



16th March to April 1th, 2021

CRISPR genome editing

CRISPR genome editing is revolutionizing biomedical research, providing a toolbox for precise modification of genomic sequences and their regulation in any type of cell and organism. The application of CRISPR in biomedical research is broad and ranges from fundamental research to the clinic. During this course participants will learn about the basic concepts of CRISPR-mediated genome editing, its experimental design and a diverse range of CRISPR applications. Experts in the CRISPR field will present their work on different topics including large-scale screening, generation of *in vitro* and *in vivo* disease models, CRISPR diagnostics and therapeutic applications.

The course will consist of lectures, discussions and group assignments. The speakers include national and international experts including John Doench (Broad Institute, USA), Michael Bassik (Stanford University, USA), Jason Moffat (University of Toronto, Canada), Joey Riepsaame (University of Oxford, UK).

After finishing this course the participants will have acquired broad knowledge on the basics of CRISPR genome editing, the design of CRISPR experiments and diverse applications of CRISPR genome editing. Participants will be able to apply this knowledge to advance their own research projects.

The course is organized and coordinated by The Netherlands Cancer Institute, Amsterdam UMC Cancer Center Amsterdam and the ScreeninC national infrastructure for genome editing and large scale functional genomic screening, in collaboration with the OOA. The course is limited to 28 participants. When the course is oversubscribed, selection will be based on interest and motivation.

Date:	March 16 to April 1, 2021
Location:	NKI-AvL and online
ECTS:	2.5 EC (1 EC = 28 hour)
Requirements:	Laptop/ computer/ chromebook with camera, audio and internet connection
Target audience:	OOA PhD students Amsterdam UMC and NKI-AvL
Price:	Free of charge
Organization:	Roderick Beijersbergen (NKI), Rob Wolthuis, Rodrigo Leite de Olivera (AUMC)
Information:	Patty Lagerweij (p.lagerweij@nki.nl)
Registration deadline:	February 15, 2021

[Click here](#) to register for this course