

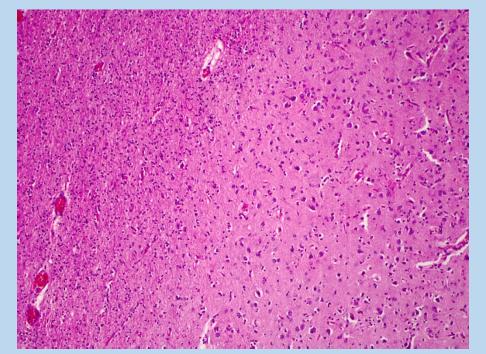
Disclosures

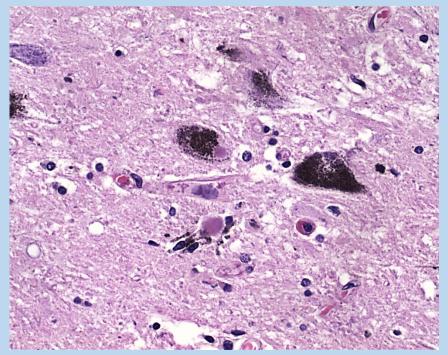
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We have no relevant financial disclosures.

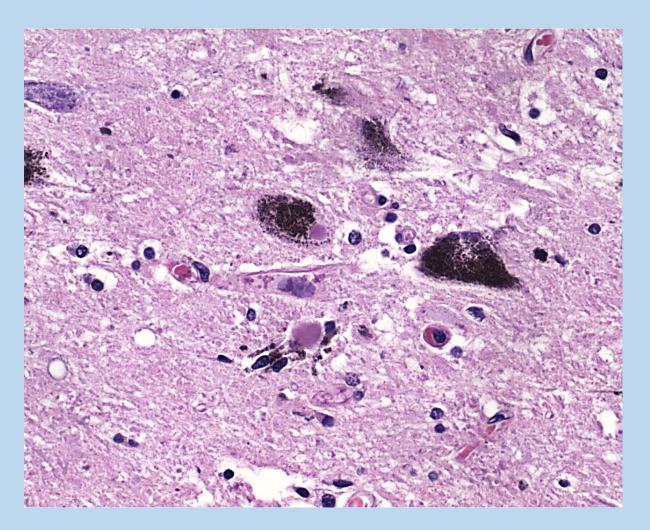


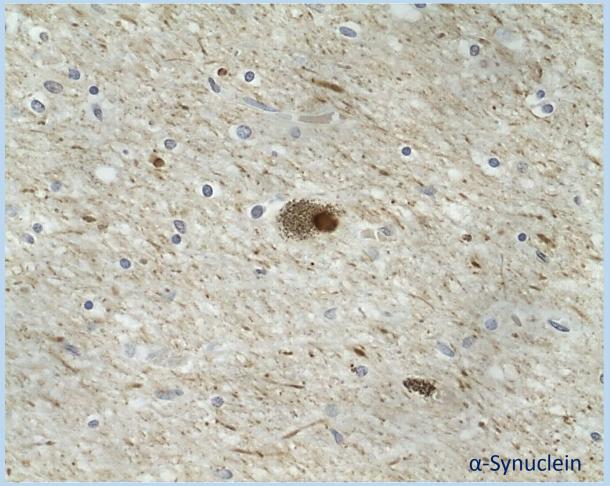




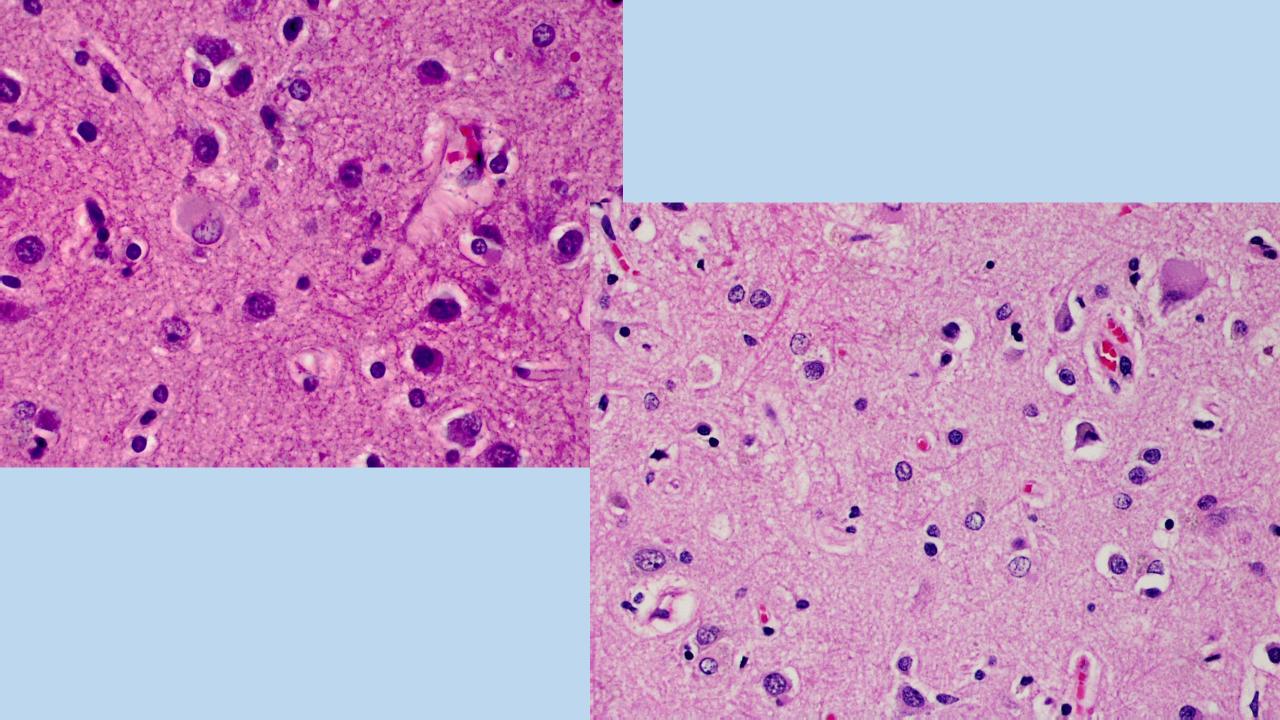


