



Finding Targets for Drug Discovery

A joint symposium hosted by Open Targets and Illuminating the Druggable Genome consortium highlighting their work to expand knowledge and experimental data to enable new targets in drug discovery.

Date: Friday, November 15th, 2019

Venue: Kendrew Lecture Theatre , EMBL-EBI, South Building, Wellcome Genome Campus, Wellcome Genome Campus, Hinxton, Cambridge, CB10 1RQ, United Kingdom

Application opens: Monday, July 22, 2019

Application deadline: Friday, October 11th, 2019

Contact: RDOC (idg.rdoc@gmail.com)

Registration fee: Free, Register [here](#)

Overview:

Open Targets and NIH sponsored IDG are partnering to host this open, all-day symposium to share their perspectives on “Finding Targets for Drug Discovery”. Open Targets is an UK-based pioneering public private partnership among research institutes and pharmaceutical/biotech companies. The Open Targets partners have a shared vision to transform drug discovery through systematic target identification and prioritization working across the genome using cutting edge informatic and experimental methods. In a similar vein, though more target centric, Illuminating the Druggable Genome (IDG) is a NIH founded consortium that aims to highlight new, previously understudied targets within the human genome with the goal of furthering scientific discovery for improving human health. The IDG consortium is made up of experimental groups working in three major protein families: GPCRs, Ion Channels, and Kinases, along with informatics groups managing knowledge and developing tools for improving data analysis and target prioritization.

Audience:

This symposium is aimed toward participants interested in target selection in drug discovery as well as potential collaborators from academia, industry and not-for-profit institutes.

Additional Information:

Scientific Posters

Participants are encouraged to bring a scientific poster to showcase their drug discovery work for display during the symposium. The poster must be no larger than A0 (841mm x 1189mm) with a portrait orientation. During registration for the meeting, please include poster information.

Individual meetings

One day prior to the symposium (Thursday Nov. 14th), there are options for meeting with IDG speakers or attending demo sessions for utilizing Pharos (<https://pharos.nih.gov/>).

If interested, please contact idg.rdoc@gmail.com .

Agenda:

Time	Topic	Presenter
9:30 - 10:00 AM	Introduction and Welcome	
10:00 – 11:00 AM	Oncology and Illuminated Kinases	<p>Fiona Behan from Mathew Garnett research group <i>Prioritization of cancer therapeutic targets using CRISPR–Cas9 screens (30 min).</i></p> <p>Shawn Gomez from DRGC-Kinase <i>Illuminating Functions of the Understudied Druggable Kinome (30 min).</i></p>
11:00 - 12:00 PM	Informatics	<p>David Ochoa from Open Targets <i>The Open Targets Platform for identification and prioritisation of drug targets (15 min).</i></p> <p>Edward Mountjoy from Open Targets <i>The Open Targets Genetics for identification and prioritization of drug targets (15 min).</i></p> <p>Tudor Oprea from IDG-KMC <i>Knowledge Management Center for Illuminating the Druggable Genome (20 min).</i></p> <p>Timothy Sheils from IDG-KMC <i>Demonstration of Pharos, the User Interface for IDG-KMC (10 min).</i></p>
12:00 – 1:00 PM	Lunch with poster session and Pharos demo	
1:00 – 2:00 PM	Immunology & Immuno-oncology and Illuminated Ion Channels	<p>Eddie Cano Gamez from Gosia Trynka research group <i>Mapping immune disease causal cell types for effective target identification (15 min).</i></p> <p>Annie Speak from David Adams Research group <i>Identification of targets that enhance the function of Natural Killer (NK) cells (15 min).</i></p> <p>Michael McManus from DRGC-Ion Channel <i>Illuminating Druggable Dark Matter (30 min).</i></p>
2:00 – 3:30PM	Tea/Coffee break (with poster session)	
2:30 – 3:30PM	Neurodegeneration and Illuminated GPCR	<p>Manos Metzakopian from UKDRI at Cambridge <i>Parkinson's Disease progression and identification of novel targets for therapy (30 min).</i></p> <p>Justin English from DRGC-GPCR <i>Illuminating The Druggable GPCR-ome (30 min).</i></p>
3:30 – 4:15 PM.	Keynote speaker	<p>Michael Sundström from SGC at Karolinska Institute <i>The SGC Target Discovery Public-Private Partnership: Status and Plans for 2020-25 (45 min).</i></p>

