ELT 72106 Cellular Interactions

18.5.2015

1. Explain briefly:
   a. Local adhesion in cells?
   b. Micro electrode array (MEA)
   c. Hodgkin-Huxley model
   d. Patch Clamp measurement, what is the difference between voltage and current clamp?

2. a) Describe the main components of the extracellular matrix and their main function?
    b) How these components behave under mechanical loads?

3. a) Describe briefly what is a cellular automata?
    b) Describe how CA can be used to model a patch of cardiac tissue?