About StrBio 22-23

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About

This site contains the materials for the *Structural Bioinformatics* course of fall 2022 in the Master's Degree in Bioinformatics & Computational Biology @UAM. All these materials is open access and it is shared under CC BY-NC license. Detailed academic information about the course contents, dates and assessment only can be found at the UAM Moodle site.

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

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.

The course contains three practical exercises that will guide you through the use of Pymol for molecules visualization and modeling proteins by homology modeling and alphafold. Moreover, at the end of some sections 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.

As a suggestion, I would also 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

Note that this site is **under construction** and I only expect to have a first complete draft by the end of the semester (December 2022). Any help or suggestions will be very warmly welcome.

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.