Proseminar

Hints for the presentation and report

Michael Bernhofer
General

• Attendance obligatory
• Aim: practice presenting and report writing
• Take part in discussion!
• Grading: 50% talk, 25% report, 25% discussion
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: 20 minutes, 30 minutes if two students
• Storyline
• Talk slowly and clearly
• Address the audience
• Rehearse!
• 25 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>Ratio imbalanced</th>
</tr>
</thead>
<tbody>
<tr>
<td>Structure</td>
<td>Clear, precise, comprehensible, easy to understand with a clear structure</td>
<td>Incomprehensible, confusing and chaotic</td>
</tr>
<tr>
<td>Rhetoric Language Speed</td>
<td></td>
<td></td>
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<tr>
<td>Slides</td>
<td>Clear, good layout and design, no typos</td>
<td>Chaotic, too many animations, typos</td>
</tr>
<tr>
<td>Visualization</td>
<td>Meaningful figures, clear captions / axis description, clear tables</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>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

• Wikipedia article
  – Bioinformatics topic (preferably yours)
  – Changes should be meaningful
  – Documented in the report
Report (general hints)

- Include figure legends
- Give references
- Write full sentences
- Use spell checking
- Avoid passive voice
- Avoid complex sentences
Dates: 7 slots, each up to two talks

- Lecture period Apr 24\textsuperscript{th} – Jul 30\textsuperscript{th}

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Student 1</th>
<th>Student 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>08.5.</td>
<td>PolyPhobius: Prediction of transmembrane in protein sequences</td>
<td>Christian Müller</td>
<td>Octavia-Andreea Ciora</td>
</tr>
<tr>
<td>15.5.</td>
<td>Sequence alignment and searches: heuristic methods</td>
<td>Tongyan Wu</td>
<td></td>
</tr>
<tr>
<td>22.5.</td>
<td>LocTree3: Prediction of subcelluar localization of proteins</td>
<td>Alexander Karollus</td>
<td>Thomas Mauermeier</td>
</tr>
<tr>
<td>29.5.</td>
<td>Radiomics: the process and the challenges</td>
<td>Sophia Metz</td>
<td>Andreas Stelzer</td>
</tr>
<tr>
<td>12.6.</td>
<td>Protein disorder--a breakthrough invention of evolution?</td>
<td>Zuzanna Slawinska</td>
<td>Leo Kaindl</td>
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</tbody>
</table>