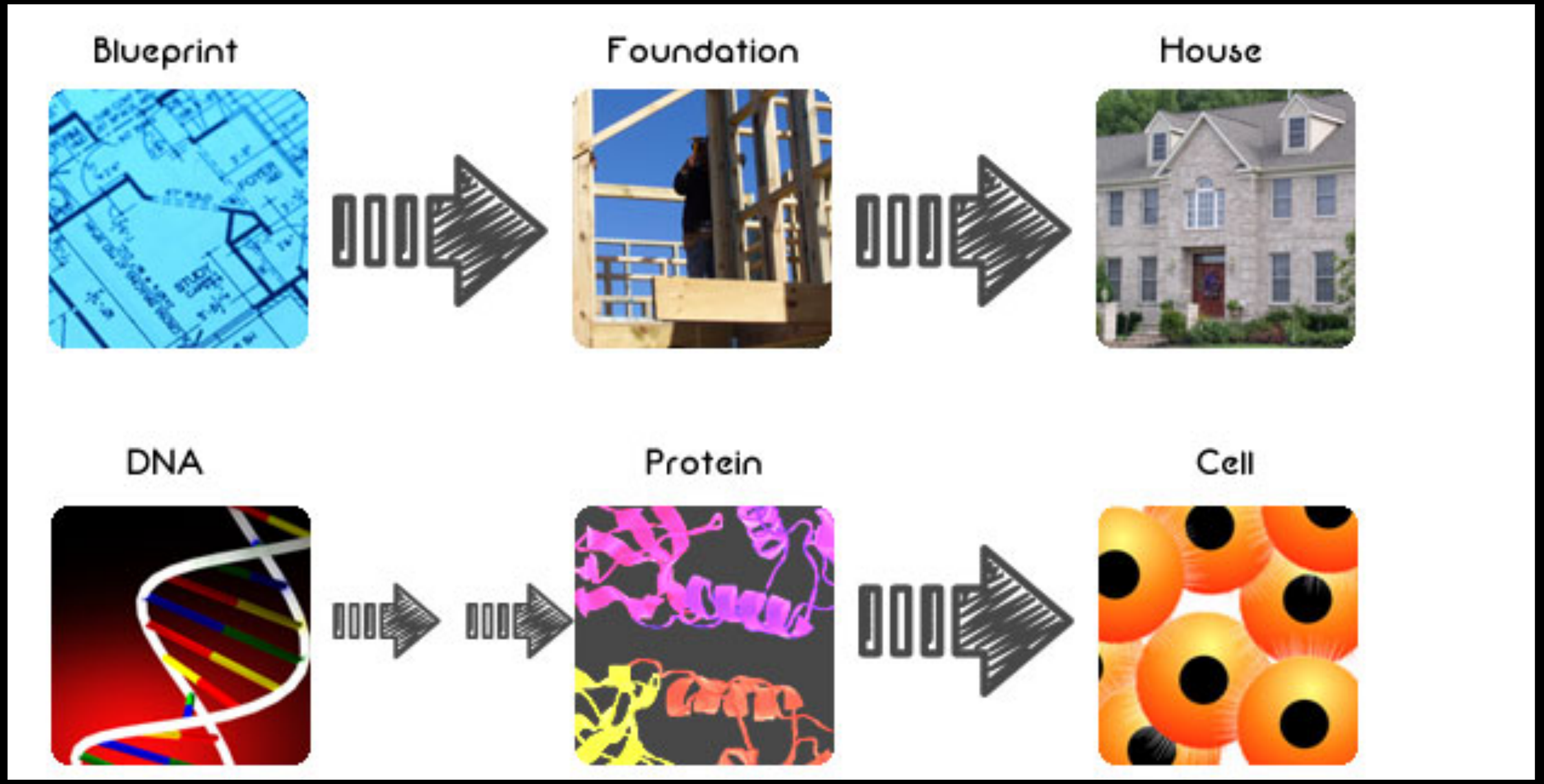
Neuroscientist for a day: how to use worms to study the brain

