

Medical Microbial Genomics Centre



Workshop 'Rapid NGS for Public Health Microbiology' March 4th – 8th, 2013; Univ. Münster

Sponsors



In co-operation with



Objectives and Organization

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It is our great pleasure to welcome you to the Workshop 'Rapid Next-Generation-Sequencing for Public Health Microbiology' in Münster. Next-Generation-Sequencing (NGS) technology has developed rapidly during the last years. Innovative benchtop NGS platforms broaden application opportunities, especially for diagnostic use and surveillance. The program highlights opportunities and challenges posed by this technology. The workshop has been designed to boost practical knowledge exchange as well as ample discussions with your colleagues from all over Europe.

Participation fees

No participation fees will be charged for members of SeqNet.org, EU PathoNGenTrace & Antigone, BMBF German National Research Platform for Zoonoses, or DGHM Division of Population Genetics & Infectious Disease Epidemiology.

Organization

Dr. **Dag Harmsen**, Dr. **Alexander Mellmann**, Dr. **Ulrich Dobrindt** (Medical Faculty, University Münster) & Dr. **Alexander Goesmann** (CeBiTec, Bielefeld University).

Registration and information

Workshop places are limited. Therefore, please **register before 21st of January 2013**. To do so, fill in the registration form (at the end of this document), sign it, and fax it to the following number: **+49-(0)251-83 47134**.

Venue

Department Periodontology, University Münster
Waldeyerstr. 30, 48149 Münster
Germany

NOTE – Save the dates!

March 2014 we will organize in Münster, Germany again a larger '*Rapid NGS for Clinical & Public Health Microbiology*' conference (MMGC 2014). **For 2013** we refer to the Wellcome^{trust} '[Applied Bioinformatics and Public Health Microbiology](#)' conference (May 15th - 17th, 2013; Cambridge, UK).

Monday - Wednesday, 4th – 6th March 2013 (max. 32 participants)

08.00-17.00 Ion Torrent PGM & Illumina MiSeq Microbial Whole Genome Shotgun (WGS) Sequencing Wet Laboratory Workshop

including presentations & demonstrations of PGM and MiSeq laboratory workflow (e.g., amplicon & mate pair sequencing) and automation.

Wednesday, 6th March 2013

19.00-23.00 Evening Dinner in a typical Westphalian Cottage (max. 60 participants)

[Mühlenhof-Freilichtmuseum Münster](#) (no fees).

Thursday, 7th March 2013

09.00-17.00 Rapid NGS for Public Health Microbiology Conference (max. 40 additional participants)

See following page for speaker and topics.

Friday, 8th March 2013

09.00-17.00 Computer Class for NGS WGS Data Analysis

CLCbio Genomics Workbench, BIGSdb, Ridom SeqSphere⁺, CLoVR, and MIRA(?) NGS WGS data analysis.

Rapid NGS for Public Health Microbiology

Jonathan Green, Health Protection Agency, Colindale, United Kingdom

De-novo Assembly Strategies & MIRA (to be confirmed)

Bastien Chevreux, Basel, Switzerland

Benchtop NGS Platform & de-novo Assembler Comparison

Sebastian Jünemann, CeBiTec Bielefeld Univ. & Univ. Münster, Germany

WGS NGS *Campylobacter* spp. & BIGSdb

Keith Jolley, Univ. Oxford, United Kingdom

Manual & Automated Microbial Genome Annotation

Alexander Goesmann, CeBiTec Bielefeld Univ., Germany

NGS Cloud Computing & CLoVR

W. Florian Fricke, Univ. Maryland, USA

Reconstructing Disease Outbreaks from Pathogen Genome Sequences: a Bayesian Approach

Thibaut Jombart, Imperial College London, United Kingdom

WGS NGS Analysis of *Neisseria* and *Pseudomonas* spp.

Ulrich Vogel, Univ. Würzburg, Germany

WGS NGS Analysis of *Staphylococcus aureus* & *Clostridium difficile*

Ulrich Nübel, Robert Koch Institute Wernigerode, Germany

WGS NGS Analysis of *Mycobacterium tuberculosis* complex

Stefan Niemann, Research Centre Borstel, Germany