Seminar

Hints for the presentation and report

Lothar Richter & Andrea Schafferhans
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
• 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
- Story-line
- Talk slowly and clearly
- Address the audience
- Rehearse!
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>
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<tr>
<td>Rhetoric</td>
<td></td>
<td></td>
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<tr>
<td>Language</td>
<td>Clear, good layout and design, no typos</td>
<td></td>
<td>Chaotic, too many animations, typos</td>
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<tr>
<td>Speed</td>
<td></td>
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<tr>
<td>Slides</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>
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<tr>
<td>Visualization</td>
<td>Special ideas, creative way of describing content, use of punch line</td>
<td></td>
<td>Obvious, without fantasy, boring</td>
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<tr>
<td>Creativity</td>
<td></td>
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</table>
Report

• Write in Latex or MS Word
• Use “Bioinformatics” journal format (defines font, citation style, etc.)
• Length: 5 pages
• Write full sentences
• Use spell checking
• Include figure legends
• Give references
• Avoid passive voice
• Avoid complex sentences
• **due one week after the talk**
<table>
<thead>
<tr>
<th>Topics</th>
<th>Authors</th>
<th>Subtopics</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conditional Random Fields</td>
<td>Kristóf Gilicze</td>
<td>Robustness and evolvability of proteins</td>
<td>Niyaz Madin</td>
</tr>
<tr>
<td>Biological Databases</td>
<td>Stefan Wentzig</td>
<td>CRISPR/Cas</td>
<td>Gregor Sturm</td>
</tr>
<tr>
<td>Predicting subcellular localization using functional hierarchies</td>
<td>Theresa Wirth</td>
<td>Single Cell Sequencing</td>
<td>Armin Hadziahmetovic</td>
</tr>
<tr>
<td>Protein localization prediction from evolutionary profiles</td>
<td>Gabriel Werner</td>
<td>Predicting functional effects of sequence variants</td>
<td>Maximilian Zwiebel</td>
</tr>
<tr>
<td>Protein disorder — a breakthrough invention of evolution?</td>
<td>Maier Andreas</td>
<td>HIV Mutational Pathways</td>
<td>Florian Sigl</td>
</tr>
<tr>
<td>Mass-spectrometry-based draft of the human proteome</td>
<td>Ping Ren</td>
<td>tba</td>
<td>Vivian de Motte</td>
</tr>
<tr>
<td>PolyPhobius: Prediction of transmembrane helices in protein sequences</td>
<td>Madalina Giurgiu</td>
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<td></td>
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</tbody>
</table>
Dates: weekly or biweekly?

- there was a vote for doing biweekly meetings with two talks in a double session starting at 12.00 o’clock sharp.
- first talk: Oct 19th
- last talk: Nov 30th
- the finalized schedule can be found at: 
  https://www.rostlab.org/teaching/ws1516/seminar
- please contact your supervisor early
- indicate any schedule problems early!