











## The nuclear tau as an early molecular marker of Alzheimer's disease

- The results showed that the AT8 epitope disappears in senile neurons respect to cells from younger subjects, indicating a possible role of AT8 in the ectopic activation of the cell cycle in differentiated cells.
- These data improve the knowledge on the role of nuclear tau in the neuronal differentiation and cell degeneration in AD, involving the presence/absence of AT8 in the nucleolus of neurons related to a re-entering in the cell cycle.
- The molecular mechanisms related to the start of AD are not yet clear, so their understanding is very relevant if we consider the social impact of this disease in the human populations.