



5th Next Generation Sequencing Workshop: *Listeria monocytogenes* and *Mycobacterium tuberculosis*

Vienna, Austria

24 – 26 February 2016



AGES Headquarters © Polesny

Organizers

- Austrian Agency for Health and Food Safety (AGES), Vienna, Austria
- ASM Country Ambassador to Austria
- ASM Country Ambassador to Italy
- PathoNGenTrace

Course Coordinators

- Alexander Indra, Vienna, Austria
- Ariane Pietzka, Graz, Austria
- Werner Ruppitsch, Vienna, Austria

Course Objectives

Provide an updated overview of Next Generation Sequencing typing for *Listeria monocytogenes* and *Mycobacterium tuberculosis*. In a practical hands-on-approach the participants will be trained in use of Next Generation Sequencing and comparative genomics for epidemiological investigations using an Illumina MiSeq sequencing system and Ridom SeqSphere+ software.

Contact

Contact Person [Scientific Programme]

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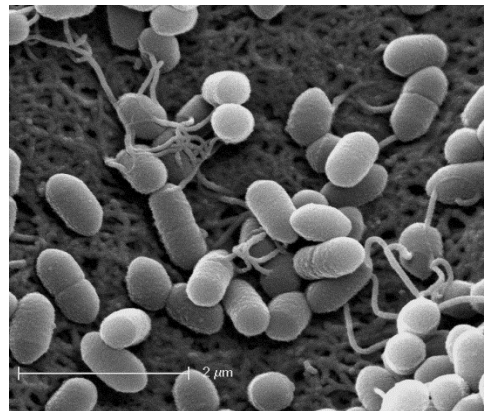
Administrative Secretariat

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Target Audience

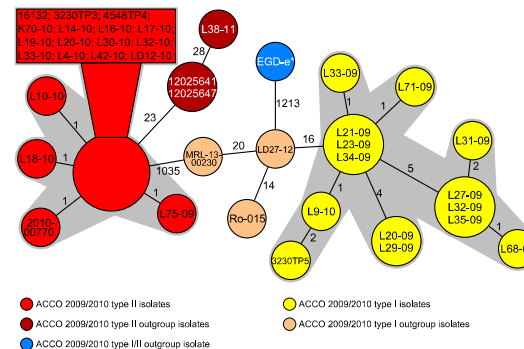
20 – 30 participants, staff of reference laboratories and scientists interested in Next Generation Sequencing, who want to get an updated overview of the theoretical and practical use of Next Generation Sequencing typing methods and comparative genomics for *Listeria monocytogenes* and *Mycobacterium tuberculosis*. Given the international scope and limited capacity available the meeting organizers strive to select qualified participants from as many different countries as possible. Only a maximum of two participants per organization is eligible.



Listeria sp. seen through an electron-microscope
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Faculty Members

Franz Allerberger, Vienna, Austria
Claudio Bandi, Milan, Italy
Walter Haas, Berlin Germany
Dag Harmsen, Münster, Germany
Alexander Indra, Vienna, Austria
Stefan Niemann, Borstel, Germany
Ariane Pietzka, Graz, Austria
Karola Prior, Münster, Germany
Werner Ruppitsch, Vienna, Austria
Antonio Toniolo, Varese, Italy
Christoph Unger, Vienna, Austria



Minimum-spanning tree illustrating the phylogenetic relationship based on MLST+ allelic profiles of 39 *L. monocytogenes* isolates (J. Clin. Microbiol. 2015; 53:2869-76).

Organization

Course Venue

AGES Headquarters
Spargelfeldstrasse 191
1220 Vienna

Registration Procedure

Please register by using the registration form of this folder and sending it to akademie@ages.at (subject: NGS Workshop 2016).

Registration deadline is either 1 February 2016 or date reaching sold-out status. Slots are allocated in order of payment.

Registration Fee

EUR 450 for ASM members
EUR 600 for all others

The fee includes scientific sessions (lectures, hands-on, working material), coffee breaks, lunches and dinners. Accommodation and travel costs are not included.



Course Programme

Wednesday, 24 February 2016

- 12:00 Registration (lunch and coffee provided in registration area)
- 13:00 Welcome and introduction
(Franz Allerberger, Antonio Toniolo)
- 13:15 Introduction to Next Generation Sequencing (NGS)
(Alexander Indra)
- 13:40 In-silico-demonstration of NGS-workflow and Illumina MiSeq sequencing system
(Karola Prior)
- 15:30 Sequencing questions and answers
(Karola Prior & Illumina expert)
- 16:00 Bioinformatic tools for NGS
(Dag Harmsen)
- 16:45 End of day 1
- 18:00 Social Event in an inner city restaurant

Thursday, 25 February 2016

- 09:00 Listeriosis: public health relevance of subtyping
(Franz Allerberger)
- 09:25 Part I Hands-on: comparative genomics on *Listeria monocytogenes* using Ridom SeqSphere+
(Dag Harmsen, Ariane Pietzka, Werner Ruppitsch)
- 11:00 Coffee Break
- 11:15 Part II Hands-on: continued
- 12:30 Lunch Break
- 14:00 Part III Hands-on: continued
- 15:30 Coffee Break
- 15:45 NGS and resistance prediction for MTB
(Stefan Niemann)
- 16:45 End of day 2
- 19:00 Dinner in an inner city restaurant with guest lecture by Claudio Bandi
(Department of Veterinary Science and Public Health, University of Milan, Milan, Italy) entitled: "Tracking nosocomial *Klebsiella pneumoniae* infections and outbreaks by whole-genome analysis")

Friday, 26 February 2016

- 09:00 Tuberculosis: public health relevance of subtyping
(Walter Haas)
- 09:25 Part I of comparative genomics of *Mycobacterium tuberculosis* using Ridom SeqSphere+
(Stefan Niemann, Dag Harmsen, Werner Ruppitsch)
- 11:00 Coffee Break
- 11:15 Part II continued
- 12:45 Closing remarks
(Franz Allerberger, Antonio Toniolo)
- 13:00 Lunch



Registration form “NGS Workshop 2016”

(please send to akademie@ages.at or fax to +43 (0) 50 555 25209).

Fee: ASM member (450 EUR); membership number: _____

Regular (600 EUR)

Mr Mrs

Name

First name

Institution/Organization

Billing address

Email