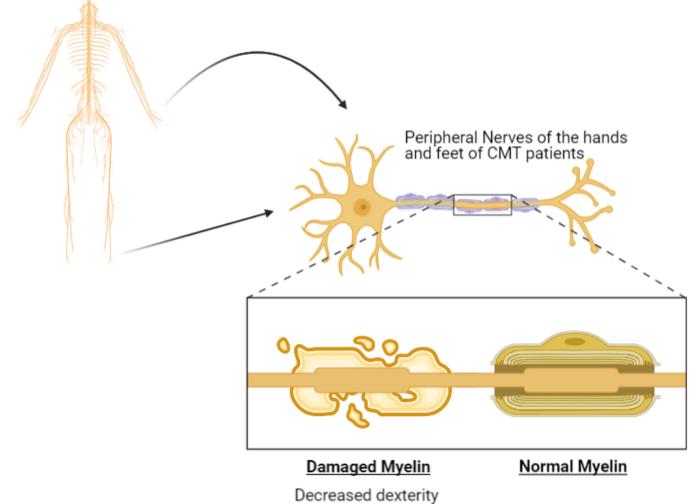
# Charcot-Marie-Tooth Disease

Collin Nguyen



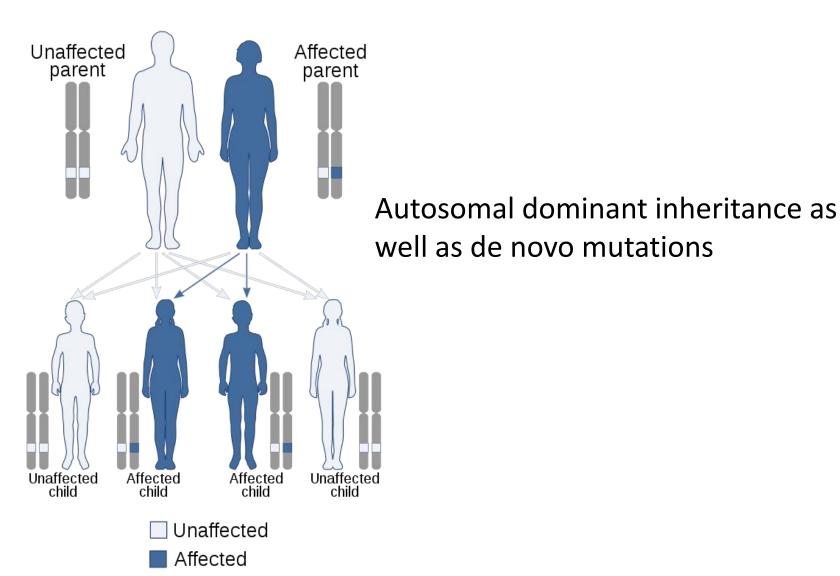
## What is Charcot-Marie-Tooth (CMT) Disease?



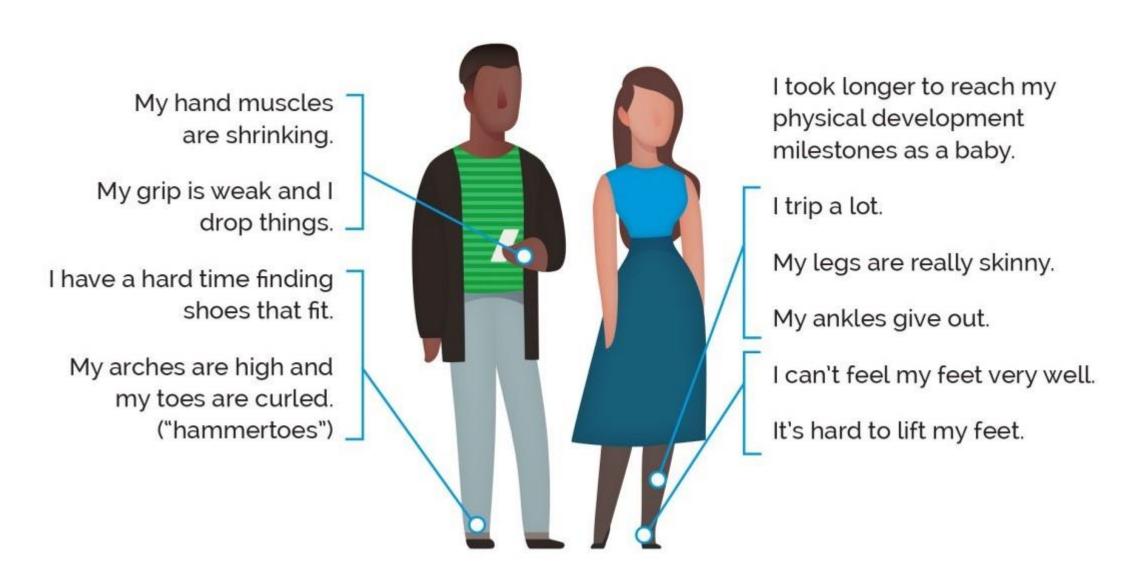
Results in nerve damage to peripheral nerves in the legs and arms resulting in an inability to properly use the muscles in these areas

