



Department
Biology, Chemistry, Pharmacy

AG Nowick Human Biology and Primate Evolution

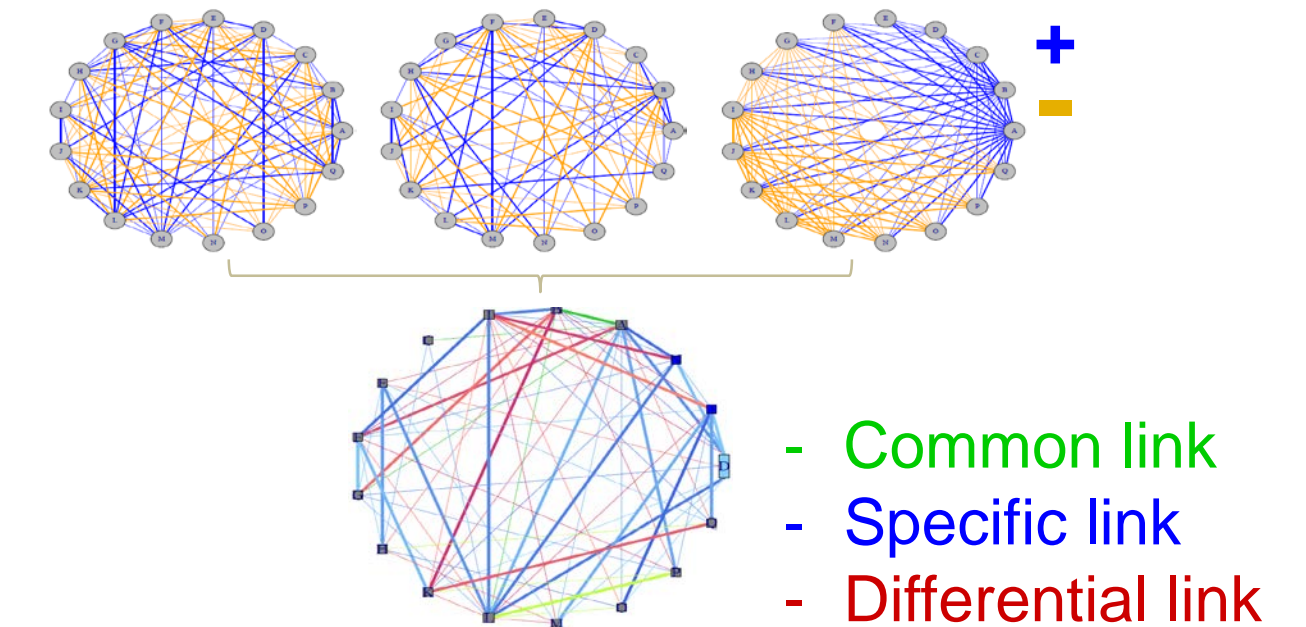
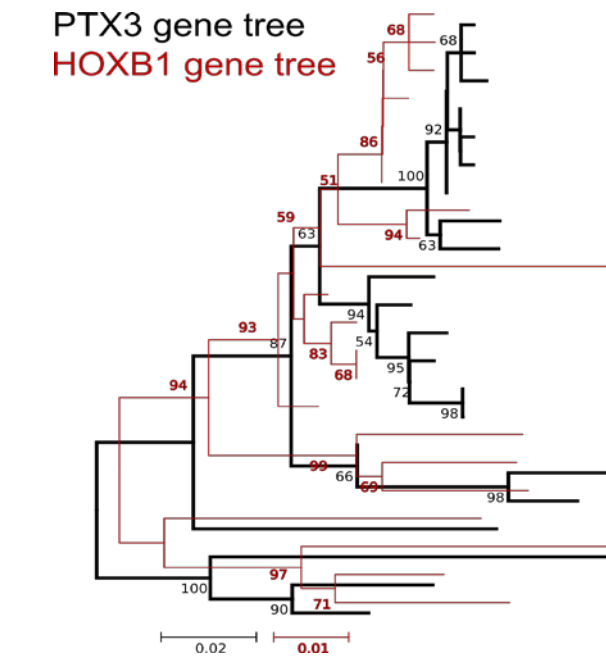
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We do research on ...

Our group studies the **evolution of primates**. We are especially interested in the molecular forces that shape phenotypic differences between primate species particularly in **brain and cognition**. Mainly we focus on the impact of **transcription factors and non-coding RNAs** on differences in transcriptomes, **gene regulatory networks**, and ultimately the phenotype. We are also studying genetic and transcriptomic changes in individuals with **cognitive disorders** and sometimes branch out to investigating rodents, birds, lizards, or insects. We are using **experimental as well as computational approaches** to investigate the evolution of primate TFs.



We are also interested in ...

- Human population genomics
- Monoallelic expression and how it impacts cellular diversity
- Effects of radioactivity on brain size and behavior
- Evolution of cis-regulatory elements

We are looking for expertise in ...

- Functional investigations of non-coding RNAs
- Neural circuits and behavior
- Reprogramming of induced pluripotent stem cells

We offer thesis topics on ...

- ✓ Evolution of transcription factors and non-coding RNAs
- ✓ Transcription factors involved in cognitive disorders
- ✓ Gene regulatory networks in neuronal development and disease
- ✓ Primate induced pluripotent stem cells