

Giornata dello Specializzando 2019



MALATTIA DI
ALZHEIMER,
ENTITÀ
BIOLOGICA
VS ENTITÀ
CLINICA

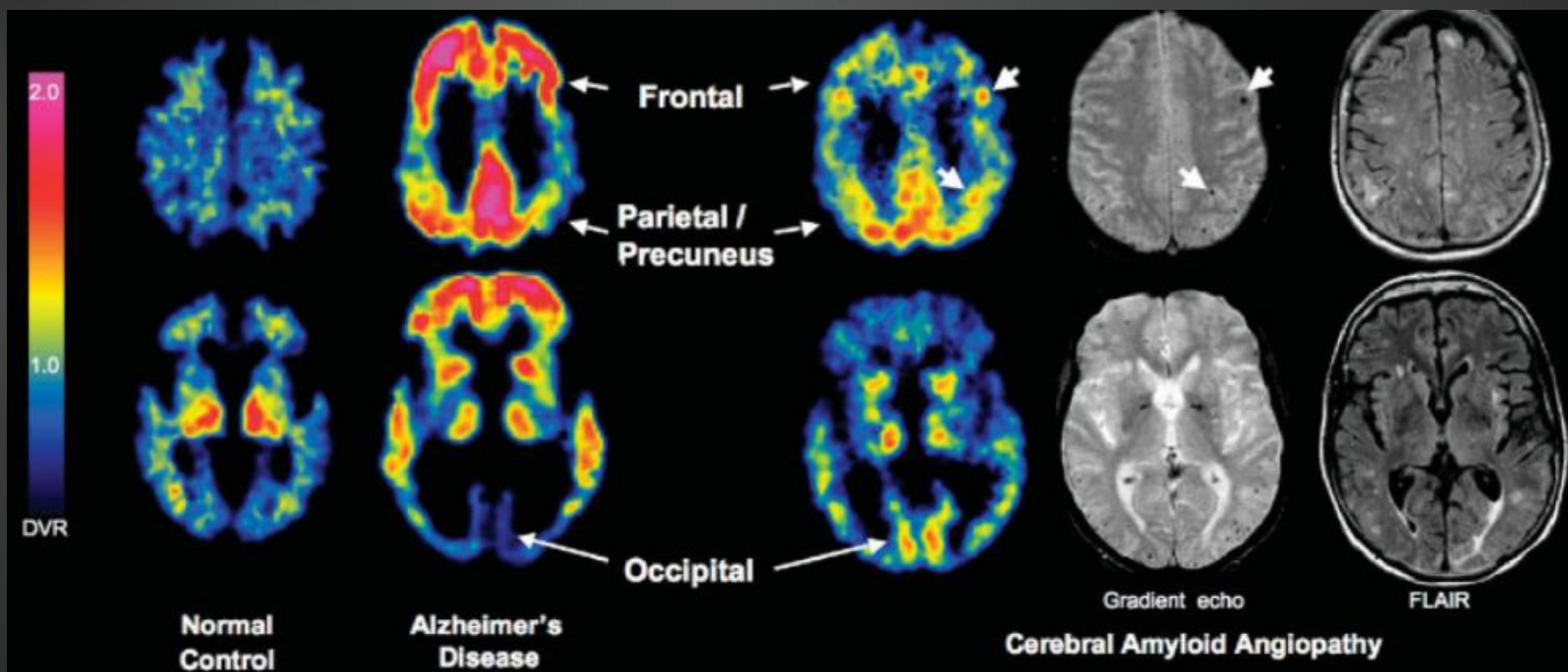
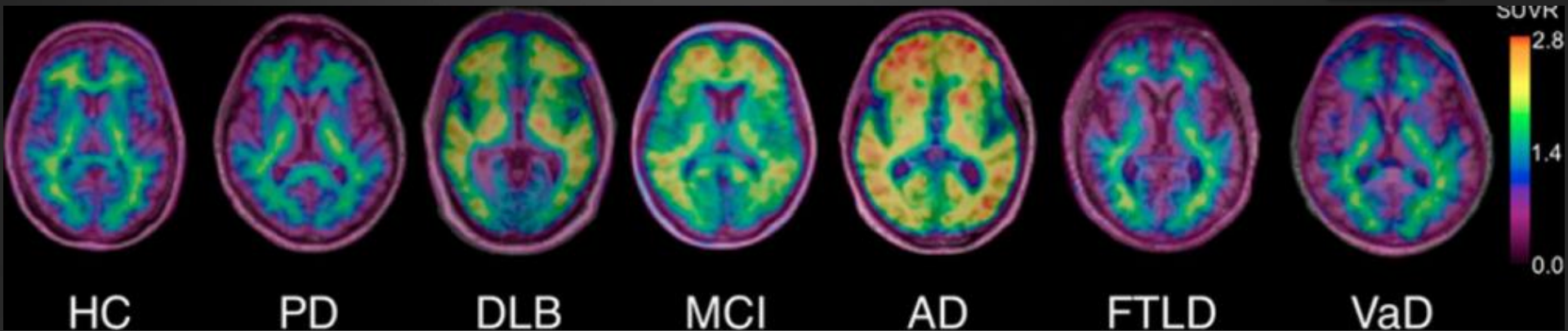
MARCO
CARRARO

