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Anna Magdalena Kedzierska* (anna.kedzierska@crg.es), c/Dr.Aiguader 88, Bioinformatics and Genomics, Barcelona Biomedical Research Park, 08003 Barcelona, Spain. *Model selection for mixture models.*

Phylogenetic data arising on different tree topologies might be mixed on a given alignment. Models taking it into account usually contain a large number of parameters and require tools beyond the standard model fitting framework. Here we discuss an approach for model selection of algebraic models on m-tree mixtures. This is joint work in progress with Marta Casanellas and Jesús Fernández-Sánchez (Received January 26, 2010)