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Lice in 25 states are resistant to over-the-counter

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Chemicals found in prescription treatments for head lice should still be effective, researchers said.

By Stephen Feller | Aug. 18, 2015 at 3:32 PM

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Researchers said that lice becoming resistant to chemicals used to kill them is natural and that prescription remedies should continue to work, Photo by JPC-PROD/Shutterstock

BOSTON, Aug. 18 (UPI) - Head lice populations in 25 states are resistant to the active ingredient in many over-the-counter treatments recommended by doctors and schools, scientists found in new research.

Generally considered a nuisance because they don't carry disease, lice can sthuteds UPI en Español Log in or Register!

d using different chemicals found in prescription treatments.

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MiWeare the first group to collect lice samples from a large number of populations

Macros the U.S.," said Dr. Kyong Yoon, a researcher at Southern Illinois University at

OEdwardsville, in a press release. "What we found was that 104 out of the 109 lice

Bpopulations we tested had high levels of gene mutations, which have been linked to

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Spiretfioids are a type of insecticide used for mosquitoes and other insects that contain Health

Apelysisthrin, the active ingredient in over-the-counter lice treatment products.

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Newson collected lice from 30 states, analyzing them for knock-down resistance, or kdr, Entertainment

sputations. Kdr mutations cause changes that desensitize insects' nervous system to

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The vast bulk of states - 25, including Florida, Texas and California - had lice with all three of the genetic mutations associated with kdr. Of the other five Yoon gathered lice in, New York, New Jersey, New Mexico and Oregon had lice populations with one, two or all three of the mutations, and lice in Michigan were could still be killed with pyrethroids.



Lice that are resistant to permethrin-based treatments have been found in 25 states, all of which are colored pink in the above map. Photo by Dr. Kyong Yoon/Shutterstock

"If you use a chemical over and over, these little creatures will eventually develop resistance," Yoon says. "So we have to think before we use a treatment. The good news is head lice don't carry disease. They're more a nuisance than anything else."

The study on lice populations across the United States will be presented at a meeting of the American Chemical Society in Boston this week.

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