Hands-on introduction to Protein Modeling

Modesto Redrejo Rodríguez

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About

This brief instruction booklet contains the materials for the "Hands-on Protein Modeling" sessions at the CIVIS Summer School Bioinformatics for non-bioinformaticians, Tübingen, Germany (18-22 July 2022). This is a Quarto book. All this material is open access and it is shared under CC BY-NC license.

Figure 0.1: Link to the website of the Master's Degree in Bioinformatics & Computational Biology at UAM

Most of the materials are shared with the course *Structural Bioinformatics* that I lecture in the Master's Degree in Bioinformatics & Computational Biology @UAM.

At the end of each section there are several questions highlighted in green that pretend to motivate you to think about the acquired knowledge and skills and go a little bit forward in the interpretation of the results.

The contents of this short course are also largely inspired in the works of others that shared their course materials, tips and other kind of resources on their own websites, GitHub or

Twitter, including Alexandre Bovin, Sergey Ovchinnikov, Martin Steinegger, Carlos Outeiral, among many others. I tried to acknowledge (and link!) each one of those contributions but I'd like to apologize beforehand for those that I may have not mention.

As a suggestion, I would like to invite you to check the set of exercises on Structural Bioinformatics from the Pontificia Universidad Católica de Chile, described in Engelberger et al. (2021): https://github.com/pb3lab/ibm3202

Contact

Please let me know if you find some mistake missing reference. Definitely, I'll appreciate any suggestion or correction. You can reach me by email or 🐦 Twitter.