



CRISPR IN DRUG DISCOVERY 2022

FROM TARGETS TO
THERAPEUTICS

1ST & 2ND MARCH
BABRAHAM RESEARCH CAMPUS,
CAMBRIDGE

#ELRIG

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TRACK SUMMARY

TARGET VALIDATION/ THERAPEUTICS

2nd March 2022
The Auditorium

SESSION CHAIRS

Klio Maratou
GlaxoSmithKline
Marcello Maresca
AstraZeneca

This morning's session will focus on the use of CRISPR in target validation in complex disease relevant cellular systems, including human stem cell-derived systems and primary organoids. We are pleased to welcome Emma Rawlins, Sahba Seddighi, Marius Wernig and a keynote from Richard Wade-Martins who will illustrate the power of these approaches in identifying and validating drug targets. We will conclude with a session looking ahead to

as tools for therapeutic genome engineering of somatic cells, especially in the treatment of genetic diseases. We look forward to exciting talks from Gerard Schwank, Kiran Musunuru, Omar Abudayyeh and a keynote from Laura :LWW3VYLUaPUVHSSVMØVTHYLHDLJØUNLKNLVMØPZ exciting application of CRISPR technologies into the clinic.

08.30-09.15	Registration
09.15-09.25	Event Welcome - Andrew Bassett, The Sanger Institute, Marcello Maresca, AstraZeneca & Klio Maratou, GlaxoSmithKline
09.25-10.10	Keynote Presentation - iPSC models of Parkinson's: from disease mechanisms to target discovery - Richard Wade-Martins, Oxford Parkinson's Disease Centre, University of Oxford
10.10-10.40	Applying CRISPR to human tissue-derived organoids - Emma Rawlins, Gurdon Institute, University of Cambridge
10.40-11.10	Platinum Sponsor - Kevin Holden, Synthego
11.10-11.40	Refreshment Break
11.40-12.10	7YVVLVNLUVTPJØKLUPÅHPVUVM4PZZWSPJPUNØPVTHYRLYZPUØ;-+ Sahba Seddighi, National Institutes of Health
12.10-12.25	Industry Insider - Sima Hirani, Miltenyi
12.25-12.55	Gene editing and neuronal reprogramming to investigate synaptic biology - Marius Wernig, Stanford University School of Medicine
12.55-13.00	YVUaL:WVUZVYZOPW3LHUULØJRLUZ7YVTLNH
13.00-14.00	Refreshment Break
14.00-14.05	Welcome and Keynote Introduction - Marcello Maresca, AstraZeneca
14.05-14.50	Keynote Presentation - Transforming Medicine: In Vivo and Ex Vivo Therapeutic Gene Editing - 3HYH:LWW3VYLUaPUVØUØLSSPHØOLYHWLØPJZ
14.50-15.00	Poster Presenter
15.00-15.30	Translational genome editing for treating genetic liver diseases - Gerard Schwank, ETH Zurich SU1
15.30-16.00	CRISPR base editing to treat cardiovascular and metabolic diseases - Kiran Musunuru, Perelman School of Medicine
16.00-16.40	New molecular technologies for genome editing and cell control - Omar Abudayyeh, McGovern Institute for Brain Research, MIT & Jonathan Gootenberg, McGovern Institute for Brain Research, MIT
16.40-16.50	Conference Close & Awards - Andrew Bassett, The Sanger Institute, Marcello Maresca, AstraZeneca & Klio Maratou, GlaxoSmithKline

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ELRIG EVENTS 2022

KEY EVENTS

ELRIG organises up to 7 scientific conferences and 8 networking meetings per year, that will have anywhere between 40 to 1500 attendees. Meetings may be an afternoon only to 2 days in length and have a very narrow focus or contain a broad range of topics, applicable to many research areas within the drug discovery community. All events are free-to-attend, simply register at elrig.org. Future events for 2022 are:



EVENTS 2022

RESEARCH & INNOVATION 2022

The Kings Centre, Oxford
March 29th - 30th 2022

ADVANCES IN CELL BASED SCREENING 2022

Astra Zeneca, Gothenburg
May 10th - 12th 2022

TRANSLATING IDEAS INTO THERAPIES

The Crick, London
July 4th - 5th 2022

DRUG DISCOVERY 2022

ExCeL, London
October 4th - 5th 2022

PROTEIN SCIENCES IN DRUG DISCOVERY 2022

Astra Zeneca, Cambridge
November 2nd - 3rd 2022

ROBOTICS & AUTOMATION 2022

Festo, Esslingen, Stuttgart
November 30th - December 1st 2022

HOT TOPIC EVENTS

MARCH

Hot Topics in RNA Editing
Cambridge

MARCH

Hot Topics in Ion Channels
Kent Discovery Park

APRIL

Hot Topics in Cell Culture
Biocity Scotland

MAY

Hot Topics in Diversity in Scientific Research
Virtual

JUNE

Hot Topics in Protein Degradation
Novartis, Basel, Switzerland

SEPTEMBER

Hot Topics in Drug Repurposing
Crick, London

OCTOBER

Hot Topics in Reagent Quality
Oxford

NOVEMBER

Hot Topics in Omics
Alderley Park



ELRIG plans to run its future events face-to-face, so we will continue to observe government guidelines for the current global COVID-19 pandemic. In the event that we are unable to host those events in person or social distancing is required, they will take place virtually or as a hybrid.

