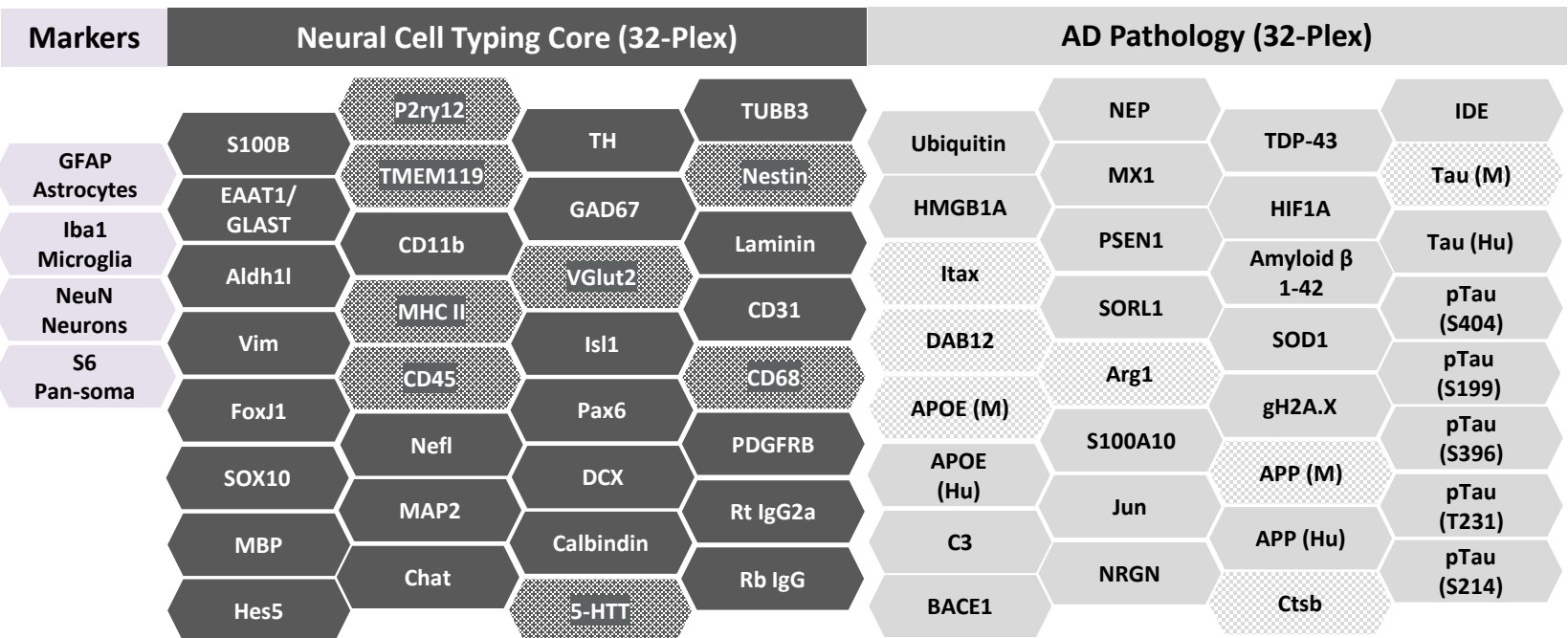


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Here, we present an integrated workflow from sample through analysis that addresses key concerns around high-plex proteomics. The CosMx™ Spatial Molecular Imager and AtoMx™ Spatial Informatics Platform comprises an end-to-end workflow that efficiently handles highly multiplex protein analysis at plex sizes exceeding 68 targets. The CosMx protein assays use oligonucleotide-conjugated antibodies, detected using universal, multi-analyte CosMx readout reagents. The CosMx Mouse Neural Cell Typing and Alzheimer's Pathology panel is optimized to comprehensively profile neural cell lineages across the brain as well as the progression of Alzheimer's disease (AD), including specific antibodies for humanized mouse AD models. The AtoMx spatial informatics platform provides full analysis support, including whole-slide image viewer, and methods for performing built-in or fully customizable analyses for cell typing, ligand-receptor analysis, neighborhood analysis and spatial differential expression. Proteomics face issues around simplicity, speed, scalability, and big data analysis.

## CosMx Mouse Neuroscience Protein Panel (64-Plex) Content



CosMx Mouse  
Neural Panel  
antibodies  
demonstrate  
comparable  
IHC and CosMx  
staining  
patterns  
consistent with  
specific  
antigen targets

Figure 1 displays a comparison of mouse hippocampus images and their advanced segmentation. The top row shows the original fluorescence images of the mouse hippocampus. The bottom row shows the same images after advanced segmentation, with individual cell types (Astrocyte, Microglia, Neuron) highlighted and labeled. Scale bars are present in the bottom right of each image.

1. He et al., 2022. High-plex imaging of RNA and proteins at subcellular resolution in fixed tissue by spatial molecular imaging. *Nature Biotechnology*.
2. Danaher et al., 2022. Insitutype: likelihood-based cell typing for single cell spatial transcriptomics. *BioRxiv*.
3. Uhlén M et al., 2015. Tissue-based map of the human proteome. *Science*.