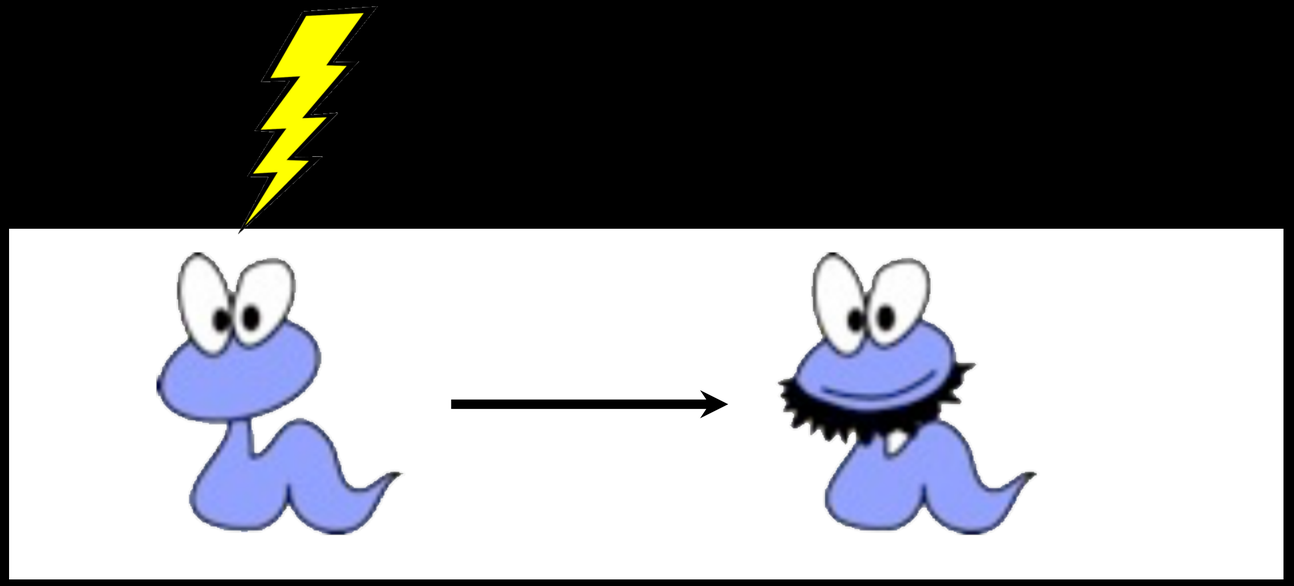
What does a graduate student do?

