a) Create a DateLife search query

a1) Assembled a list of species names. This is the list of 6 bird species:

- *Pheucticus tibialis*
- *Rhodothraupis celaeno*
- *Emberiza citrinella*
- *Emberiza leucocephalos*
- ***Emberiza elegans***
- *Platyspiza crassirostris*

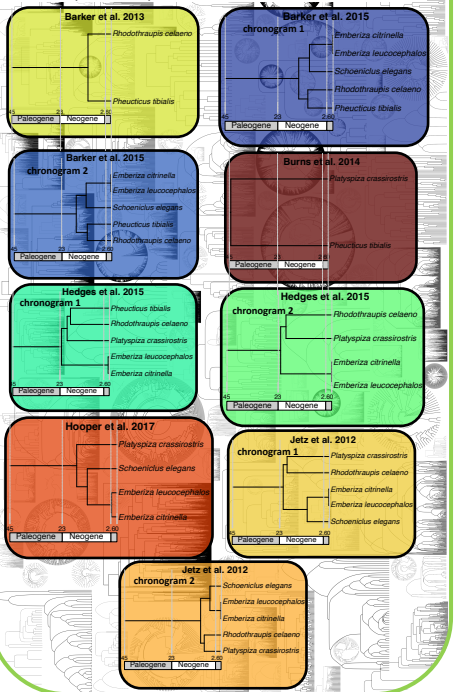
a2) Processed species names with **TNRS** and **standardized** to the OpenTree Taxonomy v3.3draft1.
One species name (shown in bold) is a synonym in the standardized taxonomy.

- *Pheucticus tibialis*
- *Rhodothraupis celaeno*
- *Emberiza citrinella*
- *Emberiza leucocephalos*
- ***Schoeniclus elegans***
- *Platyspiza crassirostris*

b) Search DateLife's chronogram database

b1) Searched processed taxon names across 253 chronograms in **DateLife's database v0.6.2.**

b2) Search resulted in **9 source chronograms** from 6 independent, published studies:



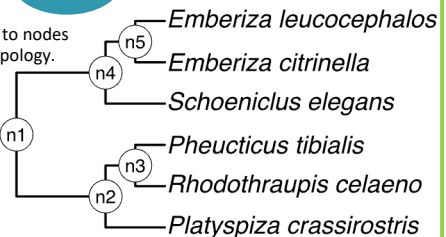
c) Summarize DateLife's search results

c1) Chose a **tree topology** from OpenTree's synthetic phylogeny v13.4.

c2) Congruified source chronogram nodes to nodes of the OpenTree topology. See Table 1.

c3) Get summarized congruified ages per node. See Table 2.

OpenTree topology



c4) Used summarized ages of congruent nodes to **date the chosen tree topology** with BLADJ.

Median summary chronogram