NIA-AA Research Framework

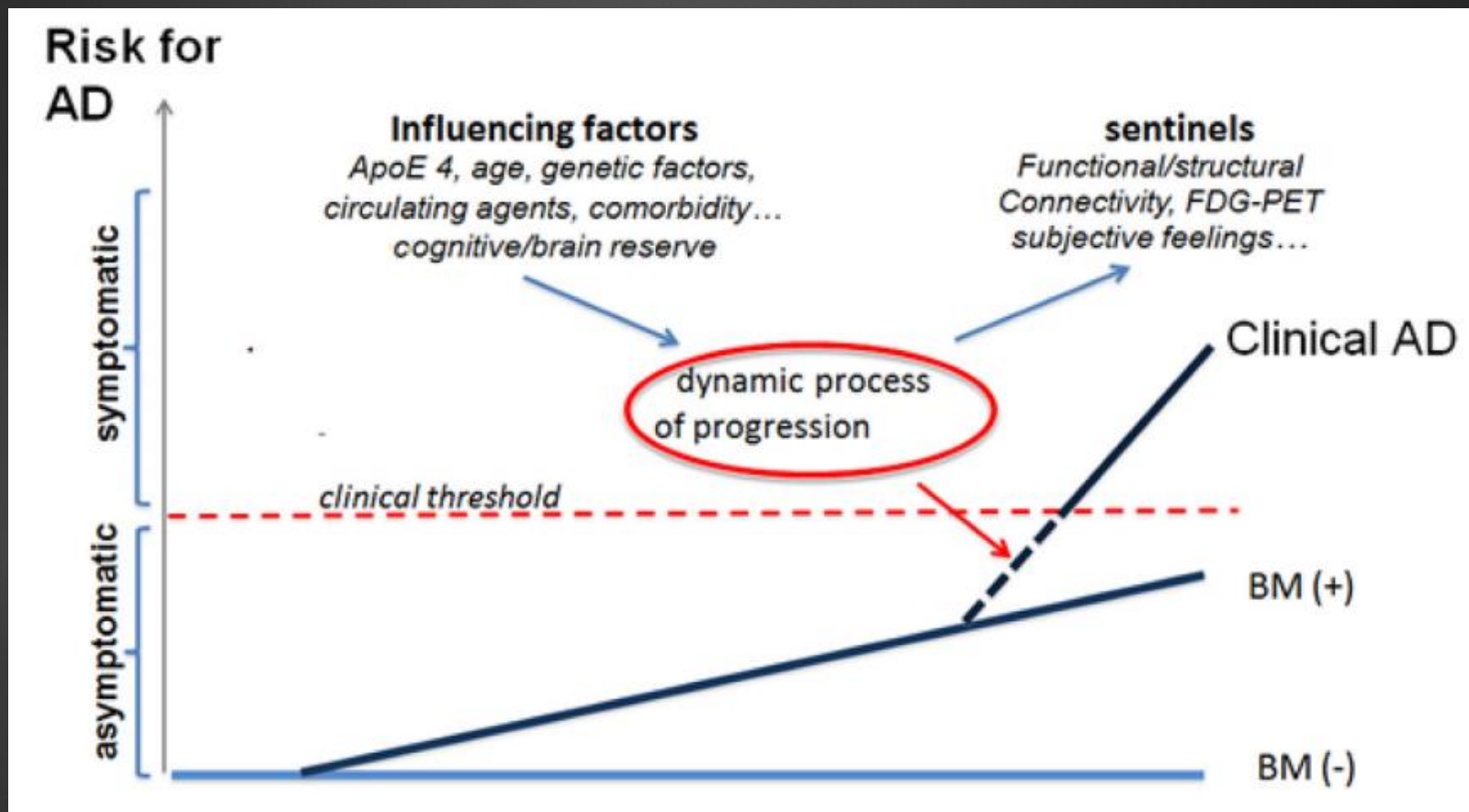
4. The term “Alzheimer’s disease” refers to an aggregate of neuropathologic changes and thus is defined *in vivo* by biomarkers and by postmortem examination, not by clinical symptoms

