Logged statistic Likelihood Posterior Species tree height 128.0 **-**64.0 -32.0 -ESS rate (relative to \*BEAST species tree height) Per hour 16.0 -8.0 -• • 4.0 -2.0 -1.0 -• 128.0 **-**64.0 -32.0 -Per million states 16.0 -8.0 -4.0 -2.0  $oldsymbol{ol}}}}}}}}}}}}}}}$ 1.0 - Concatenation - \*BEAST

StarBEAST2 gene tree UCLNStarBEAST2 species tree UCLN