



Wednesday 19 April

- 10:30 Registration and Refreshments
- 11:00 **Lucy Walker**, University College London
CTLA-4 mediated regulation of T cell responses
- 11:45 **Luis de la Higuera Romero**, University of Leeds
Transendocytosis, a story of two receptors and two ligands – a mathematical approach
- 12:15 **John Paul Gosling**, University of Leeds
Uses and abuses of Bayesian statistics
- 12:45 Lunch
- 14:30 **Rob de Boer**, Universiteit Utrecht
Simple models for complex T cell repertoires
- 15:00 **Mariona Baliu Piqué**, UMC Utrecht
In vivo labelling studies: From infection to T cell reconstitution
- 15:30 Break
- 16:00 **Christoph Niederalt**, Bayer AG
Physiologically based pharmacokinetic modelling of biologics
- 16:30 **Julia Newton-Bishop**, Leeds Institute of Cancer and Pathology
Understanding melanoma/host interactions using transcriptomics

Thursday 20 April

- 09:30 **Pedro Gonçalves**, Institut Pasteur
CD8+ T cells showed an extensive TCR repertoire diversity and cross-reactivity with an exquisite specificity on immune response
- 10:00 **José Faro**, University of Vigo
A unifying mathematical framework for experimental TCR-pMHC kinetic rates
- 10:30 Break
- 11:00 **Melania Barile**, DKFZ Heidelberg
Modelling proliferation in the haematopoietic stem cells

- 11:30 **Hyun Park**, NIH, USA
IL-7 receptor signaling in T cell development and homeostasis
- 12:15 Lunch
- 14:15 **Rhodri Ceredig**, NUI Galway
IL-7/Flt3L- the Yin/Yang of two cytokines affecting hematopoiesis/lymphopoiesis
- 15:00 **Leila Perié**, Institut Curie
Deciphering the hematopoietic pathway at the single cell level: results from cellular barcoding
- 15:30 Break
- 16:00 **Thomas Höfer**, DKFZ Heidelberg
Barcoding and modeling hematopoeisis
- 16:30 **Graham Cook**, University of Leeds
Switching human natural killer (NK) cells on and off
- 18:00 [**QuanTI supervisory board meeting**]

Friday 21 April

- 09:30 **Carmen Molina-París**, University of Leeds
Quorum sensing in CD4 T cell populations: statistical analysis and a mathematical model
- 10:00 **Giulio Prevedello**, NUI Maynooth
Independent and linear integration of co-stimulatory signals for cytotoxic T cells
- 10:30 **Harry Tideswell**, NUI Maynooth
Nonparametric multivariate survival analysis of activated lymphocyte cell fates
- 11:00 Break
- 11:30 **Julio Lahoz Beneytez**, Farmacia Lahoz, Alicante
Revealing the dynamics of immune cells in humans: mechanistic modelling of deuterium labelling data
- 12:00 **Tomer Granot**, Columbia University
Dendritic cell maturation in human tissues: a quantitative analysis
- 12:45 **James Yates**, AstraZeneca
Embracing variability: Modelling the treatment response of immune competent animal models of cancer
- 13:15 Lunch / End of conference