Molekulare Netzwerke (A)

WS 2010/2011

Topics:

- ▶ Metabolic networks
    - ▶ basics (reminder from SS), flux balance analysis, flux variability
    - ▶ flux coupling analysis
    - ▶ minimum cut sets
- ▶ Regulatory networks
    - ▶ discrete modeling
    - ▶ structure and dynamics
- ▶ Combination
    - ▶ Petri nets
    - ▶ FBA modeling frameworks
    - ▶ further methods

Theory

and

Case Studies

Organizational Remarks:

- ▶ Slides will be available at the course page.
  Note: they do not constitute a complete script!

- ▶ Exercises are mandatory and will be held every two weeks.

- ▶ A written exam (90 min) will be held at the end of the semester.