## NativeAntigen Disease | Public Health | Technology November Infectious Disease Summary November 2019

New Zika Envelope Domain III Antigens. To complement our growing range of Zika antigens, antibodies and immunoassays, we now offer the Envelope Domain III antigen. Zika Envelope protein's DIII domain has shown to elicit antibodies that show considerable variability in their strain specificity, domain specificity and neutralising ability, which has made DIII a viable target for both diagnostics and vaccines. DIII's serotype-specific epitopes can considerably improve diagnostic accuracy, while DIII's ability to elicit broadly neutralising, cross-reacting antibodies may provide a means of treating and immunising against multiple DENV serotypes. <u>Read more.</u>

**Third Case of Bubonic Plague Reported in China.** China's Inner Mongolia region has reported a new confirmed case of bubonic plague, following two reports earlier this month. The most recent case concerns a 55-year-old male who likely caught *Yersinia pestis* from a wild rabbit that he had killed and eaten. While the disease is not a serious health threat, concerns have been raised about the veracity of reporting in the regions affected. <u>Read more.</u>

Samoa Declares State of Emergency Following Measles Outbreak. The Samoan government has closed schools until further notice as it attempts to stem a measles outbreak that has already killed six people and infected nearly 1,000. As only around 66% of the island populations are vaccinated against Measles, low immunisation rates have allowed the virus to spread unchecked. <u>Read more.</u>

**20** Cases of African Swine Fever in Wild Boars in Poland. 20 wild boar carcasses have been found across 9 locations throughout Poland this month, following investigations by health authorities. The virus is now less than 100km from Germany. With a mortality rate as high as 100%, African Swine Fever virus poses a serious risk to pig populations throughout Europe. <u>Read more.</u>

**Ebola Virus Persists in Survivors Following Apparent Discharge.** A recentlypublished report found that 10% of Male Ebola survivors tested positive for Ebola virus RNA in their semen, 40 months after initial infection. The possibility of long-term Ebola persistence suggest that new diagnostics and follow-up procedures will be needed to prevent sexual transmission of the virus. <u>Read</u> <u>more.</u>

Three Cases of Autochthonous Zika Infection Reported in France. Three cases of Zika virus infection have been reported in the Hyeres, Southern France.

cases. Considering that active investigations were required to find two of the three cases of Zika infection (which is asymptomatic for 80% of infections) it is likely that many cases have gone unreported. <u>Read more.</u>

## In Case You Missed It





## **November Podcasts**

TWiM: Resuscitating Persisters and Flagellotropic Phage

TWiV: Inventing Viruses

TWiV: Your EV-D68th Nervous Breakdown



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