Our genes tell the story of who we are

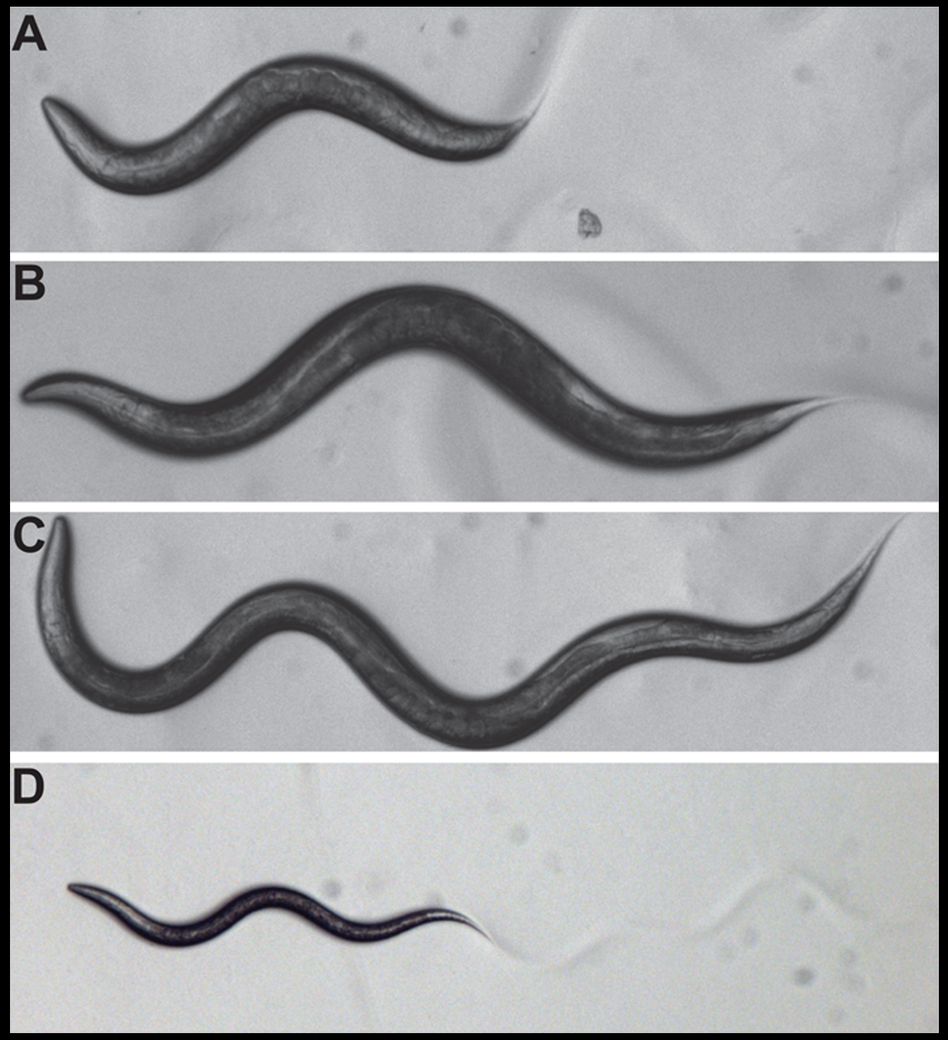


Mutations are all around us

How can we find interesting genes?



Which do you think is the mutant?