### **How is CMT inherited?**

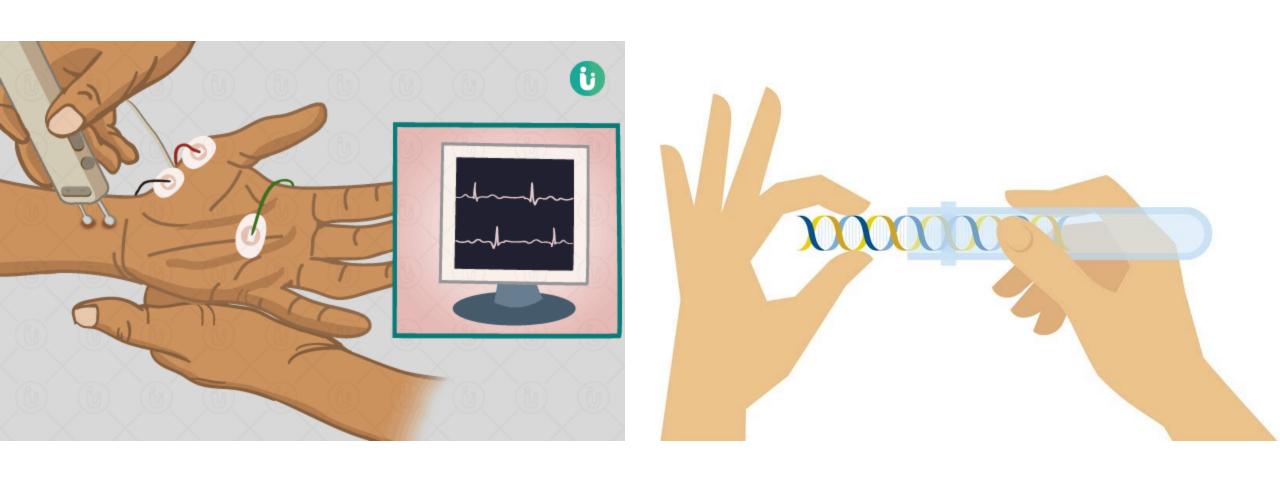
#### **Autosomal dominant**



# What are the symptoms of CMT?



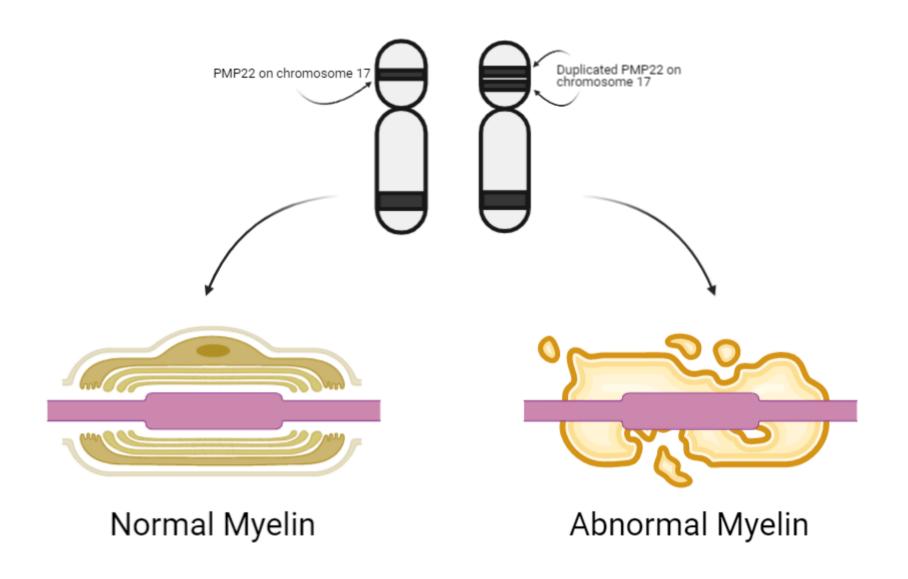
# How is CMT diagnosed and treated?



