

Advances in Cell-Based Screening 2019

with Chemical Biology Satellite Meeting

AstraZeneca, Gothenburg
22 - 24 May 2019



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WELCOME TO ADVANCES IN CELL-BASED SCREENING IN DRUG DISCOVERY 2019

We are very pleased to welcome you to ELRIG's Advances in Cell-Based Screening conference and the ELRIG Chemical Biology Satellite Meeting. This year's meeting promises to deliver an inspiring 3-day event with world-class experts from academia, pharmaceutical industry and vendors to share recent scientific advances, best practices and case studies covering a vast area of cell-based approaches in early drug discovery and chemical biology. Our aim is to create an open and inspiring environment for networking between biologists and chemists, working towards a common view on expectations from our cell assays and their use for target identification, target validation and compound profiling purposes.

The scientific program includes a total of five sessions with speakers from top academic and industrial laboratories who will showcase recent advances in target engagement, precision medicine, multiplexed screening, precise genome editing-based phenotypic screening and chemical biology. We are honoured to have the scientific sessions initiated by five prominent keynote speakers: Herbert Waldmann (Max Planck Institute of Molecular Physiology, Dortmund), Olli Kallioniemi (SciLifeLab, Karolinska Institutet, Stockholm), Shantanu Singh (Broad Institute of Harvard/MIT), Ulli Elling (Institute of Molecular Biotechnology, IMBA, Vienna) and Craig Crews (Yale University) who will share their expertise and perspectives in each session. There will also be exciting poster sessions (Day 1 and Day 2) and an extensive three-day vendor exhibition covering the latest technological advances and associated services within relevant scientific fields. Attending this event will also provide you with excellent opportunities for networking with like-minded peers, helping you to find solutions and to build collaborations.

The planning and organisation of this meeting was due to the efforts of many individuals from academia and industry. In particular, I would like to thank our conference core-team members Per-Erik Strömstedt, Thomas Lundbäck, Tyrrell Norris and Ingela Parling (AstraZeneca); Anna-Lena Gustavsson (Karolinska Institutet), and Krister Wennerberg (University of Copenhagen) for their hard work and dedication in organizing and putting together an exciting and impressive scientific programme. We would also like to thank the session chairs (Päivi Östling, Karolinska Institutet), Carolina Wählby (Uppsala University), Barry Rosen (AstraZeneca), and Alleyn Plowright (Sanofi-Aventis) and not least the ELRIG team, Tara Shanks, Sanj Kumar, Rhona Bennett and Clare Cockerham for their excellent support.

ELRIG is a leading European not-for-profit organization that exists to give access to outstanding scientific content to the life science community and provide a platform where academic and industry thought leaders come together to network and promote new innovations in drug discovery. ELRIG is particularly proud to provide free delegate attendance at our conferences, which would not be possible without the generous support of the sponsors and exhibitors.

We hope that you find this 3-day event engaging, interesting and enjoyable and that you use it as an opportunity to network with colleagues & friends and to make new contacts.

DAY 1: WEDNESDAY 22ND MAY

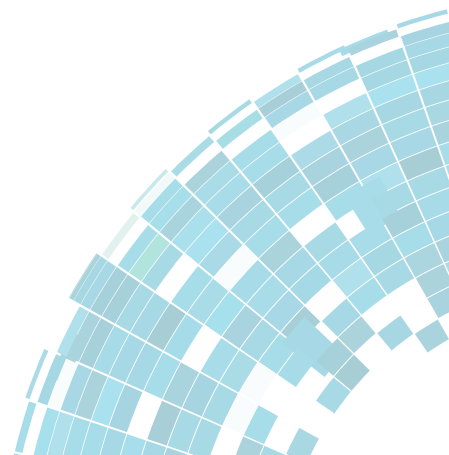
THE AUDITORIUM	
TARGET ENGAGEMENT & COHERENCE WITH FUNCTIONAL CELLULAR RESPONSES	
8:45 - 9:45	REGISTRATION & COFFEE
9:45 - 10:00	Conference Directors' Welcome & introduction to Keynote Thomas Lundbäck, Tyrrell Norris & Per-Erik Strömstedt (AstraZeneca)
10:00 - 10:45	KEYNOTE SPEAKER Chemotype - Phenotype - Target Professor Herbert Waldmann (Max Planck Institute of Molecular Physiology, Dortmund)
10:45 - 10:50	Technology Spotlight: Brad Swanson (Promega)
10:50 - 11:20	Imaging single cell target engagement Matt Dubach (Center for Systems Biology, Harvard University)
11:20 - 11:25	Technology Spotlight: Edo Elstak (GE Healthcare Life Sciences)
11:25 - 11:30	Technology Spotlight: Nirmal Perera (LGC - ATCC)
11:30 - 12:00	COFFEE BREAK
12:00 - 12:15	Poster Spotlight: Poster 17 Claire Whitworth (University of Dundee)
12:15 - 12:45	Establishing target engagement for chemical probes Susanne Müller Knapp (SGC-Frankfurt, Goethe University, Frankfurt)
12:45 - 14:00	LUNCH - EXHIBITION - POSTERS
PRECISION MEDICINE IN MINIATURIZED FORMAT	
14:00 - 14:05	Session Chairs' Introduction Päivi Östling (Science for Life Laboratory, Dept. of Oncology & Pathology, Karolinska Institutet)
14:05 - 14:50	KEYNOTE SPEAKER Functional Testing of Patient-Derived Cells: From Near-Patient Drug Development to Precision Medicine Olli Kallioniemi (SciLifeLab, Dept Onc-Pat, Karolinska Institutet)
14:50 - 14:55	Technology Spotlight: Zoe Nilsson (Sphere Fluidics Ltd)
14:55 - 15:00	Technology Spotlight: Speaker TBC (PerkinElmer AB)
15:00 - 15:30	Image-based screening for precision medicine and immunotherapy Gregory Vladimer (Allcyte)
15:30 - 16:10	COFFEE
16:10 - 16:40	Patient-derived xenograft modelling for improved neuroblastoma therapy Daniel Bexell (Translational Cancer Research, Lund University)
16:40 - 16:45	Technology Spotlight: Anna Lehto (Labcyte Inc.)
16:45 - 16:50	Technology Spotlight: Martin Theiss (Nexcelom Bioscience Ltd)
16:50 - 17:20	Addressing Tumour Heterogeneity in Lung Cancer Drug Response Profiling Emmy Verschuren (Institute for Molecular Medicine Finland (FIMM), HiLIFE, University of Helsinki, Finland)
17:20 - 19:00	DRINKS RECEPTION - NETWORKING - POSTERS

