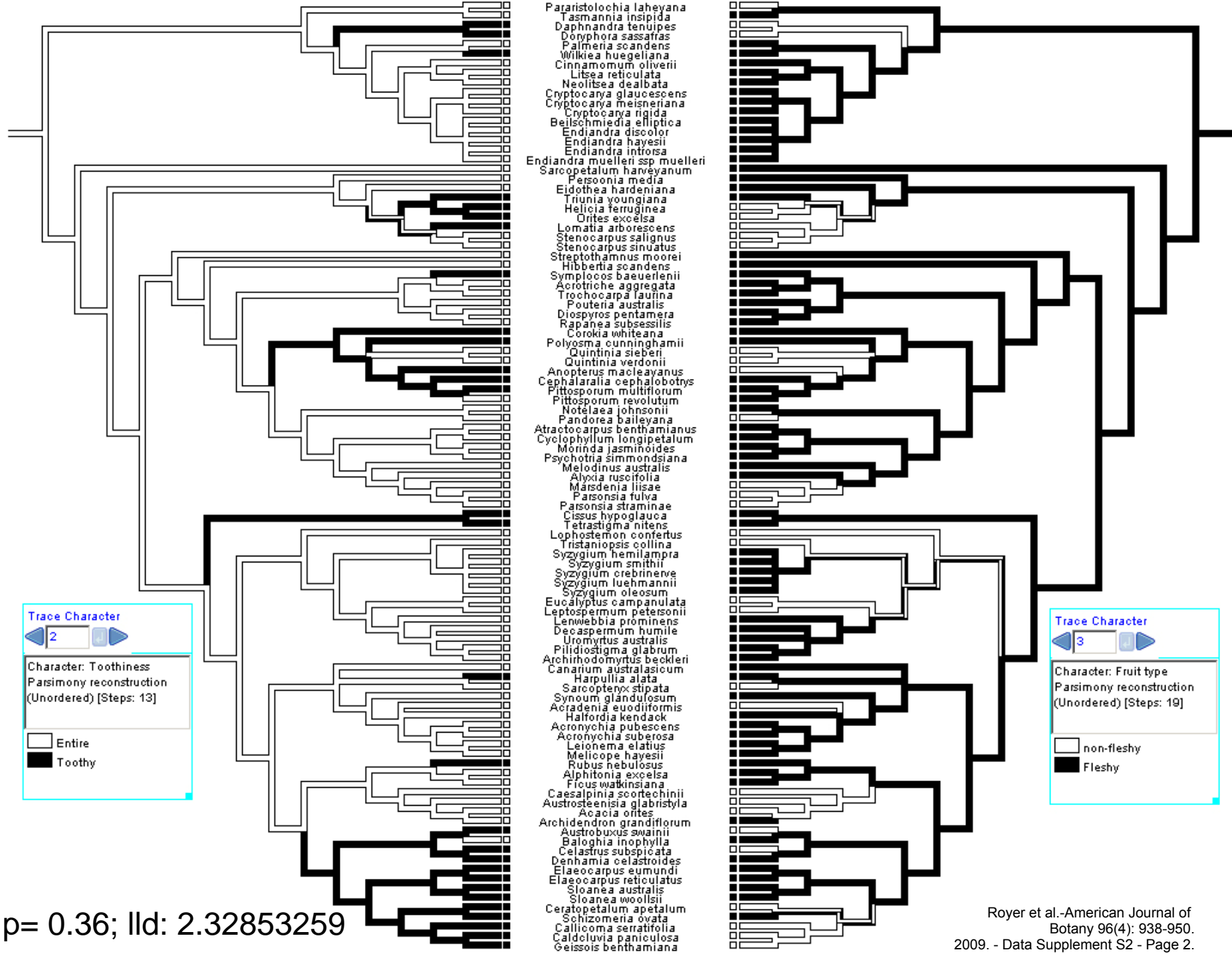


Royer et al.-American Journal of Botany 96(4): 938-950. 2009. Data Supplement S2.

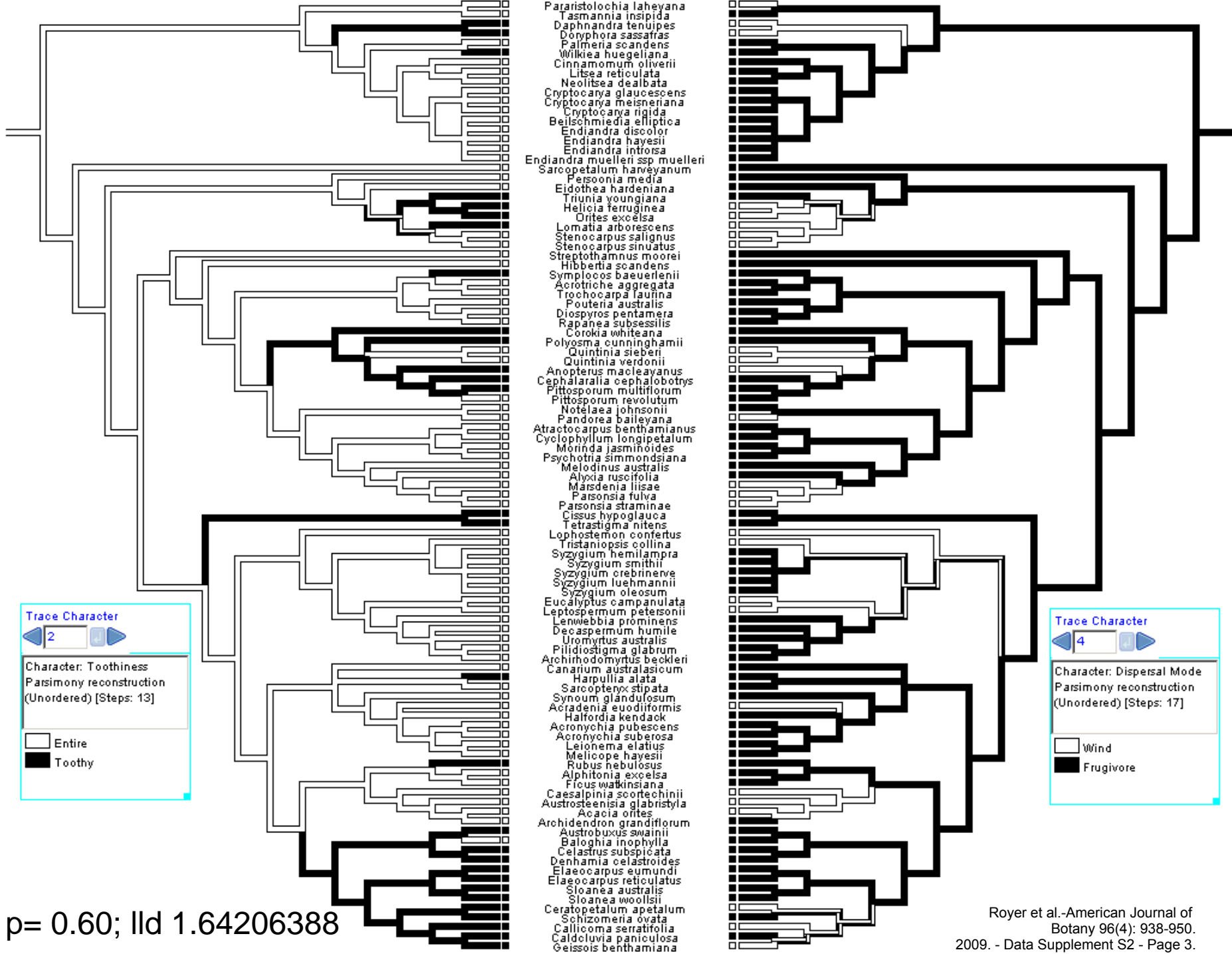
ROYER, DANA L., ROBERT M. KOOYMAN, STEFAN A. LITTLE, AND PETER WILF. Ecology of leaf teeth: A multi-site analysis from an Australian subtropical rainforest. American Journal of Botany 96(4): 738-750.

## **Appendix S2**

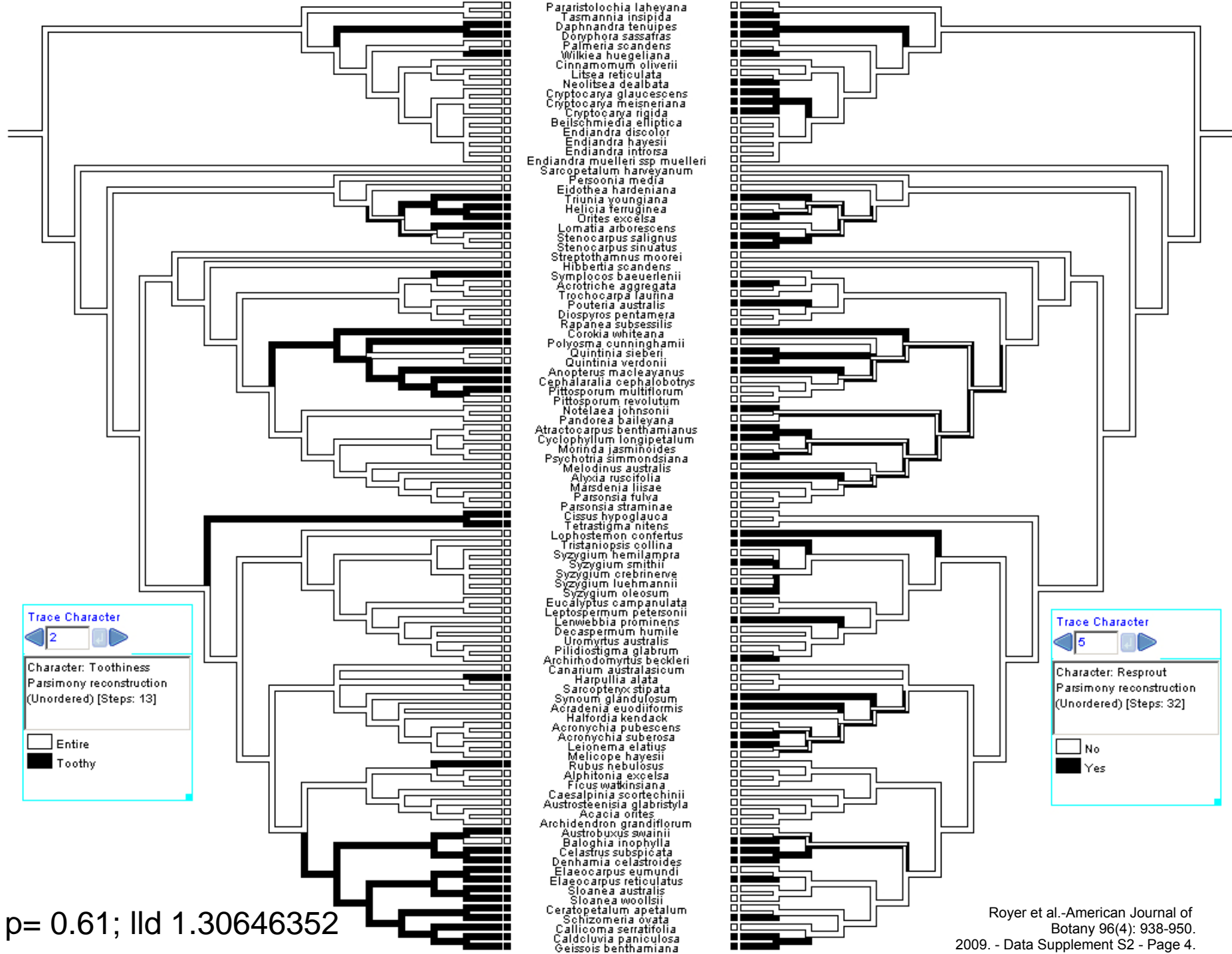
Appendix S2 contains the mirror tree visualizations of all variables paired against the leaf teeth trait for the fine-scale SNVF sample. Each mirror tree visualization is accompanied by a *P*-value and lld (log likelihood difference) as calculated from Pagel's 1997 test of discrete character correlation. All visualizations and analyses were done using Mesquite. See Materials and Methods section for full description of analyses.



