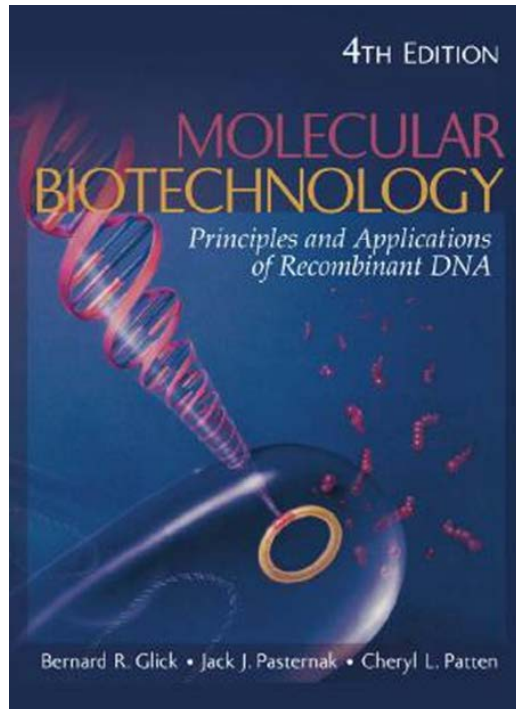


# Lectures

- The lectures are a mix of
  - Theory lectures
  - Paper discussions related to the topics
- Be prepared to read, present and discuss some scientific papers during the lectures
  - Topics will be distributed during week 2 of the course

# Materials & Literature

- For each lecture, notes and selected literature accompanying the topics will be made available



Additional reading:

General introduction to topic and background information

Glick, Bernard J. (Author). *Molecular Biotechnology : Principles and Applications of Recombinant DNA (4th Edition)*. Washington, DC, USA: ASM Press, 2010.

Available in library

# Assignment – Design project

- Design a strategy for converting a host organism into a highly specialized cell factory
  - I. *Trichoderma reesei* as production platform for therapeutic proteins
  - II. A butanol producing *Saccharomyces cerevisiae*
  - III. *Saccharomyces cerevisiae* producing EtOH from waste biomass
  - IV. Upon agreement, your own convincing idea

# Design project

- The project is done in groups of 4
  - ( $\pm 1$ , if too many/few students)
  - Sign up to groups via Mycourses
- A topic can be chosen by several groups
- The design project accounts for 30% of the grade
  - Performance of each group member and the group as a whole is taken into account
- For each group a 1 hour coaching session is available during weeks 3 and 4

# Assessment methods

- Exam (70%)
- Assignment (30%)

# Written exam

- Mix of essay questions, problem solving tasks and short questions/definitions
- In order to pass the exam 40% of the total points (12 out of 30 points) need to be obtained
- Written exam 4 hours
  - February 22nd, 2019
  - April 9th, 2019