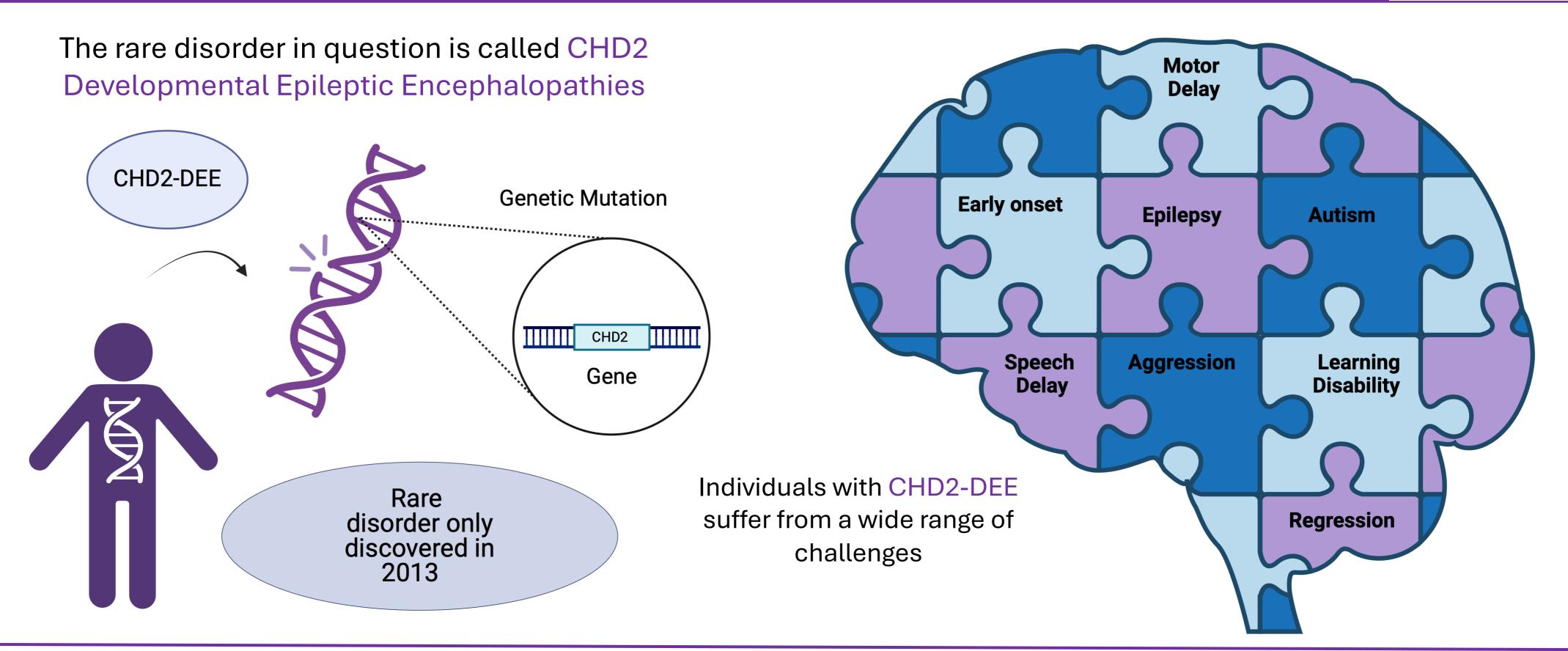
Getting to the root of a rare disorder – "CHD2 What do you really do?"



Ciara Mc Mahon, Dr Gary Brennan







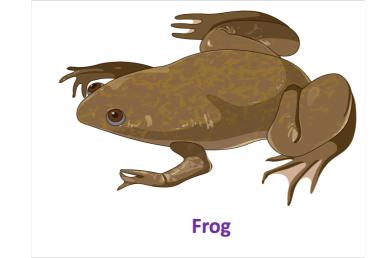


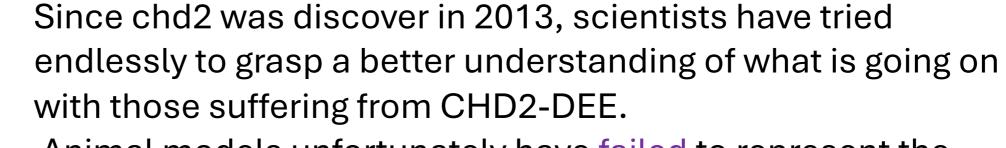


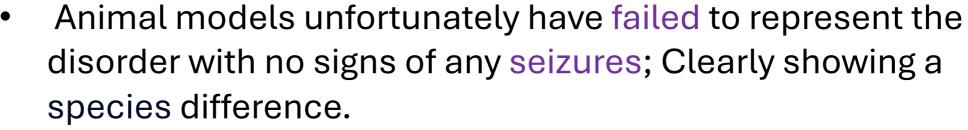
Currently those with CHD2-DEE are drug resistant to most therapeutics available.









