

Fig. S1

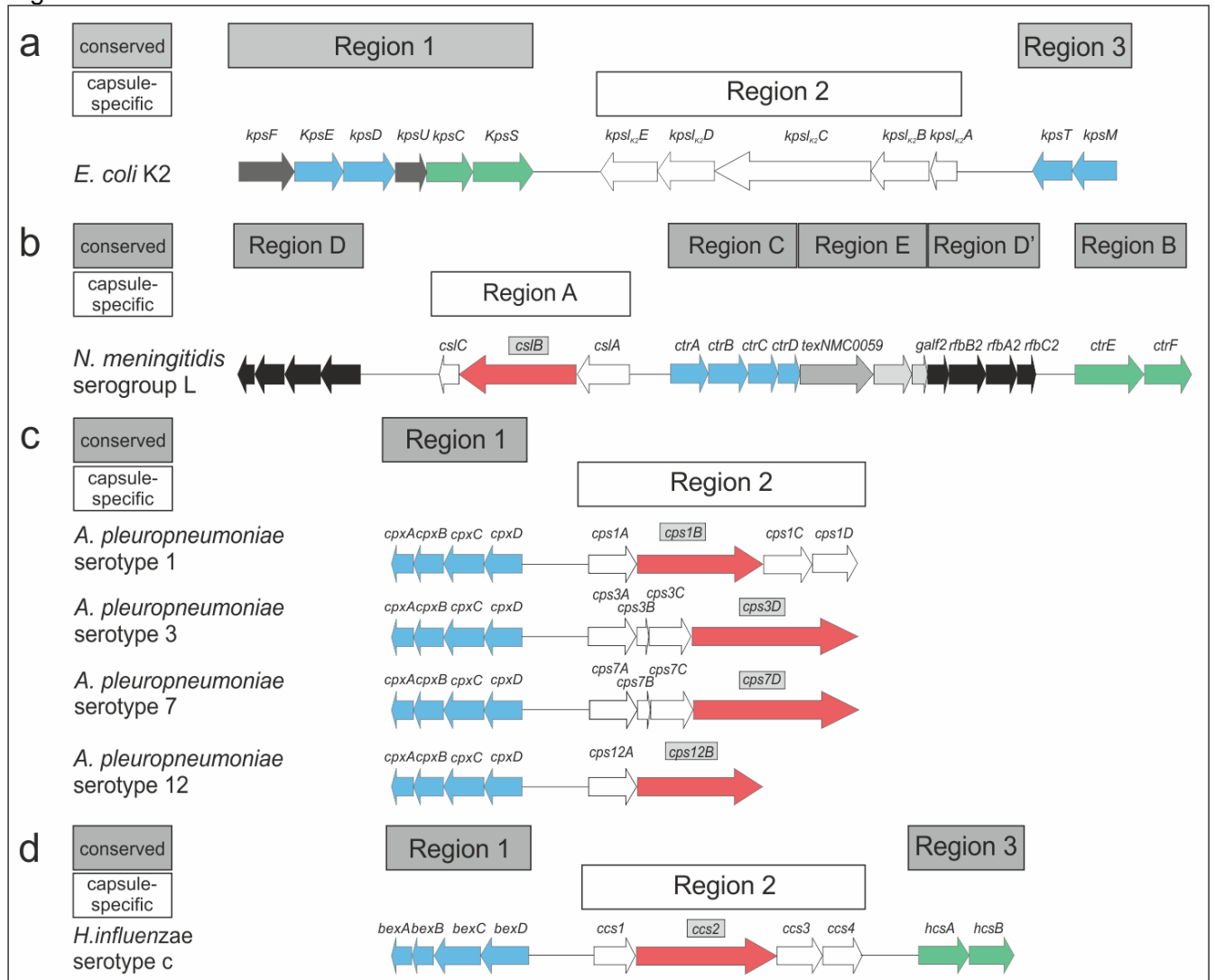


Fig. S1: Schematic overview of the capsule gene clusters of **a** *E. coli* K2 (modified from E. L. Buckles, X. Wang, M. C. Lane, C. V. Lockett, D. E. Johnson, D. A. Rasko, H. L. T. Mobley, M. S. Donnenberg, *J Infect Dis* 199:1689–97, 2009), **b** *N. meningitidis* serogroup L (modified from O. B. Harrison, H. Claus, Y. Jiang, J. S. Bennett, H. B. Bratcher, K. A. Jolley, C. Corton, R. Care, J. T. Poolman, W. D. Zollinger, et al., *Emerg Infect Dis* 19:566–73, 2013), **c** *A. pleuropneumoniae* serotypes 1, 3, 7 and 12 (modified from H. Ito, *J Vet Med Sci* 77:583–6, 2015; S. G. Jessing, P. Ahrens, T. J. Inzana, Ø. Angen, *Vet Microbiol* 129:350–9, 2008; Z. Xu, X. Chen, L. Li, T. Li, S. Wang, H. Chen, R. Zhou, *J Bacteriol* 192:5625–36, 2010) and **d** *H. influenzae* serotype c (modified from S. W. Satola, P. L. Schirmer, M. M. Farley, *Infect Immun* 71:3639–3644, 2003; T.-T. Lãm, H. Claus, M. Frosch, U. Vogel, *Res Microbiol* 162:483–7, 2011; S. Sukupolvi-Petty, S. Grass, J. W. St Geme, III, *J Bacteriol* 188:3870–7, 2006). The gene clusters are divided into conserved regions (grey boxes) and capsule-specific regions (white boxes). The conserved regions encode proteins necessary for translocation (green) and export (blue) of the capsule polymer to the cell surface. Genes encoding capsule polymerases are highlighted in red and localized in the capsule specific region. Genes and interspaces in this scheme are not drawn to scale. Graphical representation in the style of B. F. Cress, J. A. Englaender, W. He, D. Kasper, R. J. Linhardt, M. A. G. Koffas, *FEMS Microbiol Rev* 38:660–697, 2014.