

## 2<sup>nd</sup> EurOPDX Workshop

### PDX models in clinical oncology and cancer precision medicine



Seminar-Hotel Rigi am See  
Weggis, Switzerland



**GOLD SPONSOR:**

**ORGANISING & SCIENTIFIC COMMITTEE:** Jos Jonkers (President), Mohamed Bentires-Alj (Co-President), Denis Alférez, Annette Byrne, Rob Clarke, Anna Gandaglia, Silvia Giordano, Eva Gonzalez-Suarez, Steven de Jong, Enzo Medico, James Morris, Leo Price, Sergio Roman-Roman, Marieke van de Ven, Emilie Vinolo

#### Monday, October 1

15:00 - 16:00	Registration & Coffee	
16:00 - 16:10	<b>Opening</b> <i>Jos Jonkers (NKI, Amsterdam, The Netherlands) &amp; Enzo Medico (University of Torino, Candiolo Cancer Institute IRCCS, Italy)</i>	10'
16:10 - 16:55	Uri Ben-David (Broad Institute of Harvard and MIT, Cambridge, MA, USA) <i>Keynote Lecture 1: Patient-derived xenografts undergo mouse-specific tumour evolution</i>	45'
16:55 - 17:40	James H. Doroshow (National Cancer Institute, NIH, Bethesda, MD, USA) <i>Keynote Lecture 2: The US National Cancer Institute Patient Derived Models Repository (PDMR)</i>	45'
17:40 - 18:00	Catherine Botteron (Fraunhofer-Institute for Toxicology und Experimental Medicine ITEM, Germany) <i>Selected abstract: Development and characterization of pre-clinical in vitro/in vivo models from disseminated tumor cells of melanoma patients</i>	20'
18:00 - 18:20	Giorgio Inghirami (Weill Cornell Medicine, New York, NY, USA) <i>Selected abstract: Patient specific drugs overcome corrupted tumor vascular niche-mediated chemoresistance to T-cell acute lymphoblastic leukemia</i>	20'
19:00-20:30	Dinner	
20:30-22:00	Poster Session 1 with free drinks	



**Tuesday, October 2 (07:30 – 14:45)**

7:30-8:30	Registration & Breakfast	
8:30-9:30	<b>Free time or “Meet the experts”</b>	
9:30-12:00	<b>Session 1: Better modelling of metastases</b> <i>Sponsored by</i> 	
	<i>Chairs: Sergio Roman-Roman (Institut Curie, Paris, France) &amp; Rob Clarke (University of Manchester, UK)</i>	
9:30	Sergio Roman-Roman and Rob Clarke <i>Introduction to current state of the art</i>	15'
9:45	EACR Sponsored Speaker: Penny Ottewell (University of Sheffield, UK)  <i>Human specific models for studying ER+ and ER- breast cancer bone metastasis</i>	30'
10:15	Purificación Muñoz (IDIBELL, Barcelona, Spain) <i>Cancer cell plasticity on skin carcinoma progression and therapy response</i>	30'
10:45-11:15	Coffee break & Exhibition	
11:15	Alana Welm (University of Utah, Salt Lake City, UT, USA) <i>Patient-derived models for breast cancer: a focus on the problems of metastasis and drug resistance</i>	30'
11:45	George Sflomos (Federal Institute of Technology Lausanne, Switzerland) <i>Selected abstract: Optimized mouse models of invasive lobular breast carcinoma</i>	15'
12:00-13:30	Lunch & Exhibition	
13:30-14:45	<b>Session 2: Use of <i>ex vivo/in vitro</i> models to predict <i>in vivo</i> drug responses</b> <i>Chair: Leo Price (Ocello, Leiden, NL)</i>	
13:30	Leo Price (Ocello, Leiden, NL) <i>Introduction to current state of the art</i>	15'
13:45	Oded Kopper (Hubrecht Institute, The Netherlands) <i>Novel human derived organoid platforms for ovarian and breast cancer research</i>	30'
14:15	Nicola Valeri (Institute of Cancer Research, London, UK) <i>Patient-derived organoids: promises, hurdles and potential clinical applications</i>	30'
14:45	Rebecca Marlow (King’s College London, UK) <i>Selected abstract: Towards in vitro oncology trials; drug testing in patient-derived organoid cultures</i>	15'

