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## Creating kingdoms

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The rapidity of the **explosive radiation** of eukaryote taxa has led to **suggestions** that relationships among these taxa may never be resolved. But in the 3 November **Science**, Baldauf *et al.* propose that the use of sequences other than those of the traditional ribosomal RNA genes offers hope (*Science* 2000, **290**:972-977). Based on the sequences of  $\alpha$ -tubulin,  $\beta$ -tubulin, actin, and elongation factor 1-alpha, Baldauf *et al.* propose a phylogeny of 14 higher order eukaryote taxa. The use of multiple sequence sources dilutes errors arising from horizontal gene transfer, and consideration of multiple genes supports groupings that are not identified by single genes considered in isolation.

## References

1. The early evolution of eukaryotes: a geological perspective.
2. The early evolution of eukaryotes: a geological perspective.
3. *Science*, [<http://www.sciencemag.org/>]