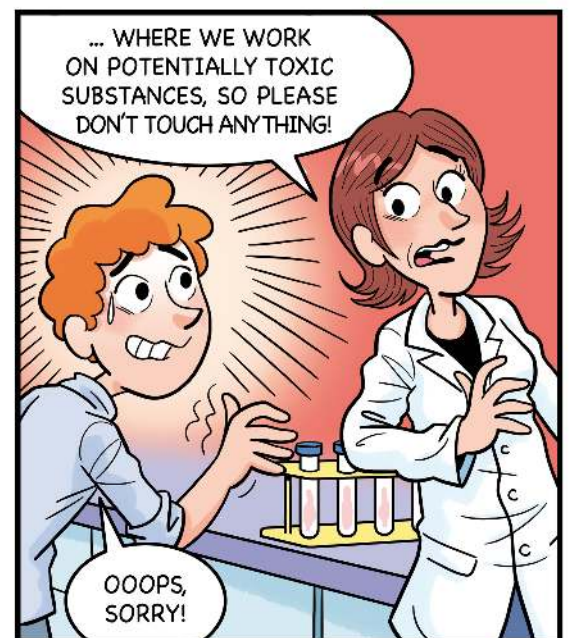
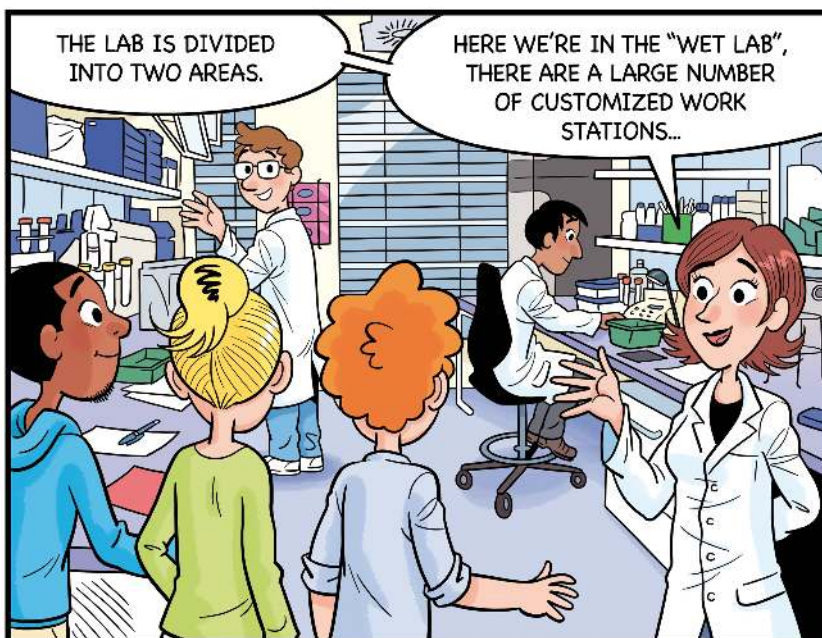
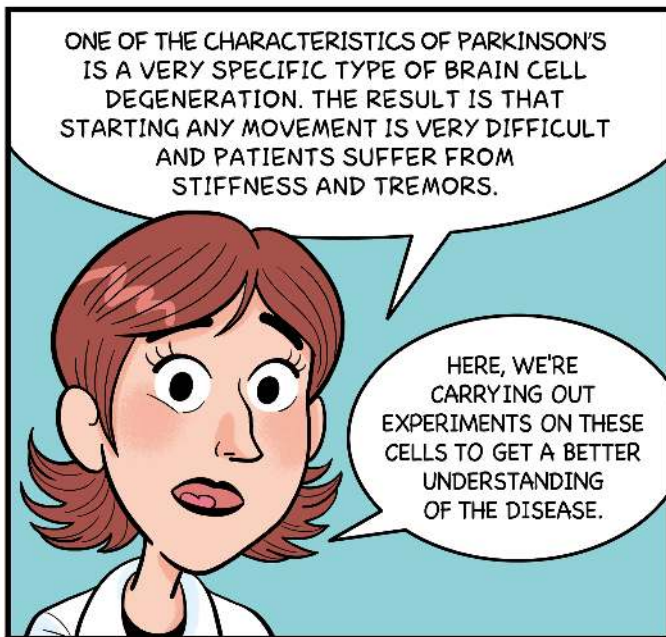
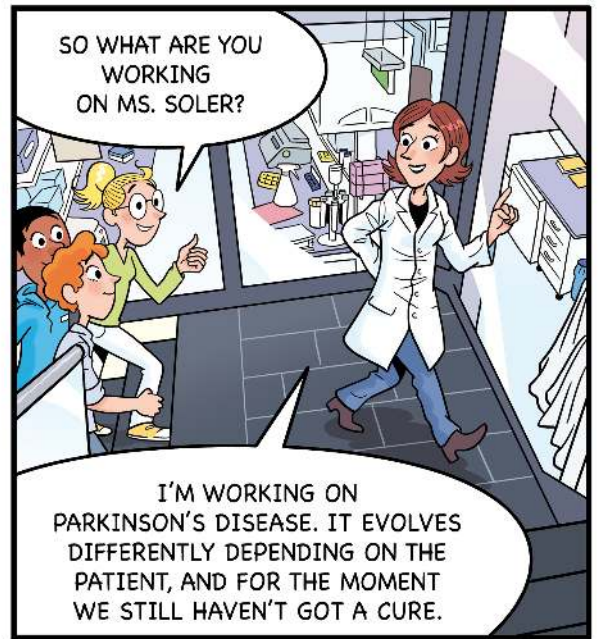
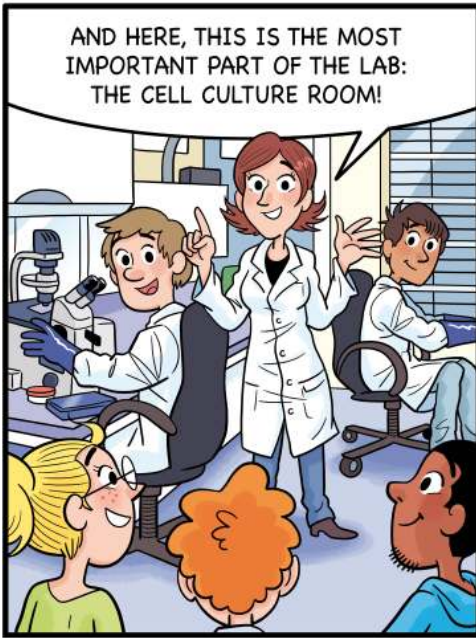


