

# Processing of novelty and familiarity in the aging brain

Citation for published version (APA):

Tóth, M. (2022). *Processing of novelty and familiarity in the aging brain*. [Doctoral Thesis, Maastricht University]. Maastricht University. <https://doi.org/10.26481/dis.20220201mt>

## Document status and date:

Published: 01/01/2022

## DOI:

[10.26481/dis.20220201mt](https://doi.org/10.26481/dis.20220201mt)

## Document Version:

Publisher's PDF, also known as Version of record

## Please check the document version of this publication:

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Propositions related to the dissertation entitled  
**Processing of Novelty and Familiarity in the Aging Brain**

by Monika Toth

Maastricht, 01 February 2022

1. Accurate recognition performance depends on experimentally induced memory strength when pre-experimentally unfamiliar items are used. (Thesis)
2. The underlying brain processes regarding the late old/new discrimination effects, as shown by the P600, are also evident with pre-experimentally unfamiliar stimuli. (Thesis)
3. Healthy aging impairs the correct identification of new visual and verbal items that are pre-experimentally unfamiliar. (Thesis)
4. Biperiden is not suitable to mimic age-related recognition memory impairments when pre-experimentally unfamiliar visual and verbal items are used. (Thesis)
5. Neurotransmitters other than acetylcholine should be tested for cognitive enhancement. (Impact paragraph)
6. Structures of the medial temporal lobe and prefrontal cortex are sensitive to novelty and familiarity. (Not thesis)
7. When discrimination demands are equal, stimulus familiarity rather than novelty provides an episodic memory advantage. (Not thesis)
8. A good priest learns until his death.