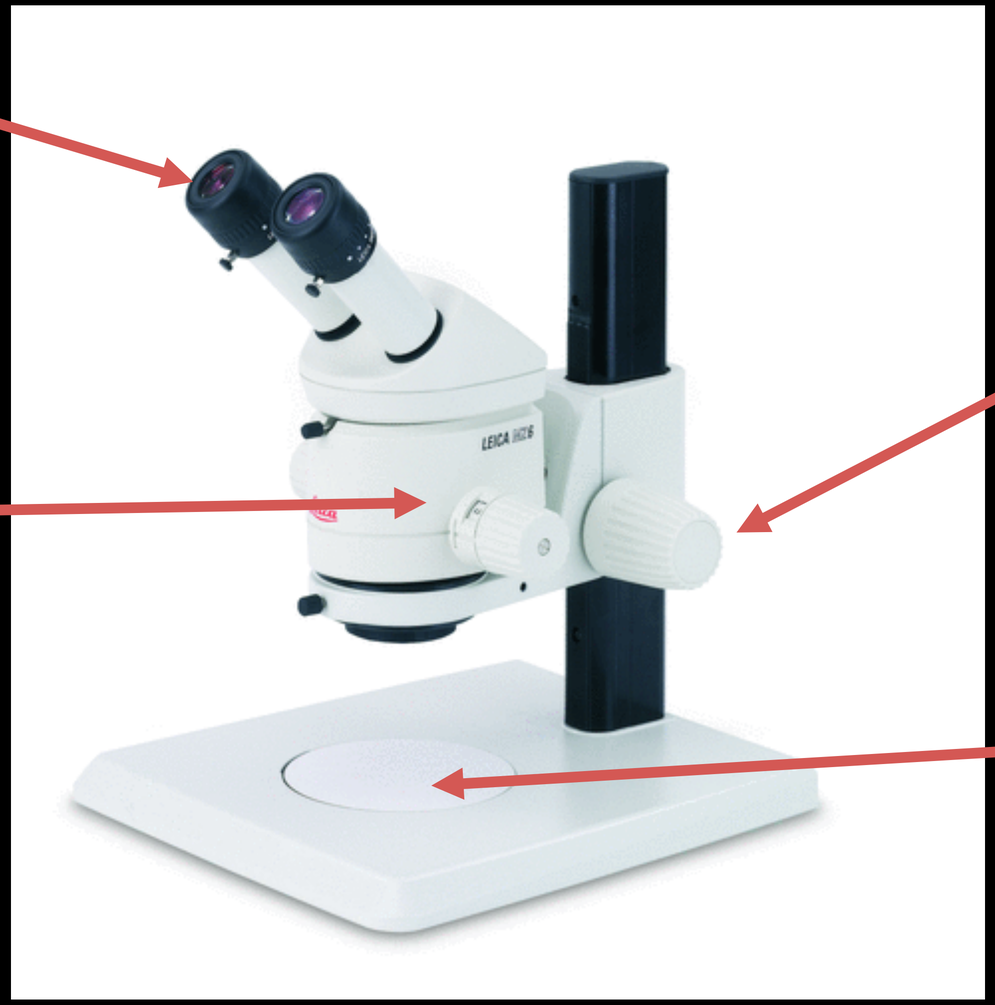


Can you find the mutant?

How to use a microscope

Eye pieces

Magnification
(zoom)

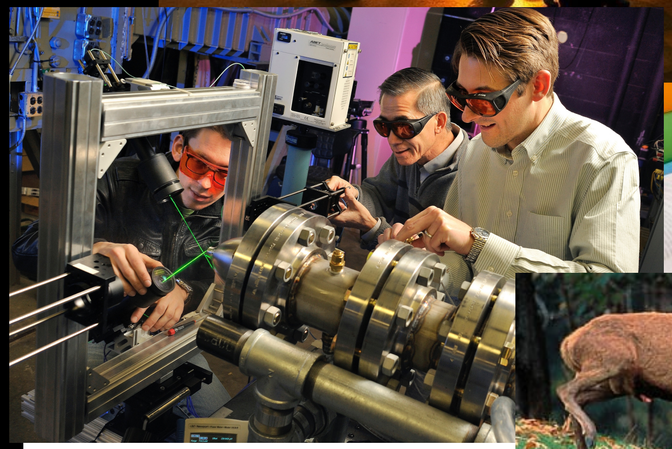


Focus knob

Sample goes here
(Don’t open the plates!)

