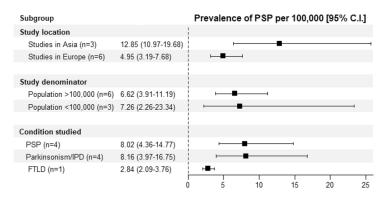
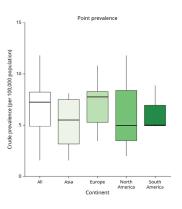


PSP prevalence is similar to ALS, but 10x less research on PSP

Prevalence ~8/100,000



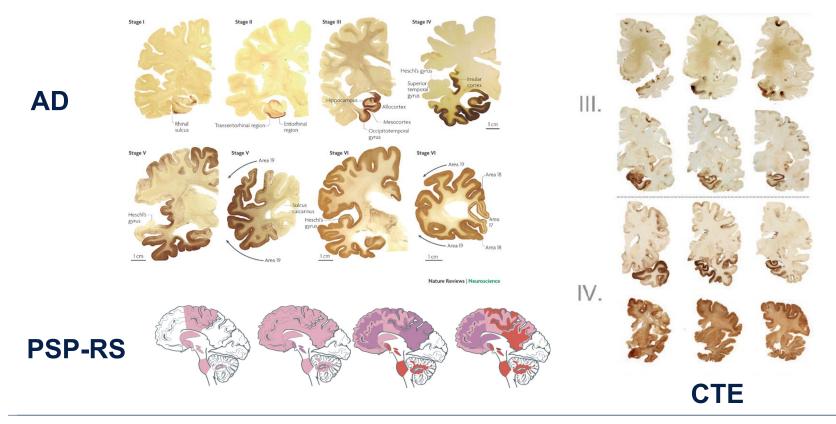
PSP (n=9 studies)



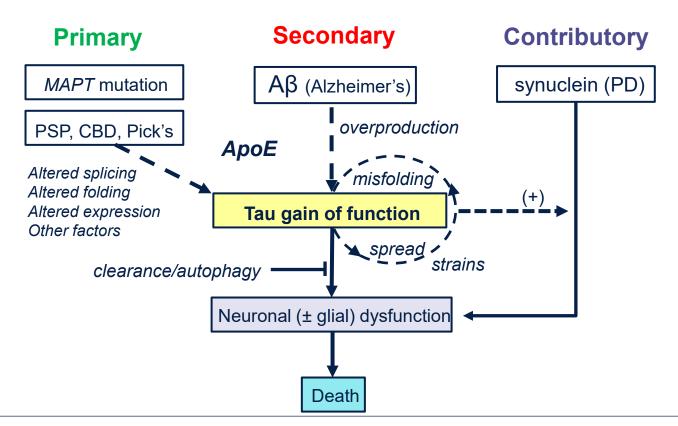
ALS (n=89 studies)



Insoluble tau correlates with clinical features in tauopathies



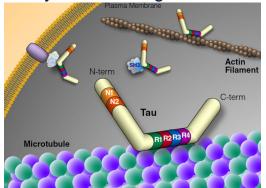
The tau hypothesis (tauopathies)



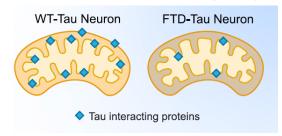


Tau is a multi-functional protein in health and disease

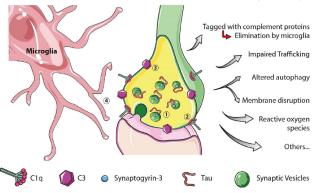




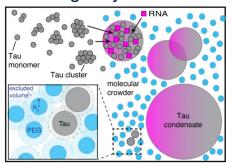
Mitochondrial protein binding & dysfunction