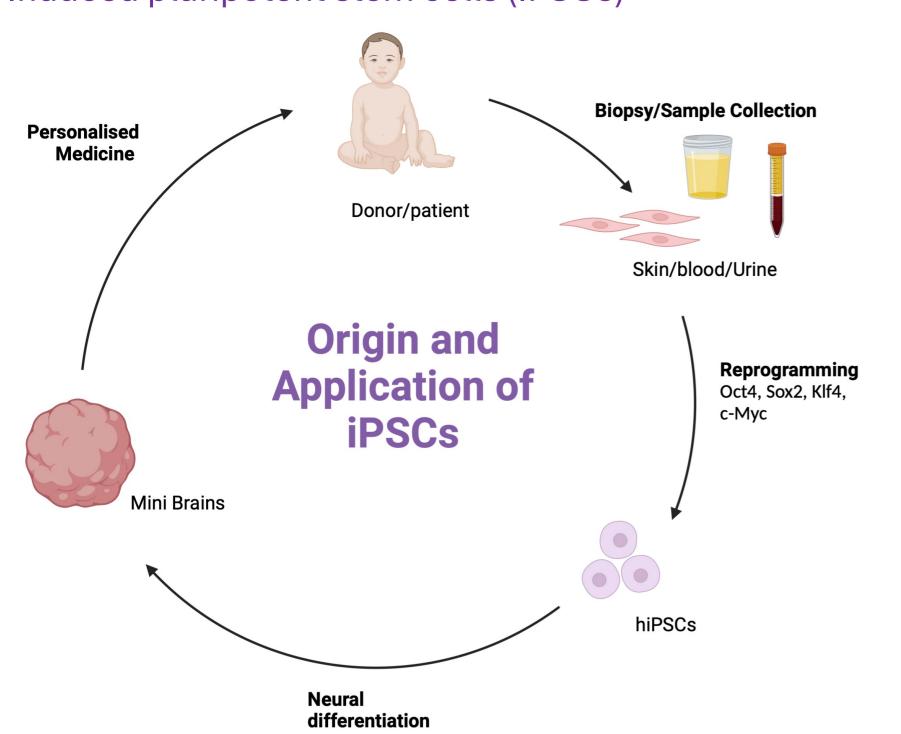






Luca

Induced pluripotent stem cells (IPSCs)

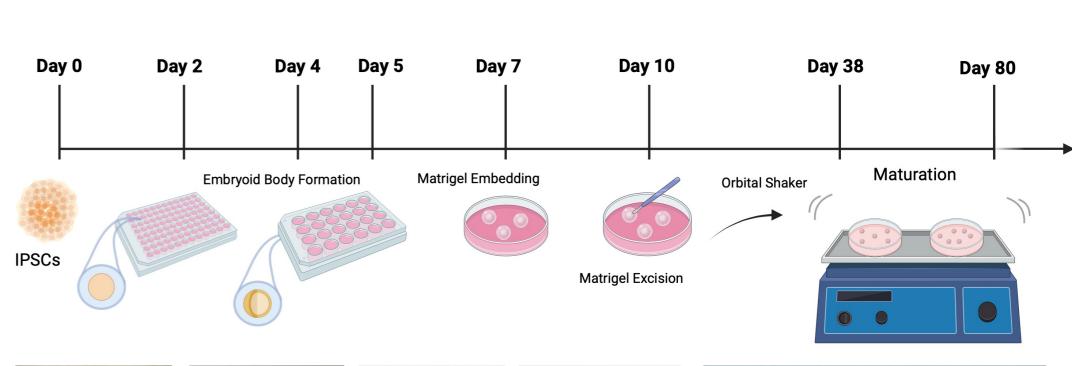


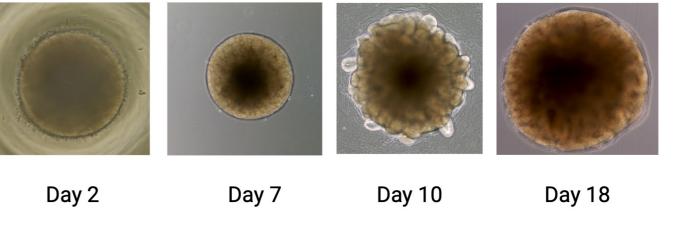
Mice

- Mini brains are ideal for this research since CHD2-DEE is a brain restricted disorder.
- Mini brains mimic the normal human brain development. Allowing researchers like myself to get a better understanding of what is going wrong and make more personalised medicine

- To overcome these species difference, a human based model is the best approach.
- Using stem cell research my project focuses on making mini brains from those suffering from CHD2-DEE.

IPSCs are the stem cells used. They are made from individuals very own cells meaning they retain the mutation that causes their disorder and can be used for personalised research/medicine.







Mini brains

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