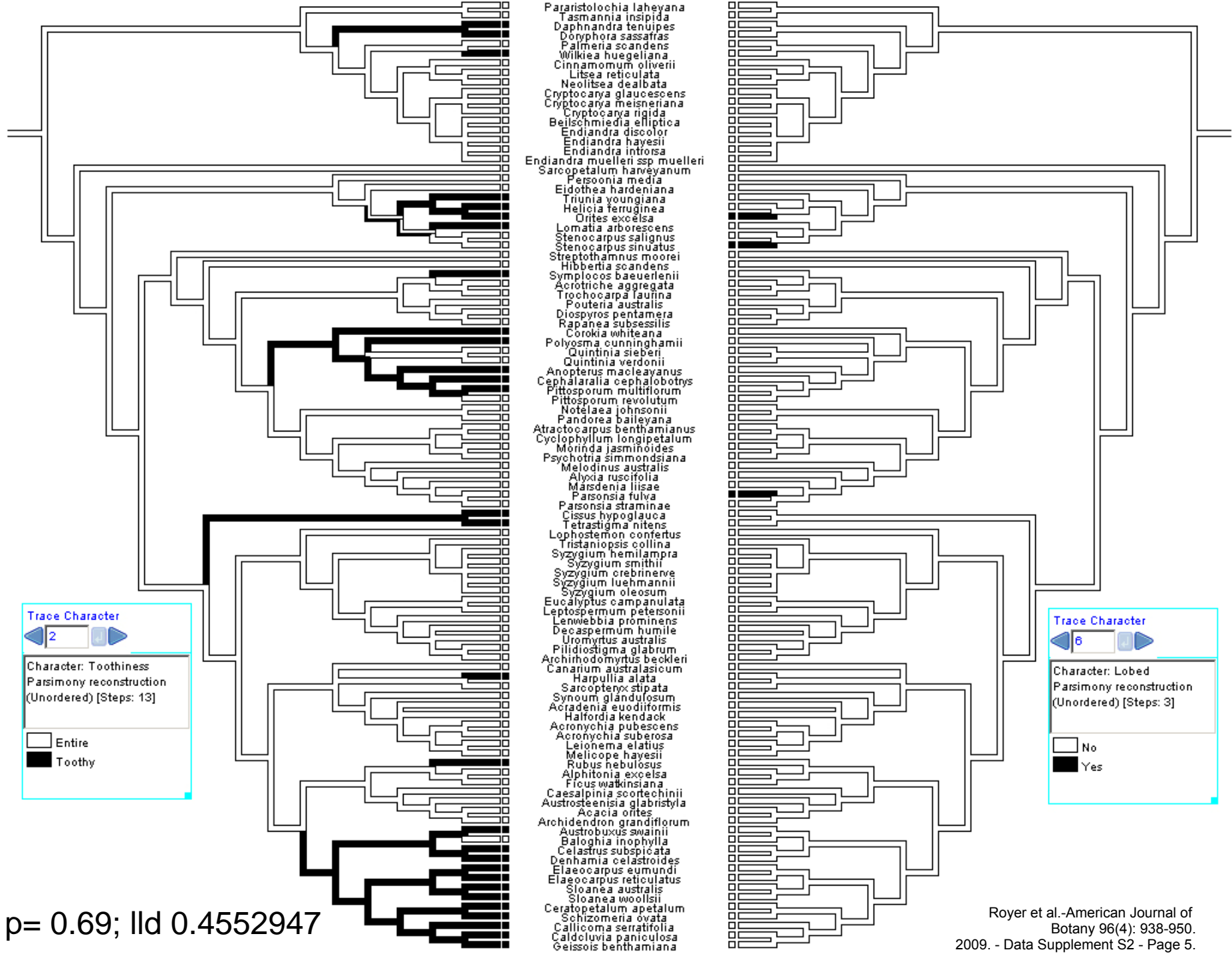
p= 0.36; lld: 2.32853259

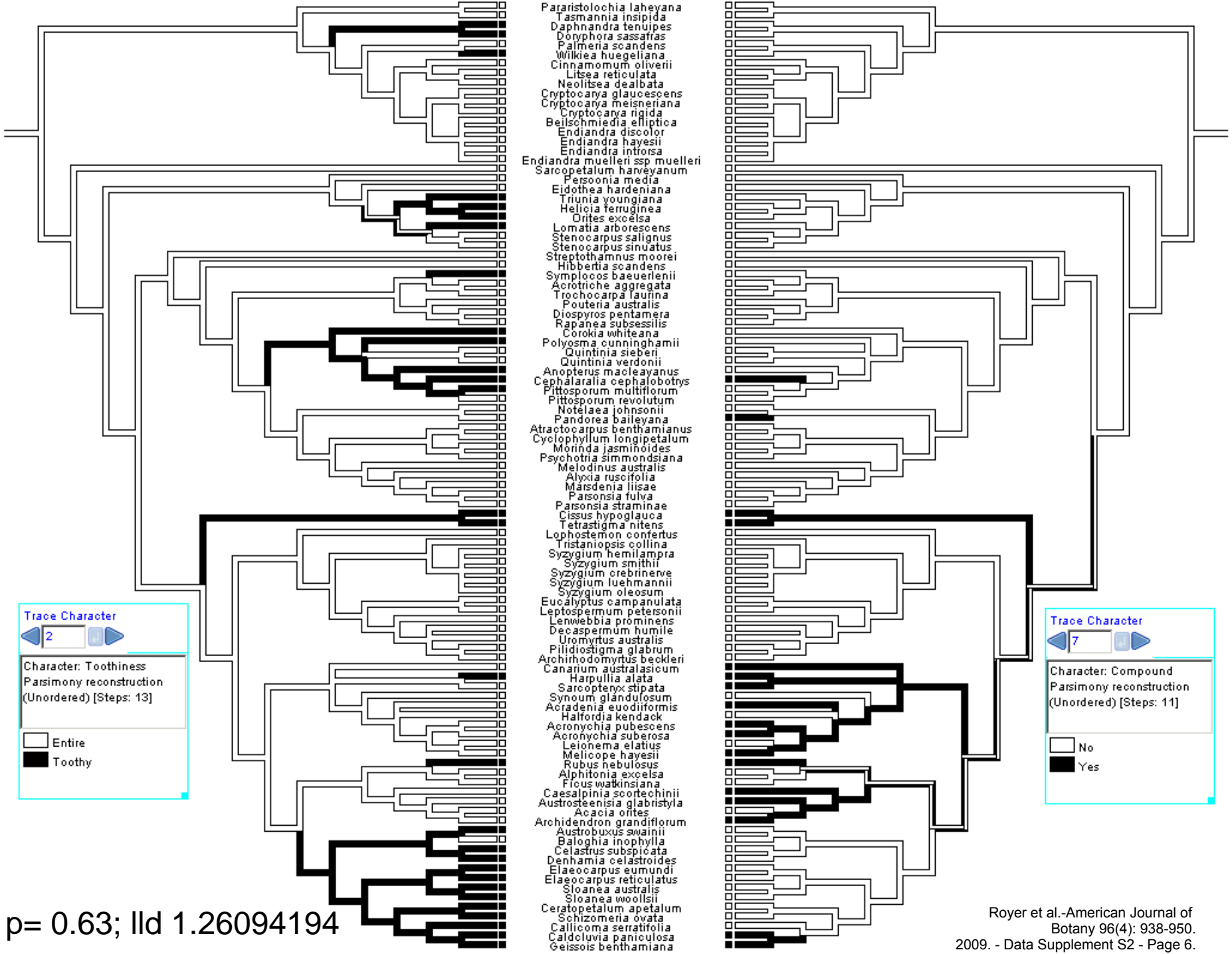


p= 0.60; lld 1.64206388

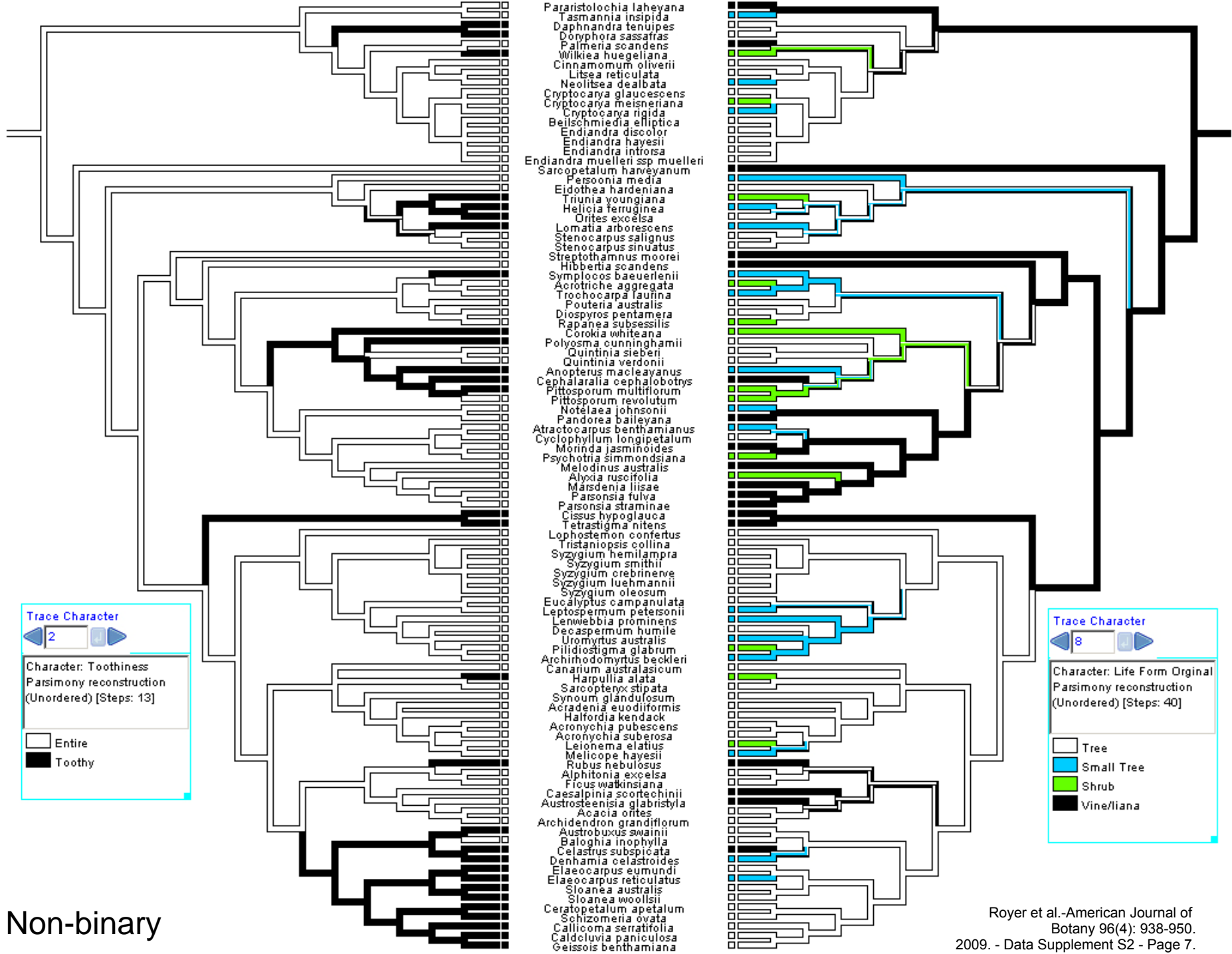


p= 0.61; lld 1.30646352

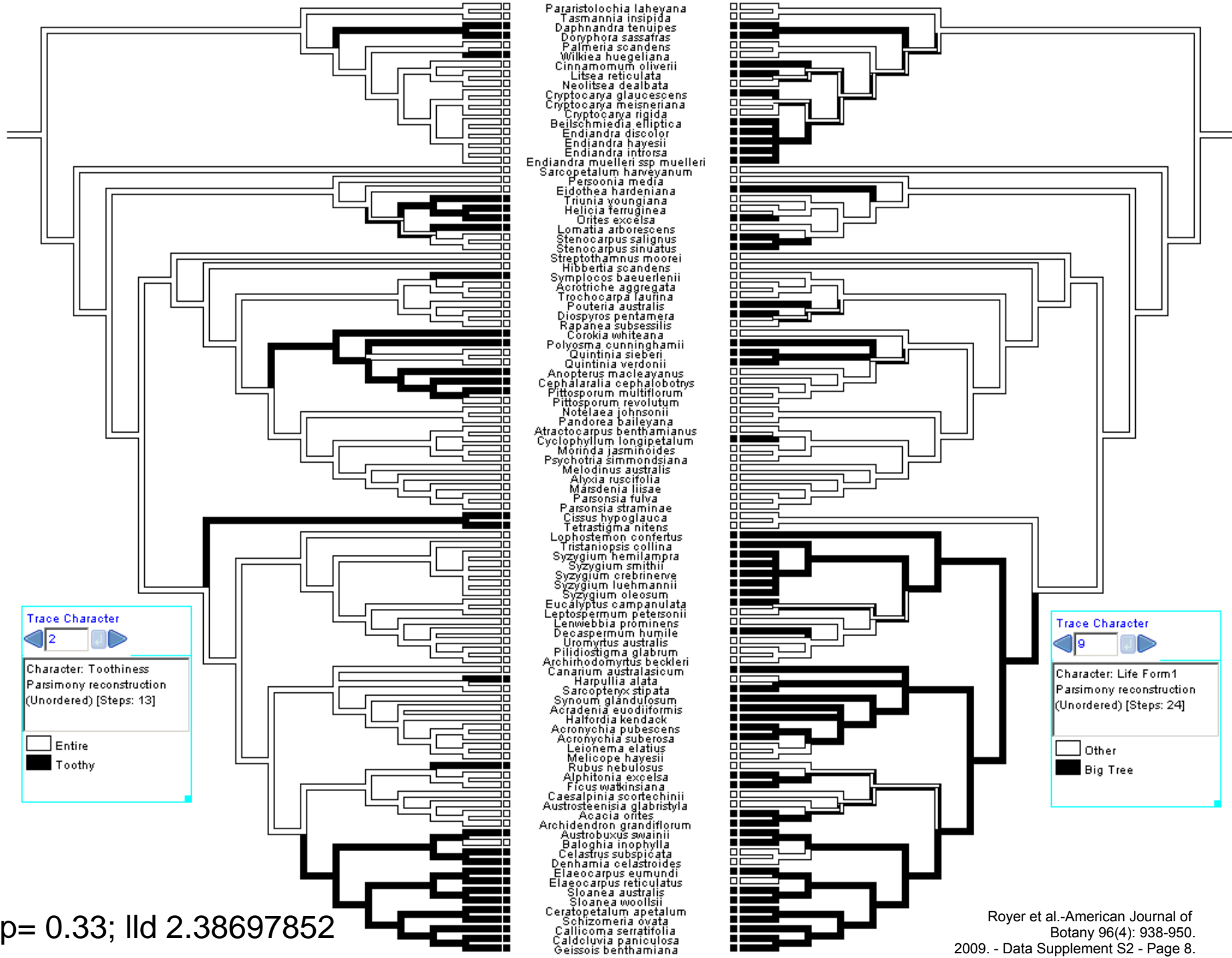




p= 0.63; Ild 1.26094194



Non-binary



Trace Character

2

Character: Toothiness  
 Parsimony reconstruction  
 (Unordered) [Steps: 13]

Entire  
 Toothy

Trace Character

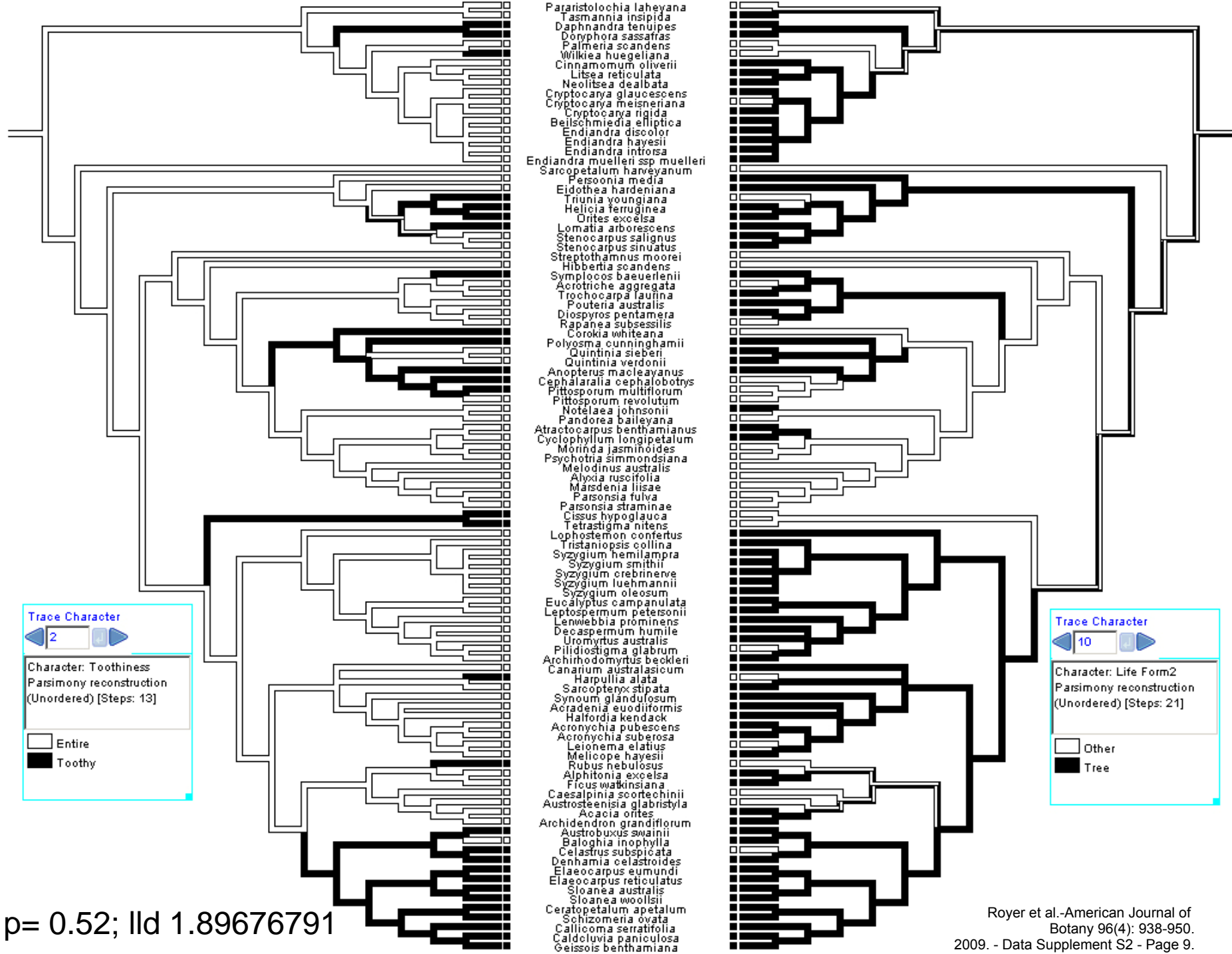
9

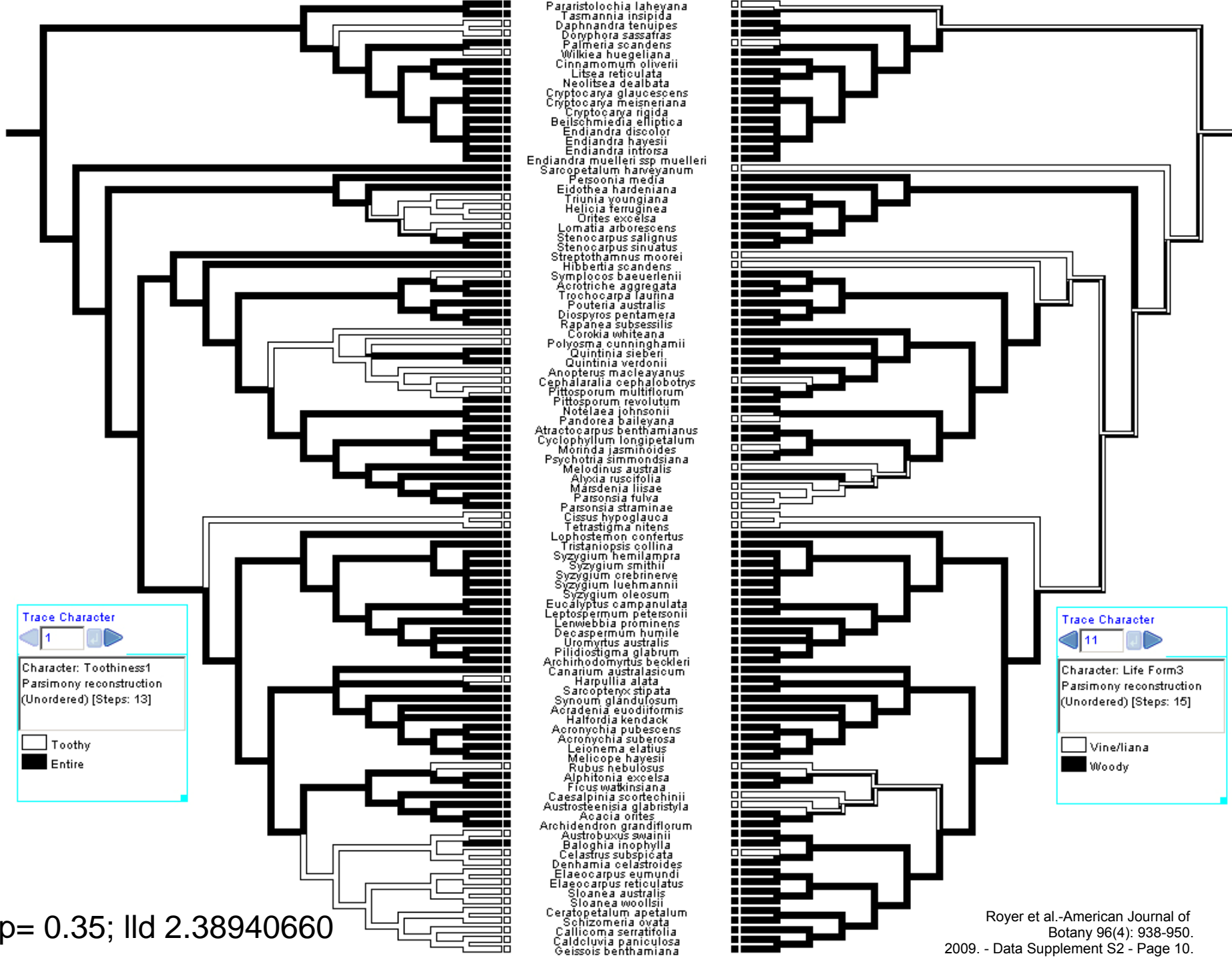
Character: Life Form 1  
 Parsimony reconstruction  
 (Unordered) [Steps: 24]

