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## **Description of Additional Supplementary Files**

- 2 File Name: Supplementary Data 1
- 3 Description: Data showing virus-host associations, citations and GenBank accessions numbers.
- 4 File Name: Supplementary Data 2
- 5 Description: The relative importance of variables for different models.
- 6 File Name: Supplementary Data 3
- 7 Description: Species predictions generated by all stratified generalized boosted regression models for
- 8 virus groups and the labels used for training data.