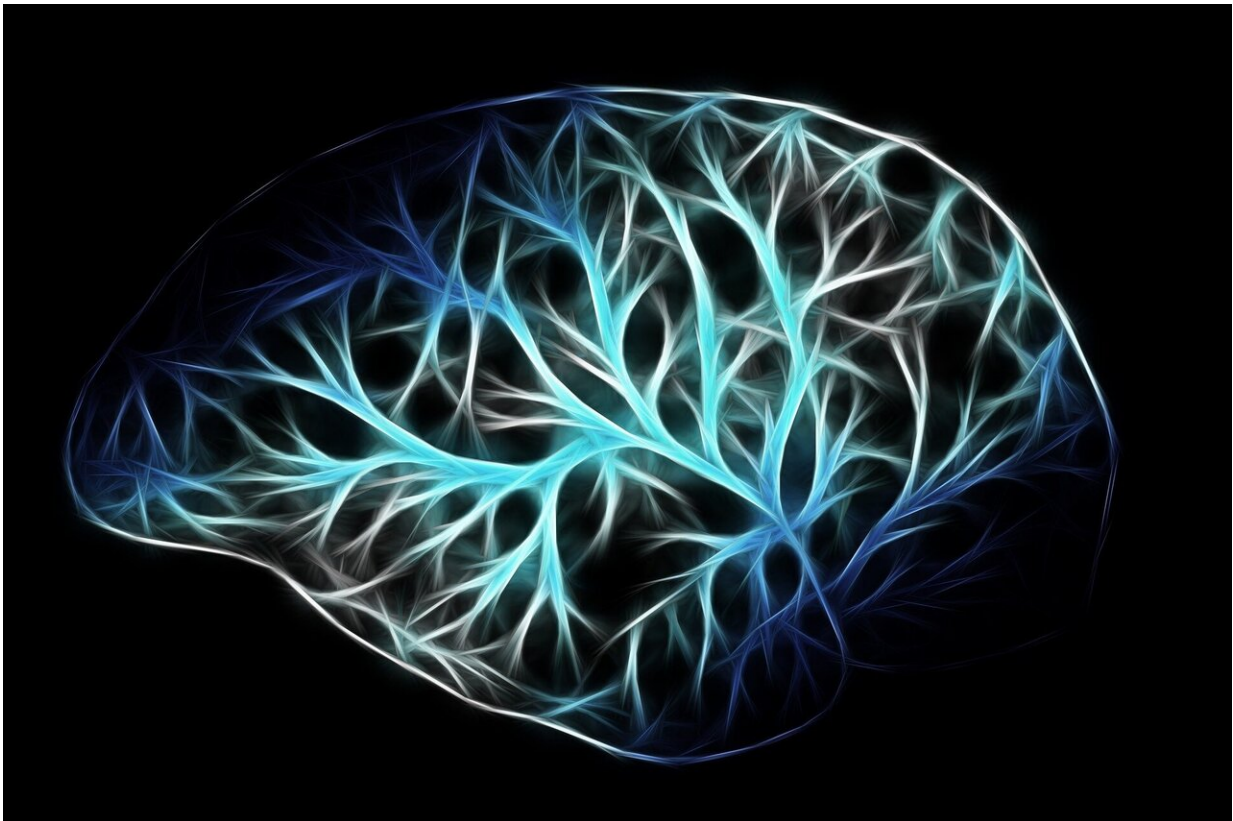


## Video: Watching what happens when a brain cell dies

June 29 2020

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Credit: CC0 Public Domain

When neurons die, cellular garbage collectors mobilize in a highly choreographed procedure to dispose of the corpse and clear away debris. A failure to fully remove neurons can lead to neurodevelopmental

disorders early in life and declines in cognitive abilities later in life.

Yale researchers Eyiyeemisi Damisah and Robert Hill from Jaime Grutzendler's neuroscience lab have for the first time captured images of this process at the level of a single neuron.

In the June 26 issue of the journal *Science Advances*, they show how specialized [brain cells](#) closely coordinate the removal of neuronal corpses and dendrites from the central nervous system.

**More information:** Eyiyeemisi C. Damisah et al. Astrocytes and microglia play orchestrated roles and respect phagocytic territories during neuronal corpse removal in vivo, *Science Advances* (2020). [DOI: 10.1126/sciadv.aba3239](https://doi.org/10.1126/sciadv.aba3239)

Provided by Yale University

Citation: Video: Watching what happens when a brain cell dies (2020, June 29) retrieved 27 April 2024 from <https://medicalxpress.com/news/2020-06-video-brain-cell-dies.html>

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