**Tuesday, October 2 (15:00 – 22:00)**

15:00-16:45	<b>Session 3: PDX initiatives</b> <i>Chairs: Enzo Medico (University of Torino, Candiolo Cancer Institute IRCCS, Italy) &amp; Emilie Vinolo (seeding science, Belgium)</i>	<i>Sponsored by</i> 
15:00	Enzo Medico <i>Towards a EurOPDX European Distributed Infrastructure for access to PDX models</i>	20'
15:20	Nathalie Conte (EMBL-EBI, Hinxton, UK) <i>PDX Finder : An open and global catalogue of patient tumor derived xenograft models</i>	20'
15:40-16:10	Coffee break & Exhibition	
16:10	Stefano Cairo (XenTech, Evry, France) <i>ITCC P4: Paediatric Preclinical Proof of concept Platform</i>	20'
16:30	Sam Shelton (Repositive Ltd, Cambridge, UK) <i>Selected abstract: The cancer models initiative: a commercial approach to data standardisation and presentation.</i>	15'
16:45-18:15	<b>Session 4: Raising standards in the PDX field</b> <i>Chairs: Marieke van de Ven (NKI, Amsterdam, The Netherlands) &amp; Denis Alférez (University of Manchester, UK)</i>	
16:45	Lara Rizzotto (Katholieke Universiteit Leuven, Belgium) <i>EDIReX: draft standard operating procedures for health monitoring, biobanking and quality control - Presentation of the PDX Passport</i>	20'
17:05	John Zavrakidis (NKI, Amsterdam, The Netherlands) <i>Statistical analysis of tumour growth experiments</i>	20'
17:25	Panel discussion	50'
19:00-21:00	Gala Dinner	
21:00-22:30	Poster Session 2 with free drinks In parallel - Demo of EurOPDX models repository	

### Wednesday, October 3

7:30 - 9:00	Breakfast	
9:00-11:00	<b>Session 5: Clonal evolution &amp; Humanisation of PDX models</b> <i>Chairs: Annette T. Byrne (Royal College of Surgeons in Ireland, Dublin, Ireland) &amp; Steven de Jong (University Medical Centre Groningen, The Netherlands)</i>	
9:00	Annette Byrne and Steven de Jong <i>Introduction to the session</i>	15'
9:15	Li-Chin Yao (The Jackson Laboratories, USA) <i>Patient-derived tumor xenografts in humanized NSG-SGM3 mice: an improved immuno-oncology platform</i>	30'
9:45	J.J. Schuringa (University Medical Centre Groningen, The Netherlands) <i>Clonal evolution and humanization applied to human leukemia xenograft mouse models</i>	30'
10:15	Jonas Nilsson (Sahlgrenska Cancer Center at University of Gothenburg, Sweden) <i>Heterogeneity and clinical responses to immunotherapy can be modelled and predicted using novel immune-humanized PDX models</i>	30'
10:45	Eva González Suárez (Bellvitge Institute for Biomedical Research, Spain) <i>Selected abstract: Multi-OMIC approach to unravel mechanisms of acquired resistance to docetaxel in triple negative breast cancer</i>	15'
11:00-11:30	Coffee break & Exhibition	
11:30-12:15	<b>Panel discussion: How good are the models and how to make them better?</b> <i>Animated by Silvia Giordano, Jos Jonkers and Momo Bentires-Alj</i>	
12:15	<b>Best poster prizes</b> (Sponsored by the  and  ) <i>Momo Bentires-Alj</i>	10'
12:25	<b>Closing remarks</b> <i>Jos Jonkers, Enzo Medico &amp; Emilie Vinolo</i>	10'
12:35-14:00	Buffet lunch & Departure	