

























16. R. C. Edgar, "MUSCLE: multiple sequence alignment with high accuracy and high throughput," *Nucleic Acids Res*, vol. 32, pp. 1792-7, 2004.
17. N. K. Sauter, J. E. Hanson, G. D. Glick, J. H. Brown, R. L. Crowther, S. Park, J. J. Skehel, and D. C. Wiley, "Binding of influenza virus hemagglutinin to analogs of its cell-surface receptor, sialic acid: analysis by proton nuclear magnetic resonance spectroscopy and X-ray crystallography," in *Biochemistry*, vol. 31, 1992, pp. 9609-21.
18. Y. Ha, D. J. Stevens, J. J. Skehel, and D. C. Wiley, "X-ray structures of H5 avian and H9 swine influenza virus hemagglutinins bound to avian and human receptor analogs," *Proc Natl Acad Sci U S A*, vol. 98, pp. 11181-6, 2001.
19. I. H. Witten and E. Frank, *Data mining : practical machine learning tools and techniques*, 2nd ed. Amsterdam ; Boston, MA: Morgan Kaufman, 2005.
20. T. Bizebard, B. Gigant, P. Rigolet, B. Rasmussen, O. Diat, P. Bosecke, S. A. Wharton, J. J. Skehel, and M. Knossow, "Structure of influenza virus haemagglutinin complexed with a neutralizing antibody," *Nature*, vol. 376, pp. 92-4, 1995.
21. D. Fleury, B. Barrere, T. Bizebard, R. S. Daniels, J. J. Skehel, and M. Knossow, "A complex of influenza hemagglutinin with a neutralizing antibody that binds outside the virus receptor binding site," *Nat Struct Biol*, vol. 6, pp. 530-4, 1999.
22. D. J. Smith, A. S. Lapedes, J. C. de Jong, T. M. Bestebroer, G. F. Rimmelzwaan, A. D. Osterhaus, and R. A. Fouchier, "Mapping the antigenic and genetic evolution of influenza virus," *Science*, vol. 305, pp. 371-6, 2004.
23. B. P. Blackburne, A. J. Hay, and R. A. Goldstein, "Changing selective pressure during antigenic changes in human influenza H3," *PLoS Pathog*, vol. 4, pp. e1000058, 2008.