Other  
 Big Tree

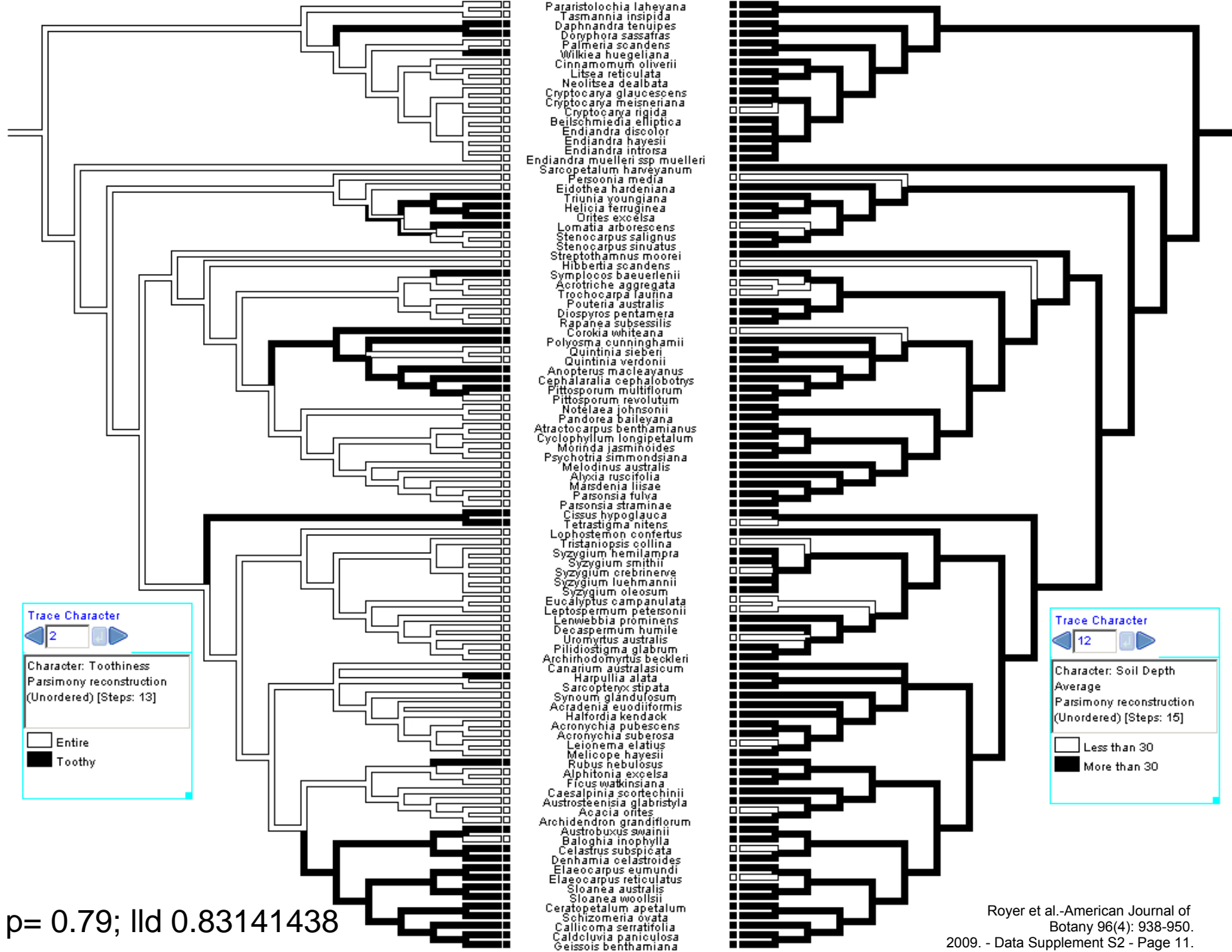
p= 0.33; lld 2.38697852



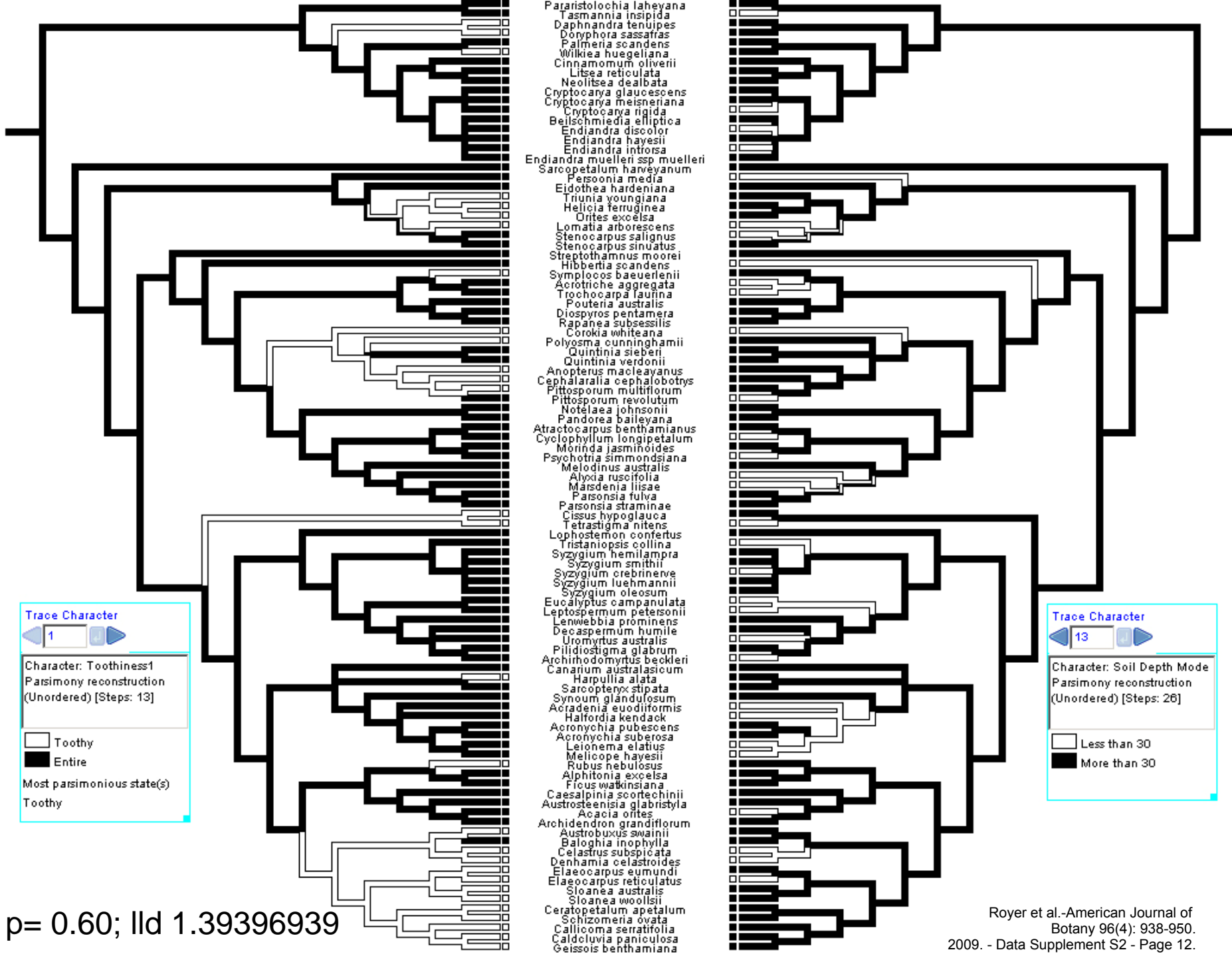




p= 0.35; lld 2.38940660



p= 0.79; lld 0.83141438



Trace Character

1

Character: Toothiness1  
 Parsimony reconstruction  
 (Unordered) [Steps: 13]

Toothy  
 Entire

Most parsimonious state(s)  
 Toothy

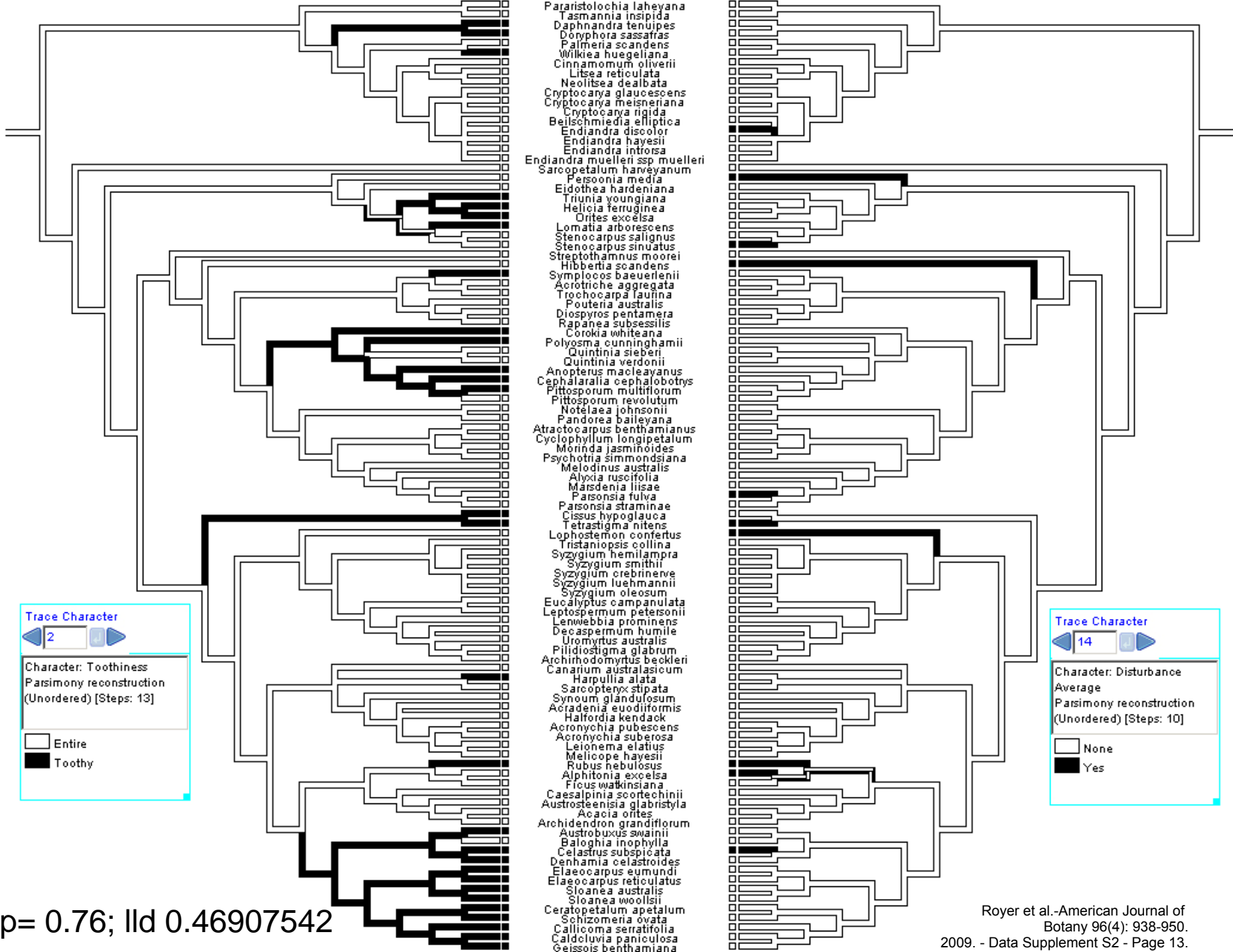
Trace Character

13

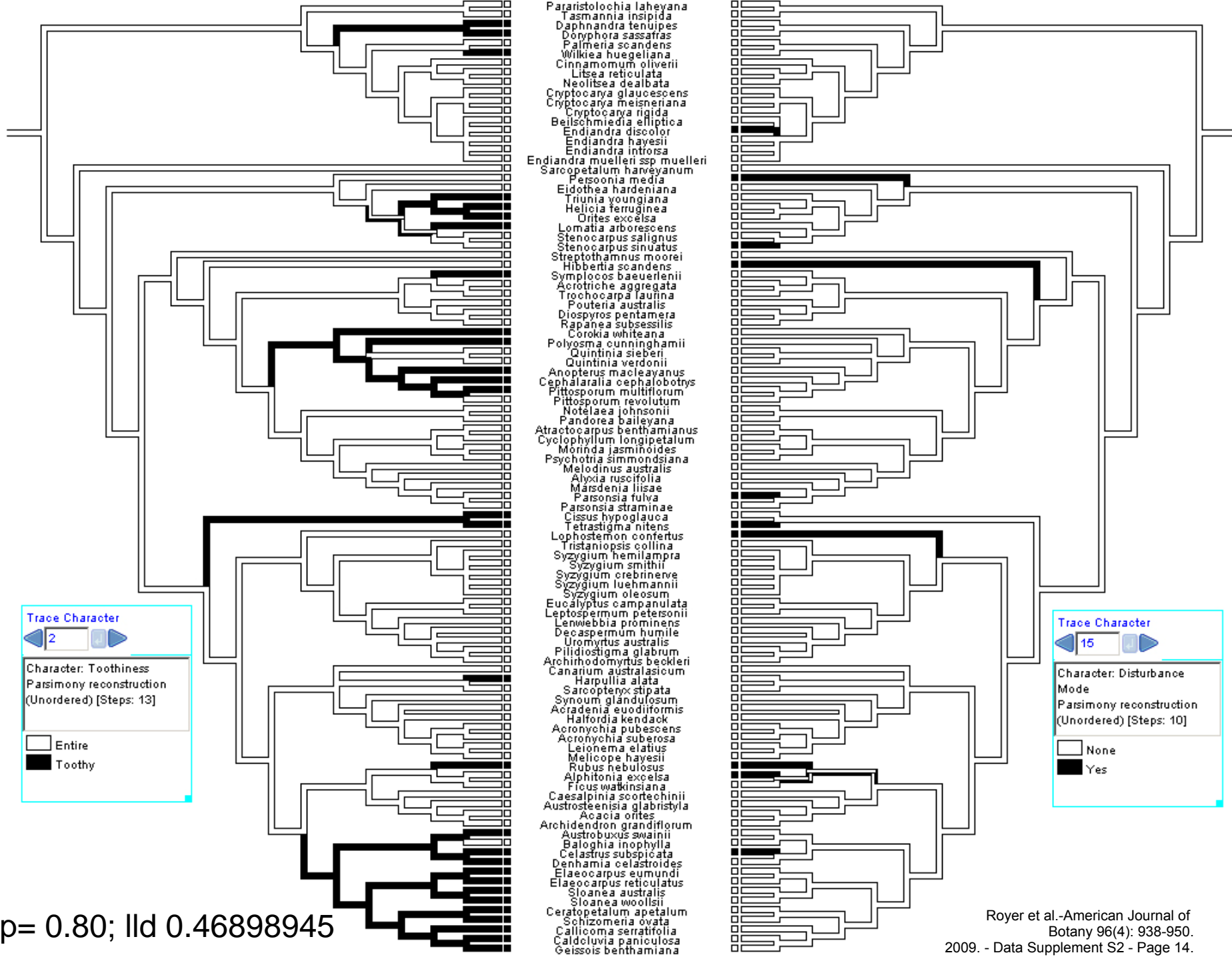
Character: Soil Depth Mode  
 Parsimony reconstruction  
 (Unordered) [Steps: 26]

