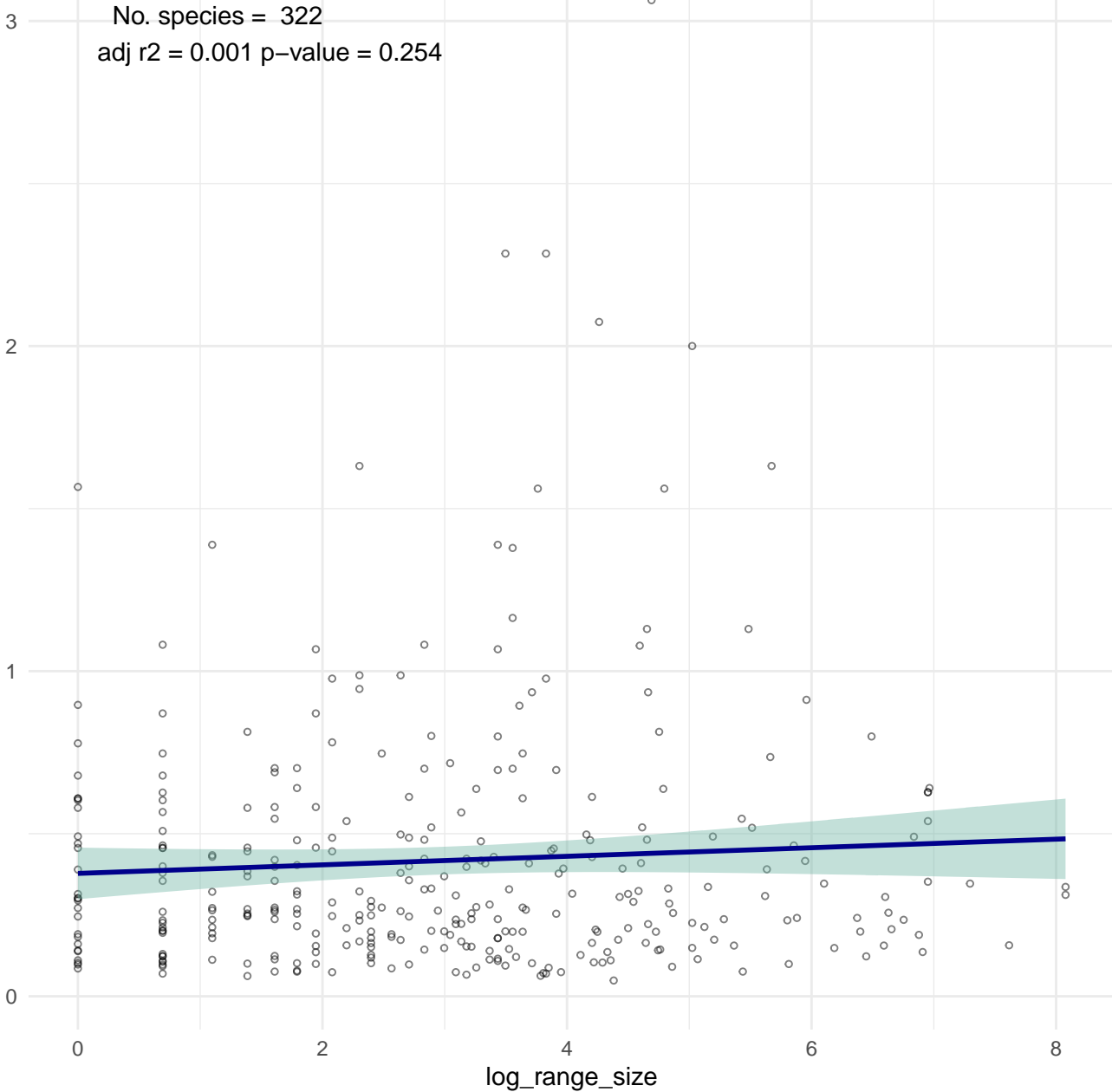


Allium-Han\_et\_al-2019.tree

No. species = 322

adj r2 = 0.001 p-value = 0.254

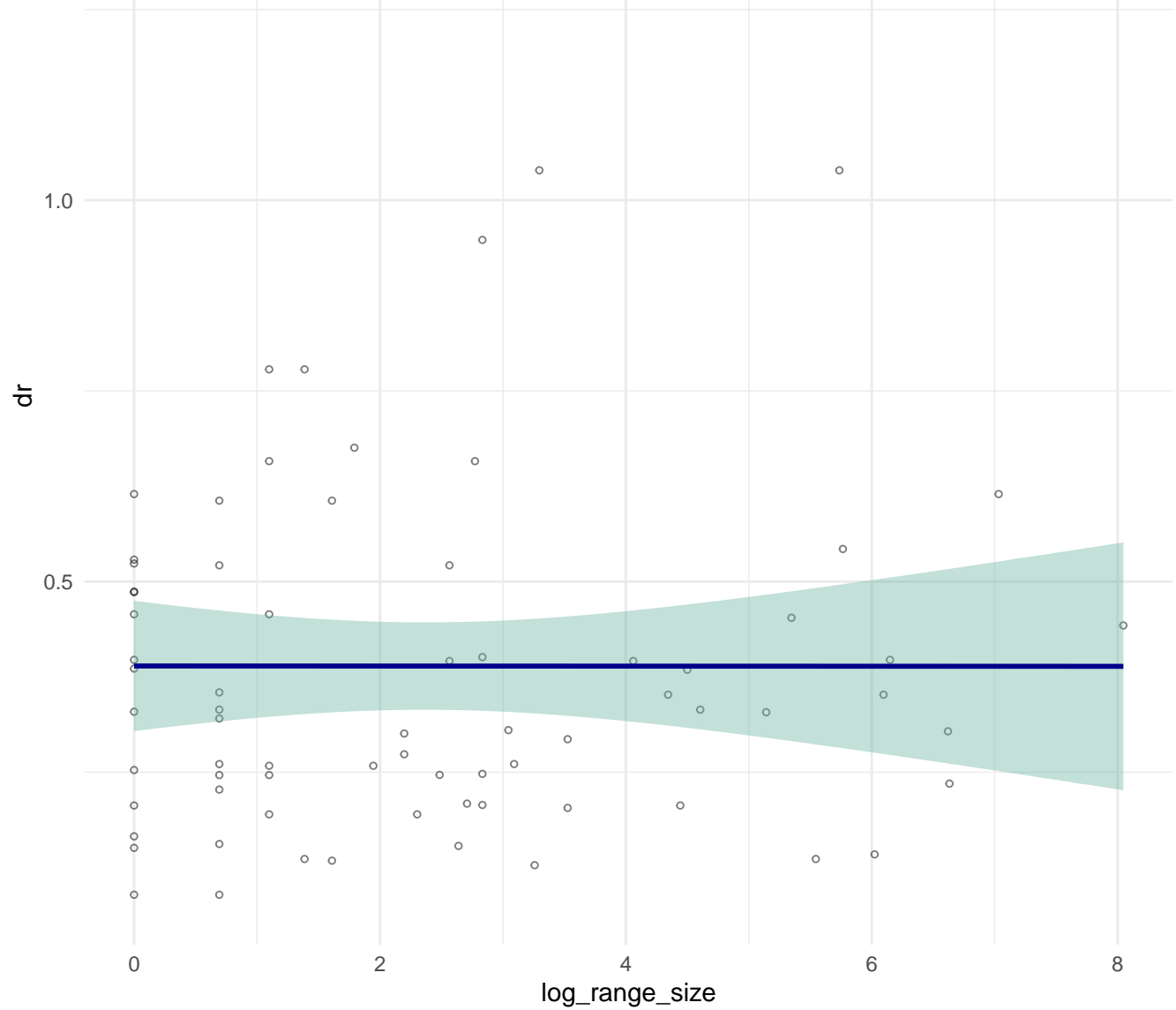
dr



Alysseae-Huang\_et\_al-2019.tree

No. species = 73

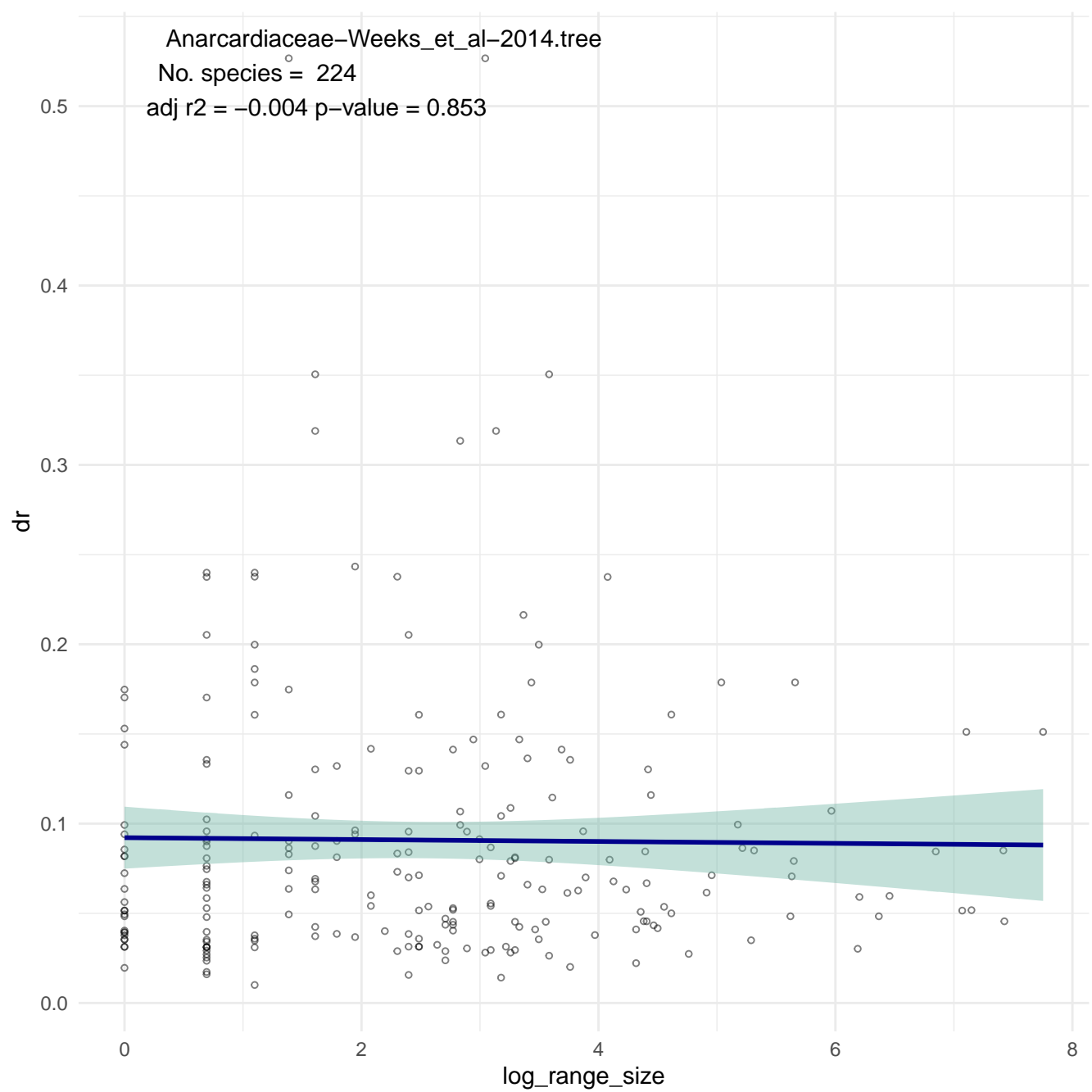
adj r2 = -0.014 p-value = 0.996



Anarcardiaceae-Weeks\_et\_al-2014.tree

No. species = 224

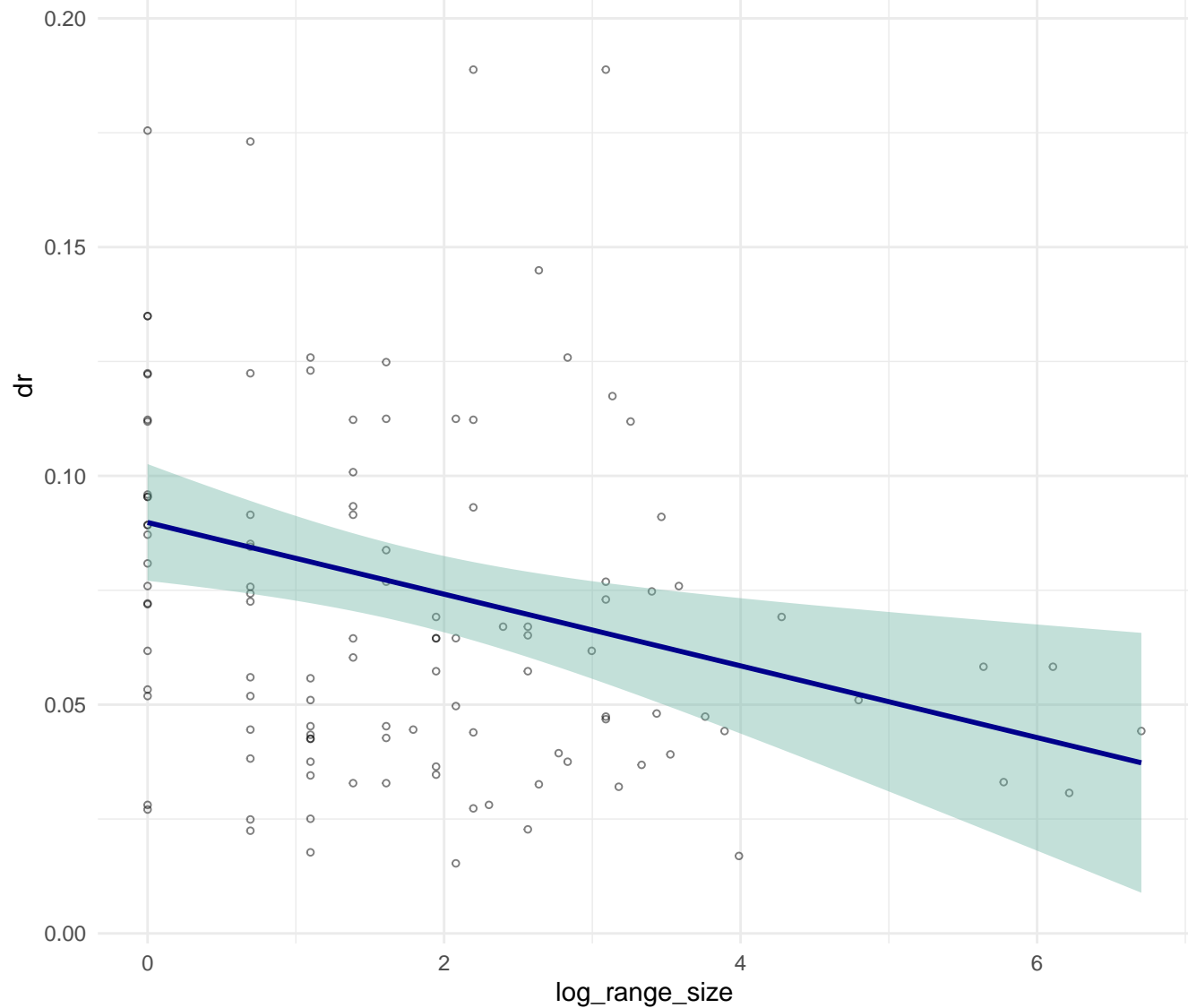
adj r2 = -0.004 p-value = 0.853