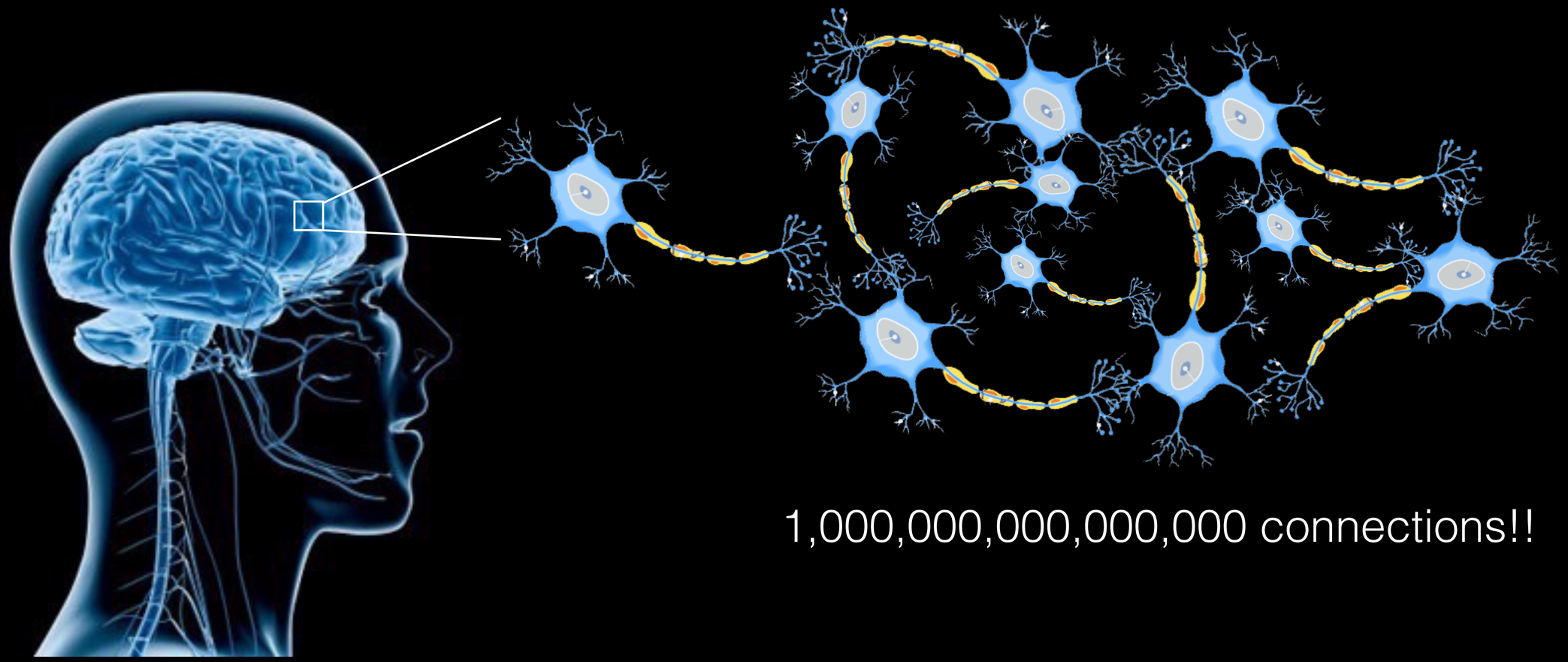
MuV mutant

Everything we do relies on our brains