NIA-AA Research Framework

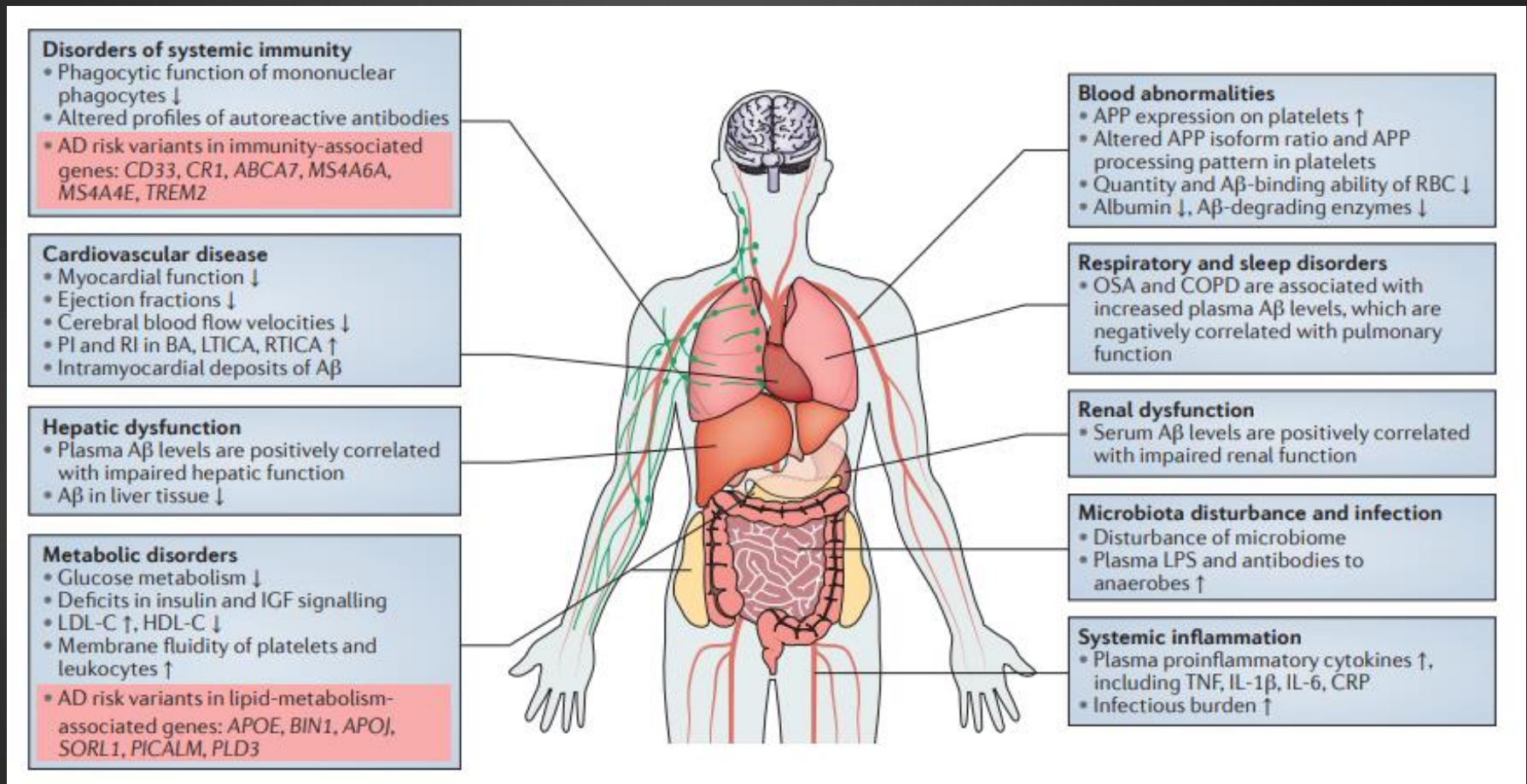
		Cognitive stage		
		Cognitively Unimpaired	Mild Cognitive Impairment	Dementia
Biomarker Profile	A ⁻ T ⁻ (N) ⁻	normal AD biomarkers, cognitively unimpaired	normal AD biomarkers with MCI	normal AD biomarkers with dementia
	A ⁺ T ⁻ (N) ⁻	Preclinical Alzheimer's pathologic change	Alzheimer's pathologic change with MCI	Alzheimer's pathologic change with dementia
	A ⁺ T ⁺ (N) ⁻	Preclinical Alzheimer's disease	Alzheimer's disease with MCI (Prodromal AD)	Alzheimer's disease with dementia
	A ⁺ T ⁺ (N) ⁺			
	A ⁺ T ⁻ (N) ⁺	Alzheimer's and concomitant suspected non Alzheimer's pathologic change, cognitively unimpaired	Alzheimer's and concomitant suspected non Alzheimer's pathologic change with MCI	Alzheimer's and concomitant suspected non Alzheimer's pathologic change with dementia
	A ⁻ T ⁺ (N) ⁻	non-Alzheimer's pathologic change, cognitively unimpaired	non-Alzheimer's pathologic change with MCI	non-Alzheimer's pathologic change with dementia
	A ⁻ T ⁻ (N) ⁺			
	A ⁻ T ⁺ (N) ⁺			



