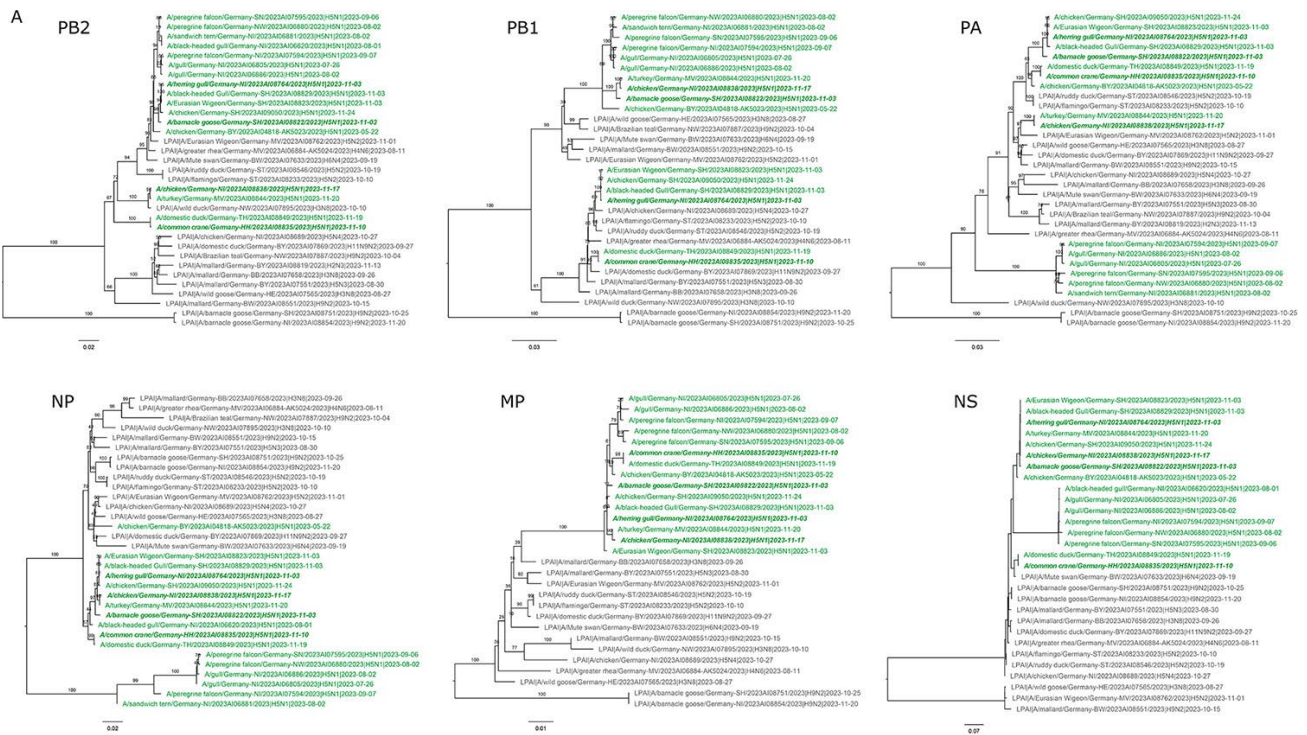


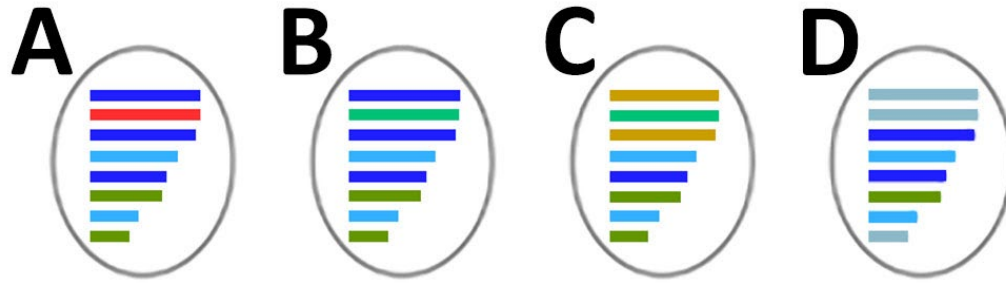
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Novel Genotypes of Highly Pathogenic Avian Influenza H5N1 Clade 2.3.4.4b Viruses, Germany, November 2023

Appendix



Appendix Figure 1. Phylogeny of genome segments coding for polymerase (PB2, PB1, PA), nucleoprotein (NP), matrix protein (MP), and nonstructural (NS) bearing segments of highly pathogenic avian influenza (HPAI) and low pathogenic avian influenza (LPAI) viruses collected late May to late November 2023 in Germany. Sequences from HPAI viruses are highlighted in green and reference strains for the new genotypes are shown in bold italics. Sequences of older HPAIV genotypes identified in summer are included for comparison.



Appendix Figure 2. Overview of segment composition of the newly detected genotypes identified in November 2023 with the respective reference strains. A) Ger-11-23-N1.1 (DB) A herring gull/Germany-NI/2023AI08764/2023. B) Ger-11-23-N1.2 (AB) A barnacle goose/Germany-SH/2023AI08822/2023. C) Ger-11-23-N1.3 (DG) A/chicken/Germany-NI/2023AI08838/2023. D) Ger-11-23-N1.4 (DA) A/common crane/Germany-HH/2023AI08835/2023.