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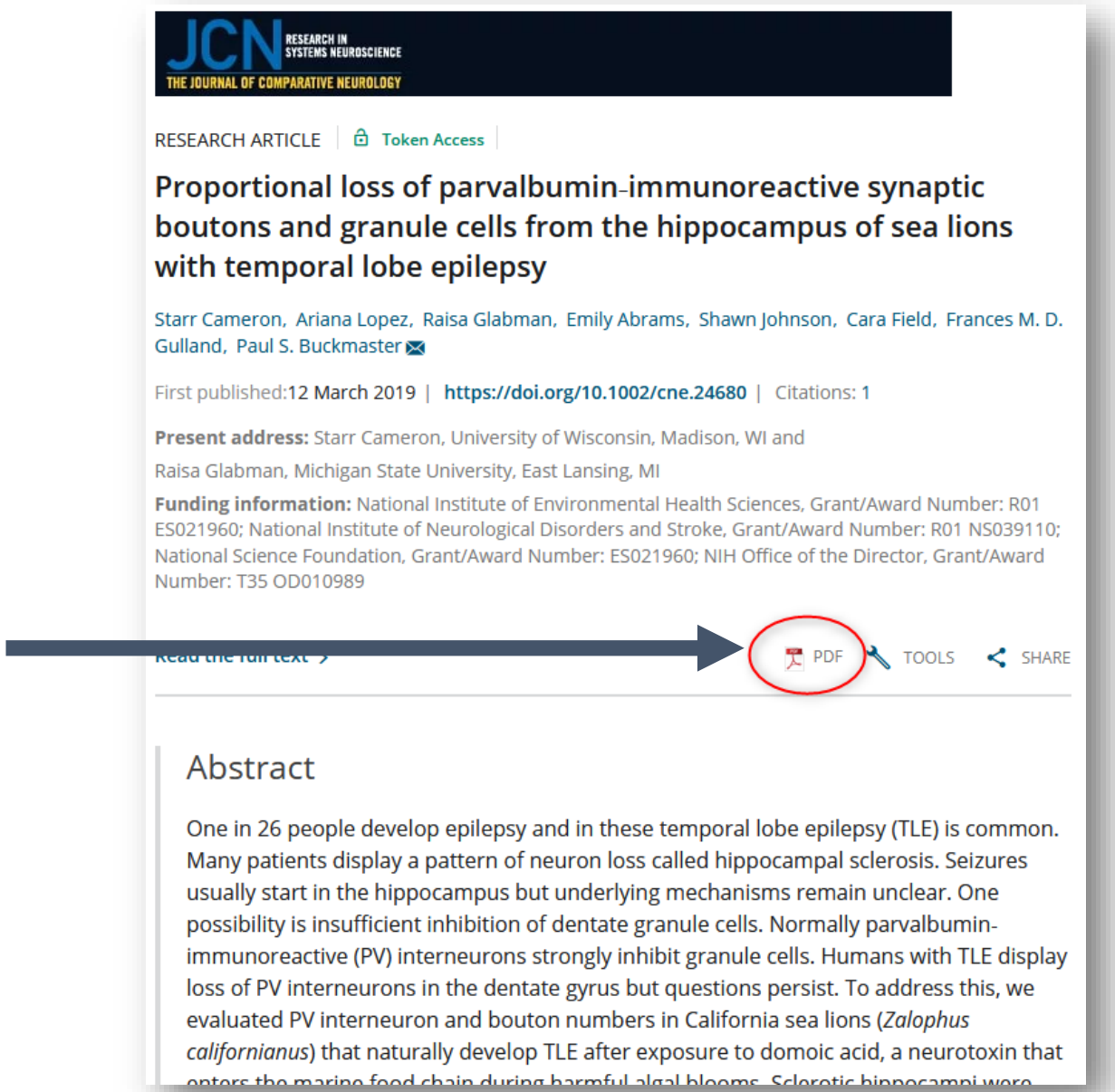

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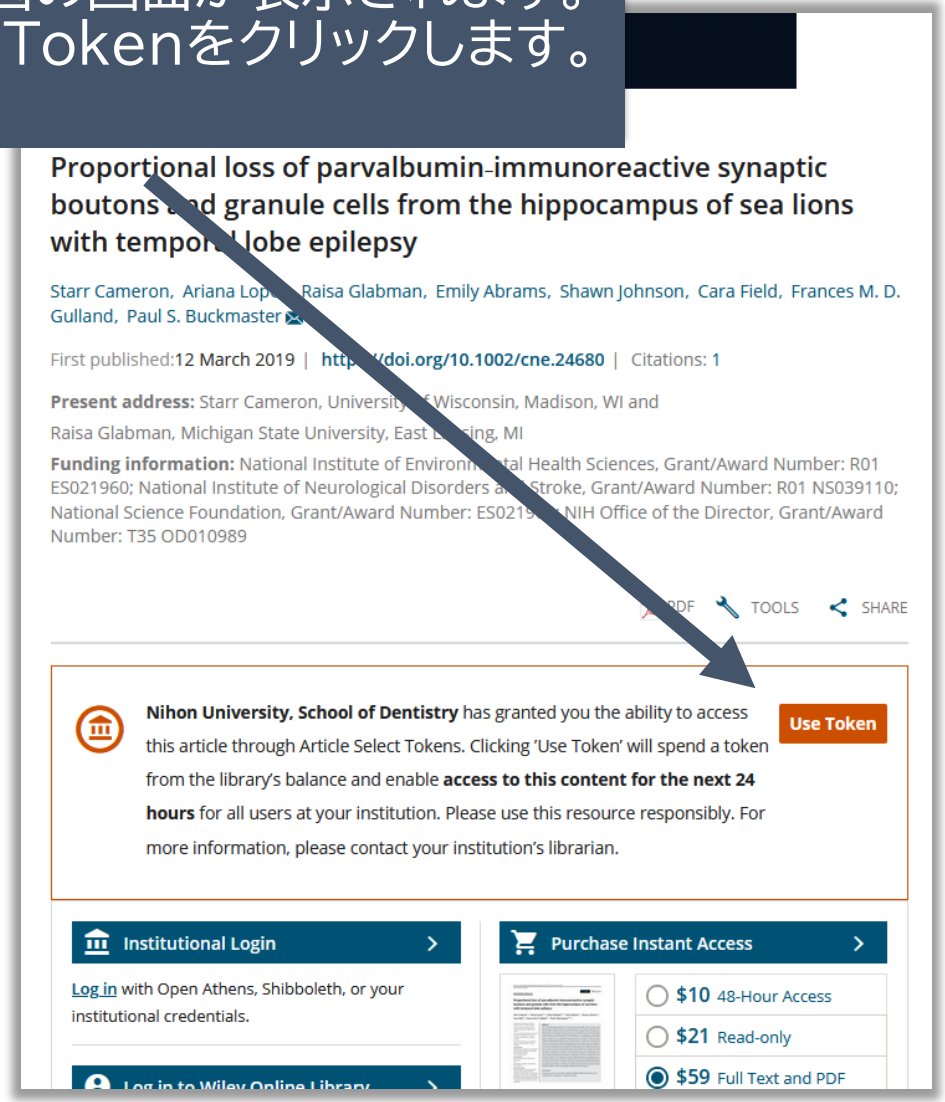