DAY 2: THURSDAY 23RD MAY

THE AUDITORIUM	
MULTIPLEXED SCREENING WITH SINGLE CELL RESOLUTION	
8:30 - 9:15	REGISTRATION & COFFEE
9:15 - 9:25	Session Introduction & introduction to Keynote Carolina Wählby (Uppsala University)
9:25 - 10:10	KEYNOTE SPEAKER Accelerating drug discovery through the power of microscopy images Shantanu Singh (Broad Institute of Harvard/MIT)
10:10 - 10:15	Technology Spotlight: Anders Bergkvist (Merck)
10:15 - 10:45	Advances in Phenotypic Screening: Accelerating the Discovery of New Chemical Entities and Drug Combinations towards in vivo Proof-Of-Concept Neil Carragher (University of Edinburgh)
10:45 - 10:50	Technology Spotlight: Olga Karpus (Fluidigm UK Ltd)
10:50 - 10:55	Technology Spotlight: Staffan Grenklo (Beckman Coulter GmbH)
10:55 - 11:30	COFFEE BREAK
11:30 - 12:00	Multi-parametric single cell profiling defines distinct drug responses in healthy hematological cell lineages that are retained in corresponding malignant cell types Muntasir Mamun Majumder (Institute for Molecular Medicine Finland)
12:00 - 12:05	Technology Spotlight: Malin Samuelsson (Miltenyi Biotec Ltd)
12:05 - 12:20	Poster Spotlight: Poster 16 Michael Courtney (University of Turku)
12:20 - 12:50	Next generation CRISPR screens based on single-cell transcriptomics Tilman Bürckstümmer (Aelian Biotechnology GmbH)
12:50 - 14:00	LUNCH - EXHIBITION - POSTERS
PHENOTYPIC SCREENING THROUGH ADVANCES IN PRECISE GENOME EDITING	
14:00 - 14:10	Session Chairs' Introduction Barry Rosen (AstraZeneca)
14:10 - 14:55	KEYNOTE SPEAKER Advanced CRISPR systems for phenotypic screening Ulrich Elling (Institute of Molecular Biotechnology, IMBA, Vienna)
14:55 - 15:00	Technology Spotlight: Lisa Sundblad (Hamilton Bonaduz AG)
15:00 - 15:05	Technology Spotlight: Dan Lord (Formulatrix, Inc.)
15:05 - 15:40	COFFEE
15:40 - 16:10	Highly efficient genome editing in primary human bronchial epithelial cells Klio Maratou (GlaxoSmithKline)
16:10 - 16:40	Functional Genomics at AstraZeneca: The application of arrayed and pooled CRISPR for target discovery Douglas Ross-Thriepland (AstraZeneca)
16:40 - 17:00	CLOSE OF CONFERENCE
17:00 - 18:00	Tour of the Amazing Journey, AstraZeneca

DAY 3: FRIDAY 24TH MAY

THE AUDITORIUM	
CHEMICAL BIOLOGY SATELLITE MEETING	
8:00 - 9:00	REGISTRATION & COFFEE
9:00 - 9:15	Session Introduction & introduction to Keynote Alleyn Plowright (Sanofi-Aventis)
9:15 - 10:00	KEYNOTE SPEAKER PROTACs: A New Therapeutic Modality Craig Crews (Yale University)
10:00 - 10:05	Technology Spotlight: Dieter Wagner (Thermo Fisher Scientific)
10:05 - 10:35	Analysis of drug-induced effects on proteostasis by quantitative mass spectrometry Giovanna Bergamini (Cellzome, GlaxoSmithKline)
10:35 - 11:15	COFFEE BREAK
11:15 - 11:45	Drug targets and mechanism of action - A critical piece of the puzzle Brinton Seashore-Ludlow (SciLifeLab, KI, Stockholm)
11:45 - 12:15	Chemical proteome mining to fight multidrug resistant bacteria Stephan Sieber (Technical University of Munich)
12:15 - 12:45	Proteomic target identification strategies for identifying regulators of cholesterol homeostasis Luca Laraia (Technical University of Denmark (DTU))
12:45 - 13:25	Presentations of the Nordic Screening Labs Erik Chorell (Umeå University - Dept of Chemistry) Johannes Landskron (Norwegian Centre for Molecular Medicine) Päivi Tammela (University of Helsinki) Professor Mads Clausen (Technical University of Denmark)
13:25 - 13:30	CLOSE OF MEETING
13:30 - 14:30	LUNCH - EXHIBITION



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