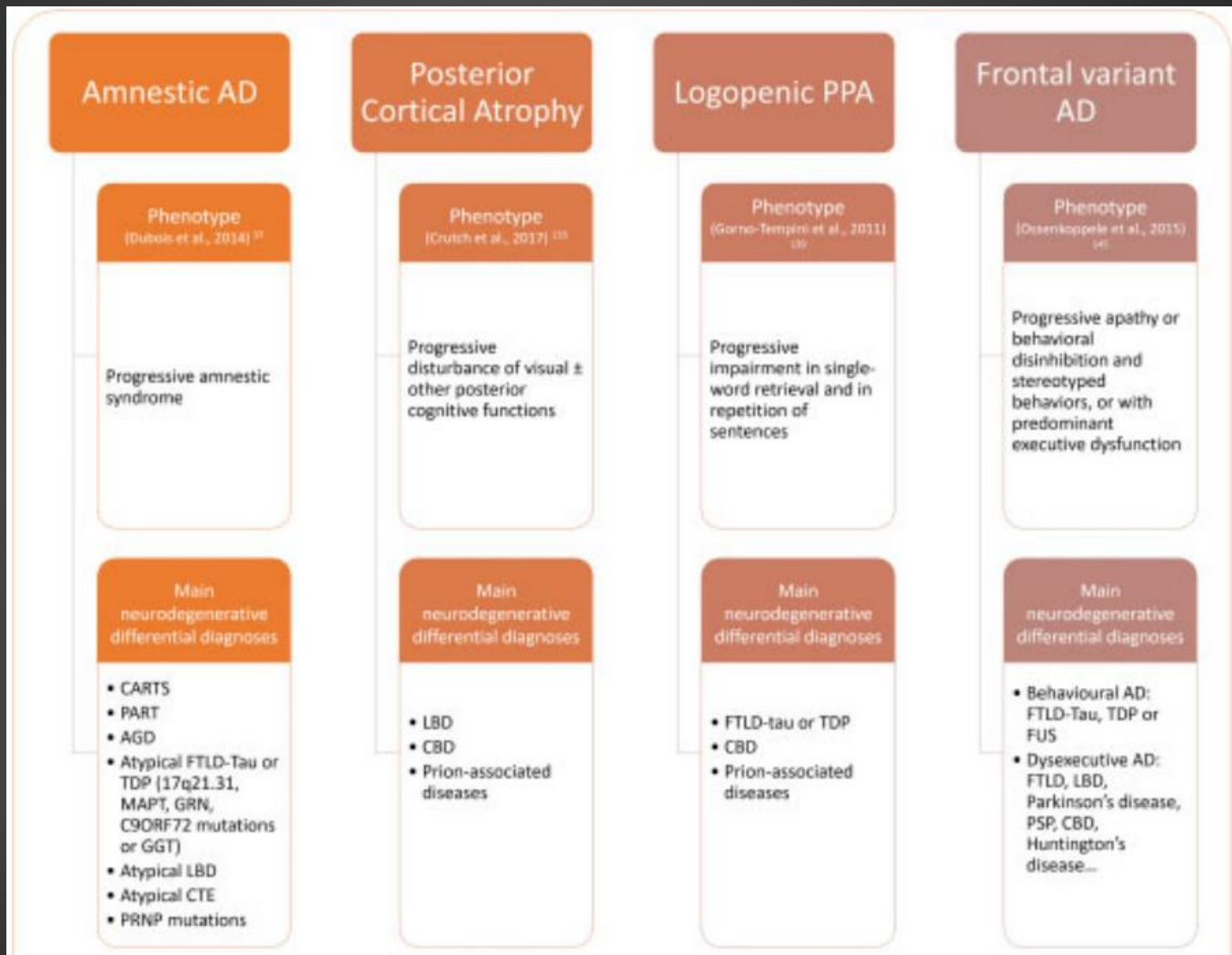
La malattia di Alzheimer ha una fase preclinica



