

## CONy 2016 plenary horizons in neuropathology

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Neuropathology is a relatively old discipline known for still using methods developed over a century ago. Difficulties in procurement and examination of clinical specimens, the advent of high-throughput –omics, and advances in animal models with their ability to provide insight into the mechanisms of a disease process, led to a waning of interest in neuropathology that has been rendered obsolete.

My talk will focus on the transformation of neuropathology into a 21<sup>st</sup>-century science on the forefront of advances in neurology. By incorporating elements of molecular biology, improved microscopy, advancing graphics, and technology to deal with big data in the study of human brain specimens, neuropathology is transforming biomarker discovery and treatment development in several areas of neurology and rapidly reinstating itself as a valuable player in the contemporary neurological research.