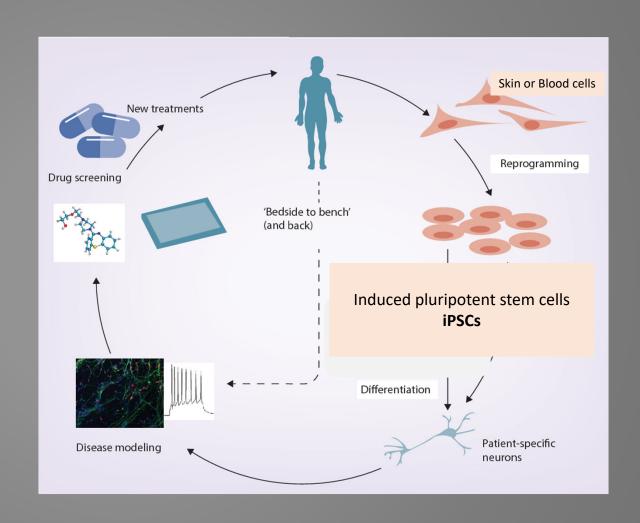


SCHOOL OF MEDICINE AND PUBLIC HEALTH

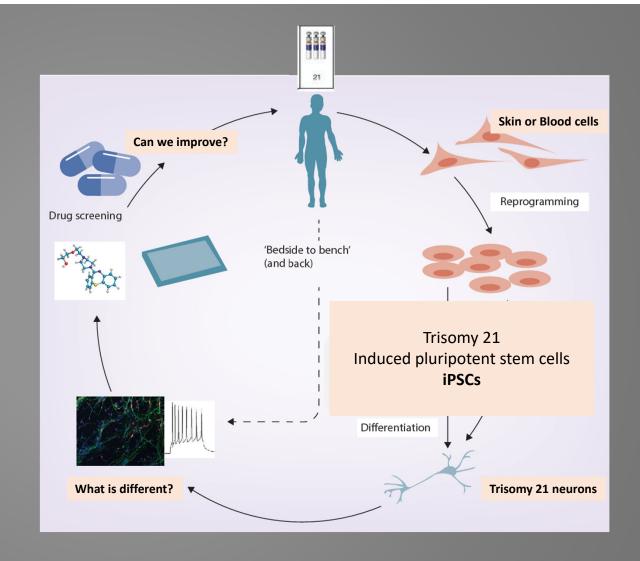
Induced pluripotent stem cells - iPSCs

- Stem cells can be reprogrammed from patient's skin or blood cells.
- ☐ Induced pluripotent stem cells grow indefinitely.
- ☐ Induced pluripotent stem cells can be coaxed to turn into any cell type.

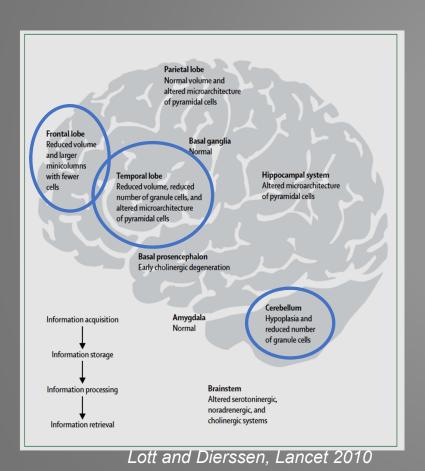


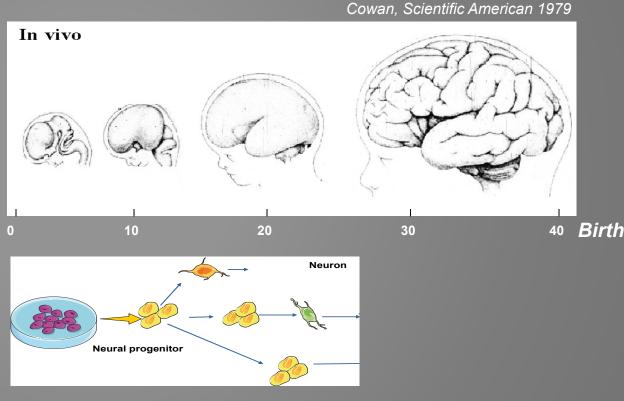
Trisomy 21 iPSCs

- Reprogrammed from skin or blood from individuals with Down syndrome.
- Stored in the lab for future use.
- Can be turned into neurons to study brain development and function.

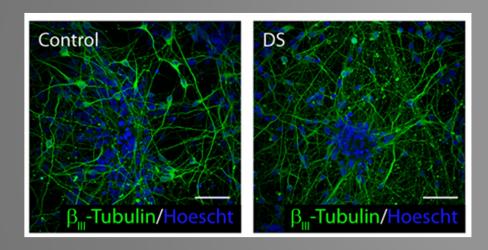


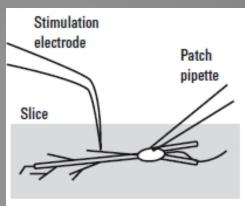
Fewer neurons in brains of individuals with Down syndrome



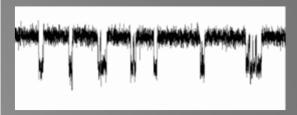


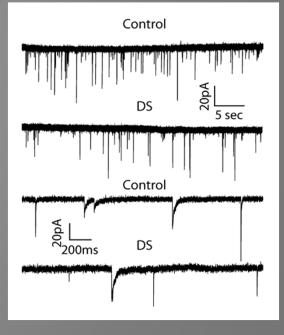
Trisomy 21 neuron function











Trisomy 21 iPSCs

- Reprogrammed from skin or blood from individuals with Down syndrome.
- Stored in the lab for future use.
- Can be turned into neurons to study brain development and function.

