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ARTICLE: *Evaluation of Amyloid Plaque in an Alzheimer's Disease Mouse Model with the Use of Stereological Versus Aperio Analysis*

DIRECTIONS:

- 1. Answer the following questions by circling the one (1) BEST answer for each question.
- 2. Complete the information required at the bottom of the page.
- 3. Submit completed form by fax to the NSH Office at **443-535-4055**, or by mail to:
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- 1. Alzheimer's Disease (AD) is a progressive neurodegenerative disorder of the brain?
True False

- 2. One pathological hallmark of the disease is a build up of what type of amyloid plaques between the neurons in the brain?
A. sigma
B. beta
C. gamma
D. alpha

- 3. Performing plaque quantitation using stereology involves visually inspecting each brain tissue section for plaque staining, marking that staining by hand on a representative subsection of cortex, and then mathematically extrapolating results to the entire cortex.
True False

- 4. Performing plaque quantitation using Aperio analysis involves digitally scanning tissue sections, applying an algorithm to the cortex on each section that finds the plaque staining and automatically quantifies it, and then mathematically extrapolating results to the entire cortex.
True False

- 5. Alzheimer's Disease (AD) is a progressive neurodegenerative disorder and the most common form of dementia, affecting as many as what percent of people over the age of 65..
A. 2%
B. 7%
C. 25%
D. 10%

- 6. Aperio analysis can be performed on a smaller number of slides and the results that correlate with stereological analysis can still be achieved.
True False

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