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Project Title	Development of universal vaccines against seasonal influenza
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Report	<p>To develop a universal vaccine that induces broadly cross-reactive antibodies targeting the stem domain of influenza viruses, we generated a virus library with random mutations in the immunodominant epitopes on the HA head domain of a circulating seasonal influenza A virus (A/Tokyo/UT-IMS2-1/2014, a human H3N2 virus of clade 3c.2a) by using reverse genetics. In this fiscal year, this virus library was screened with human convalescent sera, and more than 70 mutant HA viruses with antigenicity different from that of the wild-type virus were identified.</p>