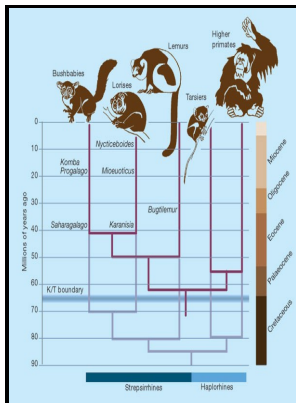


Primate origins and evolution - a phylogenetic reconstruction

Princeton University Press - Positive Selection During the Diversification of Class I Vomeronasal Receptor



Description: -

- Primates -- Phylogeny.

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Primate Origins and Evolution: A Phylogenetic Reconstruction by R.D. Martin

Pseudogene formation is not confined to the human lineage, but has occurred independently in different lineages and, in marmosets at least, in several genes. Contrasting hypotheses have been proposed, presumably due to different markers and the presence of polymorphisms in the features considered; furthermore, neither Neotropical primate biodiversity nor their taxonomy are entirely known. The clade containing all primate V1RL1 to V1RL4 genes has strong bootstrap support in our analysis, and we used this clade to investigate patterns of selection described below.

Positive Selection During the Diversification of Class I Vomeronasal Receptor

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Major Questions in the Study of Primate Origins

Molecules consolidate the placental mammal tree. Date estimates for nodes within each family and genus are presented, with estimates for key splits including: Strepsirrhini-Haplorhini 64 million years ago MYA, Lemuriformes-Lorisiformes 52 MYA, Platyrrhini-Catarrhini 43 MYA and Cercopithecoidea-Hominoidea 29 MYA.

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Mitochondrial tree of platyrrhine species.

A euprimate skull from the early Eocene of China

The V1RL1 gene phylogeny is generally consistent with the accepted primate species phylogeny. Ontogenie und Entwicklungsphysiologie der Säugetiere. We also analysed positive selection along different branches within Simiiformes.

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