

Grundlagen, Protein Struktur

Andrew Torda, Wintersemester 2009 / 2010, GST

- who am I ?
- die Sprache .. verhandelbar
- Zettel
 - `www.bioinformatics.uni-hamburg.de/research/BM/torda/lehre.html`
- + stine
- Übungen also on web
- Research group
 - protein structure and design
 - RNA structure and design

Administration

People

- Andrew Torda 42838 7331, 1. Stock / 105
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- Gundolf Schenk
- Thomas Margraf
- Stefan Bienert
- Marco Matthies

Vorlesungen	Mi	14:15 – 15:45	
Übungen / tutorials / revision	Mi	16:15 – 17:45	ungefähr jede zweite Woche

Übungen

- start next week
- not today
- Alle Folien & Übungszetteln in Stine

Aims

This semester

- protein structure - how it is determined
- analysis

Next semester

- more on simulation
 - proteins
 - evolution (non-Darwinist)

Course structure

- Übungen - very flexible
 - mostly like a chemistry Übung - assignment, work in computer room, 2 Woche / Übung
 - some tutorials / revision

Textbooks

- any biochemistry book (Stryer, Lehninger, Biochemistry)
 - expensive
- Leach, Andrew, “Molecular Modelling” very good for next semester
- Folien should be sufficient

Exams

- schriftliche Klausur
- any facts that are mentioned in these lectures
- simple knowledge
 - what are the kinds of amino acids ?
 - how reliable are NMR structures ?
 - what are the kinds of disorder in an X-ray structure ?
 - ...

Summer semester

- more difficult
- more maths, stat mech,

Assumed Knowledge

who knows

- chemistry ?
- programming ?
- stat mech ?
- easy maths ? simple derivatives ? integrals ?

Protein structure - huge problem

- absolutely essential
 - always exam questions
- who would like to hear it ?
- who would be bored ?