Seminar

Hints for the presentation and report

Lothar Richter
General

- Attendance obligatory
- Aim: practice presenting and report writing
- Take part in discussion!
- Grading: 50% talk, 25% report, 25% discussion
- 2 people collaborate on one topic to give one joined talk
Preparation

• *Starting* material provided by supervisor
• (Research additional material where necessary)
• In case of questions consult supervisor
• Discuss content / focus and slides with supervisor
  (2 weeks before talk):
  – you are responsible for the meeting with the supervisor
  – have your slides ready
• Go beyond the obvious
Textbook / paper reading

• First get general idea / take-home lesson
• Understand Methods and Validation
• Look for open questions
• Follow references
Talk

- Duration: 30 minutes
- Storyline
- Talk slowly and clearly
- Address the audience
- Rehearse!
- 30 minutes discussion
Slides

• Avoid too much text; Font size >18 pt
• All key points should appear on the slides
• Do not animate (too much)
• Include slide numbers
• Use examples to illustrate complex matter
• Cite your sources
• Graphics should have:
  – Title
  – Axis definitions
  – Sources
# Talk feedback

<table>
<thead>
<tr>
<th>Topic weighting</th>
<th>Good ratio between main and side topics</th>
<th></th>
<th>Ratio imbalanced</th>
</tr>
</thead>
<tbody>
<tr>
<td>Structure</td>
<td>Clear, precise, comprehensible, easy to understand with a clear structure</td>
<td></td>
<td>Incomprehensible, confusing and chaotic</td>
</tr>
<tr>
<td>Rhetoric</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Language</td>
<td></td>
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<tr>
<td>Speed</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Slides</td>
<td>Clear, good layout and design, no typos</td>
<td></td>
<td>Chaotic, too many animations, typos</td>
</tr>
<tr>
<td>Visualization</td>
<td>Meaningful figures, clear captions / axis description, clear tables</td>
<td></td>
<td>Too much information, meaningless figures or/and tables, too few figures/table</td>
</tr>
<tr>
<td>Creativity</td>
<td>Special ideas, creative way of describing content, use of punch line</td>
<td></td>
<td>Obvious, without fantasy, boring</td>
</tr>
</tbody>
</table>


Report & Wikipedia

• Write in LaTeX or MS Word
• Use “Bioinformatics” journal format (defines font, citation style, etc.)
• Length: 5 pages
• due one week after the talk
Report (general hints)

- Include figure legends
- Give references
- Write full sentences
- Use spell checking
- Avoid passive voice
- Avoid complex sentences
Students:

- Descho, Sophia
- Eska, Thomas
- Ganswindt, Leonie
- Kaindl, Leo
- Li, Sijing
- Roller, Vincent
- Schütze, Konstantin
- Slawinska, Zuzanna
- Wu, Tongyan
- Karollus, Alexander
### Topics:

<table>
<thead>
<tr>
<th>Topic</th>
<th>Supervisor</th>
<th>Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protein localization prediction from evolutionary profiles</td>
<td>M Schelling</td>
<td>Kaindl, Slawinska</td>
</tr>
<tr>
<td>Protein disorder — a breakthrough invention of evolution?</td>
<td>M. Heinzinger</td>
<td>Schütze, Eska</td>
</tr>
<tr>
<td>Transmembrane Proteins / PolyPhobius</td>
<td>M. Bernhofer</td>
<td>Descho, Ganswindt</td>
</tr>
<tr>
<td>Human 5’ UTR design and variant effect prediction from a massively parallel translation assay</td>
<td>J. Gagneur</td>
<td>Karollus, Wu</td>
</tr>
<tr>
<td>Deep learning sequence-based ab initio prediction of variant effects on expression and disease risk</td>
<td>J. Gagneur</td>
<td>Li, Roller</td>
</tr>
</tbody>
</table>