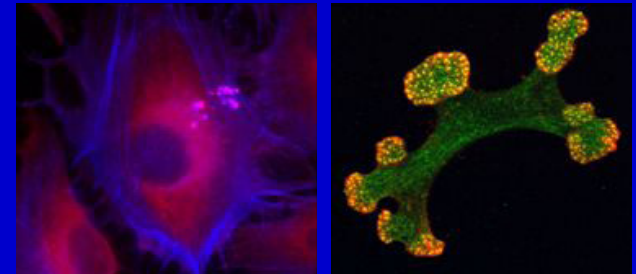
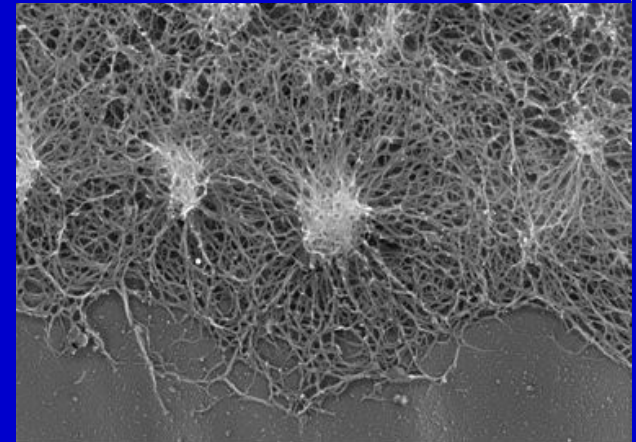
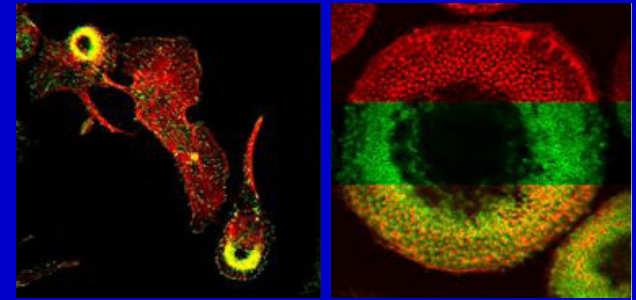


# THE T3NET PARTNER INSTITUTIONS



Universitätsklinikum Hamburg Eppendorf (UKE)  
 King's College London (KCL)  
 Ecole Normale Supérieure de Lyon (ENS)  
 Institut Européen de Chimie et Biologie (INSERM)  
 Radboud Universiteit Nijmegen Medical Centre (RUMC)

Excellness Biotech SA (CELL)  
 Consorzio Mario Negri Sud (CMNS)  
 The Weizmann Institute of Science (Weizmann)  
 Associated Partners:  
 Open University UK  
 Astra Zeneca  
 Idea Biosciences



# OVERVIEW

Cardiovascular and cancer-related diseases are the leading causes of human mortality and disability. The underlying mechanisms originate from chronic interstitial cell activation leading to pathological tissue remodelling and malfunction of cells. These depend on three fundamental processes: *Cell adhesion, migration, and modulation/degradation of the extracellular matrix (ECM)*, which together determine tissue invasion and remodelling.

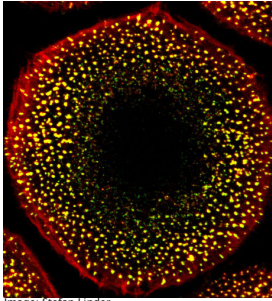


Image: Stefan Linder

The Tissue Transmigration Training Network (**T3Net**) is a European-based network of 8 partner labs and 3 associated partners, which is funded by the European Union's Seventh Framework Programme (FP7/2007-2013) under grant agreement n° FP7-237946. **T3Net** is aimed at promoting excellence in training in these areas, with an emphasis on cutting-edge technologies and complementary skills training. **T3Net** has a multidisciplinary training approach and is thus crucial in bundling current and future European expertise and to consolidate

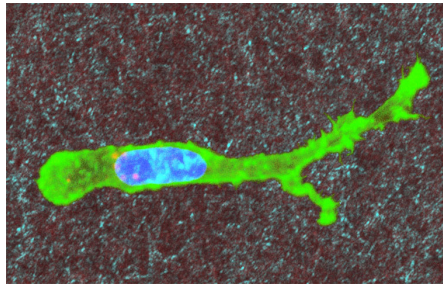


Image: Peter Friedl

the momentary European leadership in these emerging key areas of biomedical research. **T3Net** aims to establish a long-term European network based on a new cohort of young professionals with the potential to exploit their knowledge in academic, clinical or industrial settings.

# TRAINING

The objective of **T3Net** is to foster a group of young scientists with specialized training in integrating dynamic cell imaging techniques and high content screening approaches with the biology and pathophysiology underlying cardiovascular diseases and cancer.



Image: Boris Hinz

The academic and industrial partners provide training in new areas of research including the cell structures mediating invasion such as podosomes and invadopodia, as well as the application of materials sciences, nanotechnology and state-of-the-art in vivo imaging. These techniques are applied to study ECM-cell interactions, in models encompassing vascular remodelling, immunity, inflammation and bone physiology, as well as the pathophysiology of cancer invasion.

**T3Net** trainees are thus at the forefront of current research, with innovative, complementary expertise in ECM remodelling and tissue transmigration in physiology and pathology.

They also benefit from valuable complementary skills training including communication, entrepreneurship and intellectual property rights.

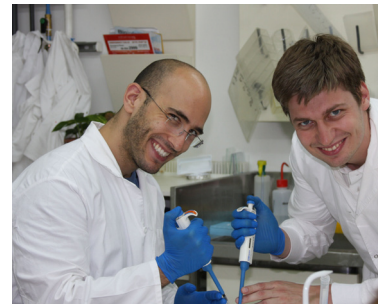


Image: Boris Hinz

# TRAINING

An additional innovative feature is to provide high quality complementary skills training to all fellows through an academic associated partner: Open University, UK (<http://www.open.ac.uk/>).



Image: Boris Hinz

Training is articulated in multiple layers of intervention:

- ⇒ **Local**  
(training through individual research projects and secondments)
- ⇒ **Institutional**  
(seminar programmes, specific and general courses, etc.)
- ⇒ **Network-wide activities**  
(annual network symposia, organization of workshops/training courses and visits to partner laboratories and SMEs for scientific collaborations and courses).

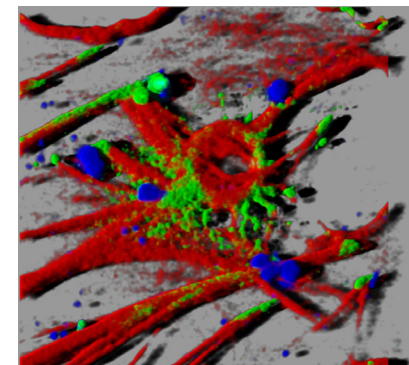


Image: Boris Hinz