

Cellular Programs

Prof. Dr. Volkhard Helms
Winter Semester 2017/18

Saarland University
Chair of Computational Biology

Assignment 2

Due: 27.11.2018 14:15

Submit your solutions

(a) on paper (printed text) at the beginning of the lecture or in building E21, room 3.14, or

(b) by e-mail with a single PDF attachment to kerstin.gronow-p@bioinformatik.uni-saarland.de

Every student should submit his/her own solution. Plagiarism of solutions will be penalized. Don't forget to label your assignment sheet with your name and Matrikelnummer.

Problem 1: Describe the cell cycle in the parasite *Trypanosoma brucei*. How does it differ from baker's yeast? (0.75 pages of English text).

Problem 2: Speculate whether small molecule inhibitors of cell cycle proteins will have an effect in all eukaryotic organisms.

This paper may give you some ideas on the diversity of the cell cycle among eukaryotes:

Cell cycle control across the eukaryotic kingdom, Hirofumi Harashima, Nico Dissmeyer, Arp Schnittger, Trends in Cell Biology 23, 345–356 (2013)

<http://dx.doi.org/10.1016/j.tcb.2013.03.002>

(0.75 pages of English text).