

1 **Amino Acid Variation at Hemagglutinin Position 193 Impacts the Properties of H9N2 Avian**  
2 **Influenza Virus**

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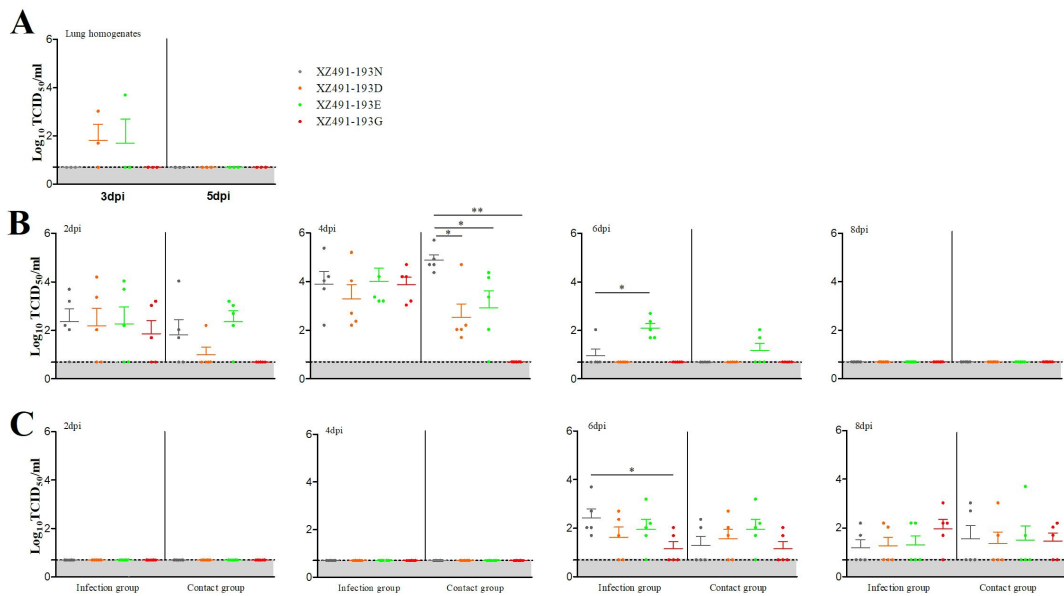
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33 **SUPPLEMENT FIGURE LEGEND**

34 **Fig. S1:** Replication and transmission of the H9N2 viruses with various amino acids at HA  
35 position 193 in chickens. Groups of 2 weeks-old chickens were infected intranasally with  $10^5$   
36 TCID<sub>50</sub> of each virus and five uninfected chickens were introduced as direct-contact group. At 3  
37 and 5 dpi, three chickens each infected group were sacrificed and lung samples were collected to  
38 determine virus titers (A). At 2, 4, 6, 8 and 10 dpi, oropharyngeal (B) and cloaca (C) swabs from  
39 infected and contact groups were collected to determine the virus titers. The statistical analysis  
40 was performed with Mann Whitney U test. \*, \*\*, and \*\*\* indicate *P* values of less than 0.05, 0.01  
41 and 0.001, respectively.



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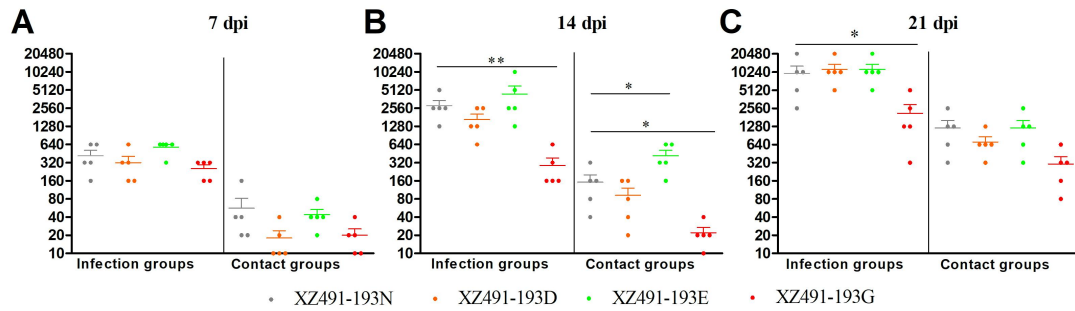
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54 **Fig. S2:** Antibody response in chickens to H9N2 viruses with various amino acids at HA position  
55 193. Shown were HI titers of sera collected at 7, 14 and 21 dpi from chickens in infected and  
56 direct-contact groups. The statistical analysis was performed with Mann Whitney U test. \*, \*\*,  
57 and \*\*\* indicate *P* values of less than 0.05, 0.01 and 0.001, respectively.

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