The role of neurodegeneration-associated proteins in ALS and medulloblastoma

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PROPOSITIONS

Belonging to the thesis

The role of neurodegeneration-associated proteins in ALS and medulloblastoma

Amanda Assoni

1. There is no effective treatment for Amyotrophic Lateral Sclerosis. Therefore, we urgently need to find potential therapeutic targets for this devastating disease. (This thesis)

2. Neurodegenerative late- onset diseases are challenging to study because there is no ideal model to be used. (This thesis)

3. We are aware of the limitations of IPSC models… However, using them might help understand the earliest phenotypes of cells, when patients are asymptomatic. (This thesis)

4. Transposing knowledge acquired from studies of other diseases could save years of investigation to find new therapy targets for ALS. (This thesis)

5. Protein translation rates are decreased in motor neurons generated from ALS6 patient-derived iPS cells due to aberrant cytoplasmic localization of FUS protein. (This thesis)

6. There is a link between inflammation, protein translation, neurodegeneration, and tumorigenesis. (This thesis)

7. Science and everyday life cannot and should not be separated. (Rosalind Franklin)