Annonaceae-Onstein\_et\_al-2019.tree

No. species = 118

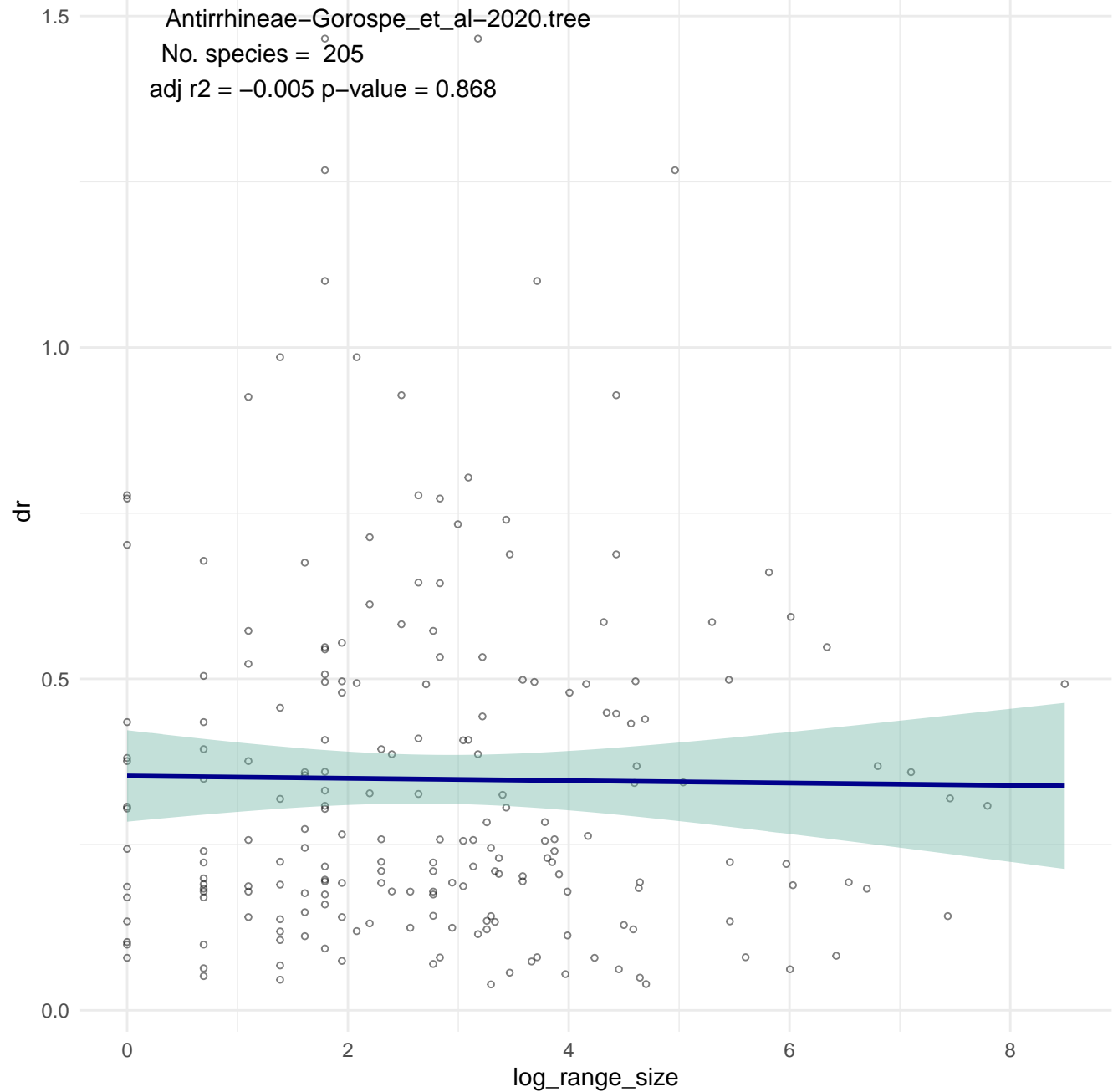
adj r2 = 0.056 p-value = 0.006



Antirrhineae-Gorospe\_et\_al-2020.tree

No. species = 205

adj r2 = -0.005 p-value = 0.868



Apioideae-Banasiak\_et\_al-2013.tree

No. species = 645

adj r2 = 0.014 p-value = 0.001

dr

0

5

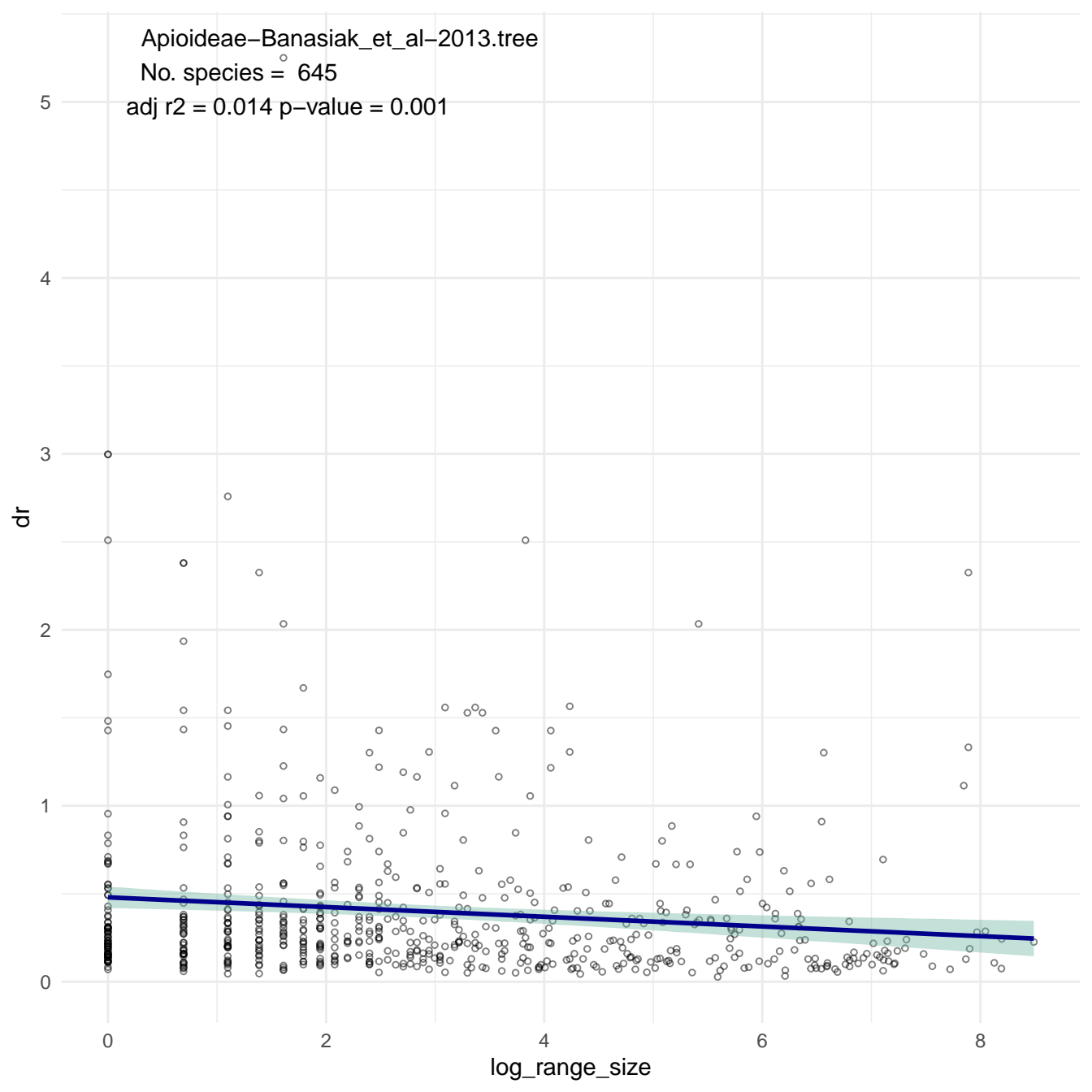
2

4

6

8

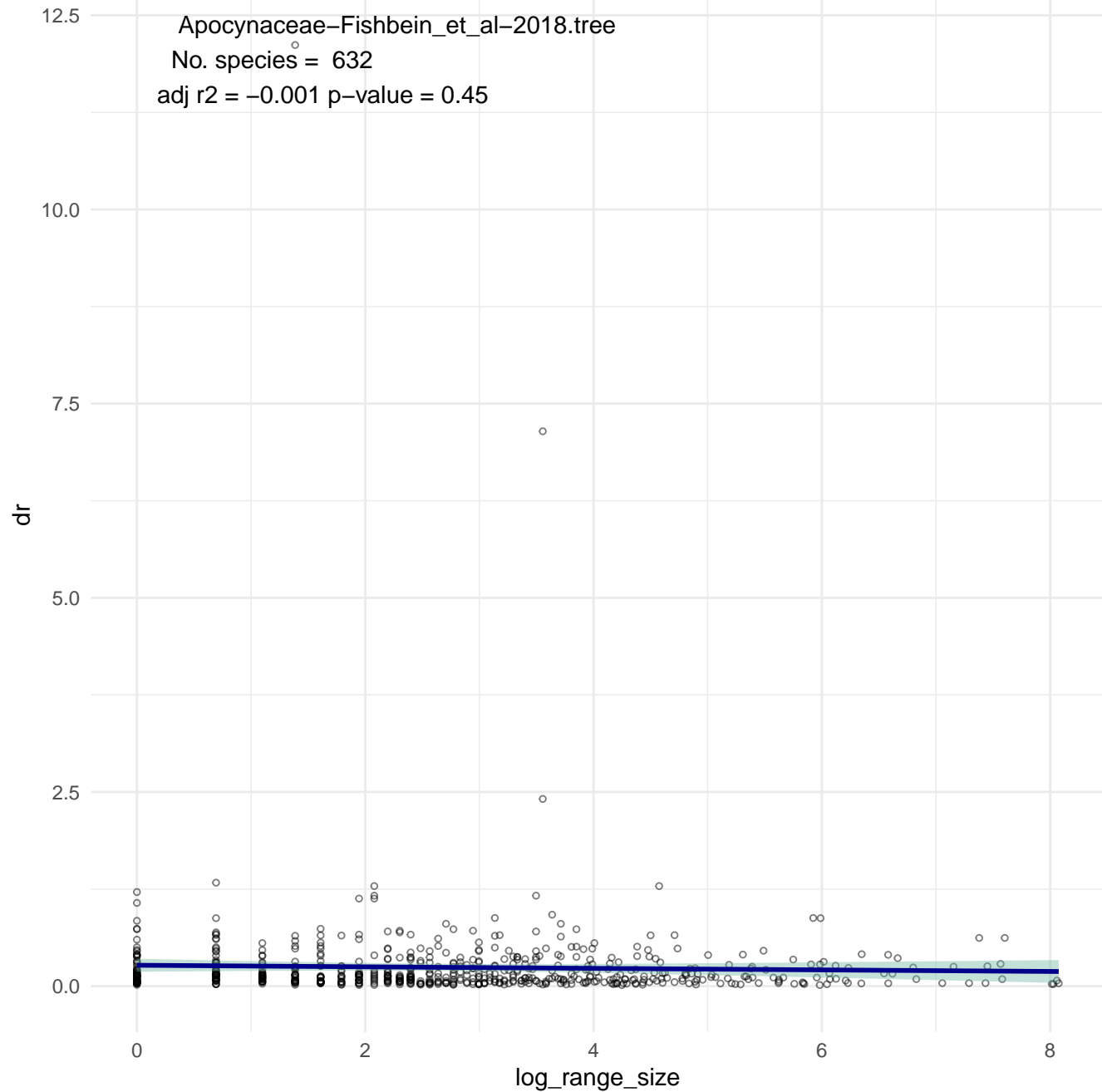
log\_range\_size



