author: Batuhan Seyhan title: date: 12.05.2023 keywords: 11C geometry: margin = 2cm output: pdf_document fontsize: 12pt lang: en

TASK-1

TASK2

Executive: Colored 10 atoms. Executive: Colored 44 atoms.

TASK3

not sure what the diffrece it can make though

TASK4

TASK5

12

TASK6

2

TASK7

--

TASK8

TASK9

YES, IT FOLDED.

TASK10

TASK11

PyMOL(TM) 2.5.5 - Incentive Product Copyright (C) Schrodinger, LLC This Executable Build integrates and extends Open-Source PyMOL. Detected OpenGL version 2.1. Shaders available. Detected GLSL version 1.20. OpenGL graphics engine: GL_VENDOR: Apple GL_RENDERER: Apple M1 GL_VE Detected 8 CPU cores. Enabled multithreaded rendering.

Task12

> *sp|Q94KT8|COBRA_ARATH Protein COBRA OS=Arabidopsis thaliana OX=3702 GN=COB PE=2 SV=1*
> *MESFFSRSTSIVSKLSFLALWIVFLISSSSFTSTEAYDALDPEGNITMKWDVMSWTPDGY*
> *VAVVTMFNFQKYRHIQSPGWTLGWKWAKKEVIWSMVGAQTTEQGDCSKYKGNIPHCCKKD*
> *PTVVDLLPGTPYNQQIANCCKGGVMNSWVQDPATAASSFQISVGAAGTTNKTVRVPRNFT*
> *LMGPGPGYTCGPAKIVRPTKFVTTDTRRTTQAMMTWNITCTYSQFLAQRTPTCCVSLSSF*
> *YNETIVGCPTCACGCQNNRTESGACLDPDTPHLASVVSPPTKKGTVLPPLVQCTRHMCPI*
> *RVHWHVKQNYKEYWRVKITITNFNYRLNYTQWNLVAQHPNLDNITQIFSFNYKSLTPYAG*
> *LNDTAMLWGVKFYNDFLSEAGPLGNVQSEILFRKDQSTFTFEKGWAFPRRIYFNGDNCVM PPPDSYPFLPNGGSRSQFSFVAAVLLPLLVFFFFSA*

TASK13

Task14

The code performs a protein structure prediction using the AlphaFold model, it will generate graphs showing the multiple sequence alignment (MSA) and the predicted protein structure.

TASK15

Task16