La malattia di Alzheimer è un'entità biologica con aspetti sistemici



La malattia di Alzheimer è clinicamente eterogenea, altre entità possono avere clinica simile

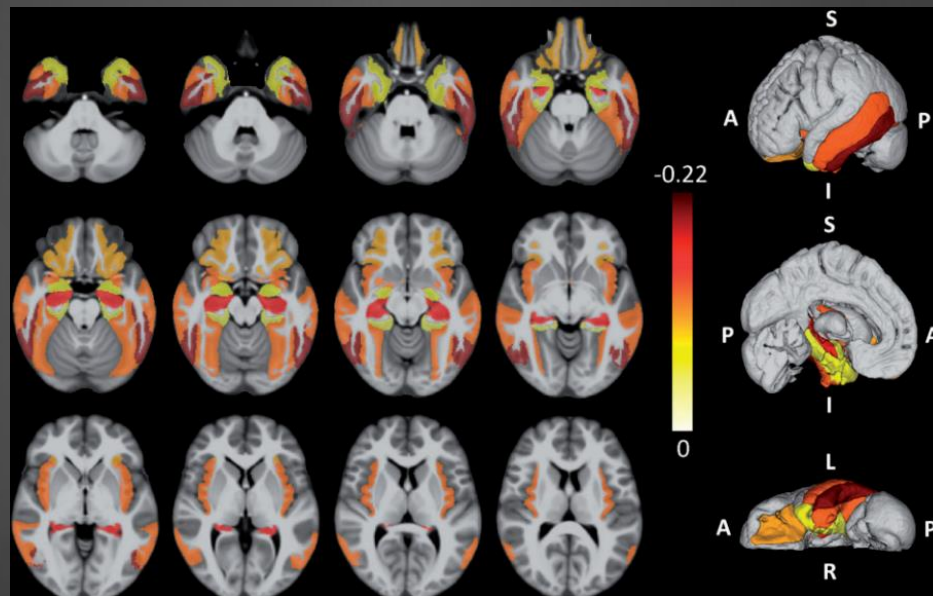


SNAP

- ▶ Suspected non-Alzheimer disease pathophysiology (SNAP) is a biomarker-based concept that applies to individuals with normal levels of amyloid- β biomarkers in the brain, but in whom biomarkers of neurodegeneration are abnormal.
- ▶ In the Alzheimer disease Disease Neuroimaging Initiative, 7% of participants who were **clinically diagnosed** as having AD dementia met the criteria of SNAP.

Limbic-predominant age-related TDP-43 encephalopathy (LATE)

- ▶ LATE neuropathological change (LATE-NC) is defined by a stereotypical TDP-43 proteinopathy in older adults, with or without coexisting hippocampal sclerosis pathology.
- ▶ LATE-NC is a common TDP-43 proteinopathy, **associated with an amnesic dementia syndrome that mimicked Alzheimer's-type dementia in retrospective autopsy studies.**



Nelson, P. T., Dickson, D. W., Trojanowski, J. Q., Jr, C. R. J., Boyle, P. A., Arfanakis, K., ... Schneider, J. A. (2019). Limbic-predominant age-related TDP-43 encephalopathy (LATE): consensus working group report.

Conclusioni

- ▶ Nonostante il ruolo dell'amiloide nella malattia di Alzheimer non sia chiaro, questa è un elemento costante e (con alcuni caveat) specifico
- ▶ La malattia di Alzheimer ha aspetti biologici extranervosi
- ▶ La presentazione clinica della malattia di Alzheimer è eterogenea ed aspecifica. La clinica non è sufficiente ad individuarla
- ▶ Definire la malattia di Alzheimer come entità clinica porta ad ignorare i pazienti preclinici