Apocynaceae–Fishbein\_et\_al–2018.tree

No. species = 632

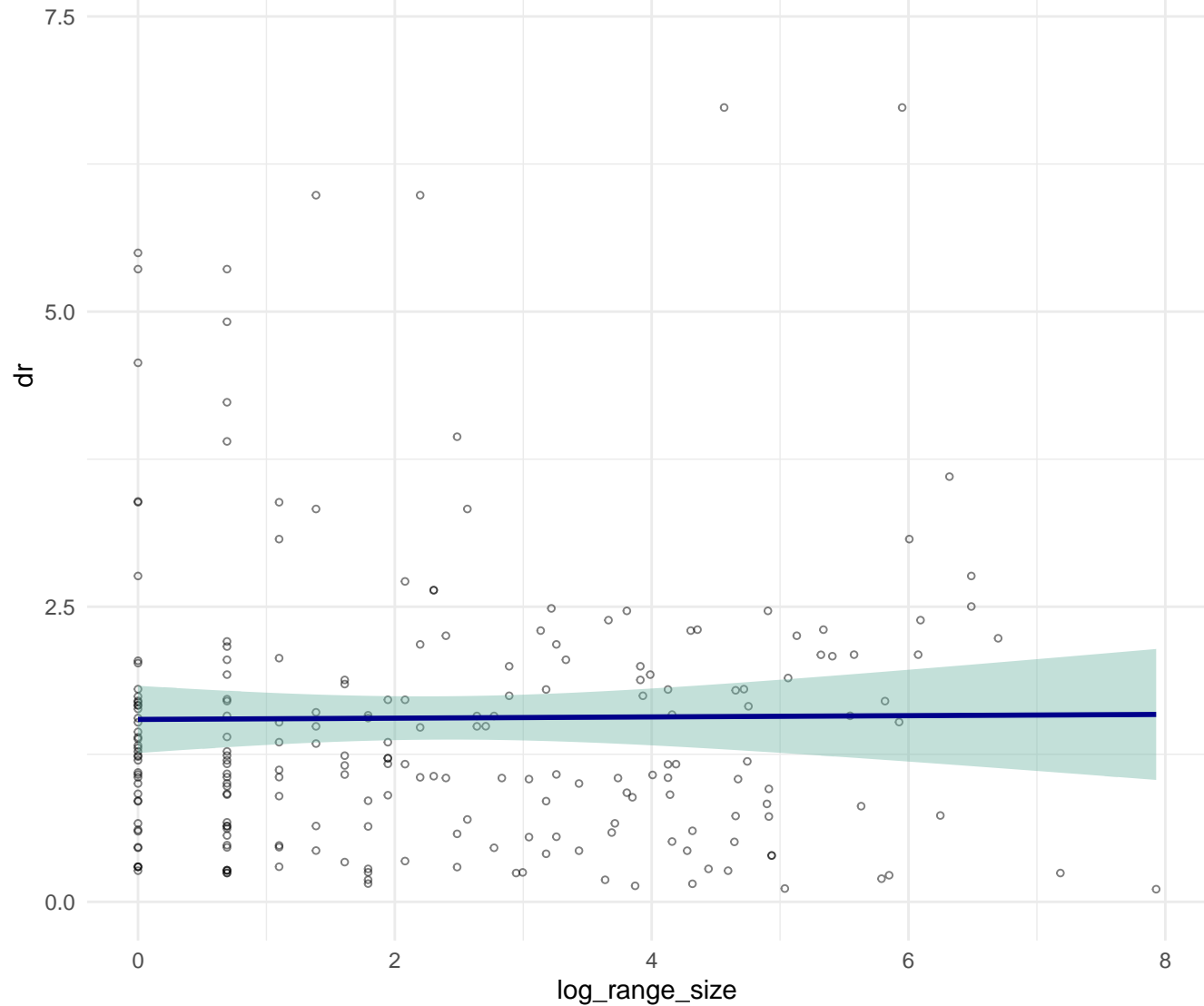
adj r2 = -0.001 p-value = 0.45



Arabideae-Huang\_et\_al-2019.tree

No. species = 223

adj r2 = -0.004 p-value = 0.911





Araceae–Nauheimer\_et\_al–2012.tree

No. species = 87

adj r2 = -0.006 p-value = 0.49

dr

0.100

0.075

0.050

0.025

0

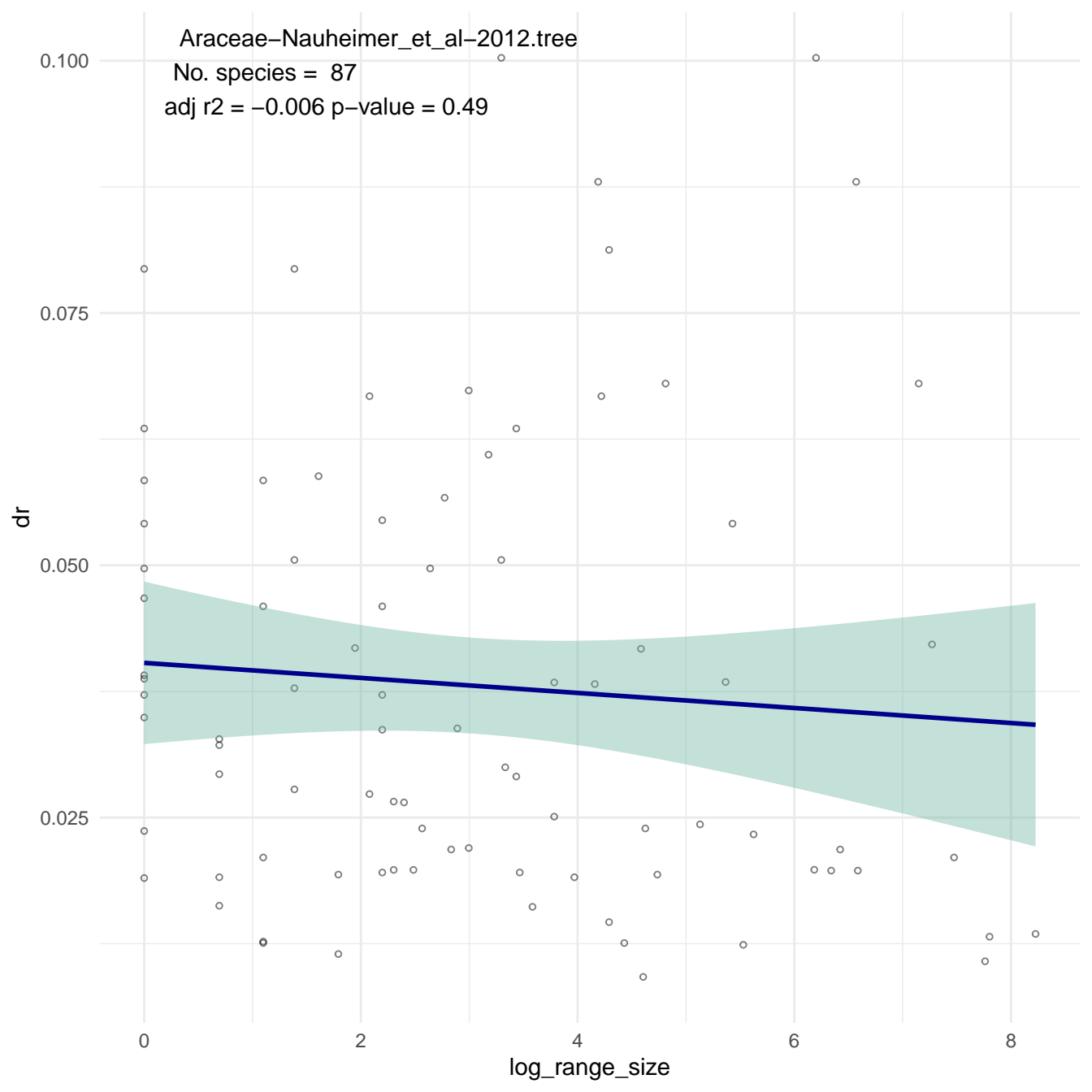
2

4

6

8

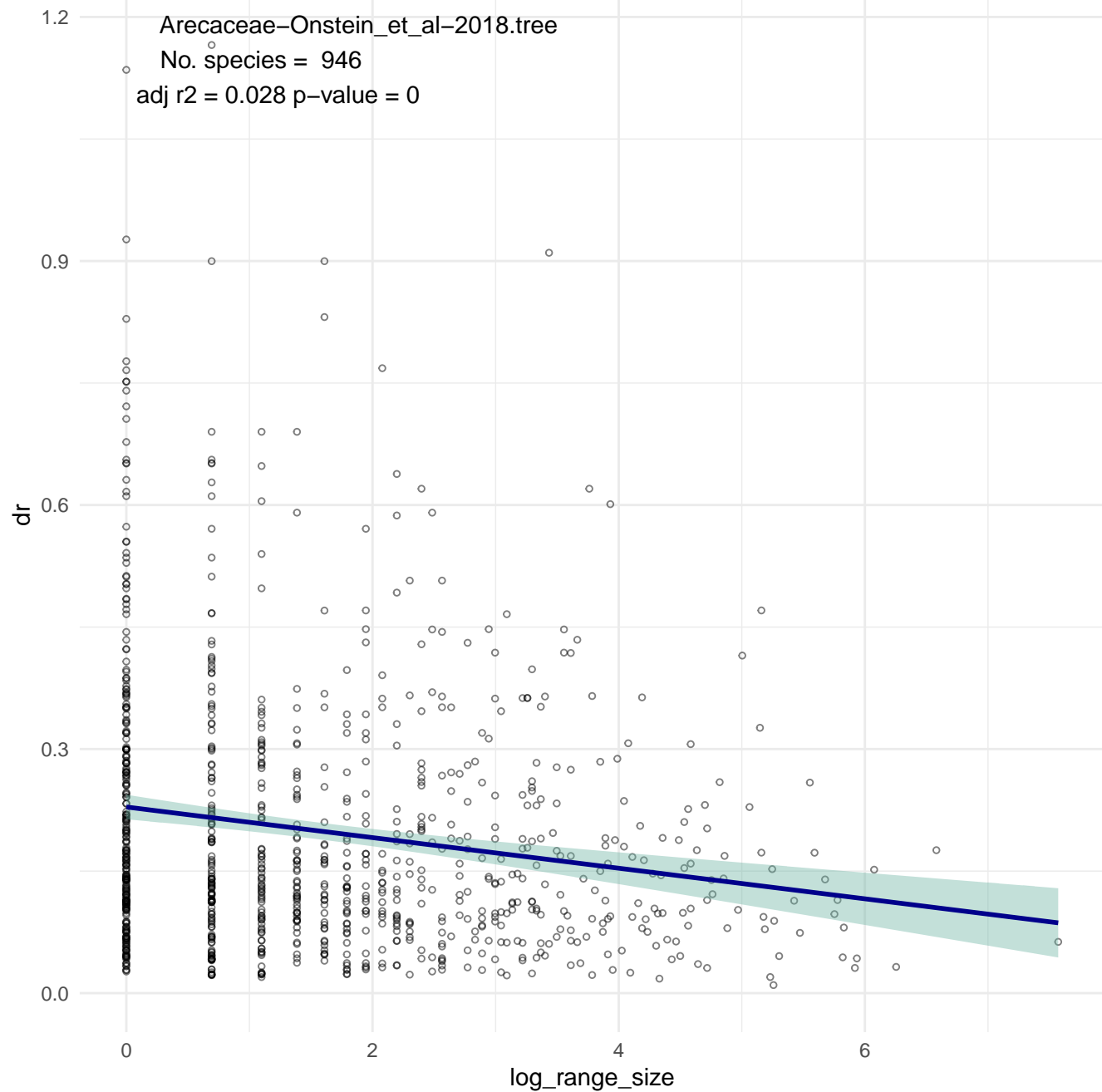
log\_range\_size