Less than 30  
 More than 30

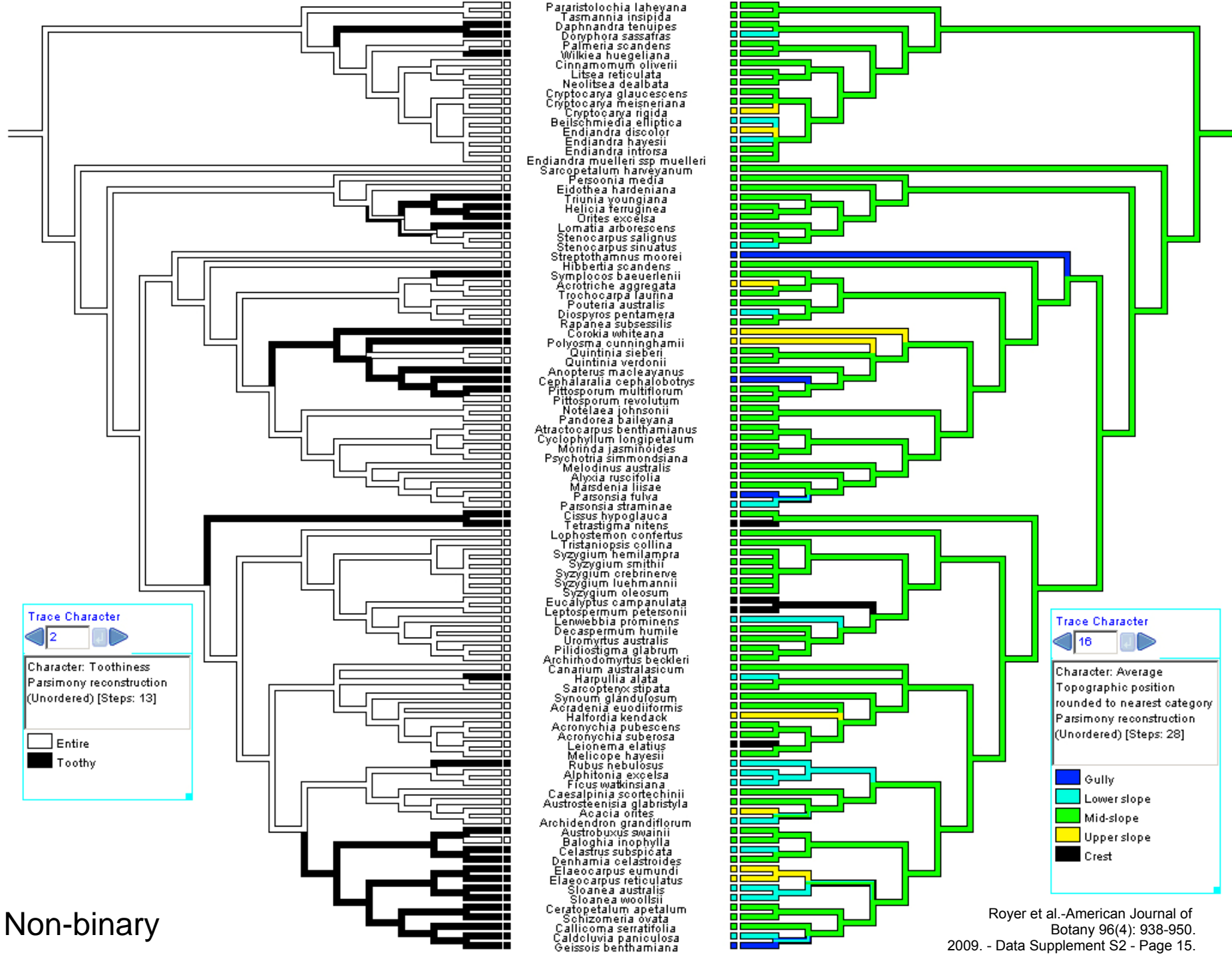
p= 0.60; Ild 1.39396939



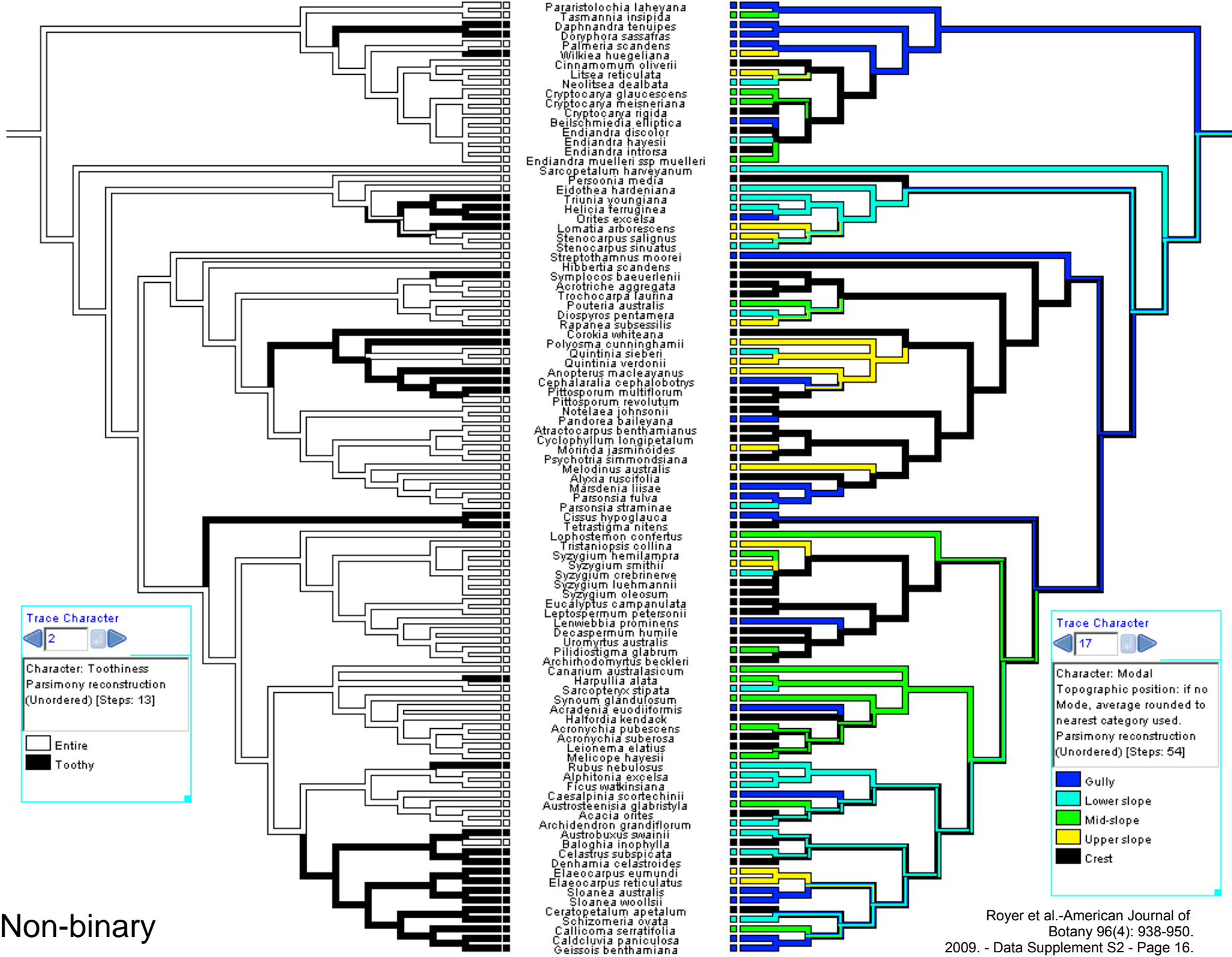
p= 0.76; lld 0.46907542



p= 0.80; lld 0.46898945

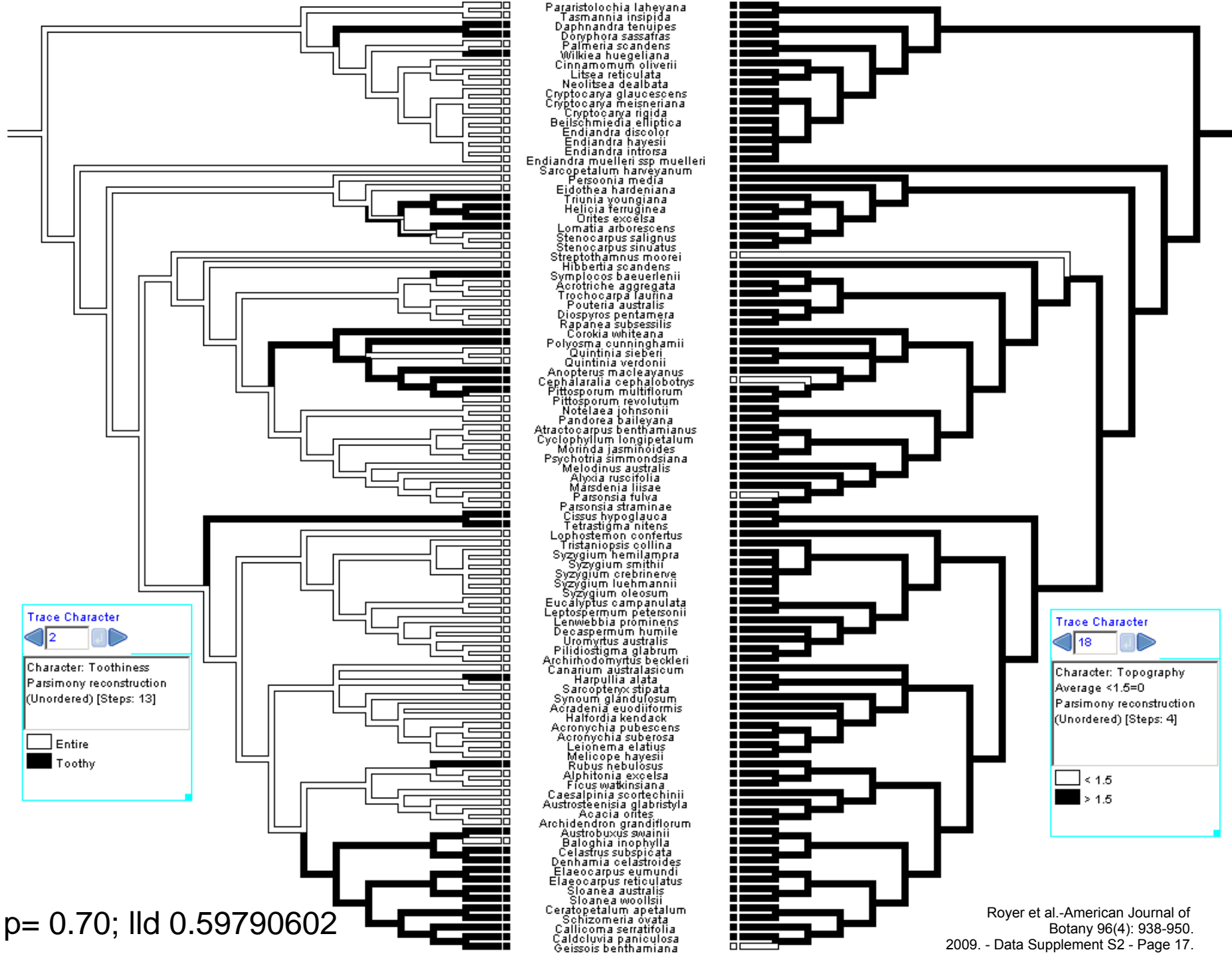


Non-binary

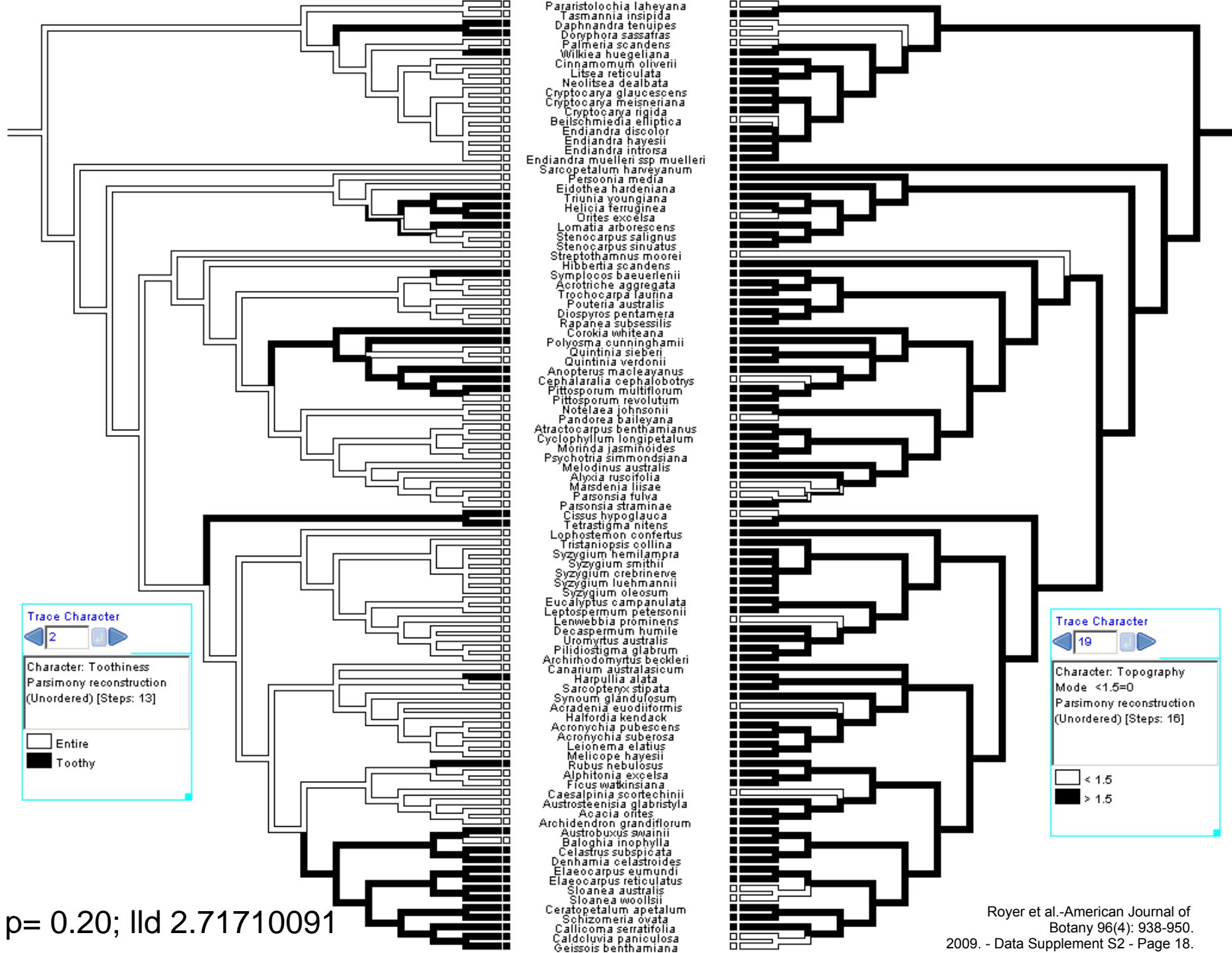


Non-binary

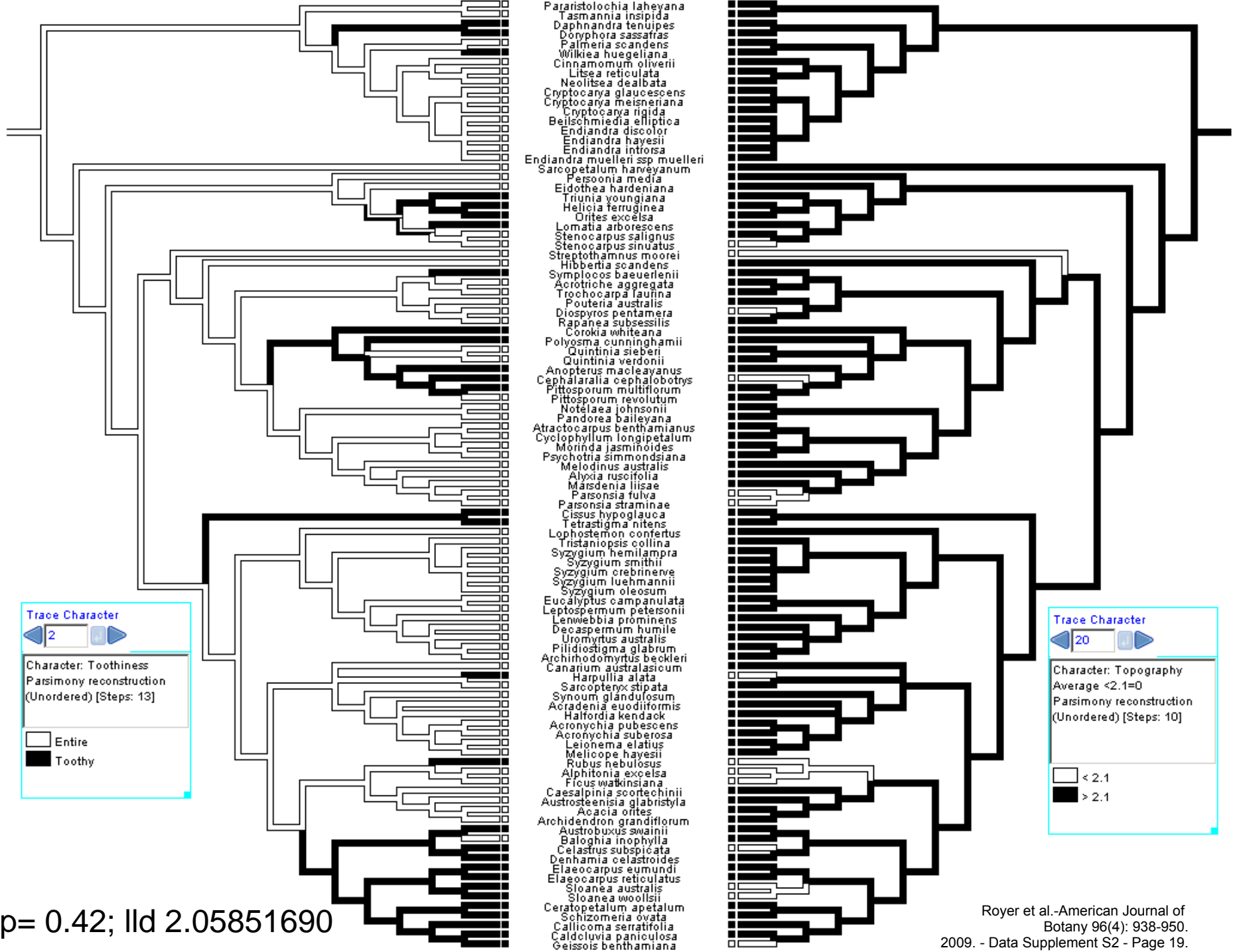




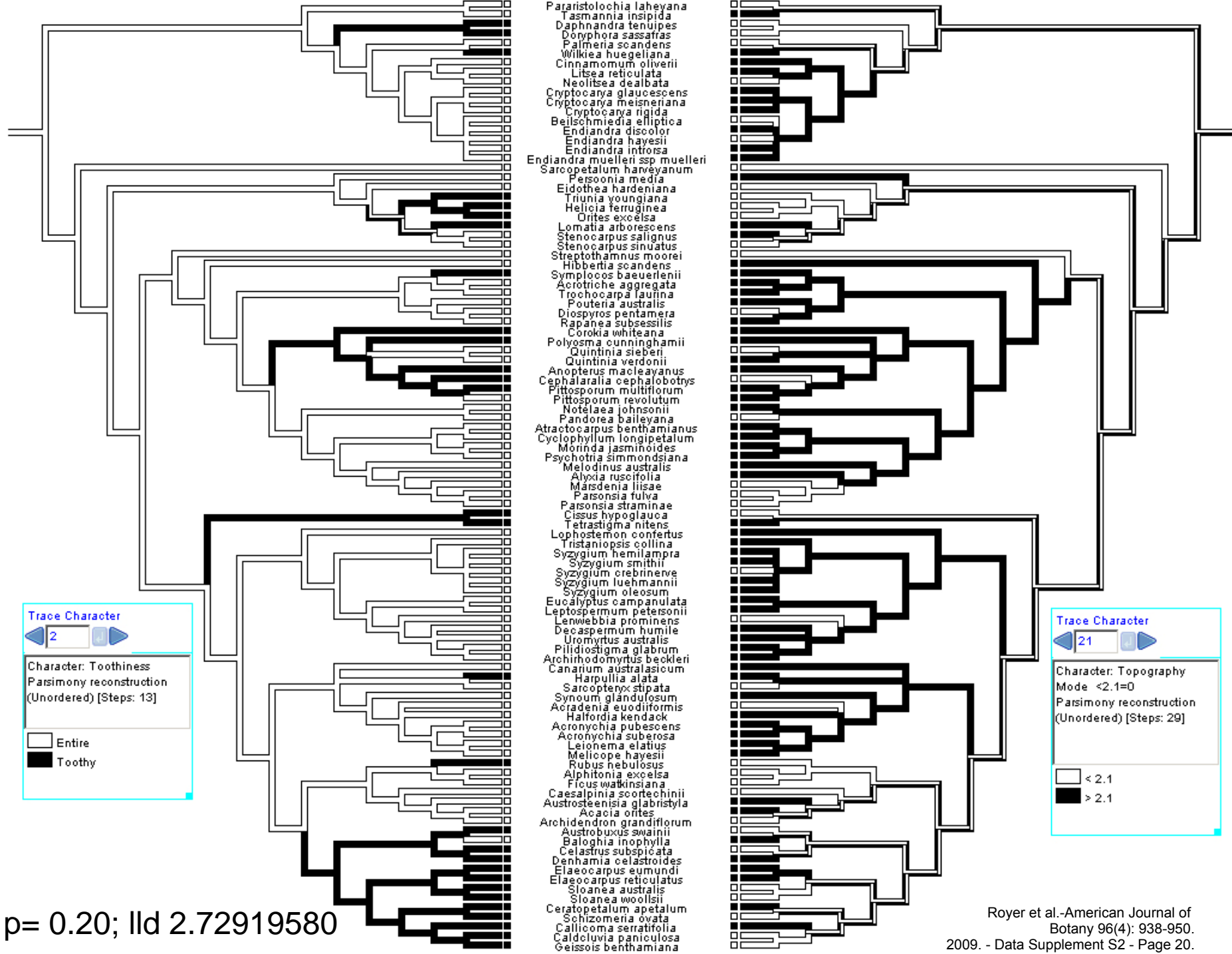
p= 0.70; lld 0.59790602



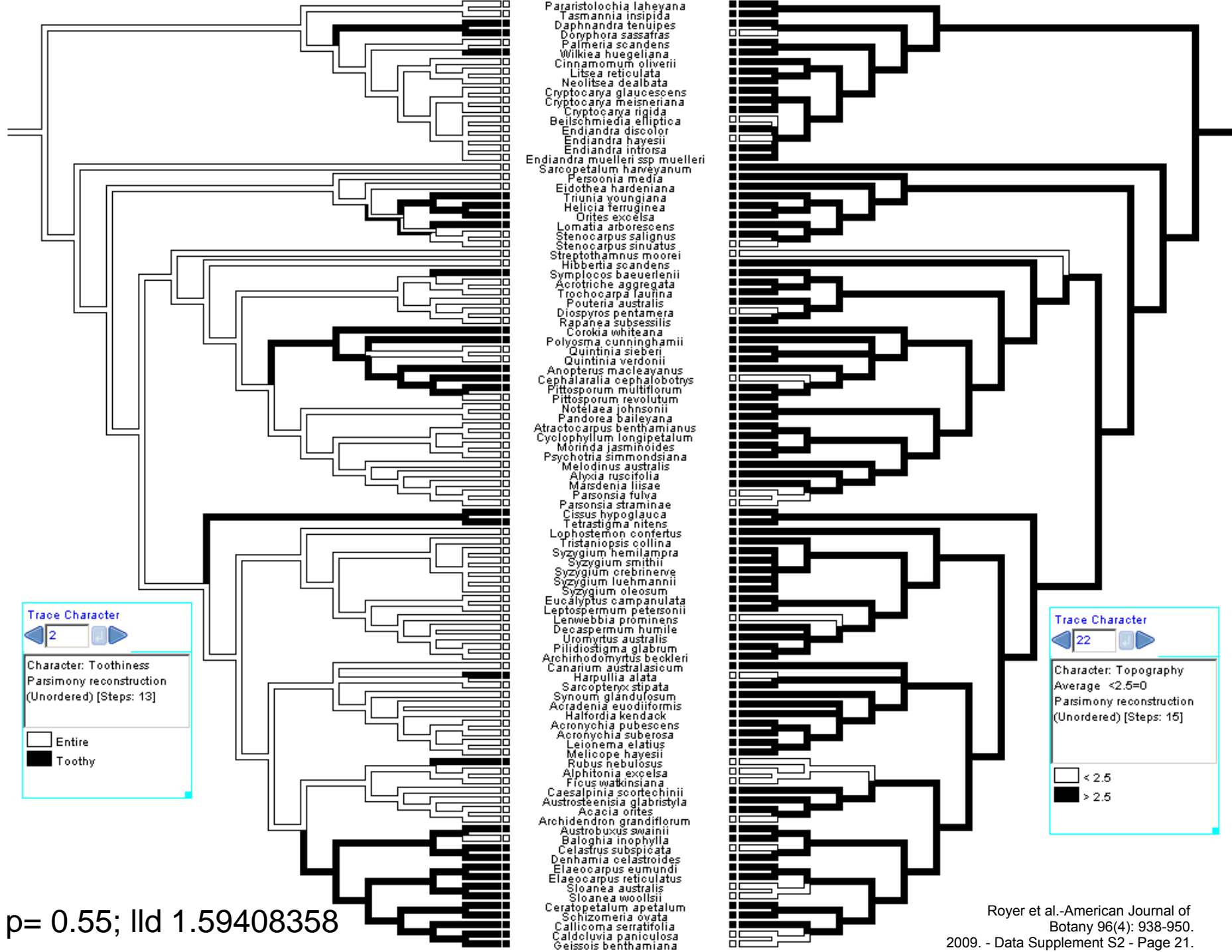
p= 0.20; lld 2.71710091



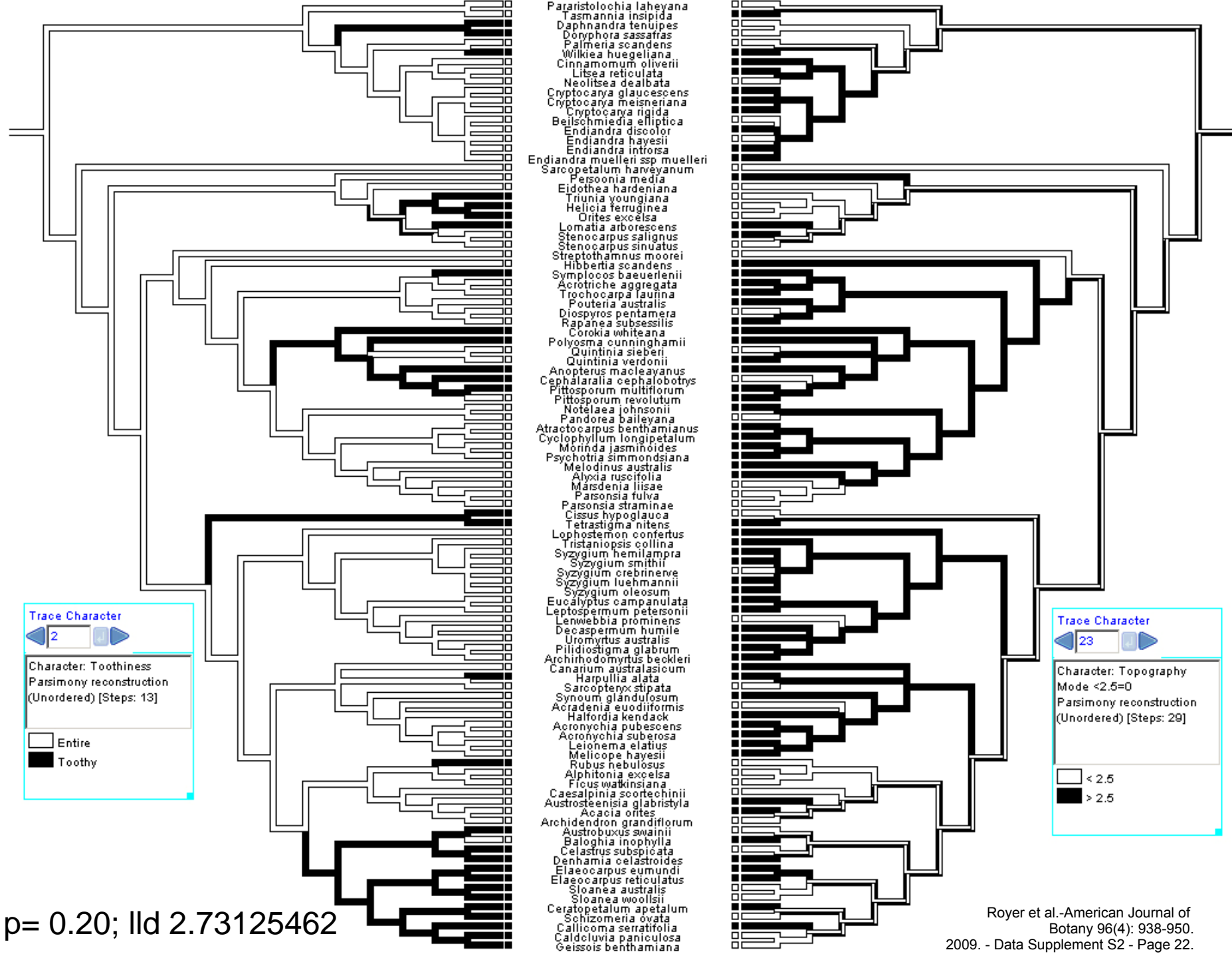
p= 0.42; lld 2.05851690



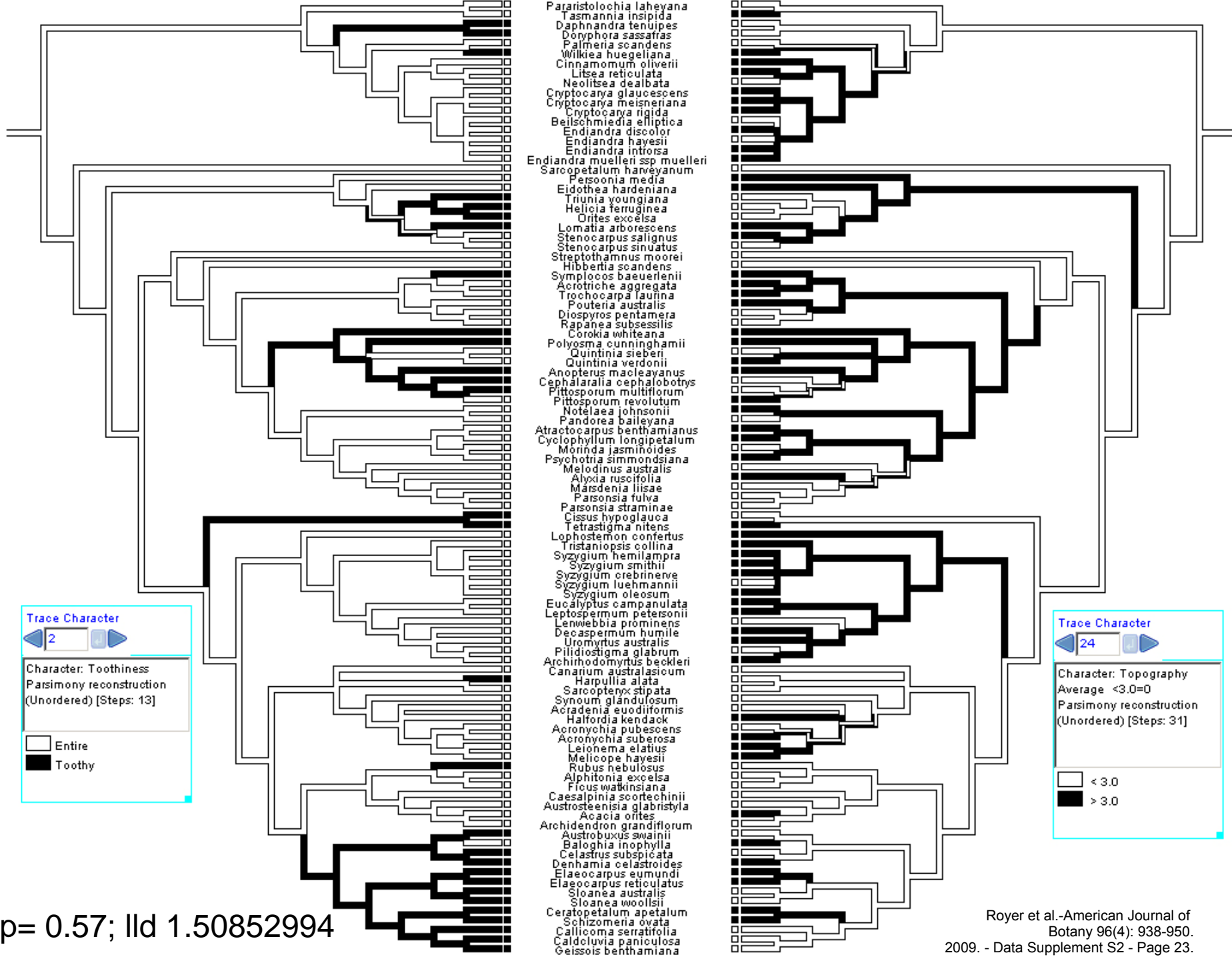
p= 0.20; lld 2.72919580



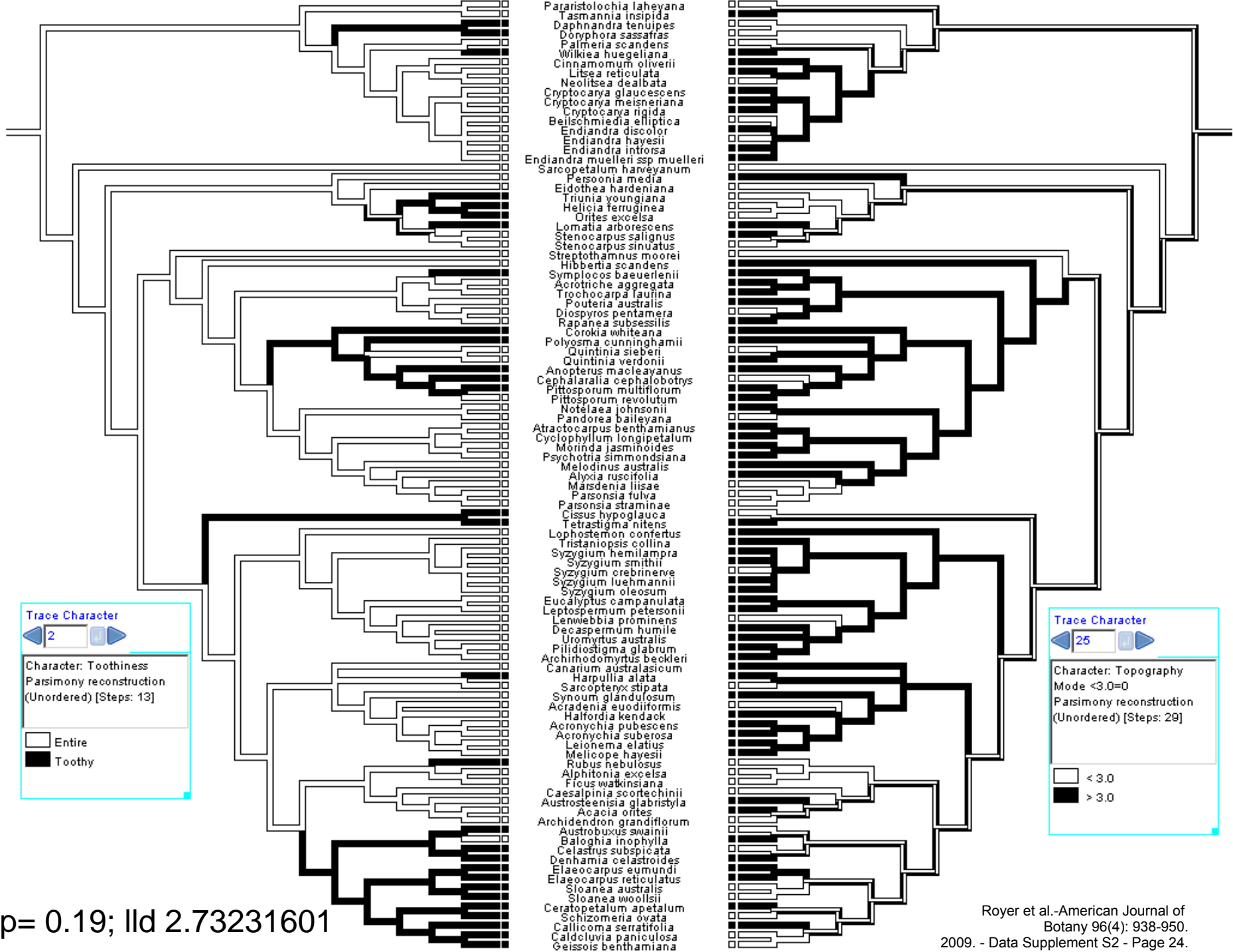
p= 0.55; lld 1.59408358



p= 0.20; lld 2.73125462

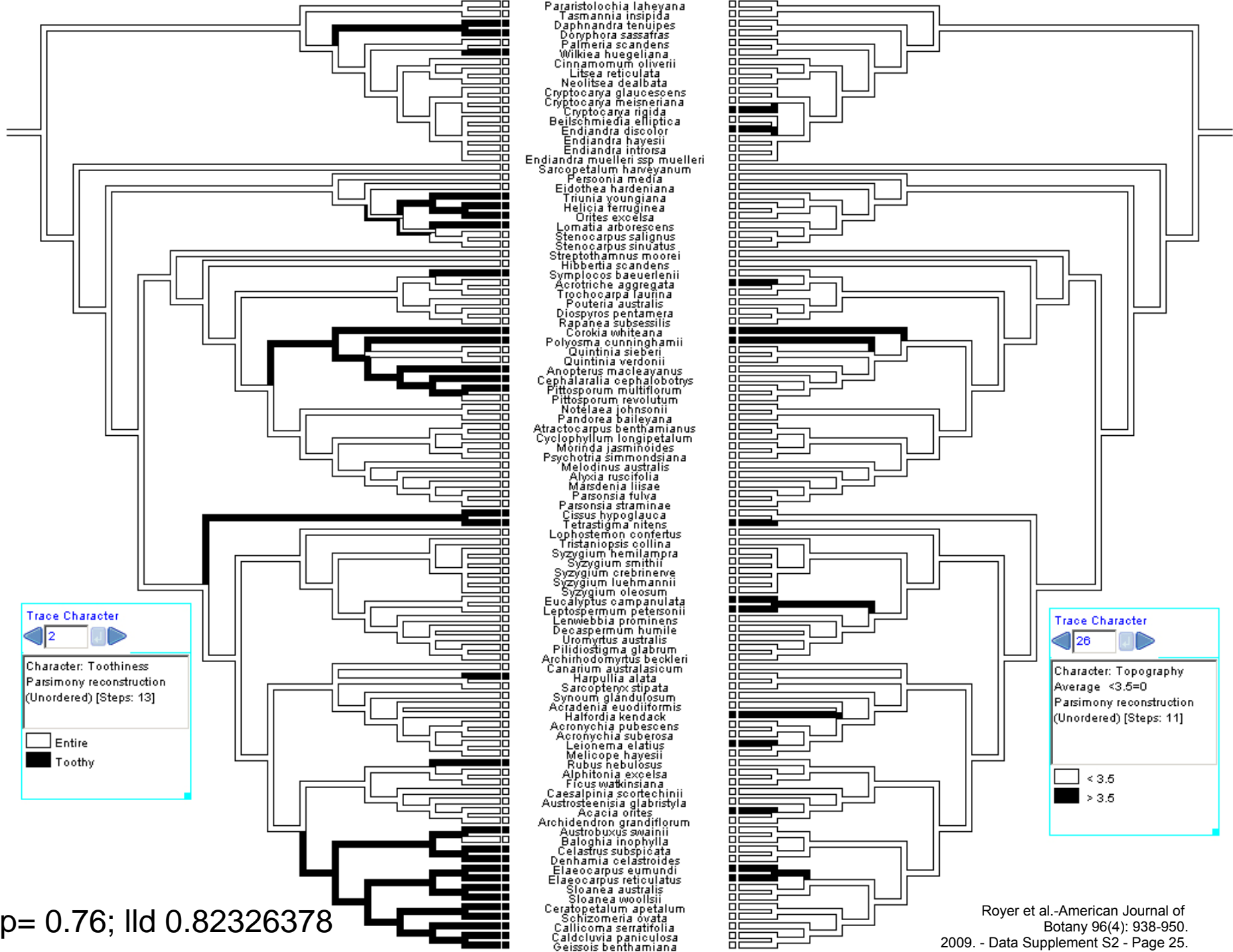


p= 0.57; lld 1.50852994



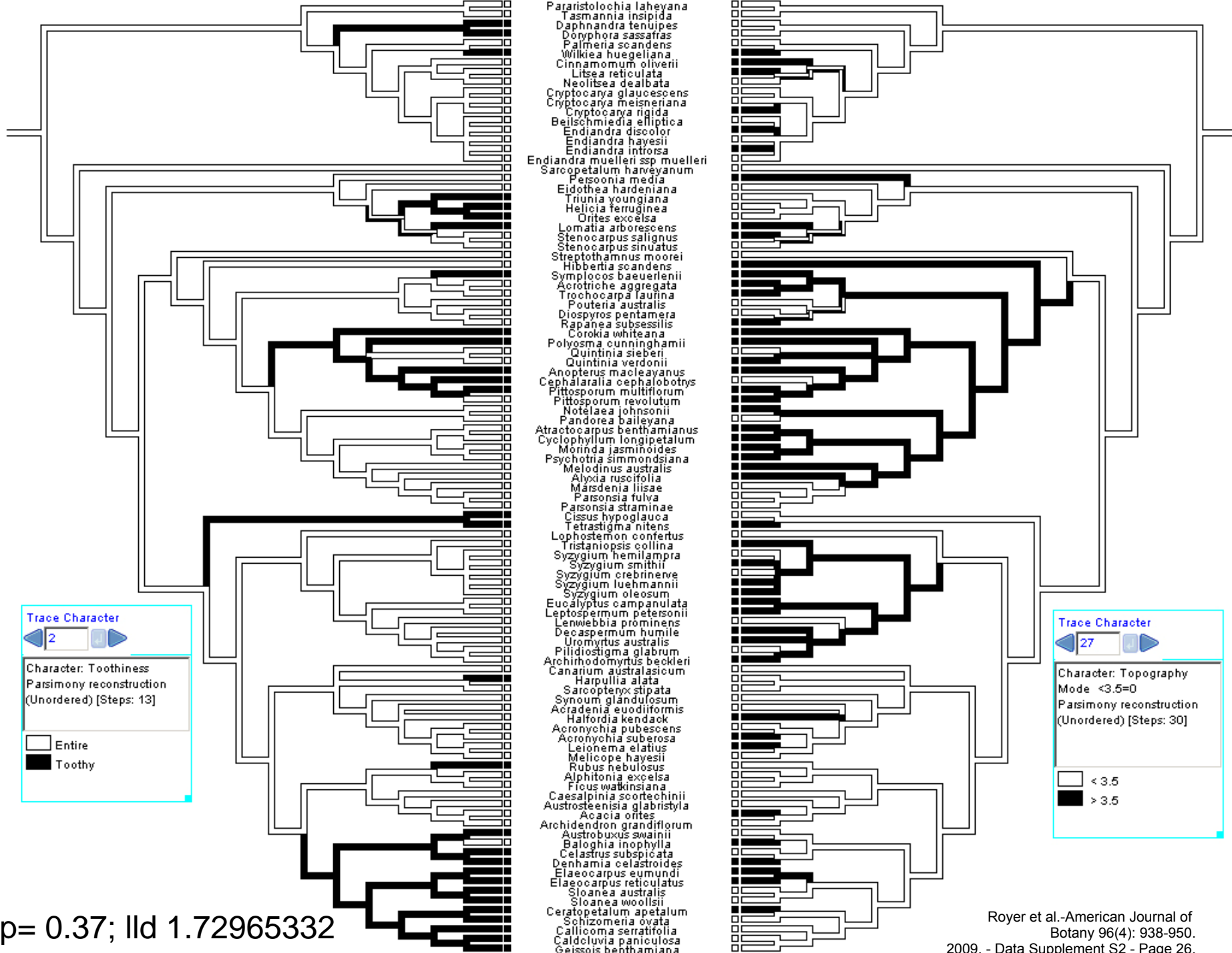
p= 0.19; lld 2.73231601



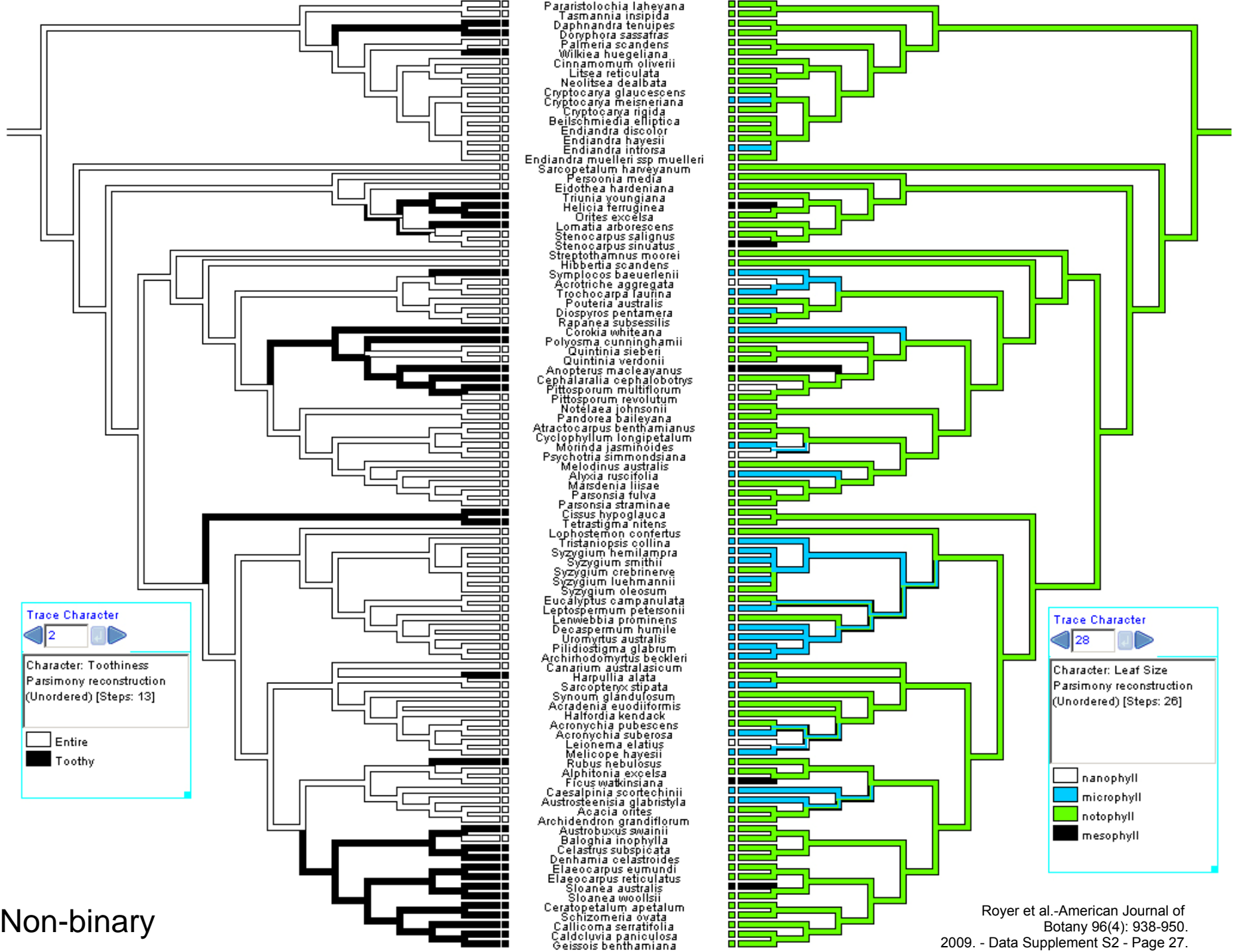


- Paranistolochia laheyana
- Tasmannia insipida
- Daphnandra tenuipes
- Doryphora sassafras
- Palmeria scandens
- Wikiea huegeliana
- Cinnamomum oliverii
- Litsea reticulata
- Neolitsea dealbata
- Cryptocarya glaucescens
- Cryptocarya meisneriana