Our brain is a highly complex organ

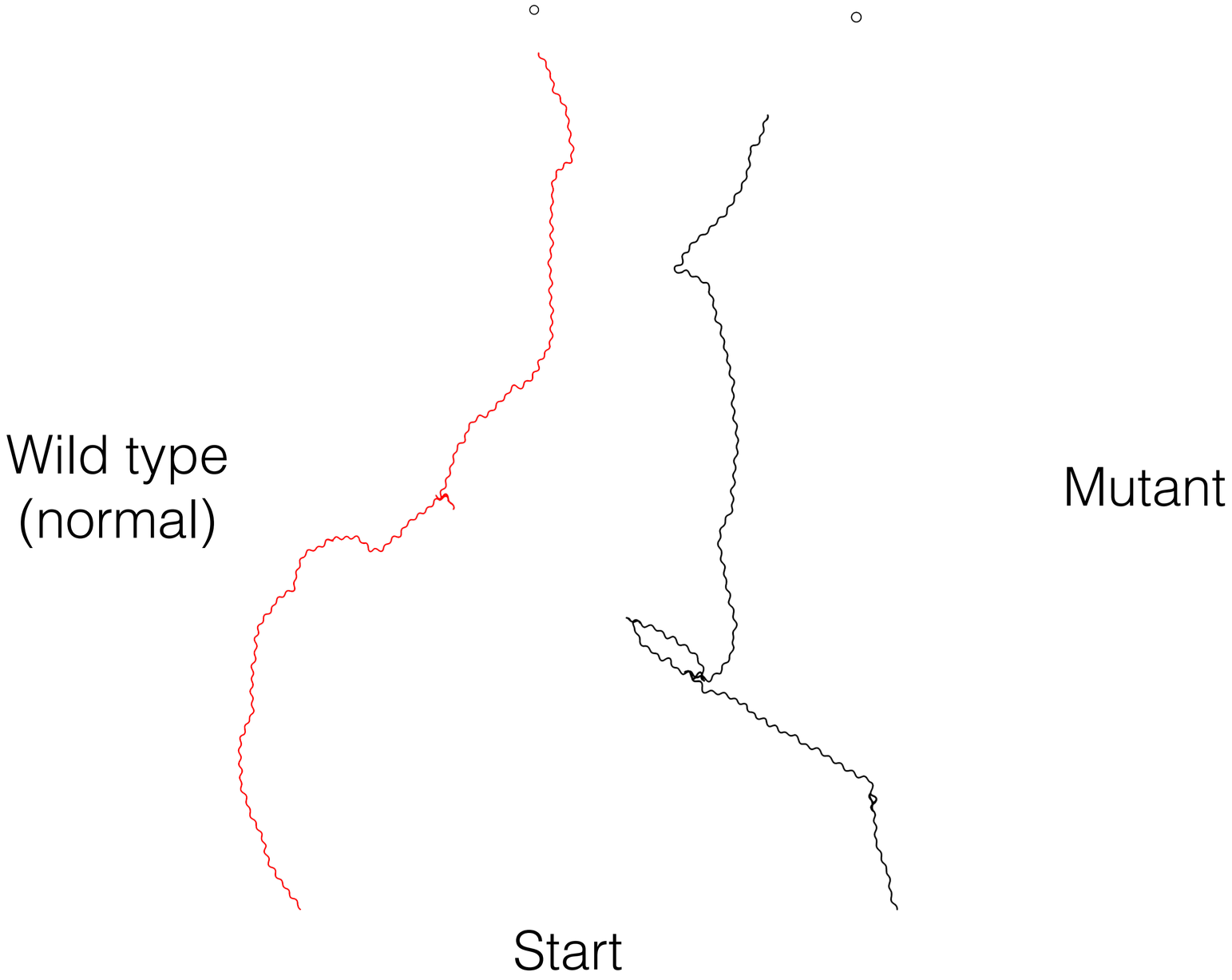
80,000,000,000 neurons!