Arecaceae-Onstein\_et\_al-2018.tree

No. species = 946

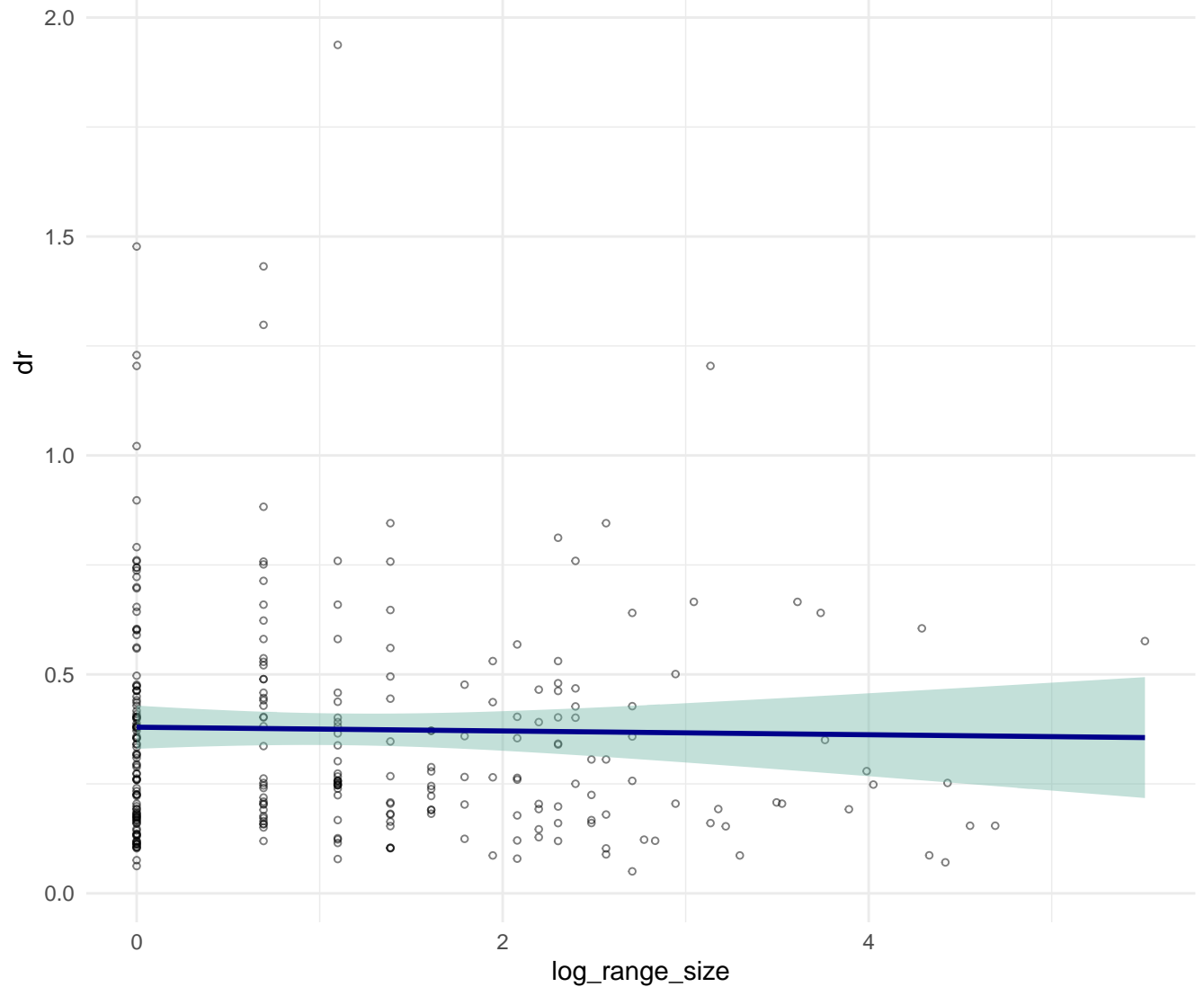
adj r2 = 0.028 p-value = 0



Begonia-Moonlight\_et\_al-2015.tree

No. species = 283

adj r2 = -0.003 p-value = 0.78



Bignoniaceae-Lohmann\_et\_al-2012.tree

No. species = 75

adj r2 = 0.024 p-value = 0.099

dr

0.09

0.06

0.03

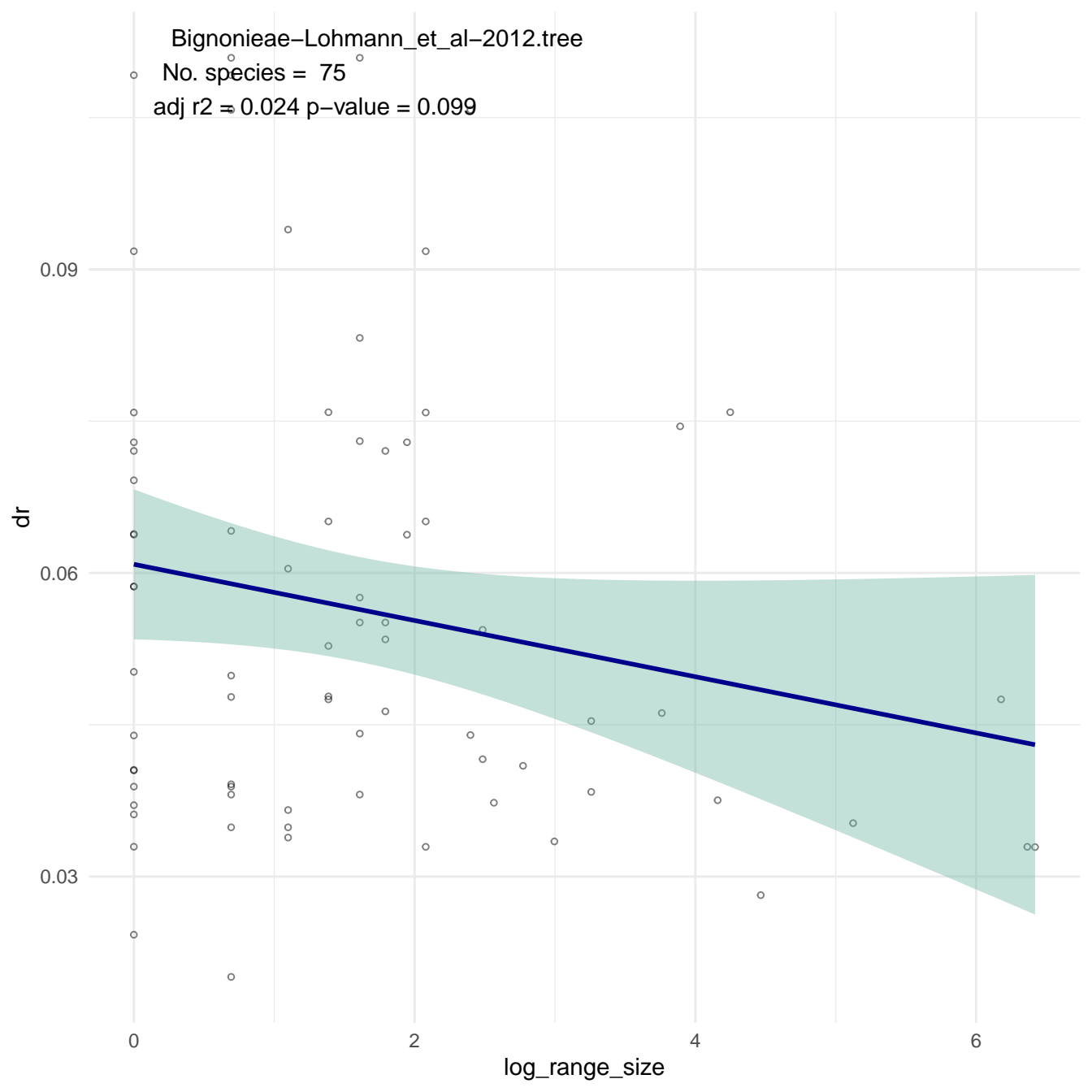
0

2

4

6

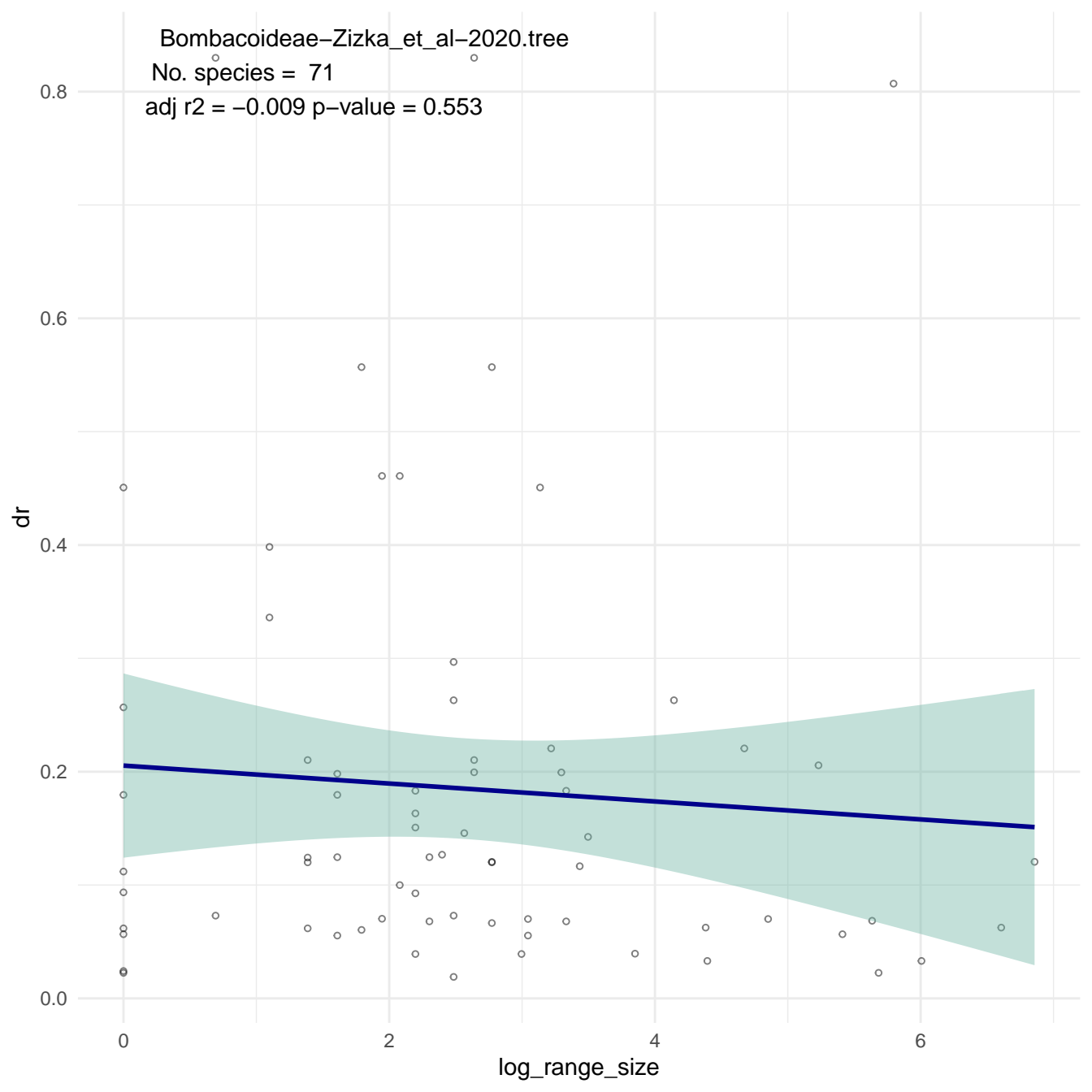
log\_range\_size