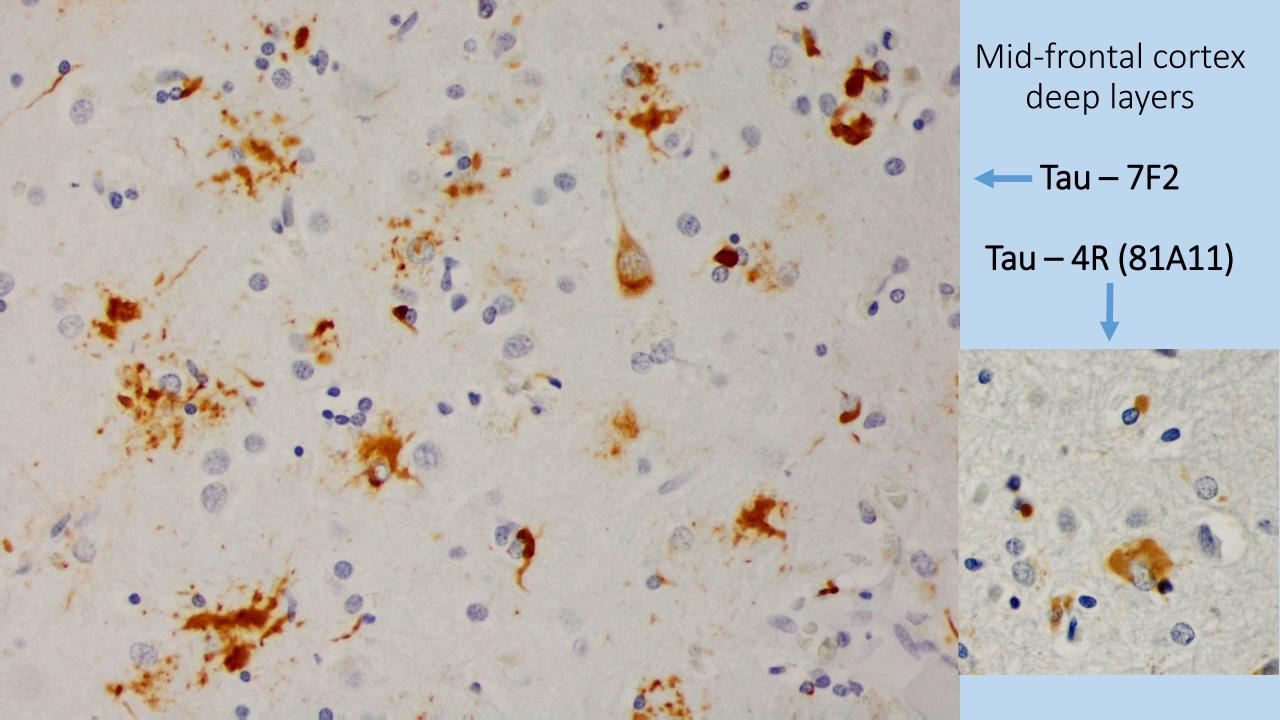




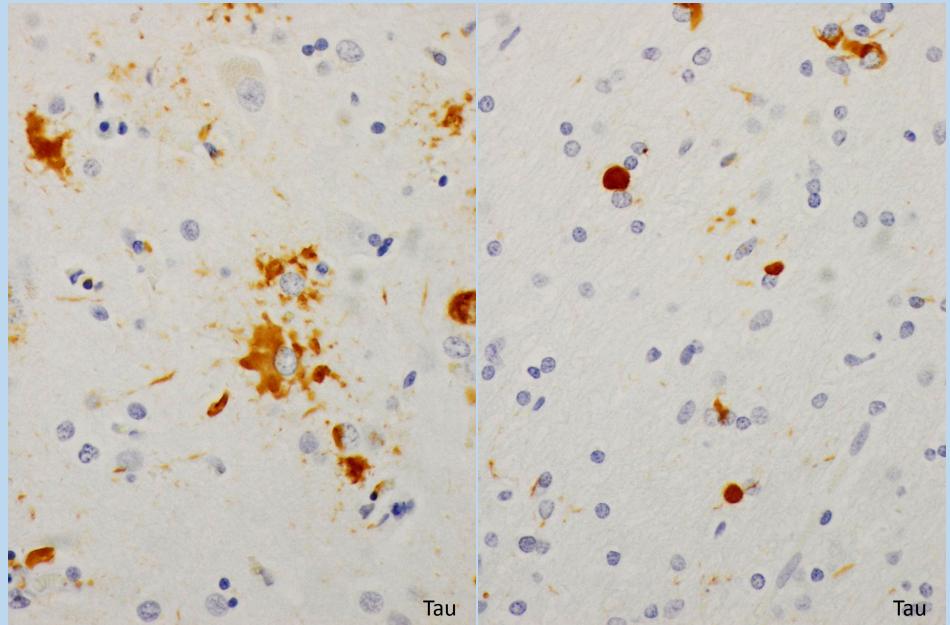


Mid frontal cortex—gray-white matter junction

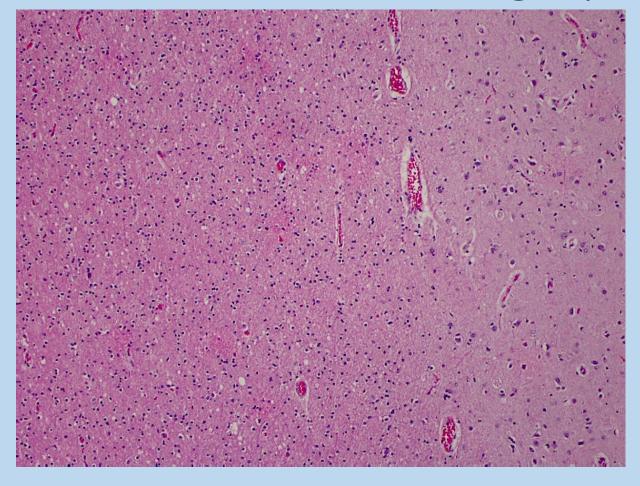