Synaptic vesicle protein binding & dysfunction

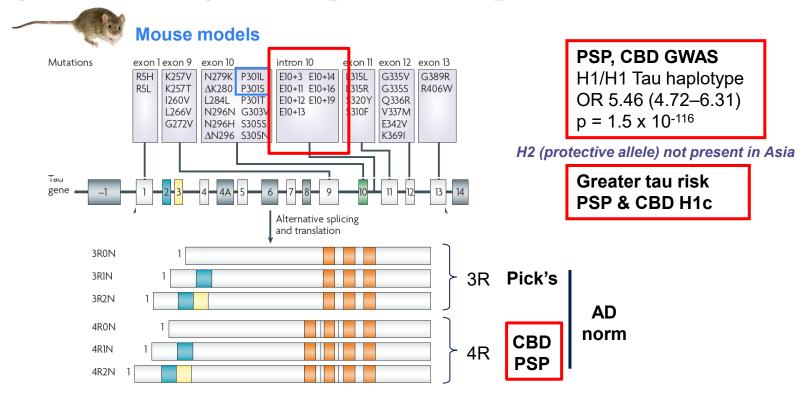


RNA binding & cytosolic condensates

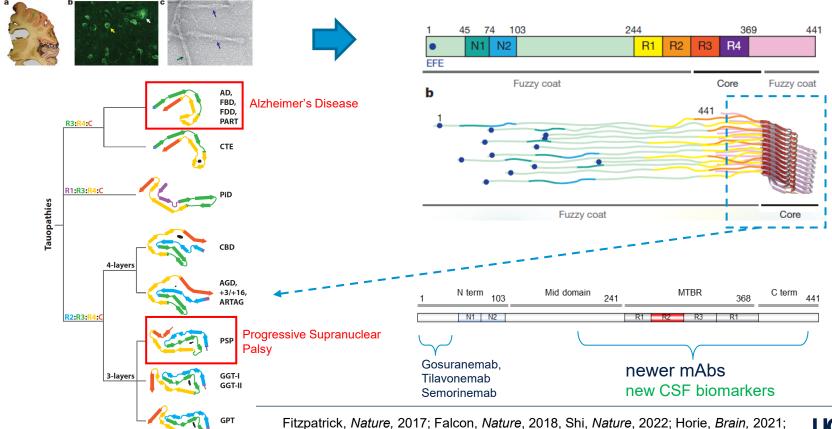




Tau genetics: strong links to primary tauopathies (but not AD)



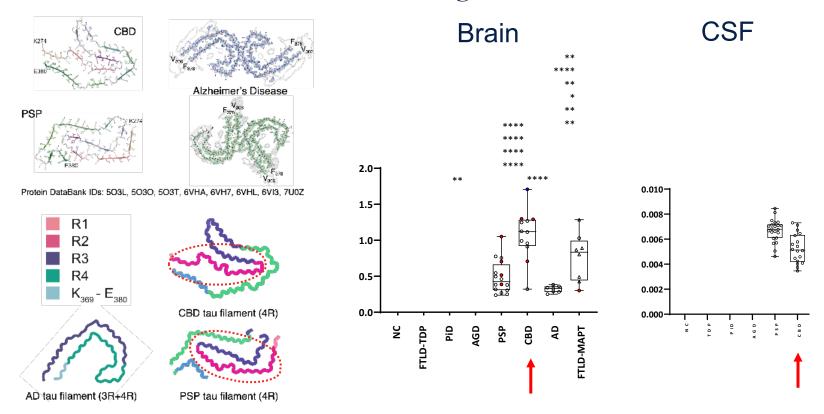
Disease specific tau aggregate structures: impact on treatments?



Samudra, J. Clin Invest, 2023; Lane-Donovan and Boxer, Neurotherapeutics, 2024

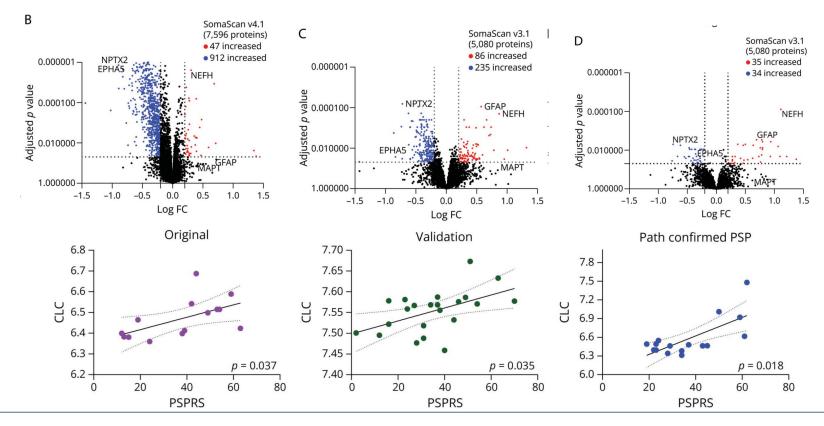


New 3D tau structures informing biomarkers for CBD





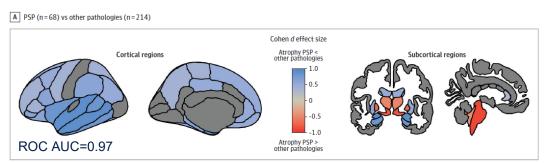
CSF Proteomics in Patients With Progressive Supranuclear Palsy

