

## Highlight: Influenza virus gaining power in pigs?

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The June 18 issue of *Science* reports that by monitoring the swine at a Hong Kong slaughterhouse, researchers have found that the pandemic H1N1 influenza virus from 2009 has been reorganizing its genes in pigs for the past year and a half.

This discovery concerns the researchers because further genetic "reassortment" could eventually give rise to another [flu strain](#) that is harmful to humans.

For this reason, Dhanasekaran Vijaykrishna and colleagues argue that global surveillance of swine should be heightened.

In a Brevium, these researchers describe how they identified a novel genetic reassortment of the H1N1 virus in January of this year and analyzed it to confirm that it arose from the H1N1/2009 virus.

They suggest that the introduction of the H1N1/2009 virus back into swine allowed it to reorganize its genes, and they warn that this 2010 [H1N1](#) virus could undergo further reassortment in swine and become dangerous to humans.

Vijaykrishna and colleagues call for a complete characterization of the eight H1 influenza genes identified in the new strain so that future reassortment events can be quickly recognized and identified.

**More information:** "Reassortment of Pandemic H1N1/2009 Influenza

A Virus in Swine," by D. Vijaykrishna; L.L.M. Poon; H.C. Zhu; S.K. Ma; O.T.W. Li; C.L. Cheung; G.J.D. Smith; J.S. M. Peiris; Y. Guan at University of Hong Kong in Hong Kong, China; D. Vijaykrishna; H.C. Zhu; G.J.D. Smith; Y. Guan at Shantou University Medical College in Shantou, China; D. Vijaykrishna at Duke-NUS Graduate Medical School in Singapore, Singapore.

Provided by AAAS

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