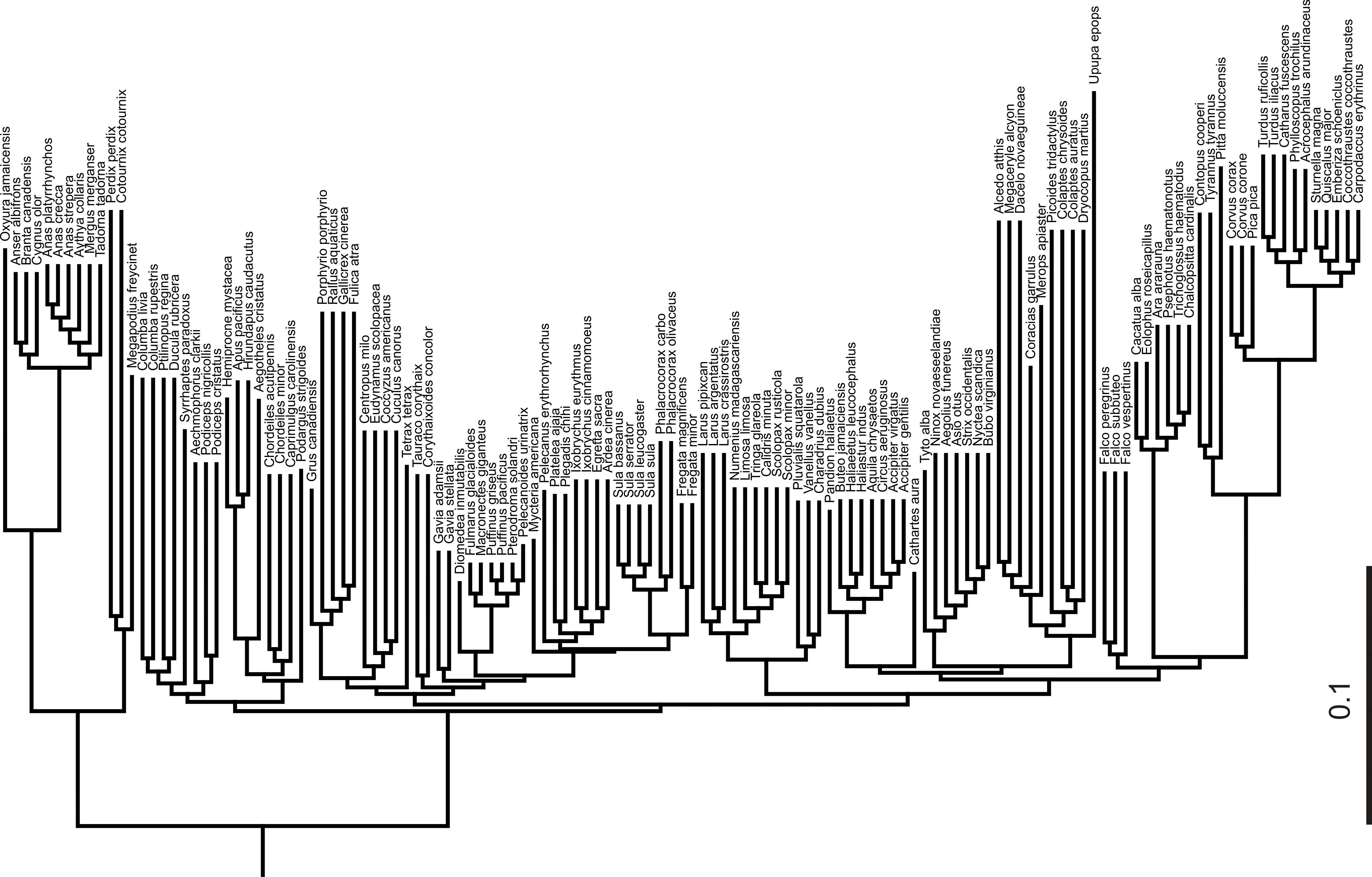
**Figure S1.** Cladogram for Neognathae, which includes 129 of the 164 species used in this study. The branch calibration and the basal relationships up to the family level follow the classification of Hackett et al. (2008) based on nuclear DNA sequences of 19 independent loci. Scale bar indicates substitutions per site. For those families with more than two species, internal relationships were solved with specific references: Accipitridae (Lerner and Mindell 2005), Alcedinidae (Luczon et al. 2010), Alcidae (Pereira and Baker 2008), Anatidae (Donne-Goussé et al. 2002), Charadriidae (Ericson et al. 2003), Columbidae (Johnson and Clayton 2000), Cuculidae (Hughes 2000), Fringillidae (Barker et al. 2004), Hirundinidae (Sheldon et al. 2005), Laridae (Pons et al. 2005), Motacillidae (Voelker and Edwards 1998), Picidae (Benz et al. 2006), Procellaridae (Kennedy and Page 2002), Psittacidae (Wright et al. 2008), Rallidae (Livezey 1998), Scolopacidae (Thomas 2004), Strigidae (Wink et al. 2009), Turdidae (Sangster et al. 2010).



**References of Figure S1**

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