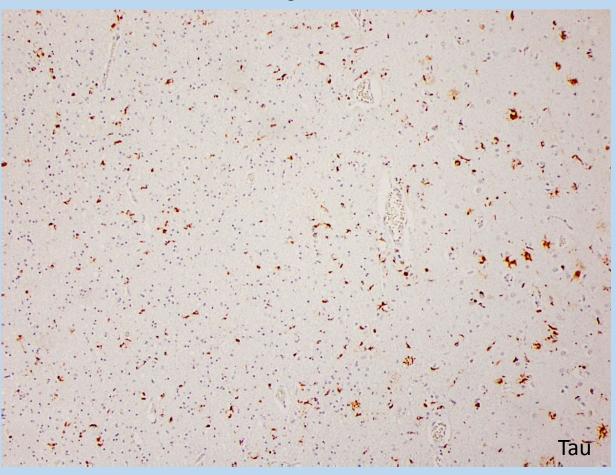


GAI GOI

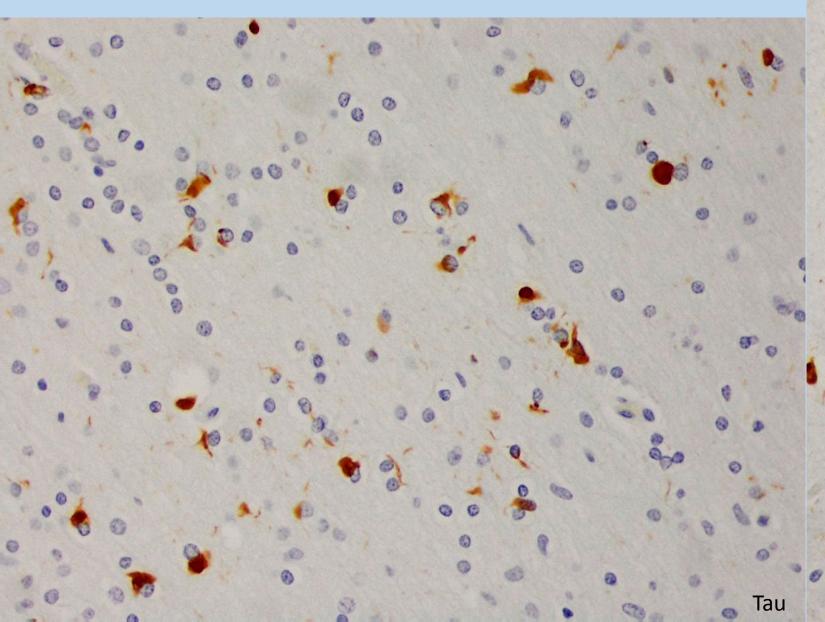


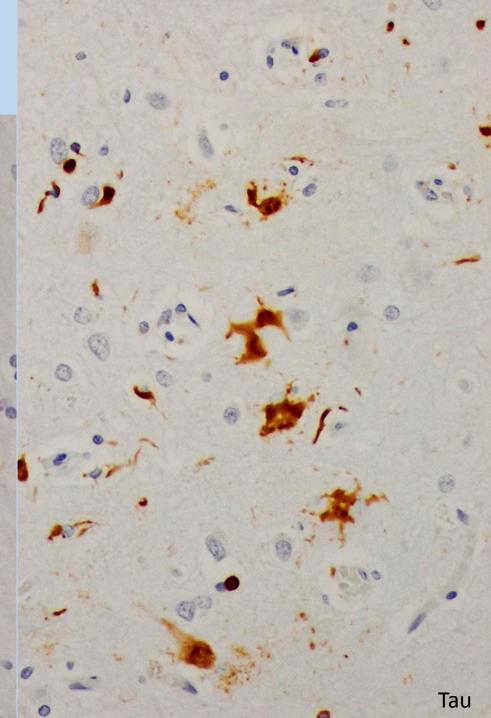
Motor cortex – gray-white matter junction

