

Seminar themes Environmental Microbiology Master Water Science summer semester2008

Date	Group	Names	Theme	Literature	Ansprechpartner
21.05.08	6	Hegmann, Michael Faust, Lena	Sulphate reduction (Bacteria, processes, technical problems)	See below	T. Rohwerder
	7	Wehlmann, Anika Pillen, Alexa	Nitrification (Nitrogen-cycle, Process, involved mircoorganisms, technical interest)	See below	T. Rohwerder
			Cellulose degradation (aerobic, anaerobic fermentation, white- and red-decay)	See below	T. Rohwerder
28.05.08	3	Raffelberg, Sarah Schrader, Juliane	Sporulation (spore, sources, regulation)	See below	T. Rohwerder
	5	Rudolph, Stephan Renker, Mareile	Photosynthesis (bacterial)	See below	T. Rohwerder
	10	Zubu, Nasir Abdulsem, Alnajar	Photosynthesis (eukaryotic)	See below	T. Rohwerder
04.06.08	9	Altergott, Oleg Wilfert, Linn	CO ₂ -fixation (5 pathways)	Special literature	T. Rohwerder
	2	Huang, Qian Yaling, Liu	Preparation of DNA & Restriction of DNA	See below	B. Siebers/M. Zaparty
11.06.08	12 (13)	Liedtke, Stefan	Ligation & Transformation	See below	B. Siebers/M. Zaparty

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11.06.08	4	Jachlewski, Silke Peulen, Thomas	Cloning vectors, Expression vectors, Shuttle vectors	See below	B. Siebers/M. Zaparty
	1	Gulitz, Anna Wagner, Janine	Polymerase chain reaction (PCR)	See below	B. Siebers/M. Zaparty
18.06.08	8	Wang, Ying Nie, Yunyn	DNA Sequencing	See below	B. Siebers/M. Zaparty
	11	Jatho, Larissa Tulipani, Geertje	Fluorescence in situ hybridization (FISH)	See below	B. Siebers/M. Zaparty
	12	Odgerel Davaasambuy Abu halawah Anam	Denaturing Gradient Gel Electrophoresis (DGGE) & Metagenomics	See below	B. Siebers/M. Zaparty

Each group has 25 min for their presentation, followed by 5 min for discussion.

Literature:

Stryer – Biochemie

Brock – Mikrobiologie

Lengeler – Biology of the Prokaryotes

Gassen/Schrimpf – Gentechnische Methoden

Brown – Gentechnologie für Einsteiger

Mülhardt – Der Experimentator: Molekularbiologie/Genomics

Newton/Graham – PCR

F. Lottspeich, A. Zorbas. Bioanalytik