

MLS PhD course in Protein Purification, beginner's level (August 16-20, 2010)

Institute of Inorganic Chemistry, Division of Bioinorganic Chemistry

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Y34-F-48, and laboratories

August 16	August 17	August 18	August 19	August 20
<p><u>09:00 - 10:30</u> Introduction to <i>Principles of Protein Purification</i></p>	<p><u>09:00 - 10:00</u> Theoretics about today's lab work</p>	<p><u>09:00 - 10:00</u> Theoretics about today's lab work</p>	<p><u>09:00 - 10:00</u> Theoretics about today's lab work</p>	<p><u>09:00 - 10:00</u> Theoretics about today's lab work</p>
<p><u>10:30 - ca. 17:00</u> Lab work: - Transformation of <i>E. coli</i> cells - Protein over-expression in <i>E. coli</i></p>	<p><u>10:00 - ca. 17:00</u> Lab work: - Protein over-expression in <i>E. coli</i> - Protein Purification with affinity tags (His-, GST-tag)</p>	<p><u>10:00 - ca. 17:00</u> Lab work: - Purity control with SDS-PAGE - Protein concentration (lyophilization, spin-concentrators, stirring cells)</p>	<p><u>10:00 - ca. 17:00</u> Lab work: - Protein purification with size exclusion chromatography using an FPLC-system - Activity measurements of purified protein</p>	<p><u>10:00 - ca. 14:00</u> Lab work: - Activity measurements of purified protein Concluding remarks</p>