Bombacoideae-Zizka\_et\_al-2020.tree

No. species = 71

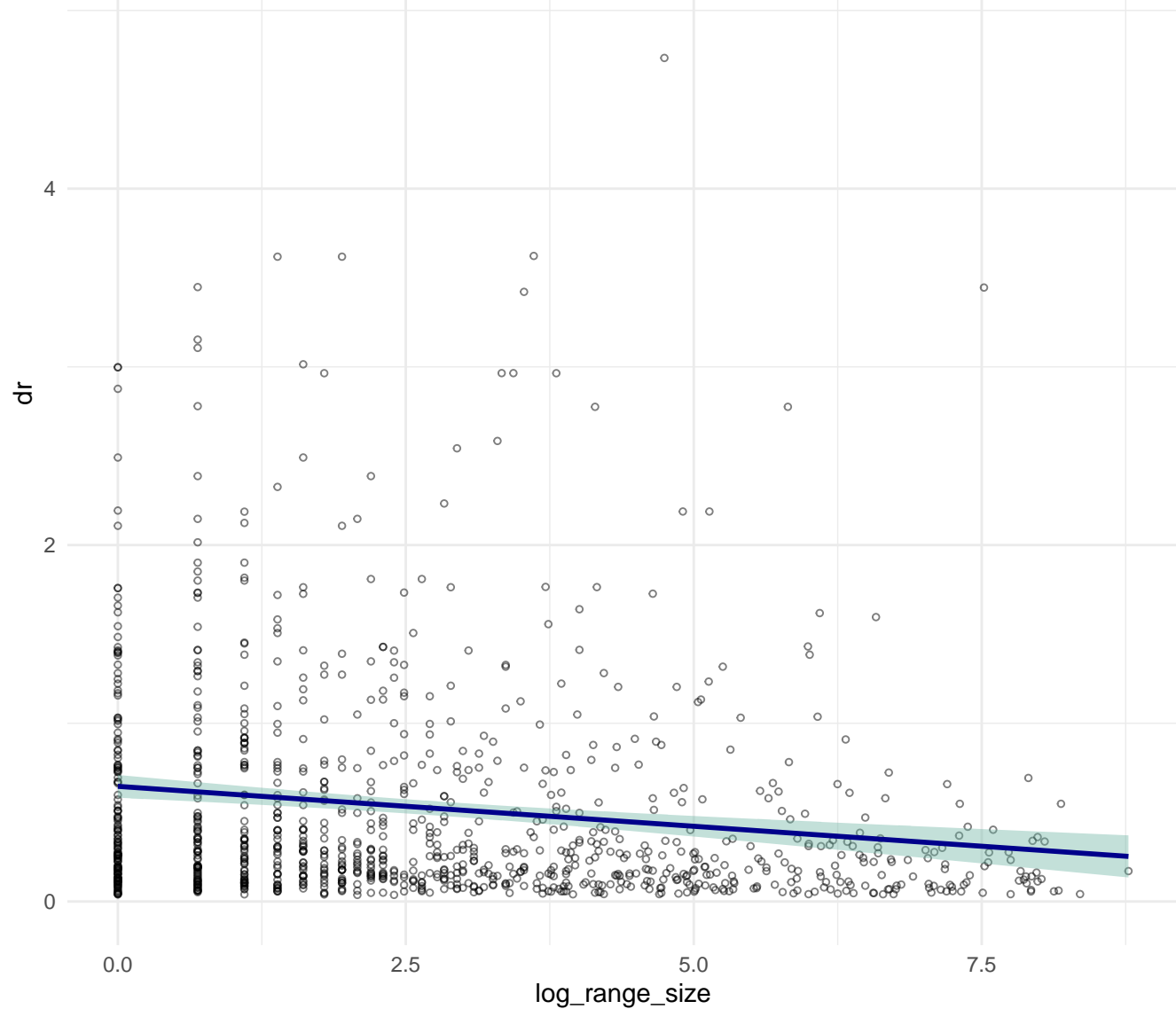
adj r2 = -0.009 p-value = 0.553



Brassicaceae-Smith\_&\_Brown-2018.tree

No. species = 1029

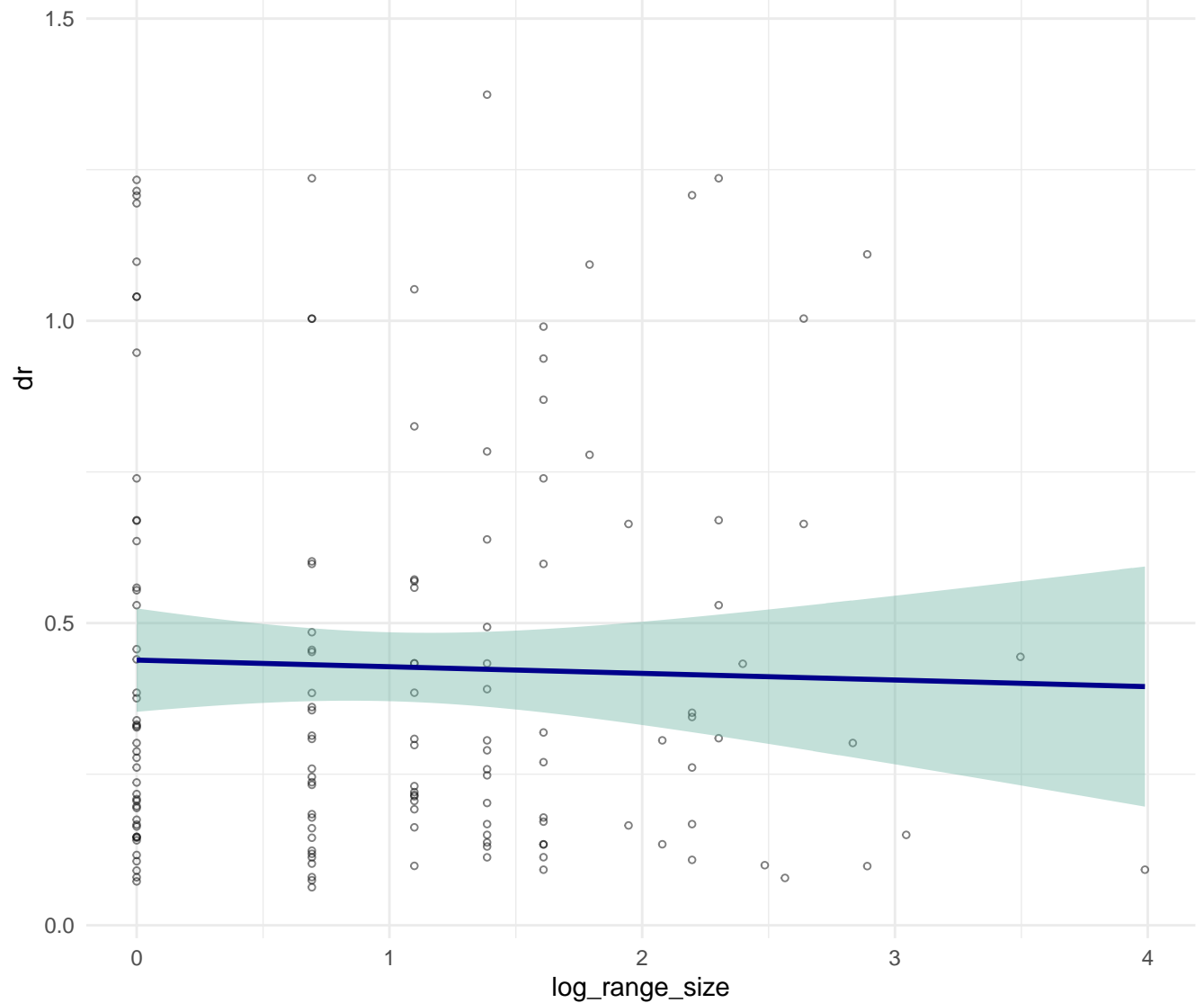
adj r2 = 0.021 p-value = 0



Bulbophyllum-Gamisch\_&\_Comes-2019.tree

No. species = 148

adj r2 = -0.006 p-value = 0.734



Cardamineae-Huang\_et\_al-2019.tree

No. species = 127

adj r2 = -0.008 p-value = 0.915

dr

0

