Medical University of Graz

INSTAND-NGS4P Satellite Workshop

# NGS for Personalized Medicine

Date: 29th January 2020, 12:30-17:30

Place: Auditorium, Medical University of Graz, MED CAMPUS Graz, Neue Stiftingtalstrasse 6, 8010 Graz, Austria

In the context of the kick-off meeting of the H2020 pre-commercial procurement project Instand-NGS4P (**In**tegrated and **stand**ardized NGS workflows **for p**ersonalised therapy) that is coordinated by Med Uni Graz, we are pleased to announce a public workshop that will provide background information on this 4.5 year project, and feature presentations on the current scientific and medical research work of the project partners.

Instand-NGS4P is a pre-commercial procurement (PCP) project, inviting commercial diagnostics providers to develop these workflows. Focusing on patient requirements and medical needs it will result in two fully integrated, standardized next-generation sequencing (NGS) workflows for routine diagnostics of common and rare juvenile and adult cancers. It joins seven leading medical centres having major experience in using different NGS platforms in research and routine diagnostics together with European patient advocacy groups, a standardization organization and partners participating in the European infrastructures BBMRI-ERIC, ELIXIR as well as several NGS-related EU programs to cover all technical aspects and transversal needs and requirements. The modular design of the workflows will particularly enable SMEs to contribute, and provides flexibility to adopt emerging user needs and technologies. Specifications will address regulatory requirements for In-Vitro Diagnostics with reference to international standards, and will require development of reference materials and implementation of external quality assessment schemes covering the whole workflow. R&D suppliers will be selected based on a public tender in the course of this PCP process.

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| 12:00-12:30 | Arrival and registration | |
| 12:30-13:00 | Welcome and Introduction | ***Kurt Zatloukal**, Med Uni Graz* |
| 13:00-13:20 | Challenges of NGS in diagnosis of rare paediatric cancers (tbc) | ***Ruth Ladenstein***<br>*Children´s Cancer Research Institute* |
| 13:20-13:40 | Reconstructing Cancer Progression Models | ***Marco Antoniotti***<br>*University Milan-Bicocca* |
| 13:40-14:00 | Importance of reproducible and exchangeable molecular analyses in a European organization | ***Giorgio Stanta***<br>*University of Trieste* |
| 14:00-14:20 | The preanalytical phase of the liquid biopsy | ***Pamela Pinzani***<br>*Florence University* |
| 14:20-14:40 | Precision Medicine needs Precision Sampling and Precision Science | ***Michael Forster***<br>*Christian-Albrechts-Universität zu Kiel* |
| 14:40-15:00 | Common and rare variant pharmacogenomics | ***Richard Turner***<br>*University of Liverpool* |
| 15:00-15:30 | Coffee Break | |
| 15:30-15:50 | Molecular profiling and innovative clinical trials at the Centre Léon Bérard<br>The ProfiLER example and experience | ***Vincent Le Texier***<br>*Centre Léon Bérard, Lyon* |
| 15:50-16:10 | Implementing innovation in NGS in European health care systems | ***Alberto d'Onofrio/Peter Boyle**, International Prevention Research Institute, Lyon* |
| 16:10-16:30 | The patient views and expectations on NGS and related topics | ***Francesco De Lorenzo Alberto D'Onofrio***<br>*FAVO, IPRI and ECPC* |
| 16:30-16:50 | Pathology Molecular Diagnostics at Erasmus MC, Rotterdam, The Netherlands | ***Winand Dinjens***<br>*Erasmus MC* |
| 16:50-17:15 | Diagnostic application of NGS in pathology and human genetics at the Med Uni Graz | ***Michael Speicher/Karl Kashofer**, Med Uni Graz* |
| 17:15 | Closing Remarks | ***Kurt Zatloukal*** |