- Cryptocarya rigida
- Beilschmiedia elliptica
- Endiandra discolor
- Endiandra hayesii
- Endiandra introrsa
- Endiandra muelleri ssp muelleri
- Sarcopetalum harveyanum
- Persea media
- Eidothea hardeniana
- Triunia youngiana
- Helicia ferruginea
- Orites excelsa
- Lomatia arborescens
- Stenocarpus salignus
- Stenocarpus sinuatus
- Streptothamnus moorei
- Hibbertia scandens
- Symplocos baerlii
- Acrotiche aggregata
- Trochocarpa laurina
- Pouteria australis
- Diospyros pentamera
- Rapanea subsessilis
- Corokia whiteana
- Polyosma cunninghamii
- Quintinia sieberi
- Quintinia verdonii
- Anopterus macleayanus
- Cephalotaxa cephalobotrys
- Pittosporum multiflorum
- Pittosporum revolutum
- Notelaea johnsonii
- Pandorea baileyana
- Atractocarpus benthamianus
- Cyclophyllum longipetalum
- Morinda jasminoides
- Psychotria simmondsiana
- Melodinus australis
- Alyxia ruscifolia
- Masdenia liisae
- Parsonia fulva
- Parsonia straminea
- Cissus hypoglauca
- Tetrastigma nitens
- Lophostemon confertus
- Tristaniopsis collina
- Syzygium hemilampra
- Syzygium smithii
- Syzygium crebrinerve
- Syzygium luehmanni
- Syzygium oleosum
- Eucalyptus campanulata