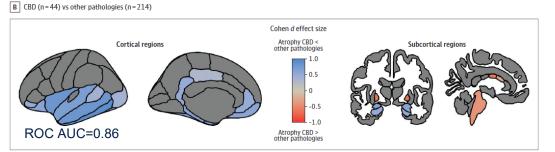




Diagnostic accuracy of vMRI for PSP and CBD pathology

Characteristics	Participants, No. (%)			
	4RT			
	PSP (n = 68)	CBD (n = 44)	Combined (n = 112)	Other pathologies (n = 214)
Age at symptom onset, mean (SD), y	64.1 (6.98) ^a	60.0 (7) ^b	62.5 (7) ^c	57.1 (9) ^{b,d}
Age at MRI, mean (SD), y	69.5 (5) ^a	64.2 (6) ^b	67.4 (6) ^c	62.4 (8) ^{b,d}
Years of education, mean (SD)	16.2 (3)	16.1 (2)	16.2 (3)	16.2 (2)
Biological sex				
Men	32 (47.1)	19 (43.2)	51 (45.5) ^c	125 (58.4) ^d
Women	36 (52.9)	25 (56.8)	61 (54.5) ^c	89 (41.6) ^d
Diagnosis at MRI				
PSP-RS	43 (63.2) ^a	3 (6.8) ^b	46 (41.1) ^c	3 (1.4) ^{b,d}
CBS	11 (16.2)	12 (27.3) ^c	23 (20.5)	22 (10.3) ^e
PSP-RS or CBS	54 (79.4) ^a	15 (34.1) ^f	69 (61.6) ^c	25 (11.7) ^{d,g}
MMSE, mean (SD) ¹	25.5 (4.81) ^c	24.0 (6.24)	24.9 (5.44) ^c	22.6 (7.00) ^{b,d}
Years from MRI to death, mean (SD)	3.69 (2.01) ^a	3.25 (1.62) ^b	3.52 (1.87) ^c	4.82 (3.27) ^{b,d}
Primary neuropathological diagnosis				
PSP	68 (100)	0	68 (60.7)	0
CBD	0	44 (100)	44 (39.3)	0
Pick disease	0	0	0	26 (12.1)
FTLD-TDP				
Type A	0	0	0	26 (12.1)
Type B	0	0	0	34 (15.9)
Type C	0	0	0	26 (12.1)
MND-TDP	0	0	0	11 (5.1)
Other FTLD	0	0	0	32 (15.0)
AD	0	0	0	45 (21.0)
PD, LBD, MSA	0	0	0	11 (5.1)
Other	0	0	0	3 (1.4)







New clinical trials for PSP & CBS

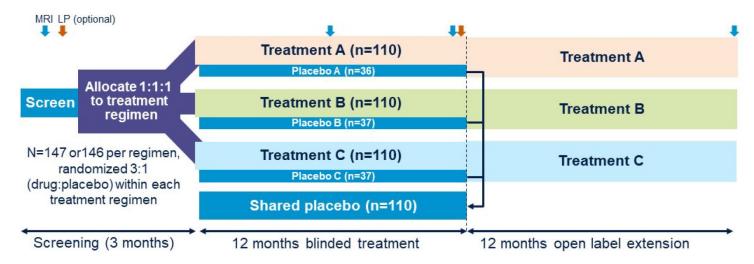
- Amylyx (AMX0035) Phase 3 clinical trial (NCT06122662) Rojas; enrolling at UCSF
- Ferrer (FNP-223) Phase 2 clinical trial (NCT06355531)

Planned (not definite) for 2025

- Corticobasal syndrome (CBS) phase 1b study
- PSP Trial Platform (PTP)



PSP Trial Platform design



A randomized, placebo-controlled, Phase 2 platform trial in mild-moderate PSP that will simultaneously test at least three different tau related or neuroprotective therapies to determine safety, tolerability, and clinical proof of concept based on a multimodal clinical rating scale, the modified PSP Rating Scale (mPSPRS-15)

