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Granulovacuolar Degenerations in Relation to Hippocampal Phosphorylated Tau Accumulation in Various Neurodegenerative Disorders

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Granule-containing vacuoles in the cytoplasm neurodegenerative disorders and even in the brains of nona neuropathological staging system for GVD has facilitated neuropathological assessment.

Granulovacuolar degeneration (GVD) is one of the pathological features long associated with Alzheimer's disease (AD) and normal aging. We investigate the frequency of GVDs in AD, other neurodegenerative diseases, and normal aging, with attempt to determine whether the GVD has preponderance in any particular neurodegenerative disease other than AD Materials and Methods

Data obtained by electron microscopy and immunolabeling between tau pathology and GVD.

Neurodegenerative diseases affect millions of people

of estimated 5.4 million Americans were living with hippocampal neurons are a neuropathological feature of Alzheimer's disease. An estimated 930,000 people in the Alzheimer's disease. Granulovacuolar degeneration (GVD) United States could be living with Parkinson's disease by is not disease-specific and can be observed in other 2020. Neurodegenerative diseases occur when nerve cells in demented elderly people. However, several studies have the brain or peripheral nervous system lose function over time reported much higher numbers of neurons undergoing GVD and ultimately die. Although treatments may help relieve in the hippocampus of Alzheimer's disease cases. Recently, some of the physical or mental symptoms associated with neurodegenerative diseases, there is currently no way to slow disease progression and no known cures.

> The risk of being affected by a neurodegenerative disease increases dramatically with age. More Americans living longer means more people may be affected by neurodegenerative diseases in coming decades. This situation creates a critical need to improve our understanding of what causes neurodegenerative diseases and develop new approaches for treatment and prevention.

suggest that GVD inclusions are a special form of Scientists recognize that the combination of a person's genes autophagic vacuole. GVD frequently occurs together with and environment contributes to their risk of developing a pathological changes of the microtubule-associated protein neurodegenerative disease. That is, a person might have a tau, but to date, the relationship between the two lesions gene that makes them more susceptible to a certain remains elusive. Originally identified in hematoxylin- and neurodegenerative disease. But whether, when, and how silver-stained sections, immunolabeling has shown that the severely the person is affected depends on environmental granules are composed of a variety of proteins, including exposures throughout life.Key research challenges are those related to tau pathology, autophagy, diverse signal identifying and measuring exposures that may have occurred transduction pathways, cell stress and apoptosis. Several of before an individual is diagnosed and disentangling the these proteins serve as markers of GVD. Most researchers effects of these exposures. Neuro degenerative diseases and and authors have interpreted the sequestration of proteins brain associated diseases are major concerns among aging into GVD inclusions as either a cellular defense mechanism populations across the world. Alzheimer's and Parkinson's or one that leads to the impairment of important cellular diseases are more prevalent neuronal diseases in aging functions. This review provides a detailed overview of the populations. Alzheimer's disease is characterized by amyloid various aspects of GVD and focuses on the relationship plaques and neurofibrillary tangles that lead to enhancing Likewise, oxidative stress and neuroinflammation. Parkinson's disease is associated with dopaminergic neuronal

death and Lewy bodies formation due to the alpha-synuclein proteins activation and phosphorylation. Therapeutic worldwide. Alzheimer's disease and Parkinson's disease are approaches to treat neurodegenerative diseases are limited the most common neurodegenerative diseases. In 2016, an due to the protective nature of the blood-brain barrier (BBB) that hinders drug targeting towards neurons.

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Nervous system science is a part of medication managing issues of the sensory system. Nervous system science manages the determination and treatment of all classes of conditions and malady including the focal and fringe sensory systems (and their regions, the autonomic and physical sensory systems), including their covers, veins, and all effector tissue, for example, muscle.[1] Neurological practice depends intensely on the field of neuroscience, the logical investigation of the sensory system.

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