- Leptospermum petersonii
- Lenwebbia prominens
- Decaspermum humile
- Uromyrtus australis
- Pilidiostigma glabrum
- Archirodomyrtus beckeri
- Canarium australasicum
- Harpullia alata
- Sarcopentex stipata
- Synoum glandulosum
- Acradenia euodiiformis
- Halfordia kendack
- Acronychia pubescens
- Acronychia suberosa
- Leionema elatius
- Melicope hayesii
- Rubus nebulosus
- Alphitonia excelsa
- Ficus watkinsiana
- Caesalpinia scootchinii
- Austrostenisia glabristyla
- Acacia oites
- Archidendron grandiflorum
- Austrobuxus swainii
- Baloghia inophylla
- Celastrus subspicata
- Denhamia celastroides
- Elaeocarpus eumundi
- Elaeocarpus reticulatus
- Sloanea australis
- Sloanea woolfsii
- Ceratopetalum apetalum
- Schizomeria ovata
- Callicoma serratifolia
- Caldcluvia paniculosa
- Geissois benthamiana

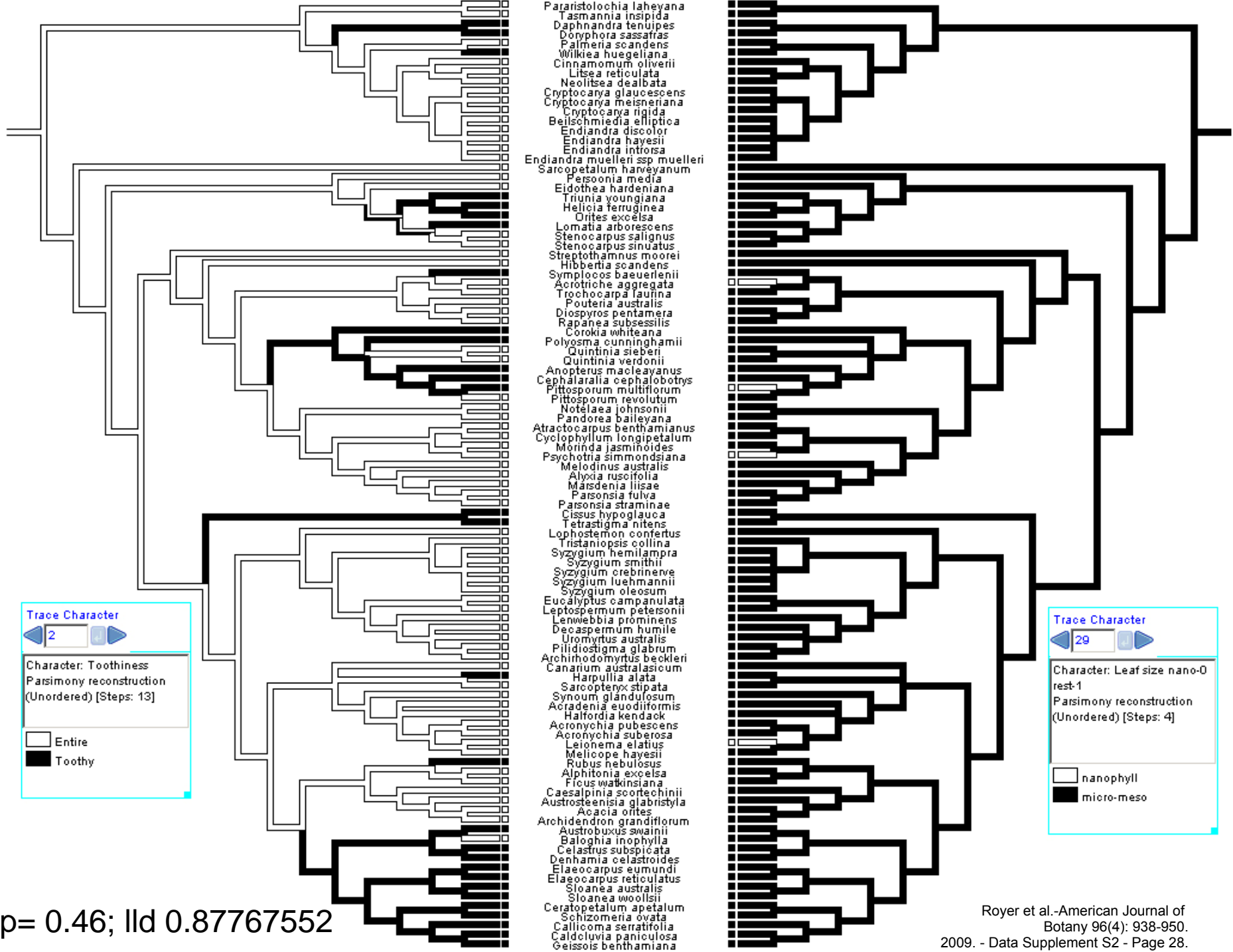
p= 0.76; lld 0.82326378



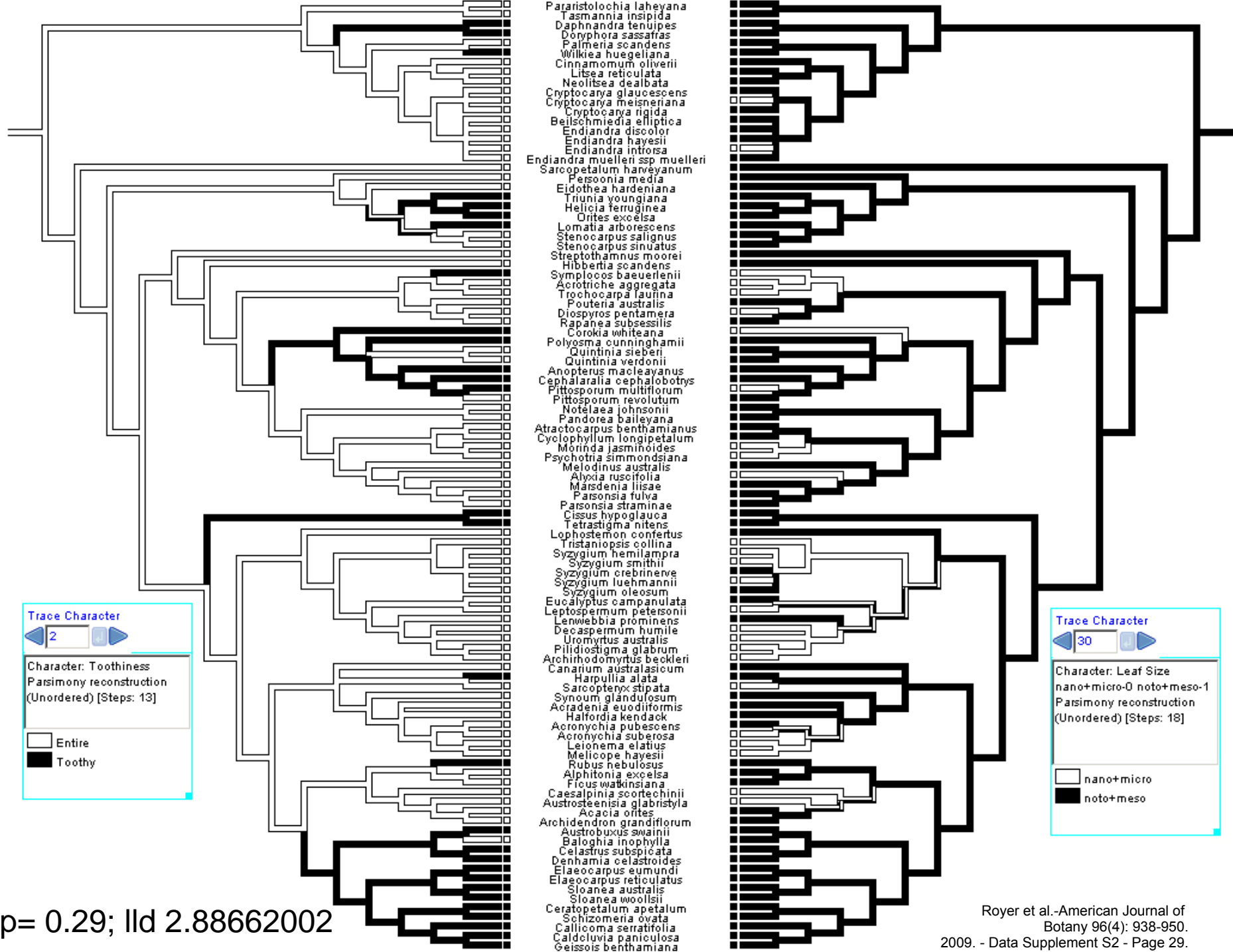
p= 0.37; lld 1.72965332



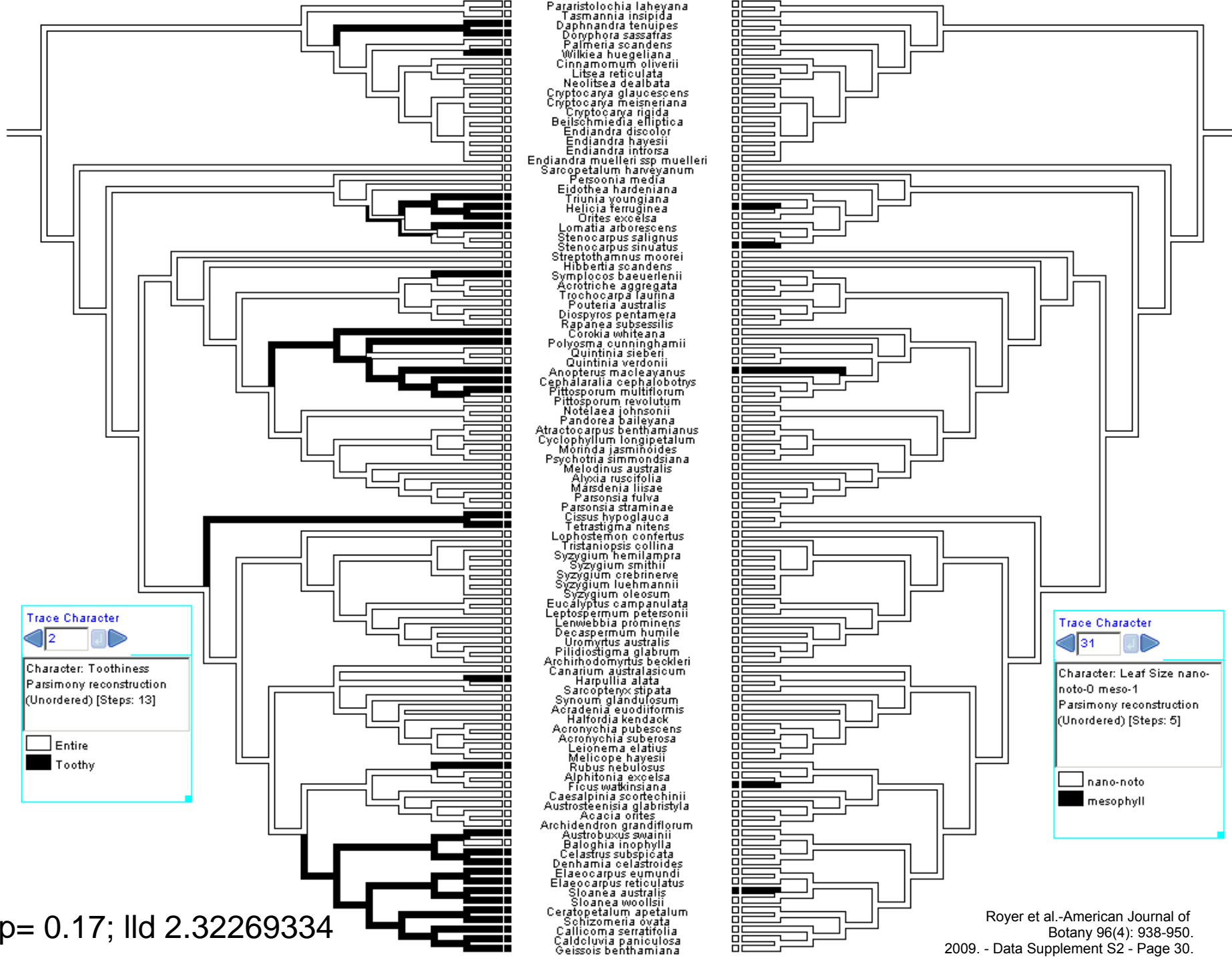
Non-binary



p= 0.46; lld 0.87767552



p= 0.29; lld 2.88662002



Trace Character

2

Character: Toothiness  
 Parsimony reconstruction  
 (Unordered) [Steps: 13]

