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The Biology Course is designed to familiarize the students with principal biological concepts. The Biology Course includes main topics from Cell and Molecular Biology, Genetics, Biochemistry, Physiology, Microbiology and Immunology. The Lectures/Seminars will give the opportunity to learn the basic scientific knowledge in these topics. The function of the Laboratory Courses is to acquaint the students with current biological techniques and equipments.

LABORATORY

Required: Laboratory Manual – White Labcoat

Tuesday: 3.00 pm – 6.00 pm (3 h)

Location: MTZ, Fiedlerstrasse 42 (map: Bld. 91)

Examination/Grading: Active Attendance / Written

Day	Content	Discipline Responsibility	Location
April 10	Laboratory 1 Analysis of Simulated Epidemic and Hand Contamination and Cytological Studies	Microbiology Prof. Jacobs Dr. Weber	Mikroskopierraum Start: 16.00
April 17	Laboratory 2 General Histology	Anatomy Prof. Kasper	Mikroskopierraum Start: 16.00
April 24	Laboratory 3 Quantitative Determination and Spectrums of Hemoglobins in Blood	Biochemistry Prof. Dieter Dr. Scheibe	Institut für Physiologische Chemie
May 8	Laboratory 6 Cardio-respiratory Parameters and Indirect Calorimetry at Rest and during Exercise	Physiology Prof. Deußen Dr. Zürich	Institut für Physiologie
May 15	Laboratory 4 Determination of Activity of Lactate Dehydrogenase in Optical Test	Biochemistry Prof. Dieter Dr. Scheibe	Institut für Physiologische Chemie
May 22	Laboratory 5 Basic Properties of Biological Membranes	Physiology Prof. Deußen Dr. Dalitz	Institut für Physiologie
June 5	Laboratory 7 Molecular Biological Diagnosis of Cystic Fibrosis with the Help of PCR	Biochemistry Prof. Dieter Dr. Hempel	Institut für Physiologische Chemie
June 12	Laboratory 8 Characterization of DNA using Restriction Endonucleases	Biochemistry Prof. Dieter Dr. Hempel	Institut für Physiologische Chemie
June 19	Laboratory 9 – Group 1 Bacterial Transformation	Immunology Prof. Rieber Dr. Büttner	Institut für Immunologie
June 22	Laboratory 9 – Group 2 Bacterial Transformation	Immunology Prof. Rieber Dr. Büttner	Institut für Immunologie
June 26	Laboratory 10/11 – Group 1 Plasmid Preparation from E. coli and Transient Transfection of Eucaryotic Cells Western Blotting Technique	Immunology Prof. Rieber Dr. Büttner	Institut für Immunologie
July 3	Laboratory 10/11 – Group 2 Plasmid Preparation from E. coli and Transient Transfection of Eucaryotic Cells Western Blotting Technique	Immunology Prof. Rieber Dr. Büttner	Institut für Immunologie

Bio-Group 2:

Ankita, Jessica, Rahul, Gui, Julia, David, Karen, Visar