2

4

6

8

log\_range\_size

1.0

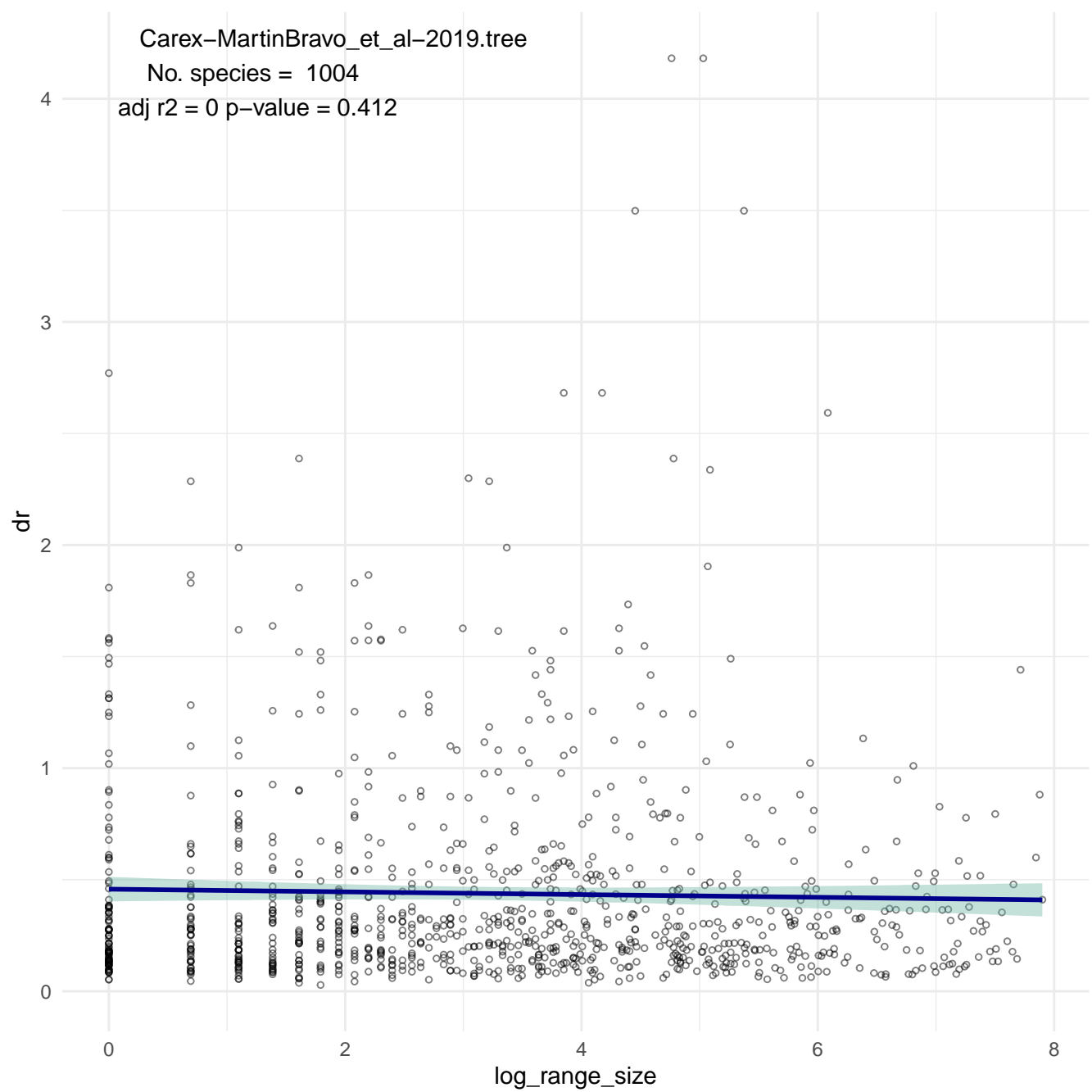
0.5



Carex-MartinBravo\_et\_al-2019.tree

No. species = 1004

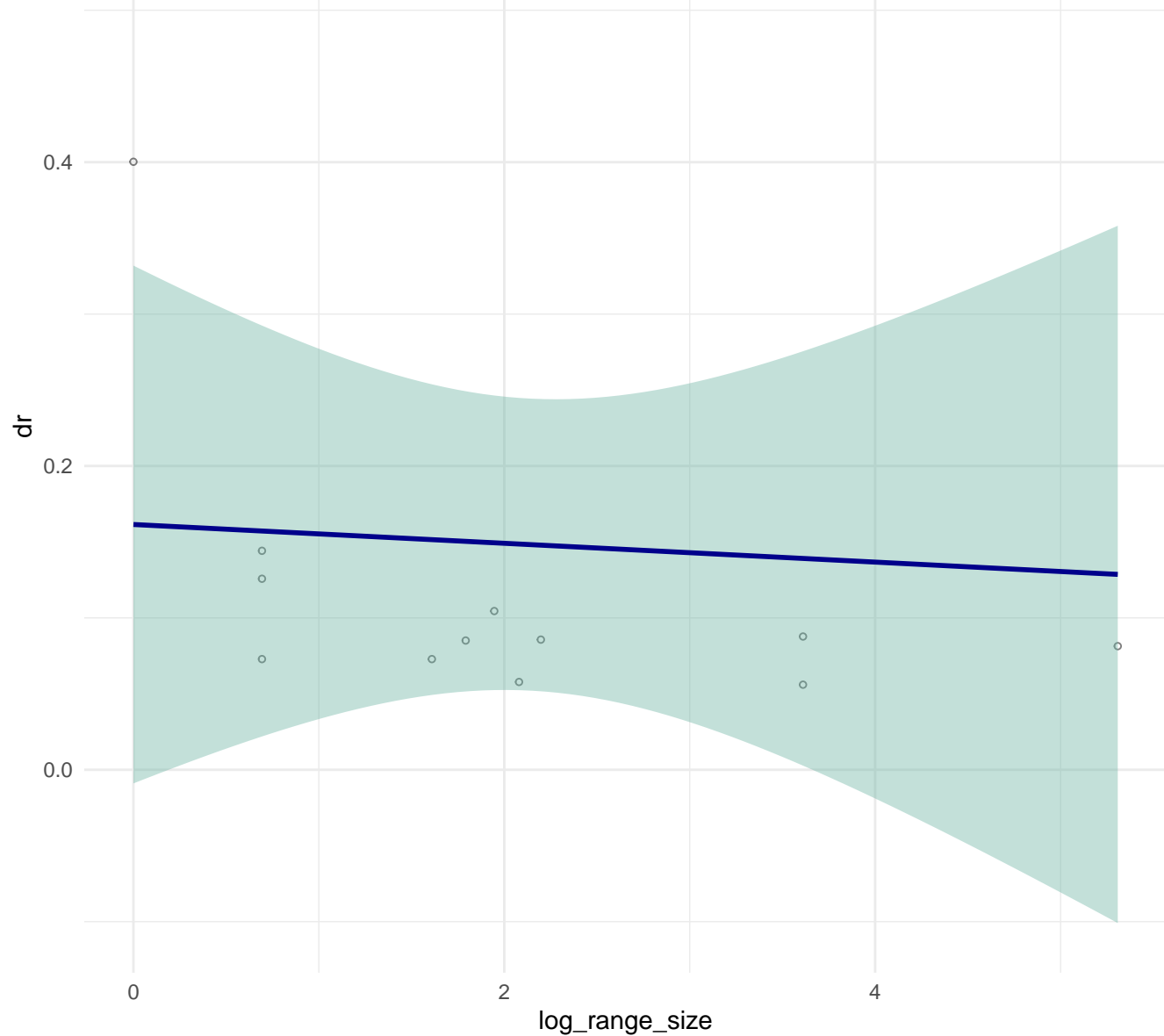
adj r2 = 0 p-value = 0.412



Chamaecrista-Vasconcelos\_et\_al-2020.tree

No. species = 13

adj r2 = -0.087 p-value = 0.84



Chrysobalanaceae-Chave\_et\_al-2020.tree

No. species = 113

adj r2 = 0.018 p-value = 0.085

dr

0.8

0.6

0.4

0.2

0.0

