

Monday

- 09:00 Welcome and coffee
09:30 *Seminar: FISH - An introduction*
10:15 Coffee break
10:30 *Seminar: The FISH protocol*
11:30 **Lunch**
12:30 *Lab-course: Principles of *in situ* hybridization*
14:00 Coffee break
14:30 *Seminar: Participants present their research topics (part I)*
16:30 *Lab-course: Epifluorescence microscopy*

Tuesday

- 09:00 *Seminar: FISH - Novel methods*
10:00 *Lab-course:*
In situ hybridization of environmental samples and participants' samples
12:00 **Lunch**
13:00 *Seminar: Participants present their research topics (part II)*
14:00 Coffee break
14:15 *Lab-course contd.*
14:30 *Seminar: Participants present their research topics (part III)*
15:30 *Lab-course: Epifluorescence microscopy*
20:00 *Dinner at a Viennese Restaurant*

Wednesday

- 09:00 *Seminar: Structure and function analysis of microbial communities using FISH*
10:30 Coffee break
10:45 *Lab-course (part I):*
Determining optimal hybridization conditions for new probes
or Demonstration Raman - Sorting
or In situ hybridization of participants' samples
12:00 **Lunch**
13:00 *Lab-course (part II):*
Determining optimal hybridization conditions for new probes
or Demonstration Raman - Sorting
or In situ hybridization of participants' samples
14:45 Coffee break
15:00 *Seminar: Digital image analysis and visualization in microbial ecology: Introducing *daime**
16:30 *Lab-course contd.*

Thursday

- 09:00 *Seminar: **In silico** probe design and evaluation*
- 10:30 Coffee break
- 10:45 *Lab-course: In situ hybridization of participants' samples*
- 12:00 **Lunch**
- 13:00 *Demonstration of Raman-FISH*
- 14:30 *Lab-course contd.*
- 16:00 Coffee break
- 16:15 *Lab-course contd.*

Friday

- 09:00 *Lab-course: In situ hybridization of participants' samples*
- 10:00 *Seminar: **FISH – Problems and Solutions***
- 11:00 *Lab-course contd.*
- 11:30 **Lunch**
- 12:30 *Lab-course contd.*
- 14:30 Coffee break
- Short presentation of the results by the participants and final discussion*
- 15:30 End