Project Work
The groups

- Some pathogens with fully sequenced genomes:
  - HIV
  - HCV
  - HPV
  - Ebola/Marburg
  - Smallpox
  - Mycobacterium tuberculosis
  - Influenza
  - Chlamydomonas reinhardtii
  - Measles virus
  - Salmonella typhii

Each group will select a pathogen of their choice.

Monday, 6 June 2011
The project

Choose either I or II

I.

A. Choose a single protein from the organism, which would be the best suited for a vaccine considering B-cell epitopes.

B. Suggest a polytope consisting of class-I epitopes covering HLA alleles corresponding to at least 85% of the population and class-II epitopes covering at least three DR alleles with different ligand motifs. Select from all proteins in the organism. Consider the processing of both the native context of each epitope, and the final polytope, as well as conservation of the epitopes.

II. Choose one single protein from this organism, which would be the best suited for a vaccine considering B-cell epitopes, class-I T cell epitopes for all or selected supertypes, class-II T-cell epitopes for as many DRB alleles as possible.

You are free to limit your focus to a special population and genotypes, but should justify your choices.
Any other great ideas that will cover several of the methods introduced in this course are also welcome!
The Results

• Make a poster covering the results.
• The poster should only cover the most essential.
• Nice informative figures and easily understandable tables with legends that describe the content satisfactory.
• Describe very briefly the relevant background and the conclusions in the main text.
• Use references (also if you borrow pictures)
Practical information

The poster can be printed out in A0 format in which case Claus Lundegaard will need it no later than Wednesday Morning. Otherwise you need to hang up your poster on the available boards in building 208 before 9.00 Thursday morning.