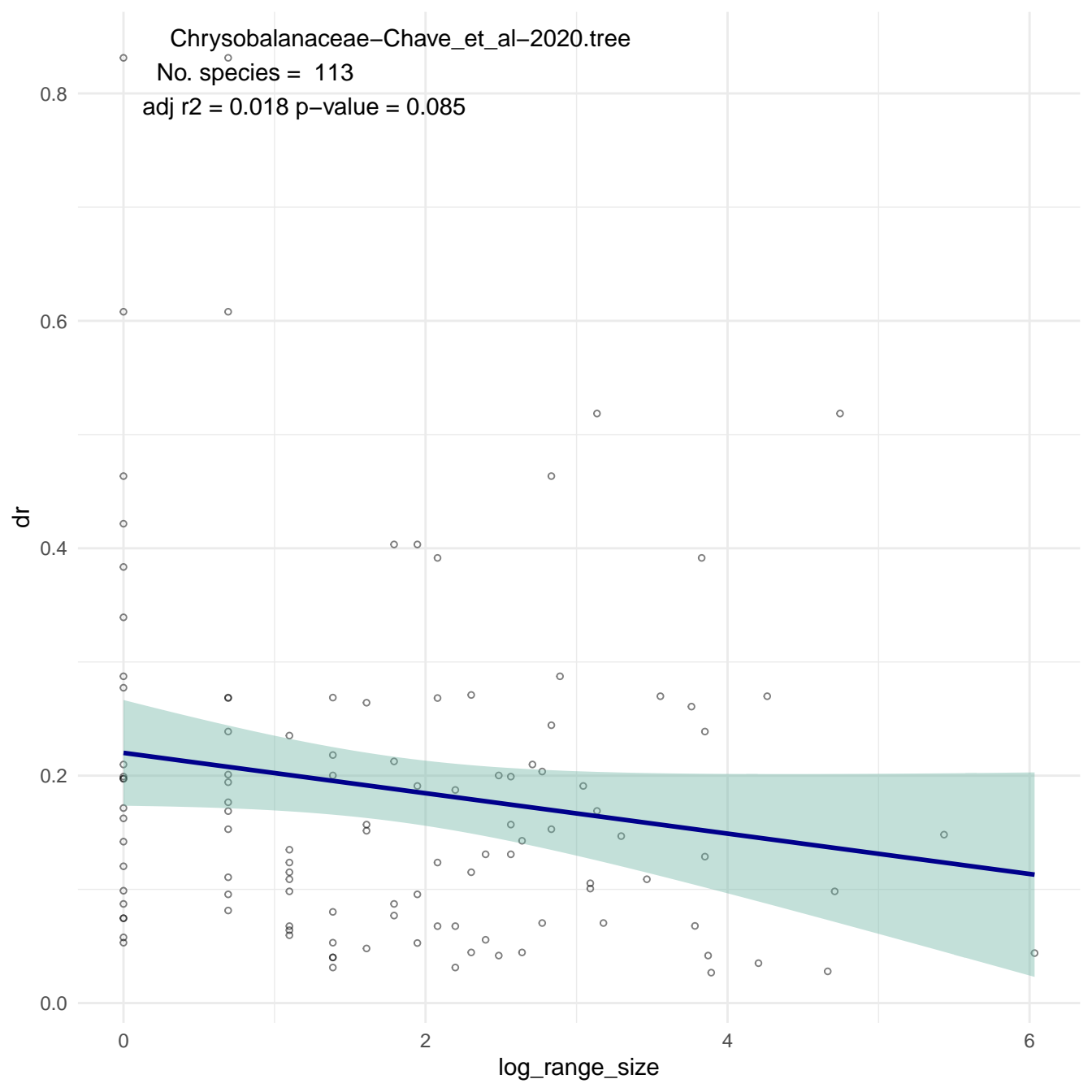
0

2

4

6

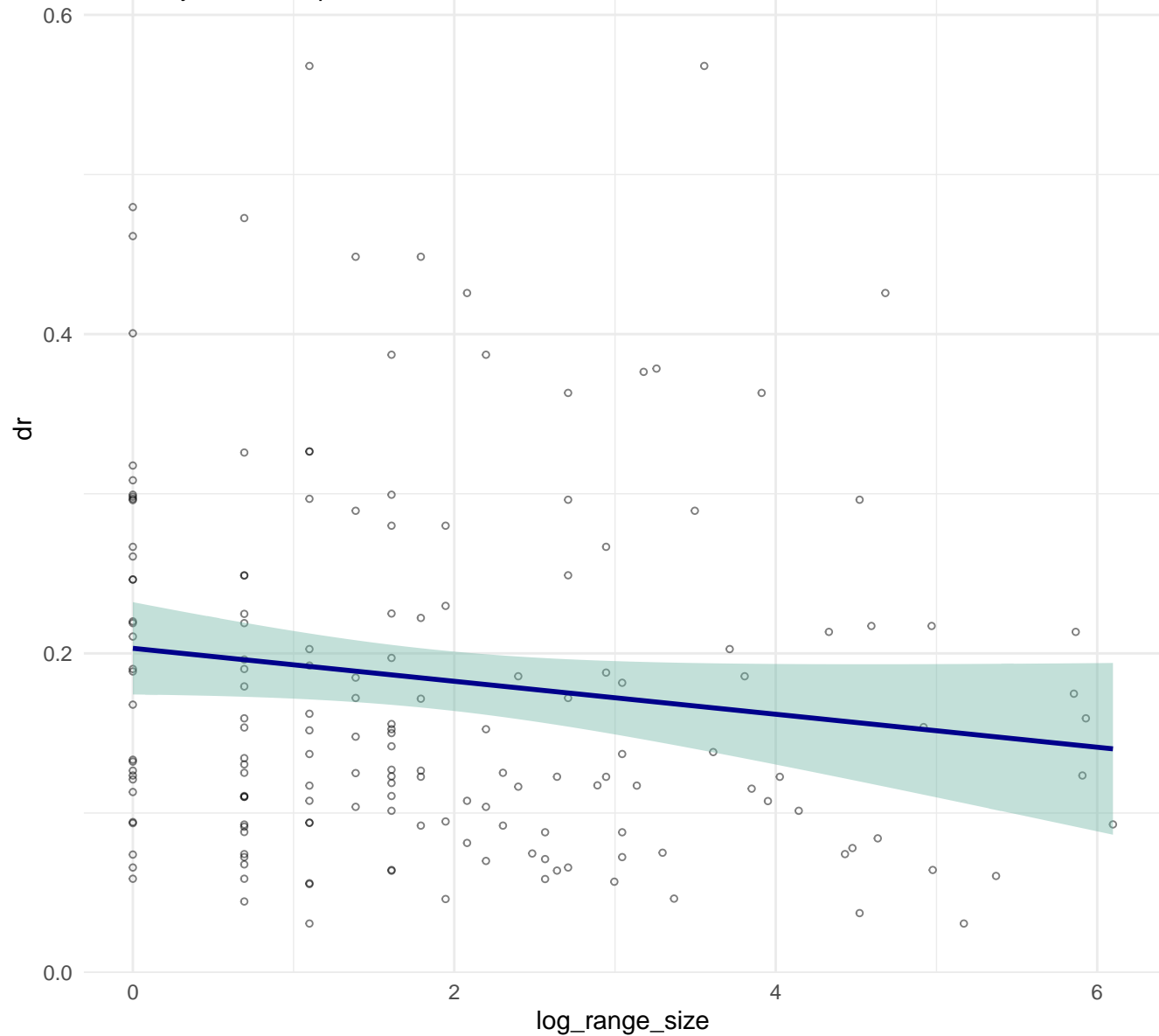
log\_range\_size



Croton-Arevalo\_et\_al-2017.tree

No. species = 170

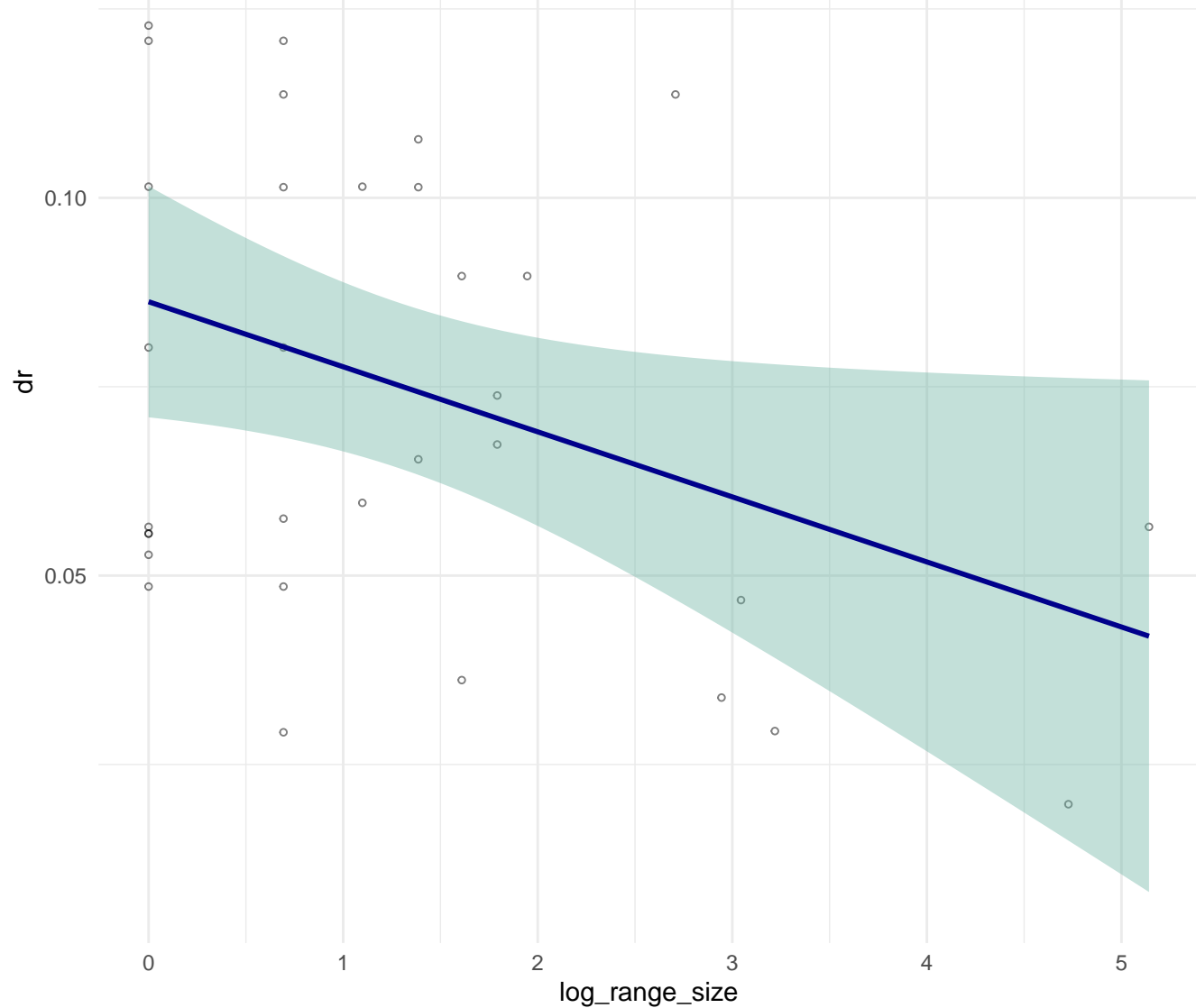
adj r2 = 0.011 p-value = 0.089



Cyclanthaceae-Leal\_et\_al-in\_review.tree

No. species = 33

adj r2 = 0.098 p-value = 0.043



Dipterocarpaceae-Bansal\_et\_al-2022.tree

No. species = 89

adj r2 = 0.071 p-value = 0.007

dr

300  
200  
100  
0