Entire  
 Toothy

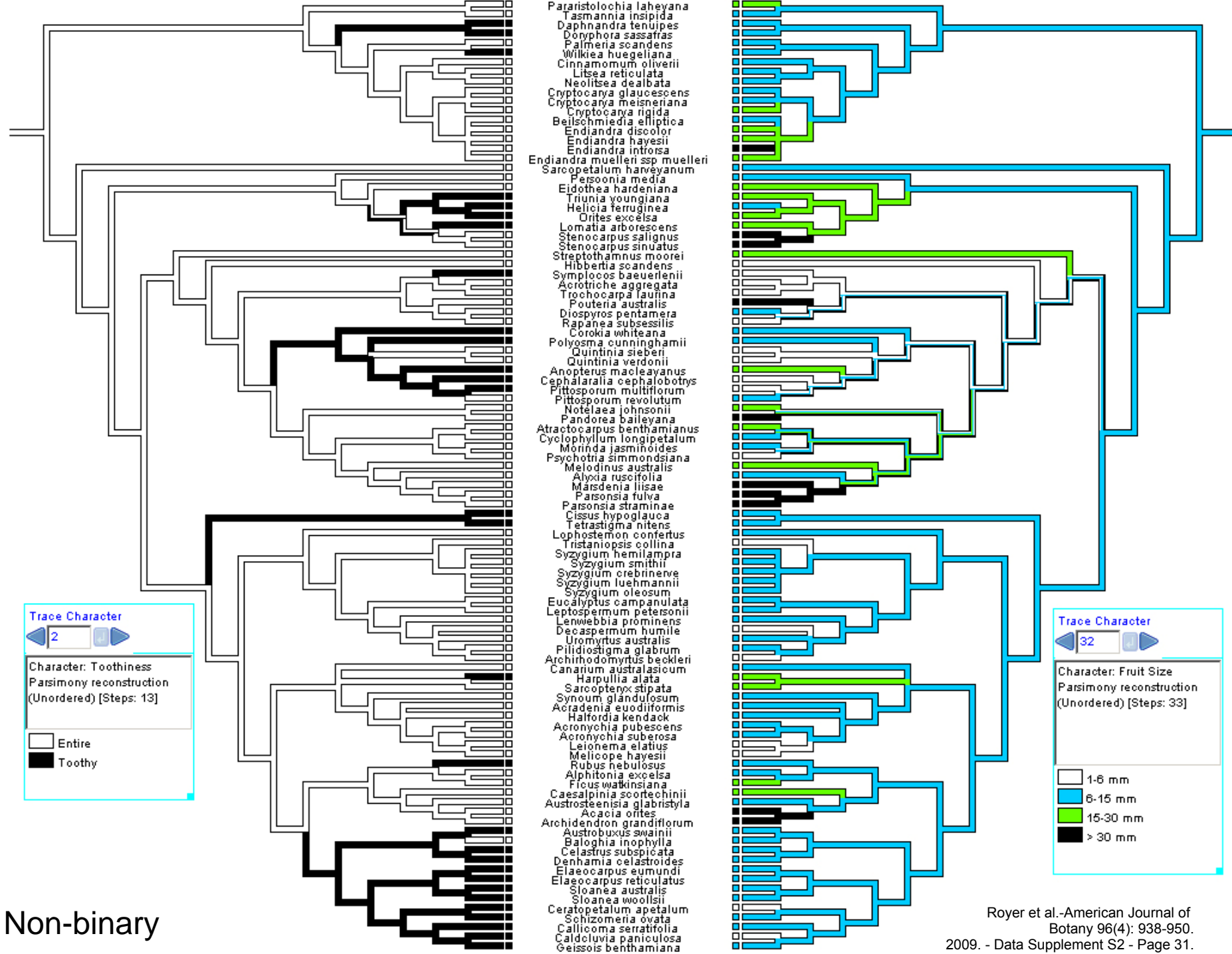
Trace Character

31

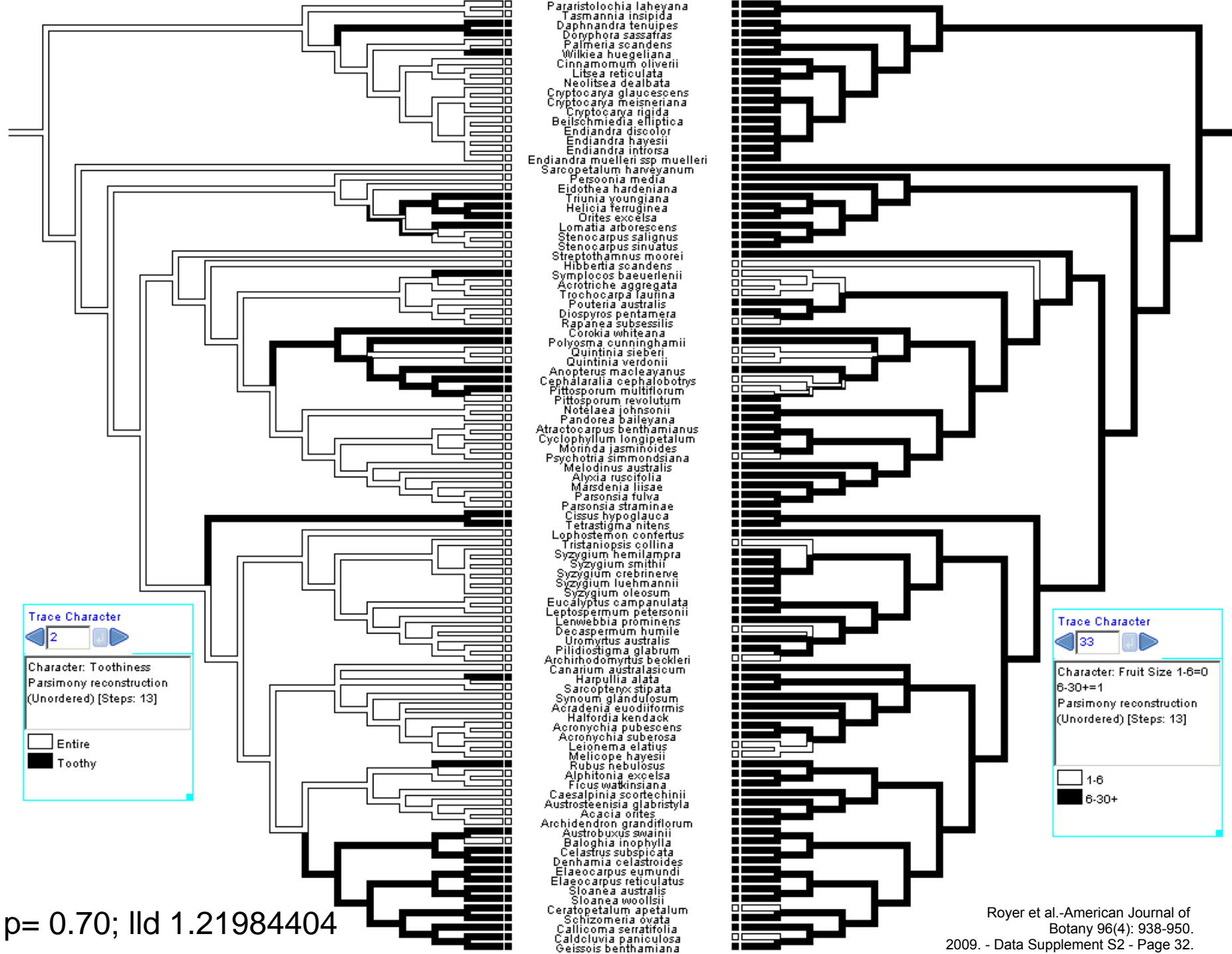
Character: Leaf Size nano-noto-0 meso-1  
 Parsimony reconstruction  
 (Unordered) [Steps: 5]

nano-noto  
 mesophyll

p= 0.17; lld 2.32269334

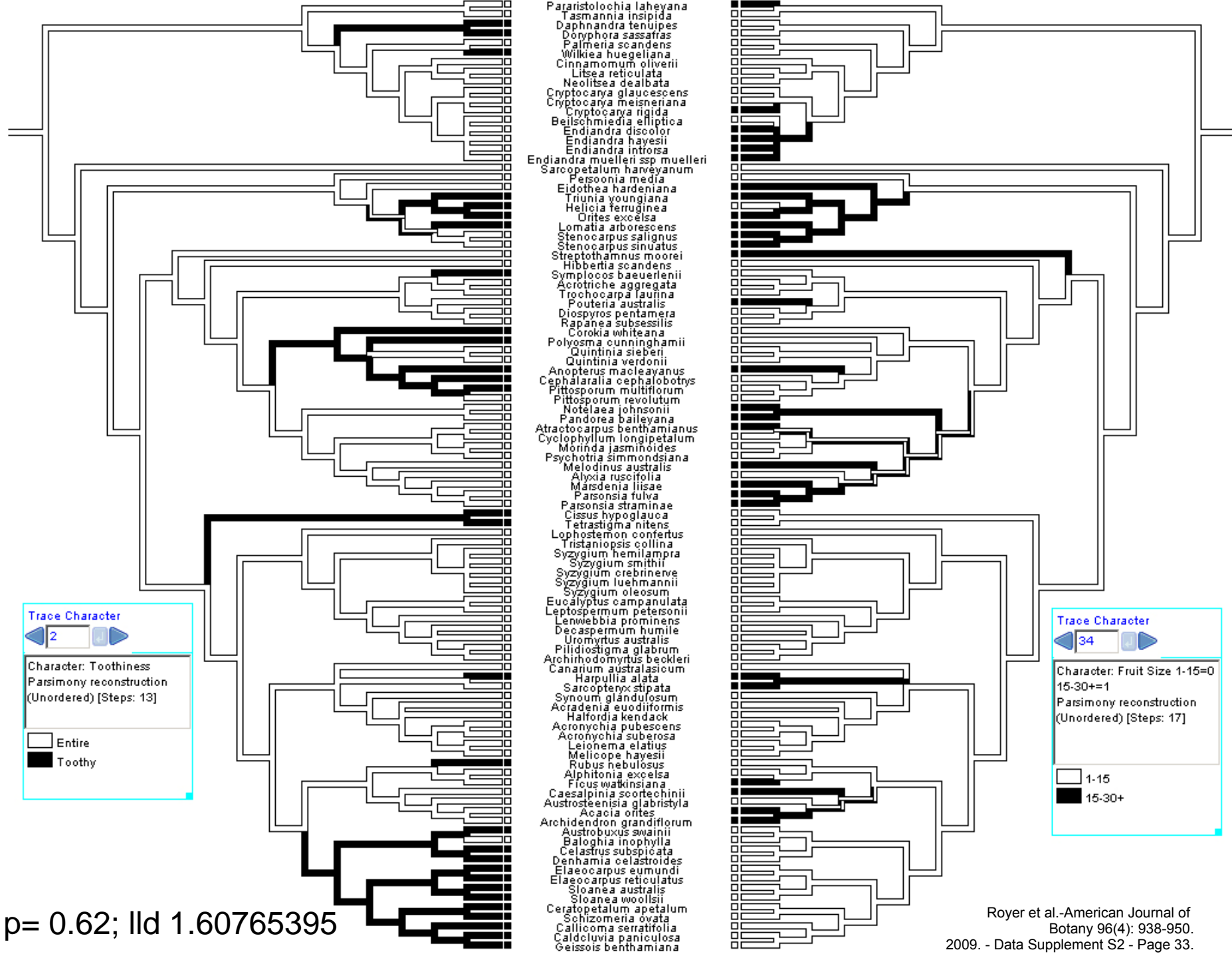


Non-binary

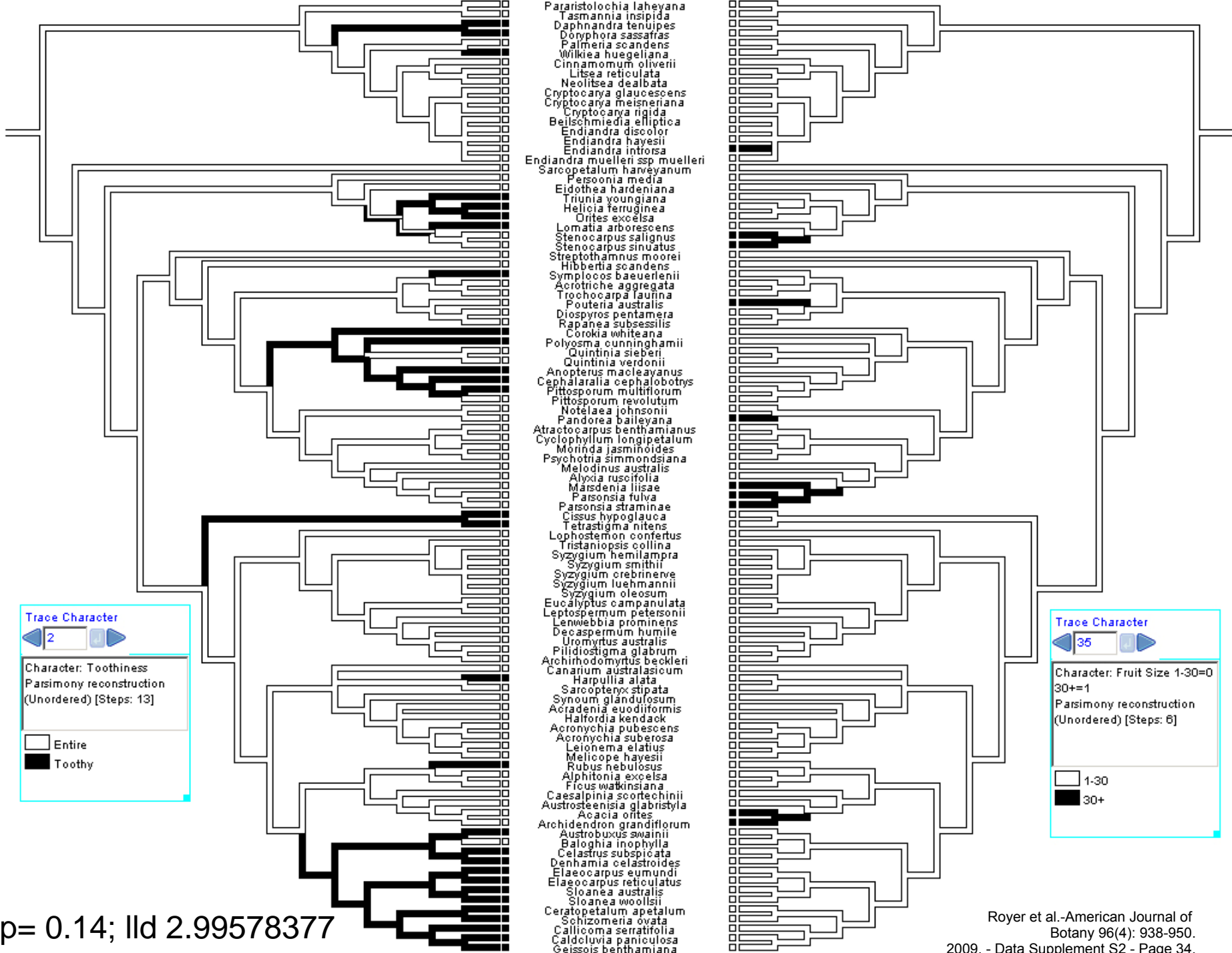


p= 0.70; lld 1.21984404





p= 0.62; lld 1.60765395



Trace Character

◀ 2 ▶

Character: Toothiness  
 Parsimony reconstruction  
 (Unordered) [Steps: 13]