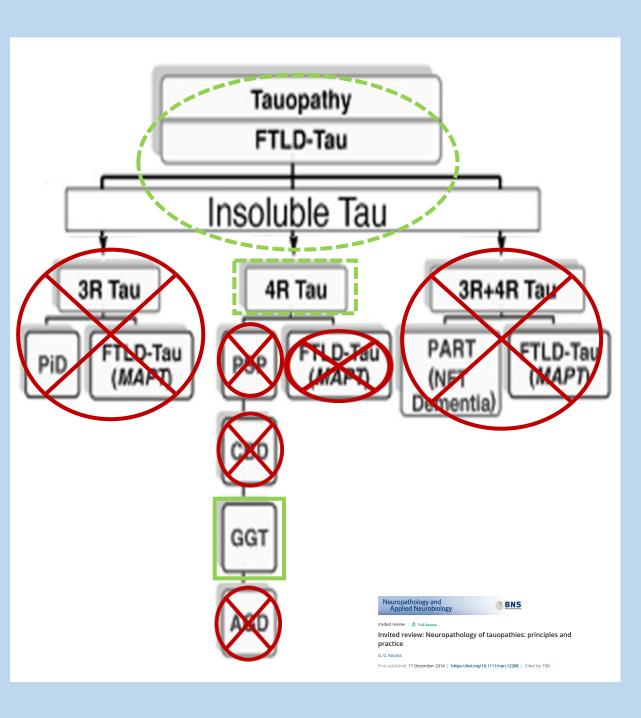




GOI – white matter







Differential:

- Sparse Aβ diffuse plaques and rare neuritic plaques
- No globose neurofibrillary tangles
- No balloon neurons
- No agyrophilic grains or ambient gyrus atrophy
- No known pathogenic MAPT mutation was identified
 - MAPT gene exons 1-5,7,9-13 sequenced
 - (Thanks to Dr. Crary)

CONSENSUS PAPER

Globular glial tauopathies (GGT): consensus recommendations

Zeshan Ahmed · Eileen H. Bigio · Herbert Budka · Dennis W. Dickson · Isidro Ferrer · Bernardino Ghetti · Giorgio Giaccone · Kimmo J. Hatanpaa · Janice L. Holton · Keith A. Josephs · James Powers · Salvatore Spina · Hitoshi Takahashi · Charles L. White III · Tamas Revesz · Gabor G. Kovacs

Subtyping GGT based on globular glial inclusions:

• Type I: Frontotemporal

Type II: Motor cortex and/or corticospinal tracts

Type III: Frontotemporal, motor cortex, and/or corticospinal tracts

Globular astrocytic inclusions tend to be more prominent in Type III GGT

Frontal Lobe Dementia With Novel Tauopathy: Sporadic Multiple System Tauopathy With Dementia

EILEEN H. BIGIO, MD, ANNE M. LIPTON, MD, PHD, SHU-HUI YEN, PHD, MIKE L. HUTTON, PHD, MATT BAKER, BSC, PARIMALA NACHARAJU, PHD, CHARLES L. WHITE III, MD, PETER DAVIES, PHD, WENLANG LIN, PHD, AND DENNIS W. DICKSON, MD

ORIGINAL PAPER

Sporadic four-repeat tauopathy with frontotemporal lobar degeneration, Parkinsonism, and motor neuron disease: a distinct clinicopathological and biochemical disease entity

Yong-Juan Fu · Yasushi Nishihira · Shigetoshi Kuroda · Yasuko Toyoshima · Tomohiko Ishihara · Makoto Shinozaki · Akinori Miyashita · Yue-Shan Piao · Chun-Feng Tan · Takashi Tani · Ryoko Koike · Keisuke Iwanaga · Mitsuhiro Tsujihata · Osamu Onodera · Ryozo Kuwano · Masatoyo Nishizawa · Akiyoshi Kakita · Takeshi Ikeuchi · Hitoshi Takahashi

Received: 21 December 2009/Revised: 27 January 2010/Accepted: 27 January 2010/Published online: 7 February 2010 © Springer-Verlag 2010

- Another early paper describing GGT
- Discusses Parkinsonian symptoms; however, all cases in the series were negative for α -synuclein/Lewy bodies

Summary

- Diagnosis:
 - Lewy body disease, neocortical type
 - Globular glial tauopathy
- 4R tau mutation
- Spectrum of neurodegenerative diseases
- Combination of neurodegenerative features with minimal-to-no published reports

Special Thanks

• Dr. Dennis Dickson for reviewing this case