

Selected courses in English in the academic year 2010/11

KUL institute/department:	Biotechnology/Molecular Biology
Course title:	Laboratory techniques in protein purification
Lecturer (name, surname):	Andrea Baier
Title/position:	Ph.D., Assistant Professor (Adjunct)
ECTS credits:	3
Course duration (1 st , 2 nd or both semesters):	1 st semester
Number of hours per week:	2
Course type:	lecture
Level:	
Course description:	Weight, volume and concentration measurement; Cell culture techniques (aseptic technique, <i>E. coli</i> and related bacteria cultures); Centrifugation techniques; Column chromatography (ion exchange, size exclusion, affinity); Electrophoretic techniques (agarose gel electrophoresis, SDS/PAGE, visualization of resolved molecules, staining of proteins in gels); Blotting (nucleic acid blotting – Southern and Northern, protein blotting – Immunoblotting, labelling DNA and preparing probes; Enzymatic reactions.
Required reading list:	<ol style="list-style-type: none"> 1. Gallagher S.R. & Wiley E.A. (Eds.) (2008) Current Protocols Essential Laboratory Techniques. Wiley 2. Rossomando E.F. (1987) High Performance Liquid Chromatography in Enzymatic Analysis. Wiley 3. Kreuzer H. & Massey A. (2008) Molecular Biology and Biotechnology. ASM Press, Washington DC
Prerequisites:	None
Assessment method:	Written examination
Contact person for further information (name, surname, e-mail, phone):	Andrea Baier, baier@kul.pl , 081 4454603