

Medical Genetics Summer School – *From Next-Generation Sequencing to Translational Medicine in Oncogenetics*

31 July – 02 August 2017 | Tübingen, Germany

Agenda

Monday, July 31 2017

8:30	Registration
Germline Session I: Cancer Predisposition Syndromes – case reports and sequencing	
9:00	<p>Welcome by Olaf Riess (IMGAG, University Hospital Tübingen) Hoa Nguyen (UK Tübingen)</p> <p>Lecture: Cancer Predisposition Syndromes – an overview Hoa Nguyen/Genetic Counsellor (IMGAG, University Hospital Tübingen)</p> <p>Lecture: Cancer Predisposition Syndromes – case reports Christopher Schroeder/NN (IMGAG, University Hospital Tübingen)</p> <p>Lecture: NGS – technological aspects</p>
10:35	Coffee break
Germline Session II: Next-Generation-Sequencing and data analysis	
10:50	<p>Marc Sturm (IMGAG, University Hospital Tübingen) Lecture: NGS – bioinformatic analysis of sequencing data</p>
12:00	<p>Gunnar Rättsch Lecture: Data management for large-scale genomics</p>
12:40	<p>Lunch break <i>Restaurant</i></p>
Germline Session III: Variant interpretation	
13:30	<p>Tobias Haack (IMGAG, University Hospital Tübingen) Lecture: Principles of variant classification</p> <p>Eric Hahnen (UK Köln) Lecture: Variant interpretation – the Consortium for Hereditary Breast and Ovarian Cancer.</p>
14:50	Coffee break
Germline Session IV: From NGS data analysis to the clinics	
15:10	<p>Andreas Hartkopf (Department of Women's Health, University Hospital Tübingen) Lecture: Clinical management of patients with BRCA1/2 mutations.</p> <p>Ines Brecht (University Children's Hospital Tübingen) Lecture: Pediatric cancer predisposition syndromes and their clinical relevance.</p>

16:30	Poster set-up
Keynote lecture	
17:00	Lecture: TBA.
Poster session	
18:00	Poster session with wine, beer and pizza
20:00	On own

Tuesday, August 01 2017

Somatic Session I: Somatic variants – relevance and case reports	
9:00	Christof von Kalle (NCT, Heidelberg) Clinical cancer sequencing: Promises and limitations Stephan Schäfer (UK Köln) Lecture: Diagnostic testing in cancer – from single genes to gene panels
10:20	Coffee break
Somatic Session II: Next-Generation-Sequencing and data analysis	
10:40	Franz Hilke (IMGAG, UK Tübingen) Lecture: NGS – technological aspects Marc Sturm/Christopher Schroeder (IMGAG, UK Tübingen) Lecture: NGS – data analysis and somatic variants
12:00	Lunch break <i>Restaurant</i>
Somatic Session III: Variant interpretation	
13:30	Franz Hilke/Christopher Schroeder (IMGAG, UK Tübingen) Lecture: Variant interpretation Alexander Kleger (UK Ulm) Lecture: Functional assessment of somatic variants
14:50	Coffee break
Somatic Session IV: From NGS data analysis to the clinics	
15:10	Oliver Kohlbacher (QBIC) Lecture: Bioinformatics in Personalized Medicine. Sven Nahnsen (QBIC) Lecture: Integration of High-Throughput data – QBIC and CentraXX. Janina Hendrik (ZPM Tübingen) Lecture: tbd.
17:10	On own
Social event	
18:00	Guided city tour/boat trip and dinner (restaurant)

Wednesday, August 02 2017

Translation towards therapy Session I: Tumor biology.	
9:00	Stephan Ossowski (IMGAG, UK Tübingen) Lecture: Clonal evolution of tumor cells. Peter Ulz (Medical University Graz) Lecture: Circulating tumor DNA.
10:20	Coffee break
Translation towards therapy Session II: NGS to guide therapy	
10:40	Matthias Schwab (IKP Stuttgart) Lecture: Pharmacogenomics and its role in precision medicine. Daniel Zips (CCC Tuebingen-Stuttgart) Lecture: Precision medicine and radiation oncology
12:00	Lunch break <i>Restaurant</i>
Translation towards therapy Session IV: Novel Therapies	
13:30	Uwe Peukert, Area Head Oncology (CureVac, Tübingen) Lecture: Immuno-modulatory mRNA-based cancer therapies – mRNA vaccination and beyond. Hans-Georg Rammensee (IFIB, University of Tübingen) Lecture: Impact of the immunogenic landscape of cancers on immunotherapy. Lars Zender (CCC Tuebingen-Stuttgart) Lecture: In-vivo RNA: Technology and innovative cancer mouse models for accelerated target discovery
14:45	Final remarks
16:00	Departure

We would like to thank our sponsors:

