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Results

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Results

- 1 The cladistic analysis returned 5740 equally most parsimonious trees (MPTs). The fit between the data and the trees was measured with the Retention Index, which was calculated as 0.72. Figure 2 shows a consensus tree representing relationships that were
- 5 present in the majority of the MPTs and levels of support for them returned in a bootstrap analysis. The tree, which is unrooted, splits the tales into three principal groups. The first group corresponds to international type ATU 333, which was present in 62% of the cladograms generated from the bootstrap replicates. The group
- 10 comprises the 11th century Liège tale and three recognised sub-types of ATU 333: variants of Catterinella (with bootstrap support of 84%), variants of The Story of Grandmother (61% bootstrap support), and variants of the familiar tale Little Red Riding Hood (20% bootstrap support). The latter include two non-European tales, one from Iran,
- 15 the other collected from the Ibo of Nigeria. The analyses separated Catterinella from the other tales, and suggest that the 11th century Liège tale diverged from the lineage leading to Little Red Riding Hood before the latter split from the oral tale The Story of Grandmother. The Little Red Riding Hood clade separates Perrault's 20 classic version from more recent versions, including the Grimms'

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18th century German text. However, the low levels of boostrap support indicate a substantial degree of conflicting signal surrounding these relationships. The second major group can be identified as international type ATU 123. This group is less well supported than the ATU 333 group, being present in only 49% of the cladograms 25 generated from the bootstrap analysis (although it was present in all of the MPTs returned by the original analysis). The first split (with bootstrap support of 59%) in this lineage separates the Indian tale of the Sparrow and the Crow from the others. The remaining tales split into two lineages, one leading to a pair of Aesopic 30 fables (53% bootstrap support), the other leading to the folktale The Wolf and the Kids (59% boostrap support). The latter includes a clade comprising the African tales, together with a tale recorded in Antiqua (24% boostrap support). The third major group is formed by the East Asian tales. This group was the least well supported 35 in the bootstrap analysis (35%), and does not appear to contain any robust sub-groups larger than two taxa.

The Bayesian analysis returned a very similar set of results. Figure 3 shows an unrooted maximum clade credibility tree obtained

40 from the posterior distribution. It represents the same three major groupings, with varying levels of support in the posterior distribution of trees. The ATU 333 group is again the most strongly supported, being present in 87% of the tree sample. Tales within

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this group cluster into the same recognised sub-types of ATU 333
45 that were returned in the cladistic analysis, including Catterinella (with posterior support of 94%), The Story of Grandmother (94%) and Little Red Riding Hood (54%), with the Liège tale forming a separate branch. Compared to the ATU 333 group, support for the ATU 123 group is relatively modest at 55%. Relationships within the group

- 50 separate variants of the Aesopic fable from the other narratives. The latter clade (51% posterior probability) includes European and Middle Eastern variants of The Wolf and the Kids, the Indian tale of the Sparrow and the Crow, and a clade comprising the African tales (55% posterior probability). The final major grouping consists
- 55 of the East Asian tales, which has a posterior probability of 64%. Relationships within this group generally lack resolution, except for one clade that clusters two tales from Korea (TG12 and TG13) with one from Myanmar (TG14) (71% posterior probability).
- The NeighbourNet graph is shown in Figure 4. Once again, the tales are divided into the same three main groups, except the Indian tale, which does not cluster with any of them. Although the groups are clearly discernible, the overlapping boxes demonstrate conflicting splits in the data. This is especially clear in the East Asian clade, which exhibits a highly reticulated structure. Similarly, overlapping 65 boxes obscure the phylogenetic structure within the ATU 123 group,
 - although it is possible to identify a split between the fable and

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folktale versions of the story, with the latter again including a clade of African tales (plus the Antiguan variant). The ATU 333 group, meanwhile, divides into two relatively well defined branches, one comprising variants of Catterinella and the medieval Liège tale, the other variants of Little Red Riding Hood and The Story of Grandmother (which each forming a distinct clade). Estimates of the overall tree-likeness/boxiness of the network yielded an average delta score of 0.3 and Q-residual score of 0.03.