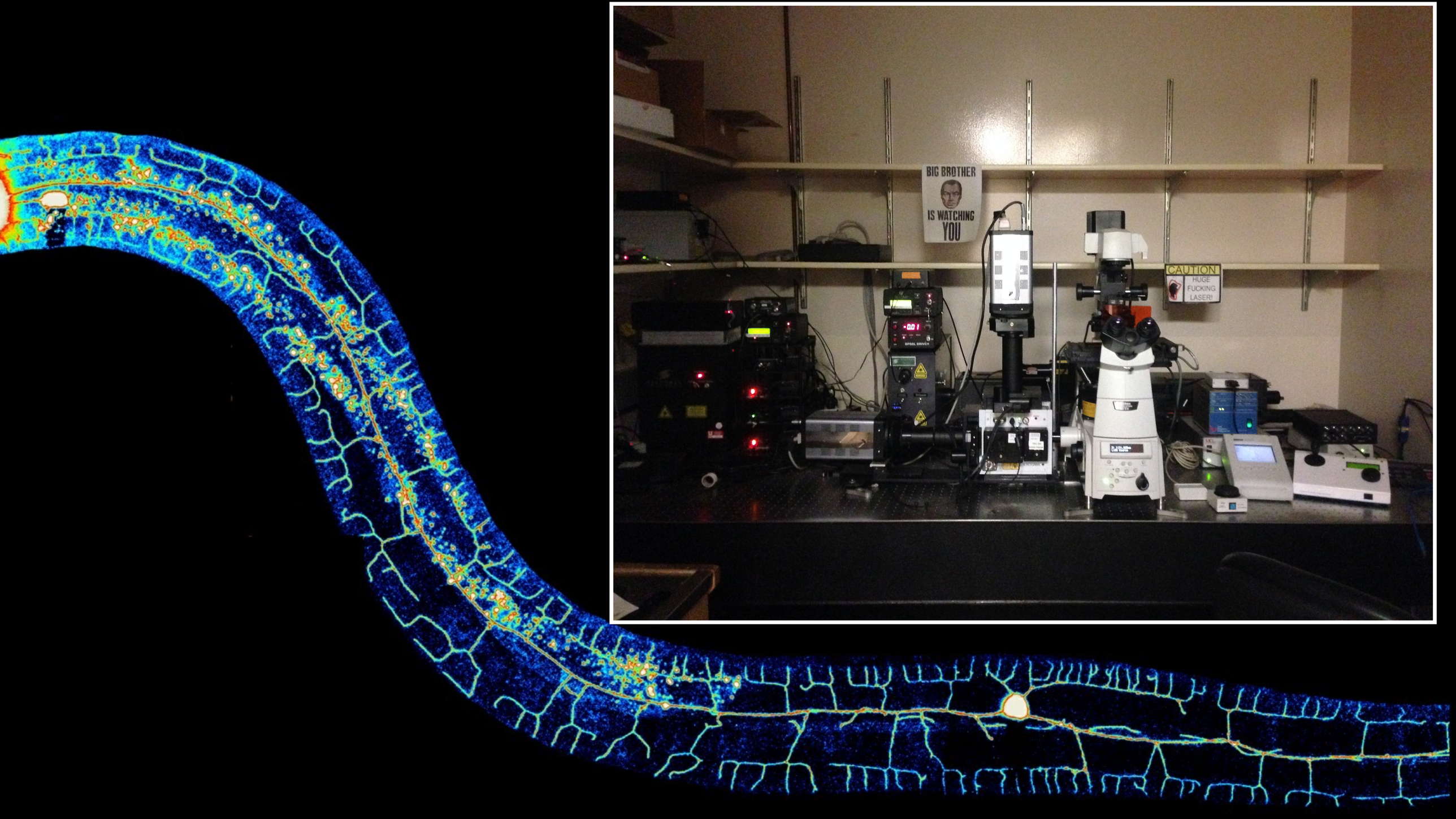
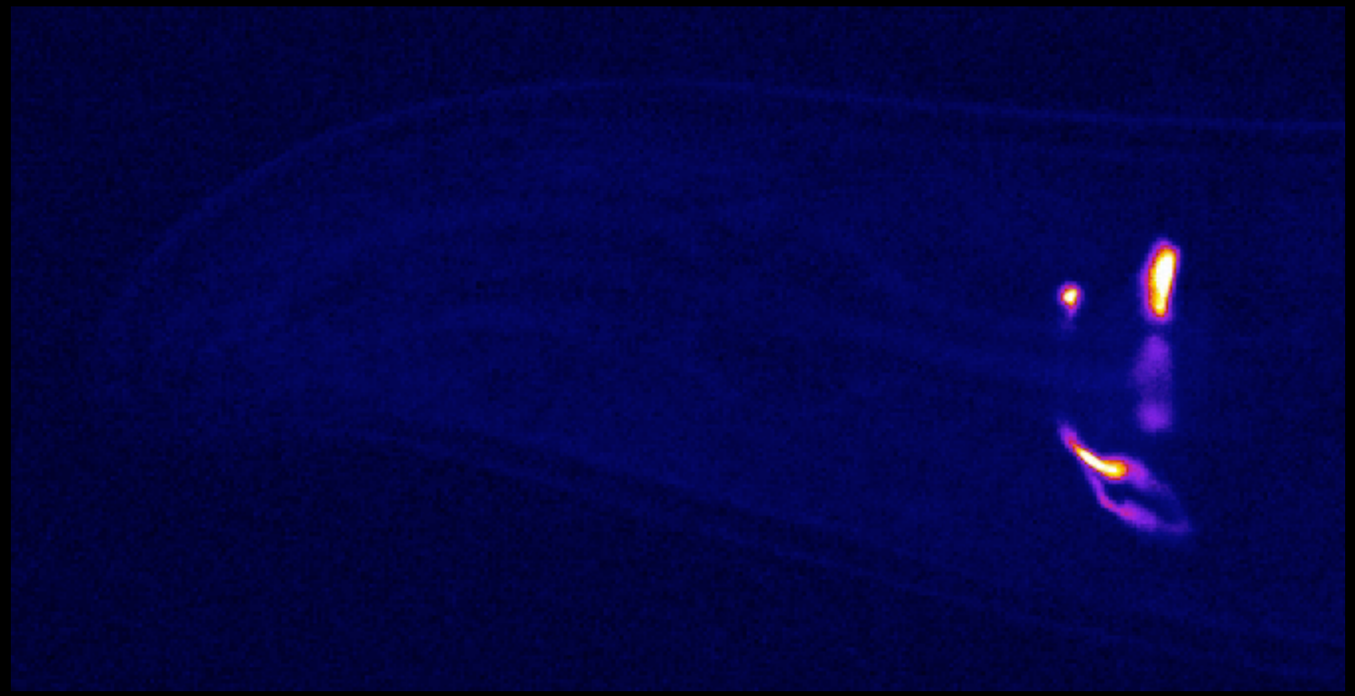


1,000,000,000,000,000 connections!!

Some mutants look normal on the outside

How do we study normal-looking mutants?




BIG BROTHER
IS WATCHING
YOU
CAUTION
HUGE
FUCKING
LASER!