Genome Engineering
Provinciehuis Vlaams-Brabant, 19 November 2019

Scientific committee
Thomas Jacobs (VIB-UGent Center for Plant Systems Biology)
Sven Eyckerman (VIB-UGent Center for Medical Biotechnology)
Marlies Vanden Bempt (VIB-KU Leuven Center for Cancer Biology)

09h00-0925 Registration, welcome coffee and poster hanging
09h25-0930 Welcome

SESSION 1: INTRODUCTION

09h30-10h10 Trainer 1 Luca Crepaldi, Wellcome Sanger Institute, Hinxton, UK
Analysis and prediction of CRISPR-Cas9 mutational outcomes at scale

10h10-10h50 Trainer 2 Toon Swings, VIB-KU Leuven Center for Microbiology, BE
Off-the-shelf genome engineering in E. coli

10h50-11h20 Coffee

SESSION 2: DEAMINASES AND KNOCK-IN

11h20-12h00 Trainer 3 Tony Gutschner, Faculty of Medicine, Martin Luther University Halle-Wittenberg MLU, DE
Enhancing homology-dependent repair in human cells using Cas9 fusion proteins

12h00-12h40 Trainer 4 Florian Veillet, Institut de Généétique Environnement et Protection des Plantes (IGEPP), INRA, Université Rennes, FR
Base editing in plants: successes, limits and new tools

12h40-13h40 Lunch
SESSION 3: POSTER SESSION

13h40-15h00  Poster session

14h30-15h00  Coffee

15h00-15h30  Thomas Naert, Department of Biomedical Molecular Biology, Ghent University, Cancer Research Institute Ghent, BE – selected for the abstracts

*CRISPR/Cas9 in vivo dependency mapping reveals EZH2 as druggable target in desmoid tumors*

SESSION 4: CRISPRi

15h30-16h10  Trainer 5 Javier Gallego-Bartolome, Department of Molecular, Cell, and Developmental Biology, UCLA, US

*Targeted manipulation of DNA methylation in plants*

KEYNOTE

16h10-17h00  Trainer 6 Dirk Daelemans, Department of Microbiology, Immunology and Transplantation, Rega Institute for Medical Research, KU Leuven, BE

*CRISPR-based genetic screening tools for cancer drug discovery*

17h00-17h10  Award for best poster

17h10 – 18h30  Drink with the speakers (optional – place to be confirmed)