□ Entire  
 ■ Toothy

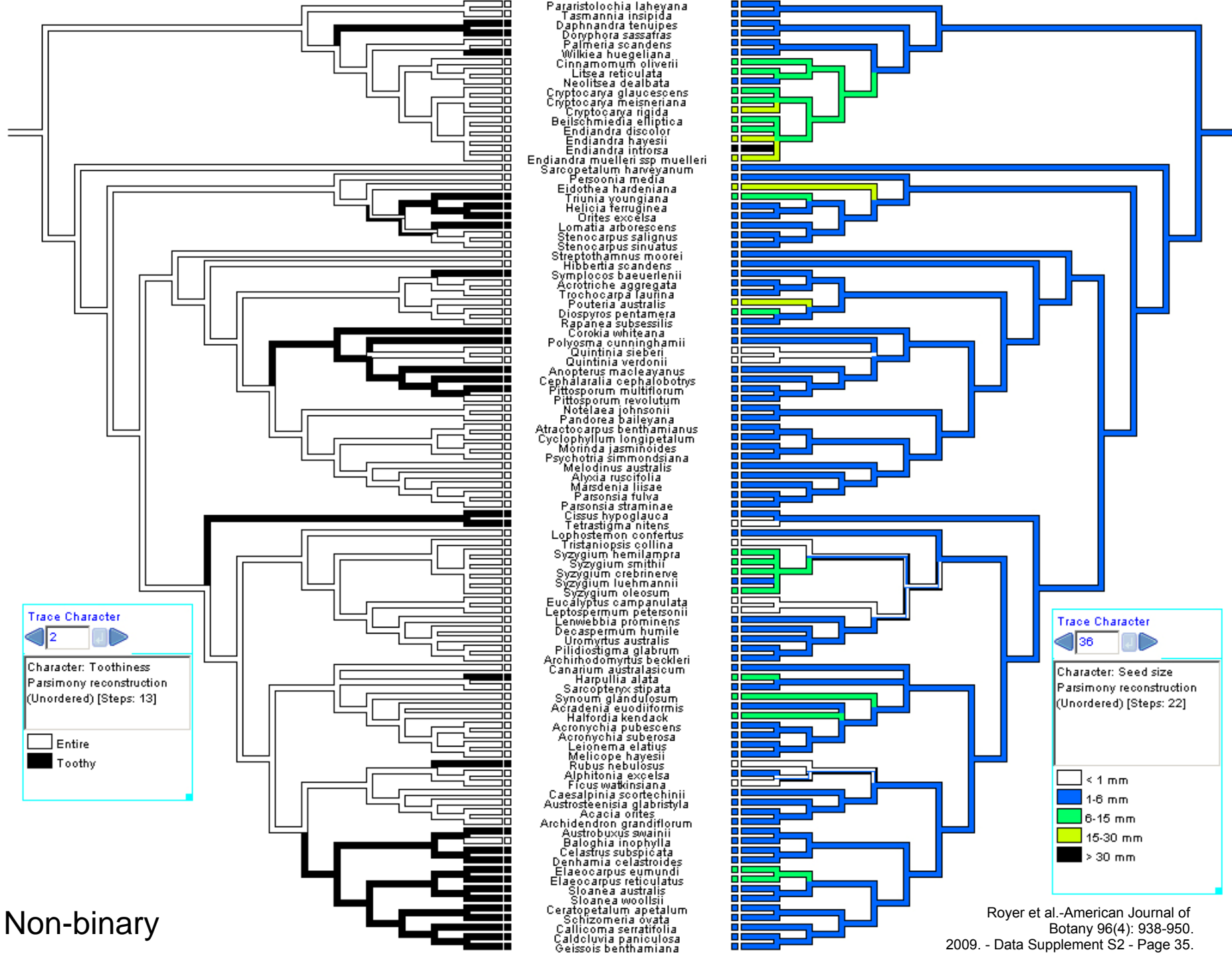
Trace Character

◀ 35 ▶

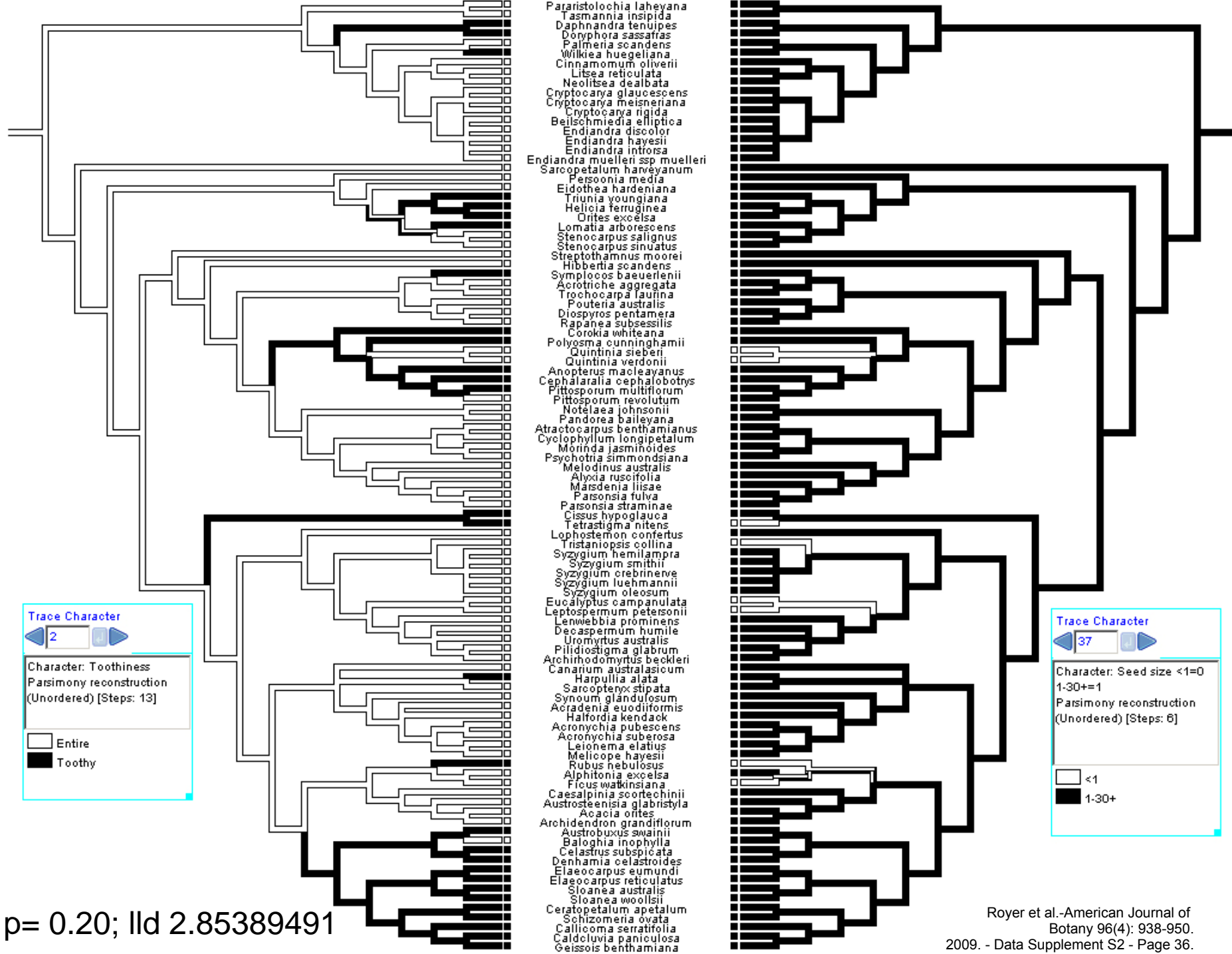
Character: Fruit Size 1-30=0  
 30+=1  
 Parsimony reconstruction  
 (Unordered) [Steps: 6]

□ 1-30  
 ■ 30+

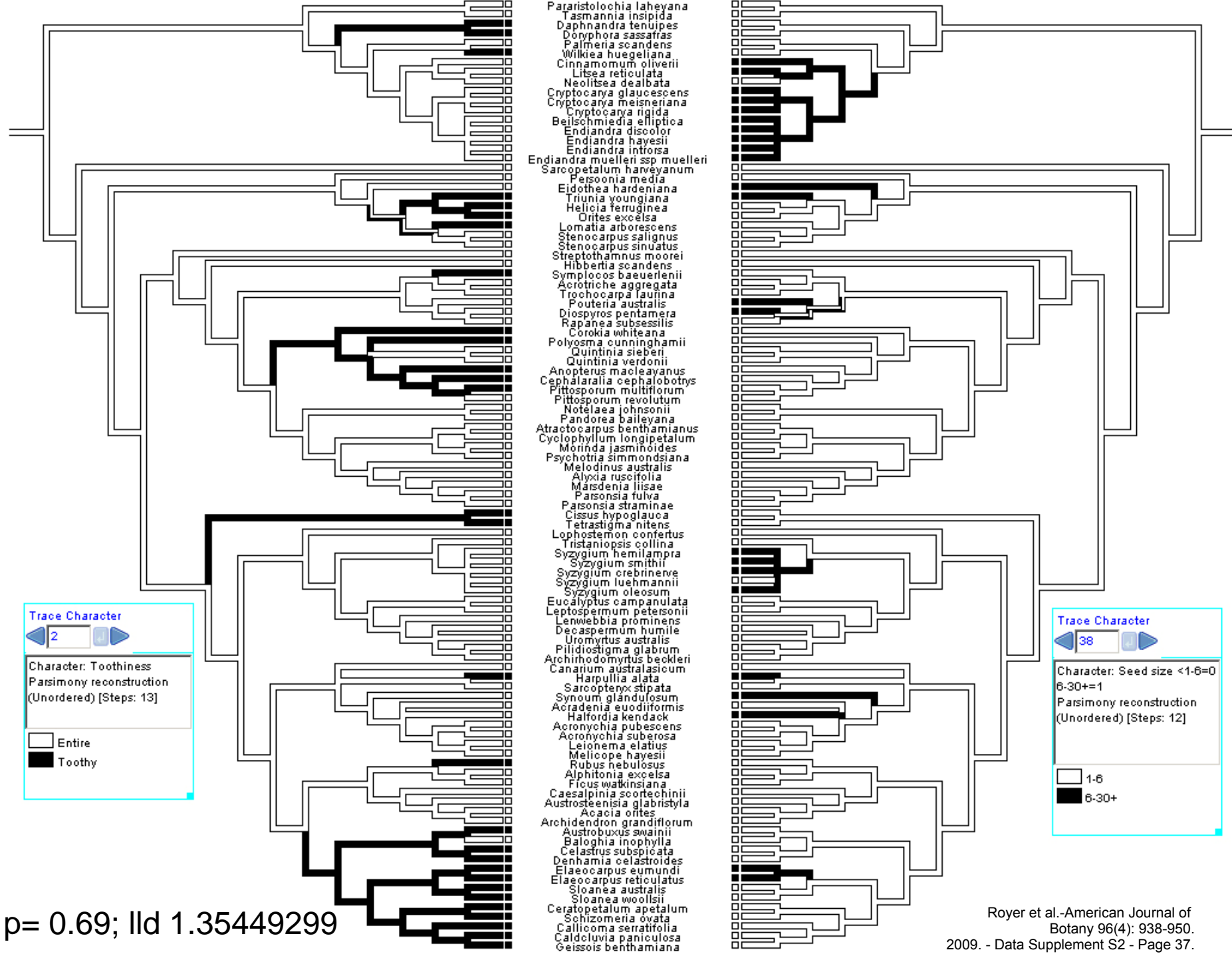
p= 0.14; lld 2.99578377



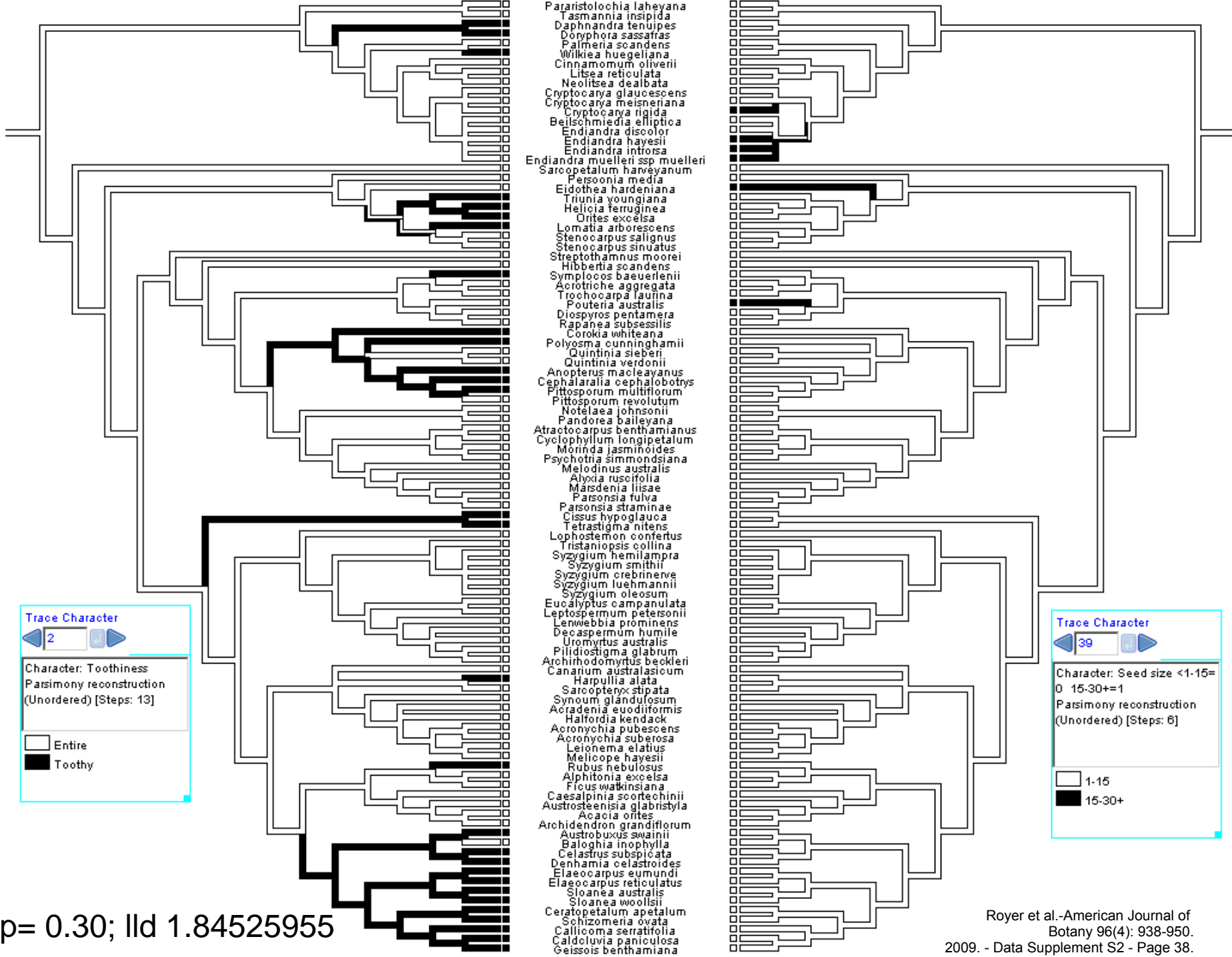
Non-binary

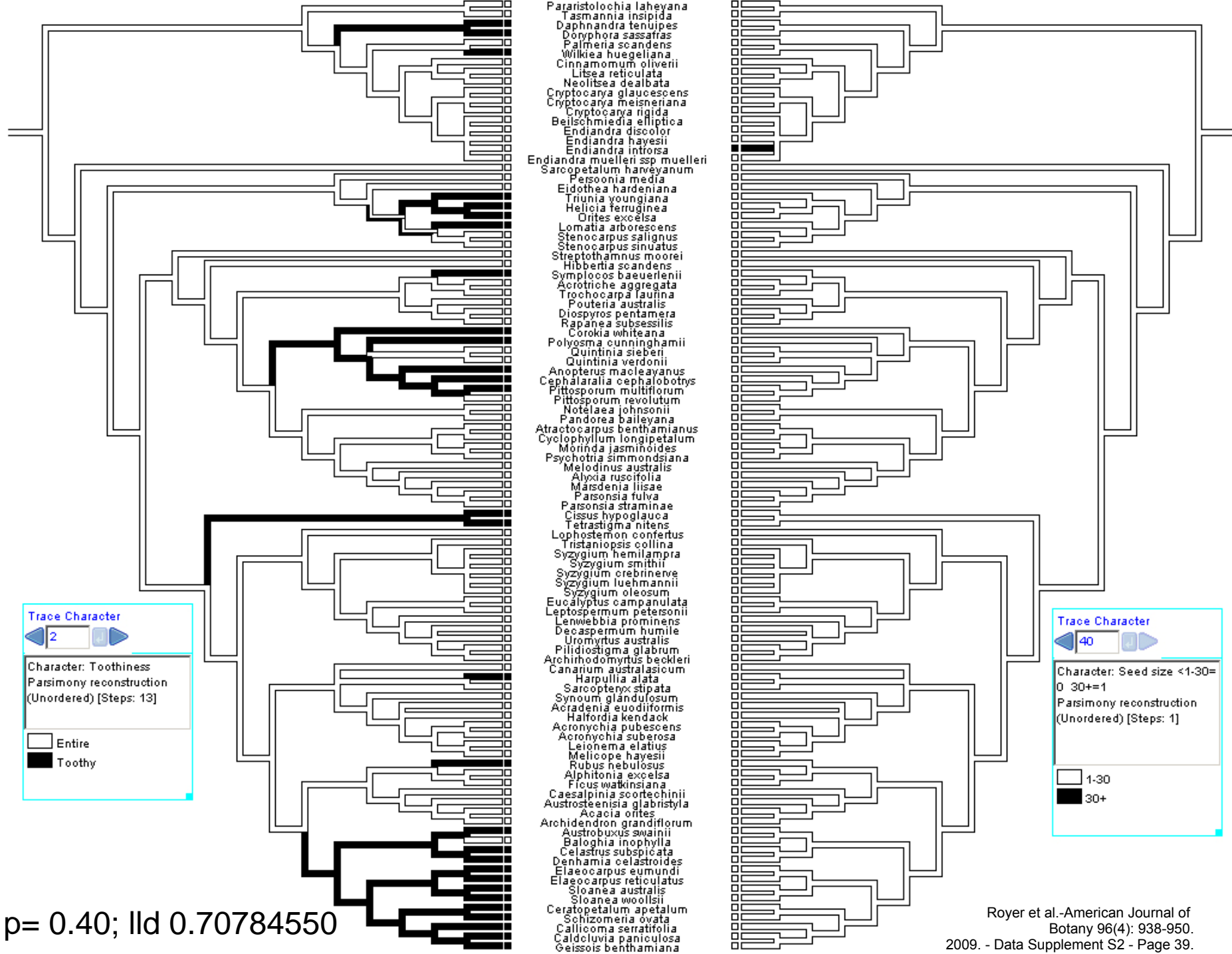


p= 0.20; lld 2.85389491



p= 0.69; lld 1.35449299





p= 0.40; Ild 0.70784550