

# Homework Assignment #14

## Due March 7, beginning of class

**1. Flow Chart (due March 7)** Revise your flow chart. Use for your revisions my comments. (In case you have not yet gotten your flow chart back with my comments, you will get an email from me, when I have your flow chart ready for pickup.) I met already with several of you during office hours, use our progress on your projects for your flow chart revisions as well.

In most of your projects you need several flow charts, one for the bigger picture and sub-flow charts for the necessary details.<sup>26</sup> and then more detailed flow chart elements<sup>27</sup>. For the more detailed flow chart(s) you may want to list the main variables for your program<sup>28</sup>

**2. Program: (Optional)** The first version of your main project program will be due March 9. You might want to start working on the core pieces of your main project program. My major advice, however, is that you write your program successively. Do not write the whole program at once, but instead step by step and test each step as you go.

---

<sup>26</sup>e.g. for Houtan time-loop over tumor growth and radiation application, e.g. for Katie and Narayan time loop over MD steps, e.g. for Katie and Connor your force calculations need further details, e.g. for Connor time loop over MD-step and possible ejection of new mass and collision-event, e.g. Rajasri in your case the analysis later will require a more complex flow chart

<sup>27</sup>e.g. for Houtan how exactly is tumor growth done, e.g. for Katie and Narayan what exactly means one molecular dynamics step, e.g. Connor what exactly means ejection of mass

<sup>28</sup>e.g. for Katie the array(s) for the  $x$ ,  $y$ , and  $z$ -components of your positions; e.g. for Houtan the array for oxygen concentration; e.g. for Alex the array for C or D for each site; e.g. for Luke decide on whether you need for some variables only differences of pressures or all pressures.