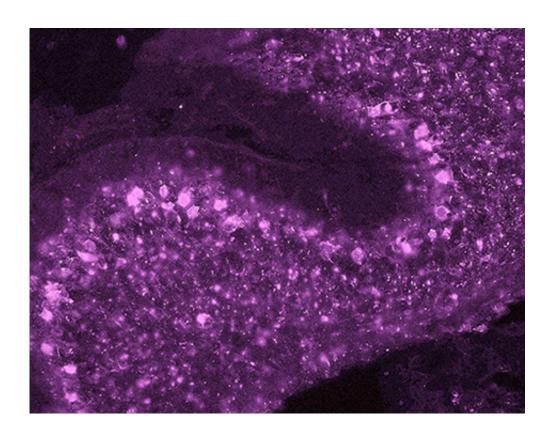


## Zika uses axons to spread havoc in central nervous system

January 27 2017, by Bill Hathaway



Zika virus-infected neurons and glia in the developing mouse cerebellum are shown in purple. Credit: Yale University

The Zika virus wreaks havoc in the central nervous system well after the initial stages of pregnancy and can use long axon projections of neurons to spread, a new Yale School of Medicine study suggests.



The researchers tracked infections in the brains of newborn mice, the equivalent developmentally to a second trimester fetus in human pregnancy. Zika's ability to stunt brain development and cause microcephaly soon after conception is well documented. The new study suggests the virus can continue to spread to areas of the brain such as the visual system in later brain development.

"And within seven days of <u>infection</u> outside the brain, we see evidence of infection in most areas of the brain," said Anthony van den Pol, professor of neurosurgery and lead author of the study published Jan. 25 in the *Journal of Neuroscience*. The study suggests that the virus may also cause other <u>neurological problems</u> that would be more difficult to diagnose than microcephaly, he said.

**More information:** Anthony N. van den Pol et al. Zika virus targeting in the developing brain, *The Journal of Neuroscience* (2017). DOI: 10.1523/JNEUROSCI.3124-16.2017

## Provided by Yale University

Citation: Zika uses axons to spread havoc in central nervous system (2017, January 27) retrieved 23 April 2024 from

https://medicalxpress.com/news/2017-01-zika-axons-havoc-central-nervous.html

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.