3. Using "mini-brains" to investigate Parkinson's disease



*Luxembourg Centre for Systems Biomedicine

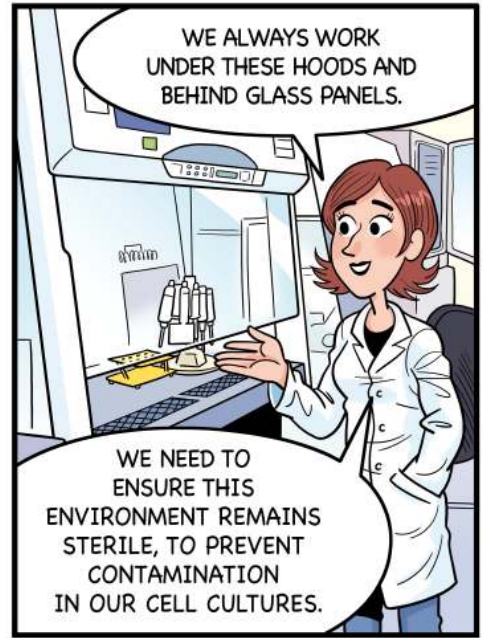


AND HERE, THIS IS THE MOST IMPORTANT PART OF THE LAB: THE CELL CULTURE ROOM!



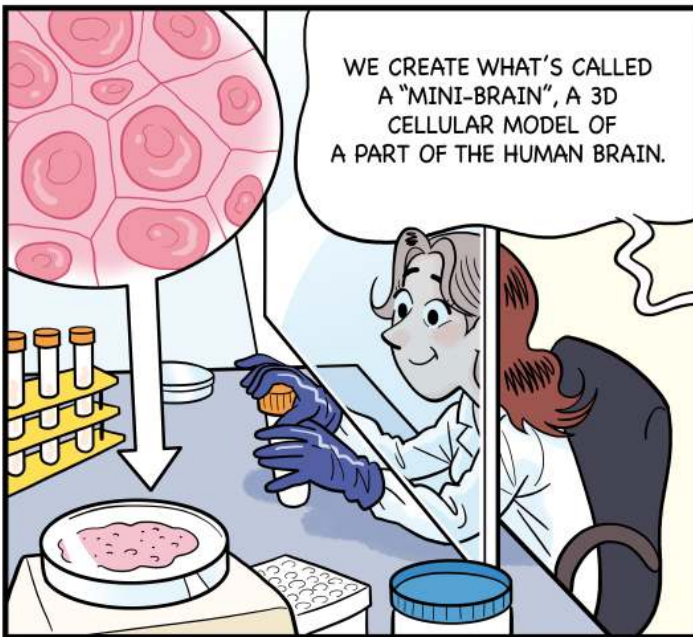
WE USE INCUBATORS TO PROVIDE THE CELLS WITH THE BEST POSSIBLE CONDITIONS FOR THEIR DEVELOPMENT.

