a) Creating a DateLife search query

a1) User provides a list of **taxon names**, as a character string or as a tree:

a
B_1
C
D
Ee
F_x

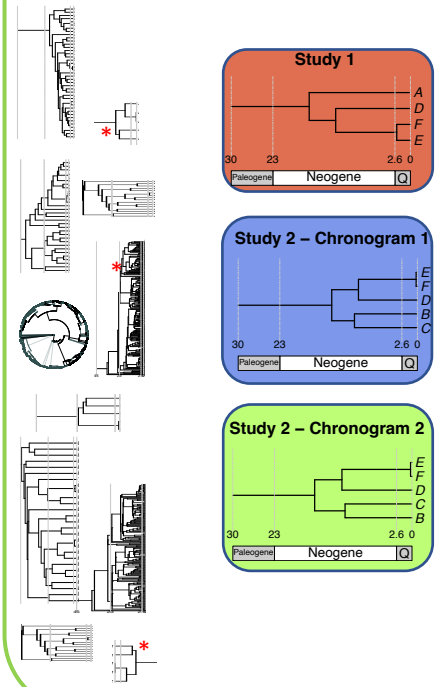
a2) Process taxon names with **TNRS** and **standardize** to a taxonomy. In this example, 4 names are synonyms in the standardized taxonomy (bold):

A
B
C
D
E
F

b) Searching DateLife's chronogram database

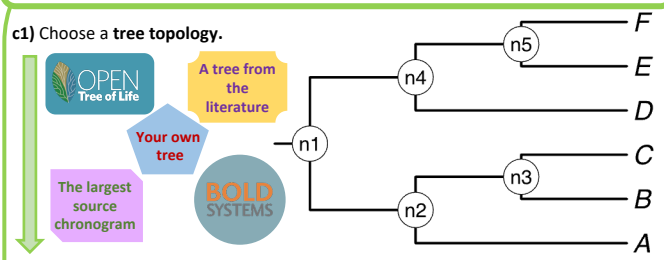
b1) Search **processed taxon names** in chronogram database and identify (*).

b2) Prune matching chronograms and save as **source chronograms**.



c) Summarizing DateLife's search results

c1) Choose a **tree topology.**



c2) Congruify source chronogram nodes to nodes of tree topology.

	Node Name	taxonA	taxonB	Median Pairwise Age
1	n1	A	D	15.5959128
2	n1	A	E	13.8809227
3	n1	A	F	13.8809227
4	n1	B	D	15.8025730
5	n1	B	E	16.6600685
6	n1	B	F	16.6600685
7	n1	C	D	15.8025727
8	n1	C	E	16.6600683
9	n1	C	F	16.6600683
10	n3	C	B	11.6465263
11	n4	E	D	11.2403361
12	n4	F	D	11.2403361
13	n5	E	F	0.8081026

c3) Summarize congruified node ages.

Node Name	Min.	Median	Max.	SD
n1	15.31607	15.31607	16.94996	0.8169463
n3	10.86999	10.86999	10.86999	NA
n4	11.73176	11.73176	11.73176	0.0000000
n5	0.24093	0.24093	0.24093	NA

c4) Use summary ages of congruent nodes to **date a tree topology.**

Median summary chronogram