



**COST Action - BM1204**

**An integrated European platform for pancreas cancer research: from basic science to clinical and public health interventions for a rare disease.**



## **WG2 Training School on Interactions in Complex Disease Analysis.**

**The world of interactions around us**

**co-organized by Antwerp University (Joost Weyler and Kristel Slegers) and co-sponsored by the Belgian Society of Statistics**

**Antwerp, Belgium - 27th-29th April 2016**

*One of the aims of this training is to introduce to course participants the different faces of interactions, depending on the study field. Both the theory and application of methods to identify medically relevant interactions will be covered. Topics that will be addressed by confirmed speakers include statistical versus biological interactions, gene-environment interactions, causality, dynamical interaction systems, symbiotic and pathogenic interactions, protein networks and components-based path modeling. We target an audience with very diverse backgrounds to foster stimulating discussions. Participants will also have the opportunity to discuss or present particular case studies.*

**Organizing committee:** Joost Weyler, Kristel Slegers, Kristel Van Steen, Núria Malats



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## SCIENTIFIC PROGRAM

Antwerp, Belgium - 27th-29th April 2016

Topic description	Invited speaker	Day / Time
<b>27<sup>th</sup> April : Different faces of interactions – a primer</b>		
Introduction to interactions and their causality	Stijn Vansteelandt	8.30-10.30am
GxG and GxE statistical interactions	Van Steen lab	11-1pm
Dynamical interaction systems	Ronald Westra	2-4pm
Machine learning to uncover biological interactions	Karsten Borgwardt lab	4.30-6.30pm
<b>28<sup>th</sup> April: Complex interactions</b>		
The interactome	Heather Cordell	8.30- 10.30am
Protein-protein interactions	Christina Kiel	11-1pm
Symbiotic and pathogenic interactions	Patrick Van Dijck	2-4pm
[tentative] Case-studies from participants		4.30-6pm
Social event		>6pm
<b>29<sup>th</sup> April: Analytic tools – an example</b>		
Components-based path modeling	Giorgio Russolillo	9-5pm