Proportional loss of parvalbumin-immunoreactive synaptic boutons and granule cells from the hippocampus of sea lions with temporal lobe epilepsy

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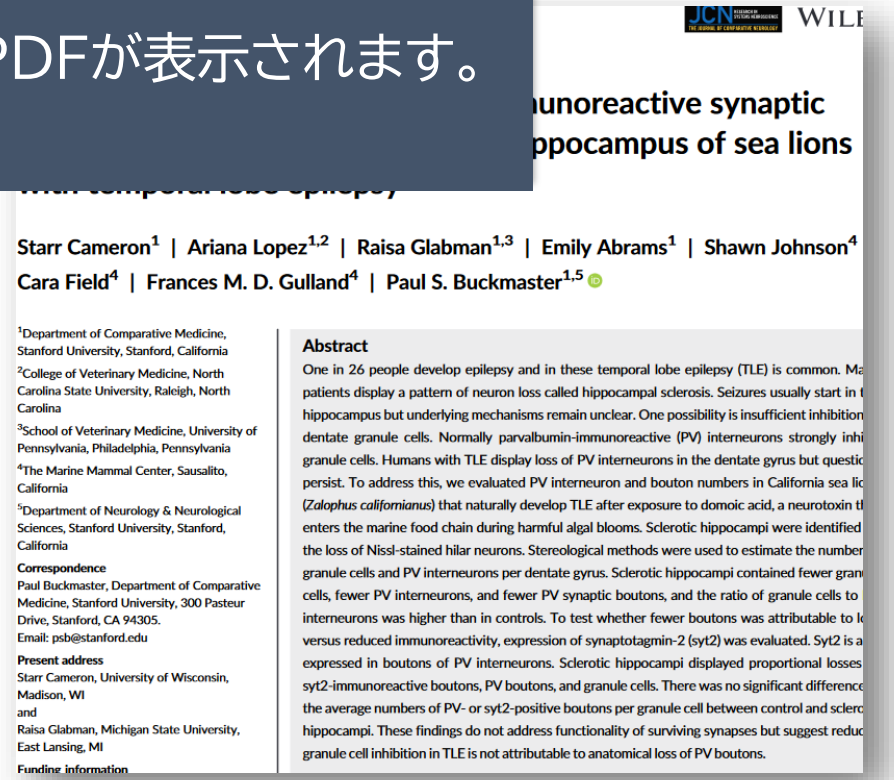

...unoreactive synaptic ...ppocampus of sea lions

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Abstract

One in 26 people develop epilepsy and in these temporal lobe epilepsy (TLE) is common. Ma... patients display a pattern of neuron loss called hippocampal sclerosis. Seizures usually start in t... hippocampus but underlying mechanisms remain unclear. One possibility is insufficient inhibition... dentate granule cells. Normally parvalbumin-immunoreactive (PV) interneurons strongly inhi... granule cells. Humans with TLE display loss of PV interneurons in the dentate gyrus but questio... persist. To address this, we evaluated PV interneuron and bouton numbers in California sea lio... (*Zalophus californianus*) that naturally develop TLE after exposure to domoic acid, a neurotoxin t... enters the marine food chain during harmful algal blooms. Sclerotic hippocampi were identified... the loss of Nissl-stained hilar neurons. Stereological methods were used to estimate the number... granule cells and PV interneurons per dentate gyrus. Sclerotic hippocampi contained fewer gran... cells, fewer PV interneurons, and fewer PV synaptic boutons, and the ratio of granule cells to ... interneurons was higher than in controls. To test whether fewer boutons was attributable to l... versus reduced immunoreactivity, expression of synaptotagmin-2 (syt2) was evaluated. Syt2 is a... expressed in boutons of PV interneurons. Sclerotic hippocampi displayed proportional losses... syt2-immunoreactive boutons, PV boutons, and granule cells. There was no significant difference... the average numbers of PV- or syt2-positive boutons per granule cell between control and sclero... hippocampi. These findings do not address functionality of surviving synapses but suggest reduc... granule cell inhibition in TLE is not attributable to anatomical loss of PV boutons.

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