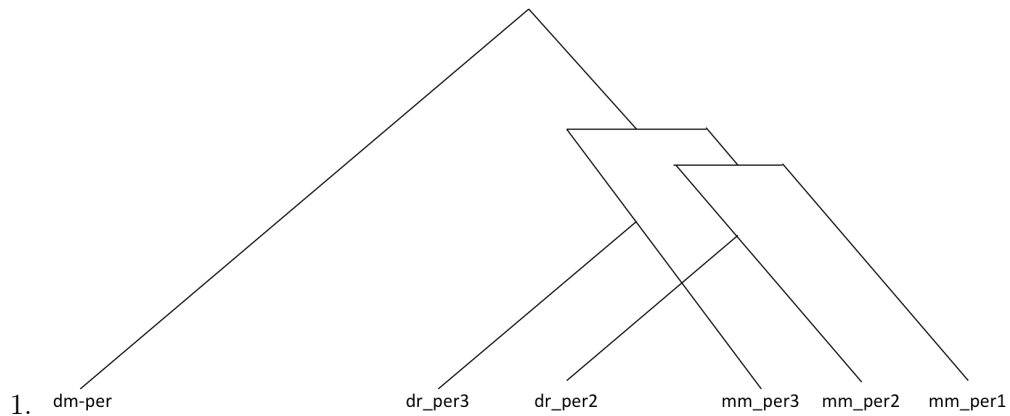


## Series 5

Genomics and bioinformatics - Week 6 - September 23, 2012

### 1 Phylogenetic trees



**The gene tree**

2.
  - An orthologous pair: **dr\_per2** and **mm\_per2**
  - A paralogous pair in the same species: **mm\_per1** and **mm\_per2**
  - A paralogous pair in different species: **mm\_per1** and **dr\_per2**

### 2 Another HMM

#### 2.1 The Viterbi algorithm

The filled table

#### 2.2 Using R

Comments...