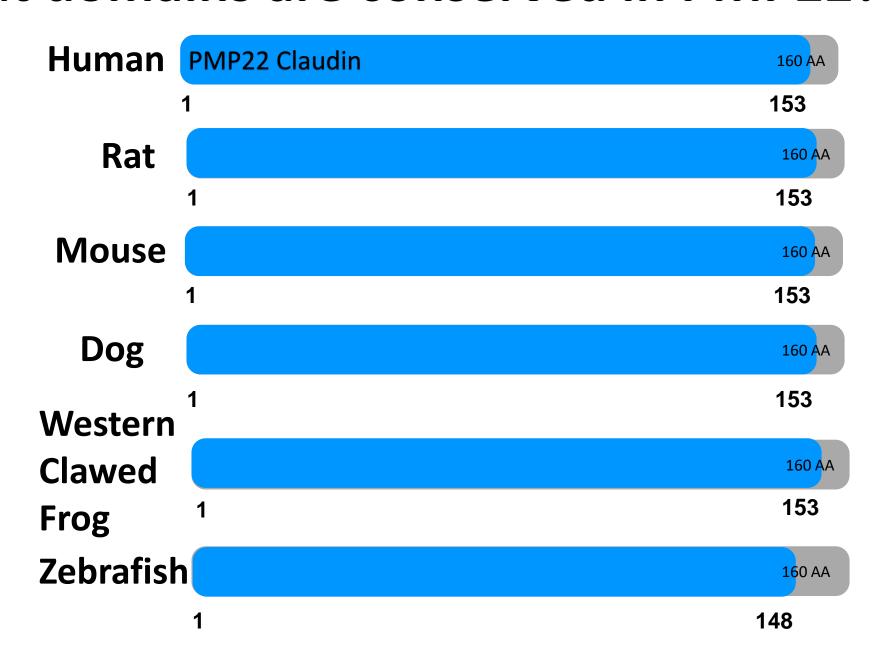
**Nerve Conduction Studies** 

**Genetic Testing** 

### What causes CMT1A?



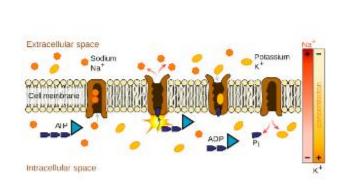
#### What domains are conserved in PMP22?

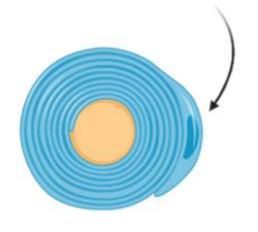


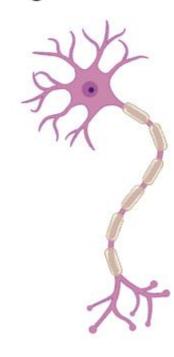
#### CMT1A and PMP22



#### Molecular Function Cellular Component Biological Process



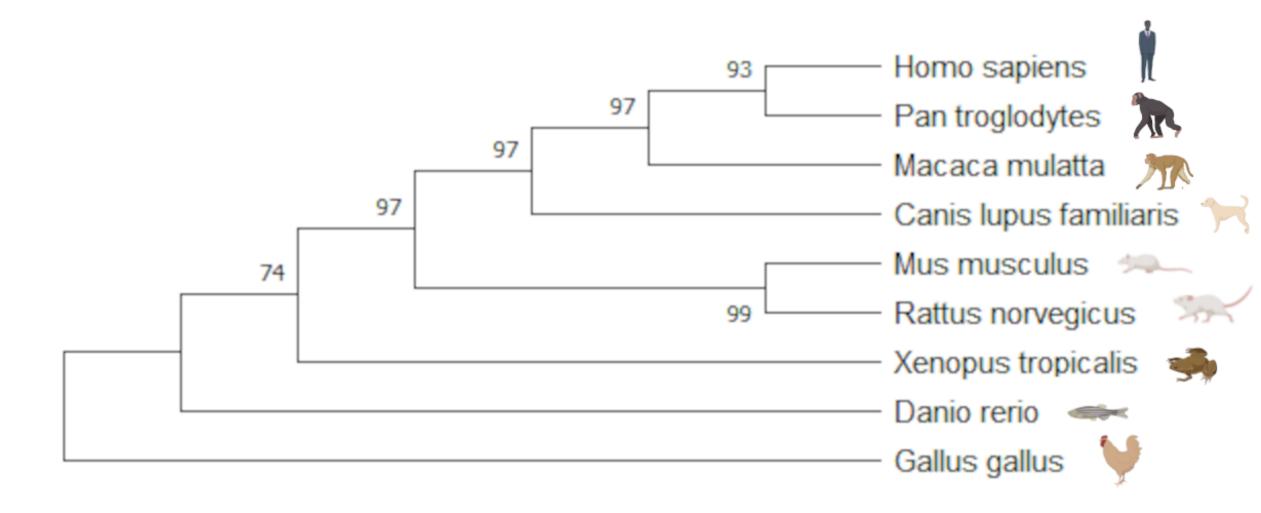




Scwann Cells

Myelination

### What are the PMP22 homologs?



### What is the gap in knowledge?

How exactly PMP22 causes abnormal myelin function resulting in CMT1A