I BET YOU THE RIGHT TEMPERATURE IS 37°C...

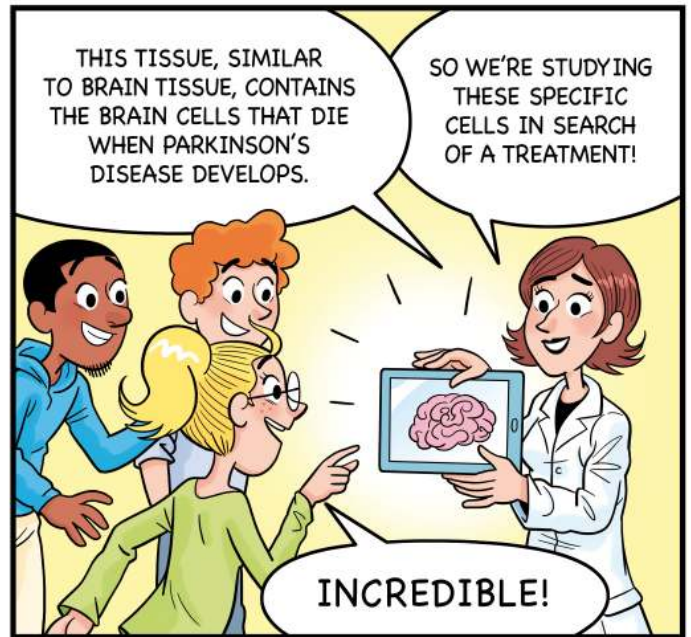


WE ALWAYS WORK UNDER THESE HOODS AND BEHIND GLASS PANELS.

WE NEED TO ENSURE THIS ENVIRONMENT REMAINS STERILE, TO PREVENT CONTAMINATION IN OUR CELL CULTURES.



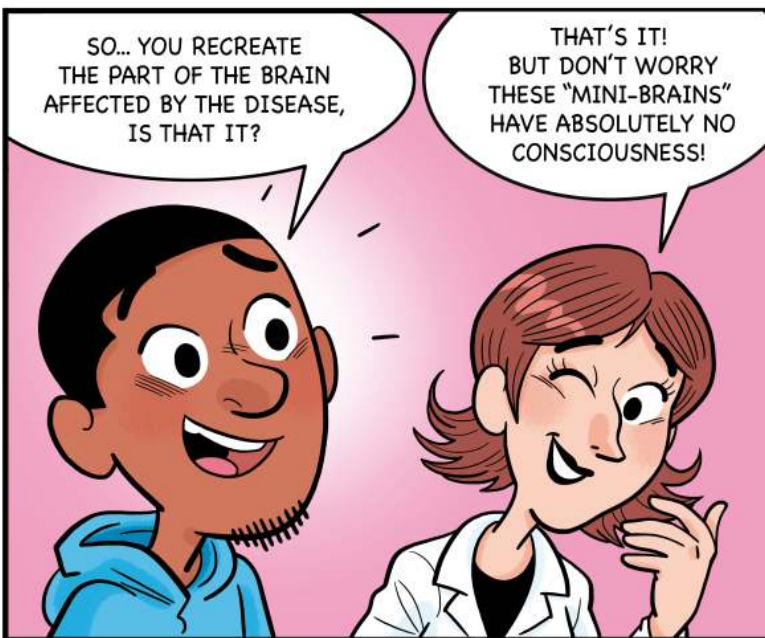
WE CREATE WHAT'S CALLED A "MINI-BRAIN", A 3D CELLULAR MODEL OF A PART OF THE HUMAN BRAIN.



THIS TISSUE, SIMILAR TO BRAIN TISSUE, CONTAINS THE BRAIN CELLS THAT DIE WHEN PARKINSON'S DISEASE DEVELOPS.

SO WE'RE STUDYING THESE SPECIFIC CELLS IN SEARCH OF A TREATMENT!

INCREDIBLE!



SO... YOU RECREATE THE PART OF THE BRAIN AFFECTED BY THE DISEASE, IS THAT IT?

THAT'S IT! BUT DON'T WORRY THESE "MINI-BRAINS" HAVE ABSOLUTELY NO CONSCIOUSNESS!



RIGHT, COME ON, WE'LL GO AND DO A FEW EXPERIMENTS IN THE SCIENTEENS LAB!