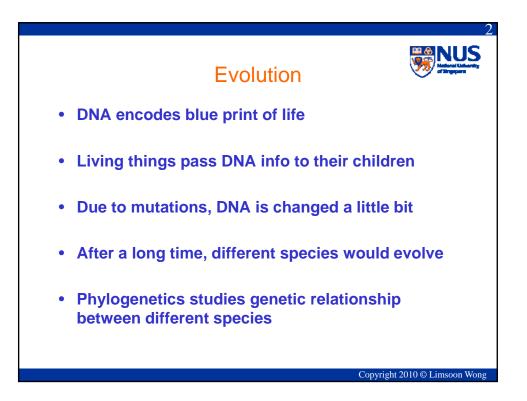
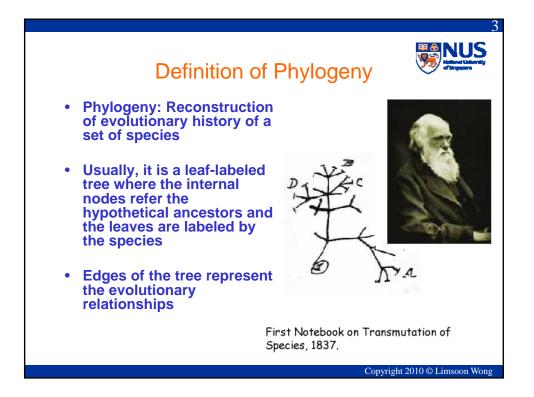
For written notes on this lecture, please read chapter 11 of *The Practical Bioinformatician*, Chapters 7 & 8 of *Algorithms in Bioinformatics: A Practical Introduction*, and Chapter 17 of *Algorithms on Strings, Trees, and Sequences*.

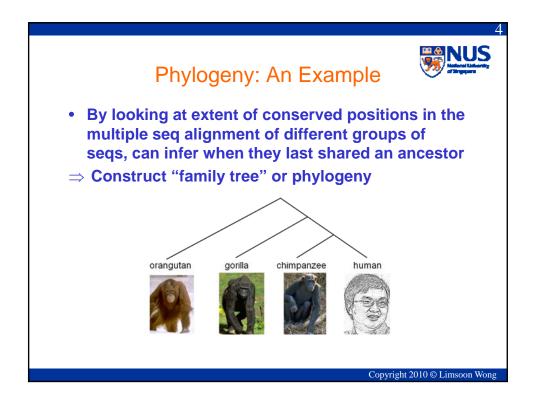
> CS2220 Introduction to Computational Biology Lecture 5: Phylogenetic Trees

> > Limsoon Wong 11 February 2010





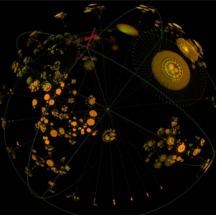




## Application of Phylogeny

## \_\_\_\_

- Understanding history of life
- Understanding rapidly mutating viruses (like HIV)
- Predict protein/RNA struct
- Do multiple seq alignment
- Explain and predict gene expression
- Explain and predict ligands
- Design enhanced organisms
- Design drug



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