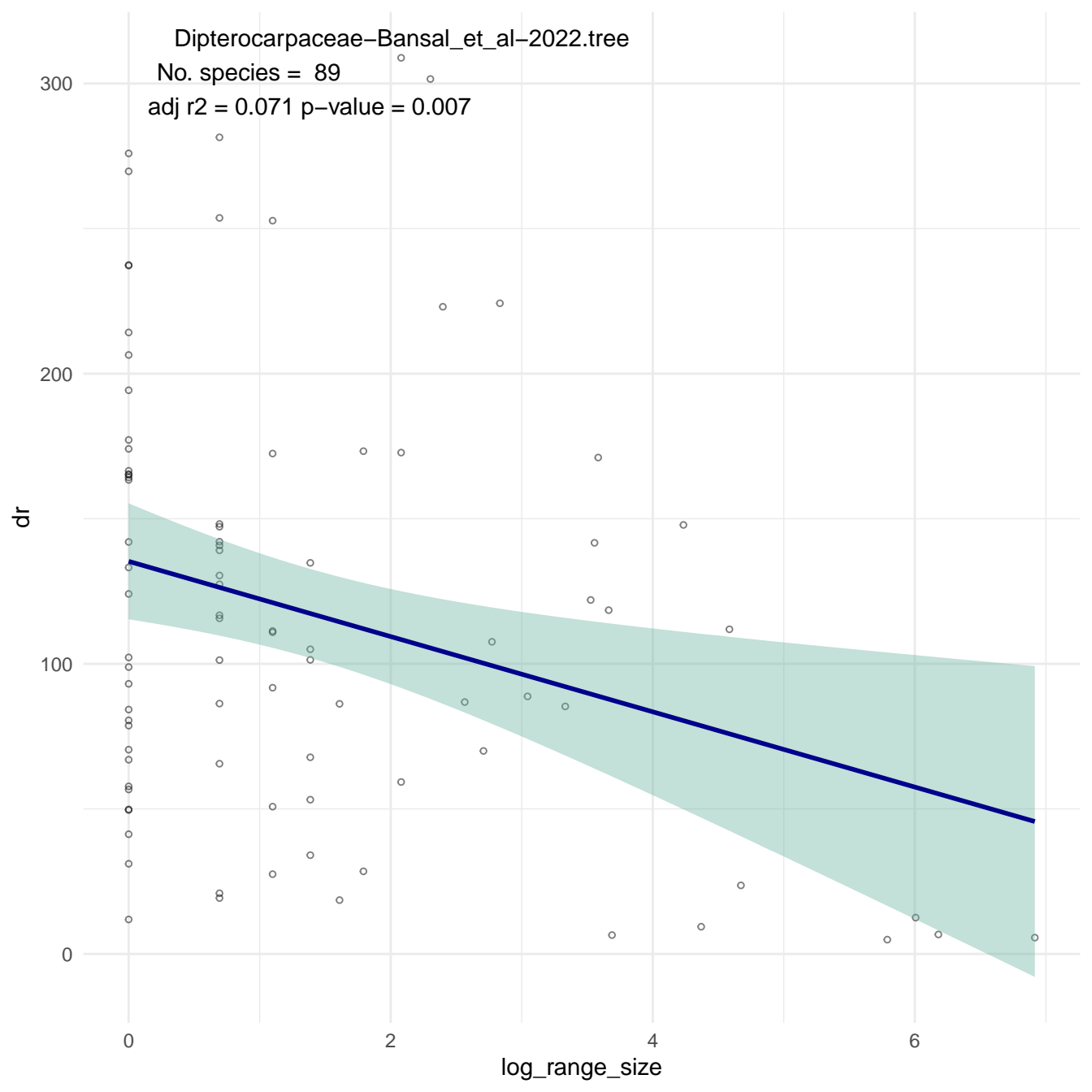
0

2

4

6

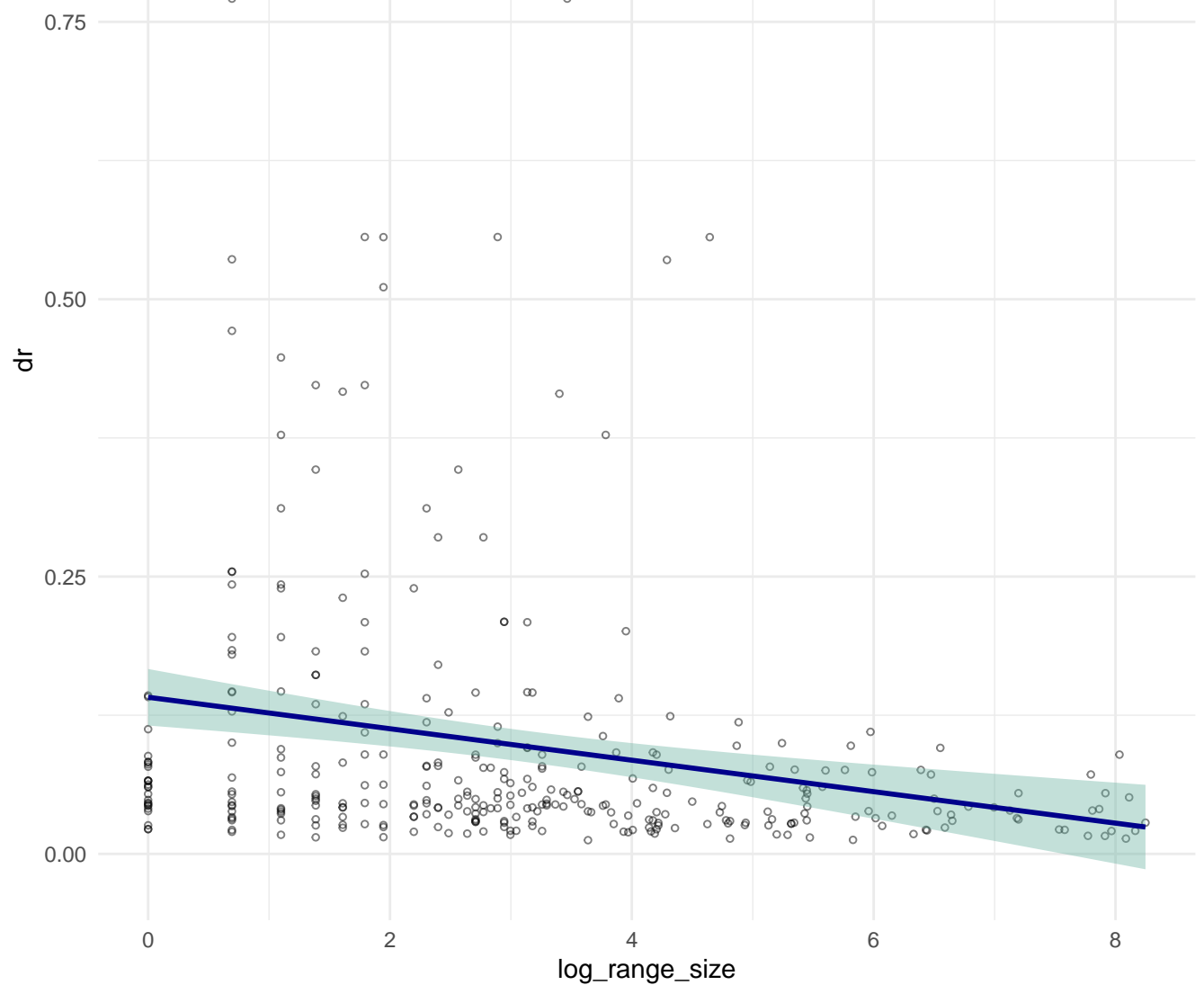
log\_range\_size



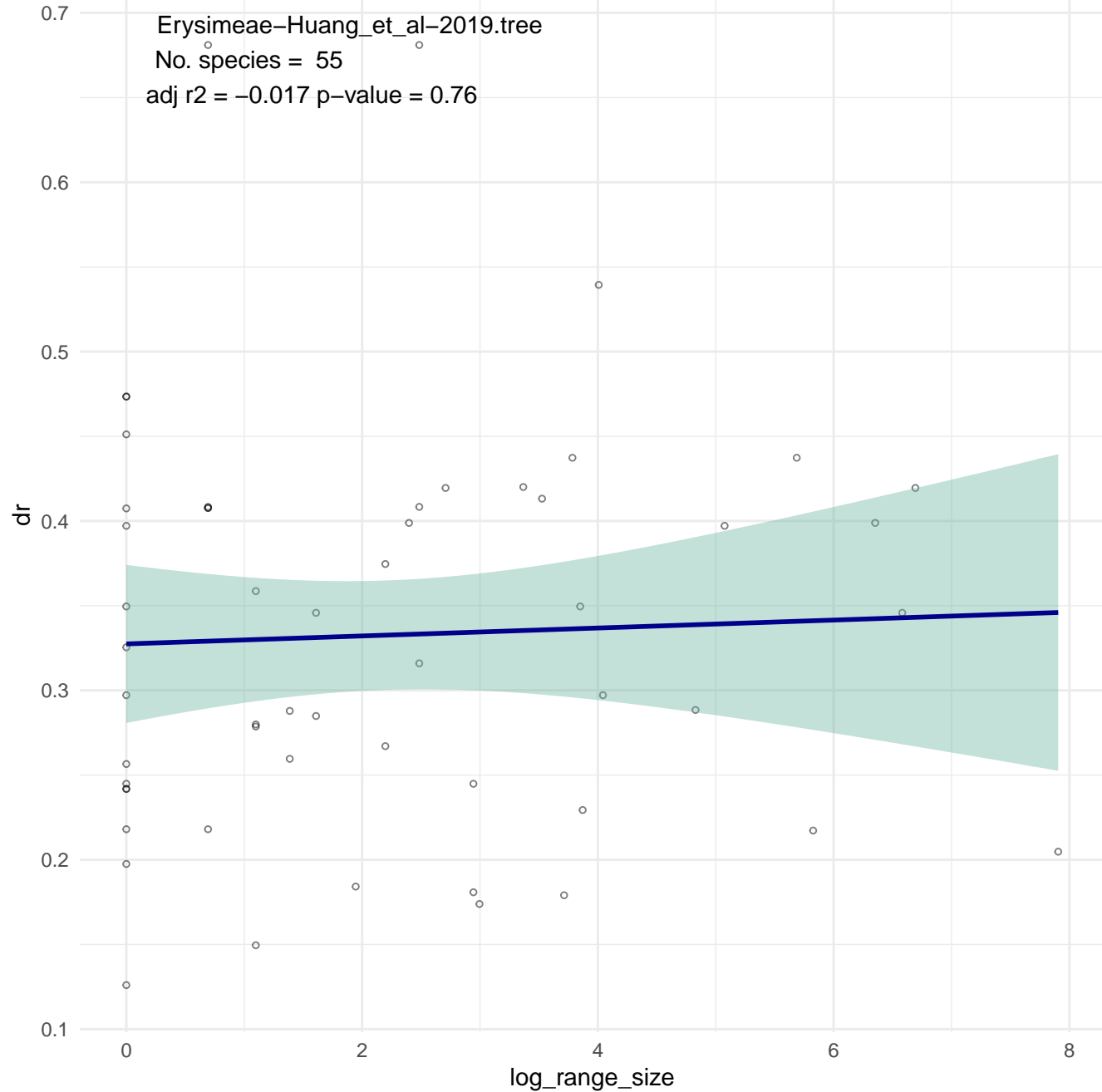
Ericaceae-Schwery\_et\_al-2015.tree

No. species = 330

adj r2 = 0.045 p-value = 0



Erysimeae-Huang\_et\_al-2019.tree  
No. species = 55  
adj r2 = -0.017 p-value = 0.76





Eucalypts-Thornhill\_et\_al-2019.tree

No. species = 661

adj r2 = -0.001 p-value = 0.781

dr

50  
40  
30  
20  
10  
0

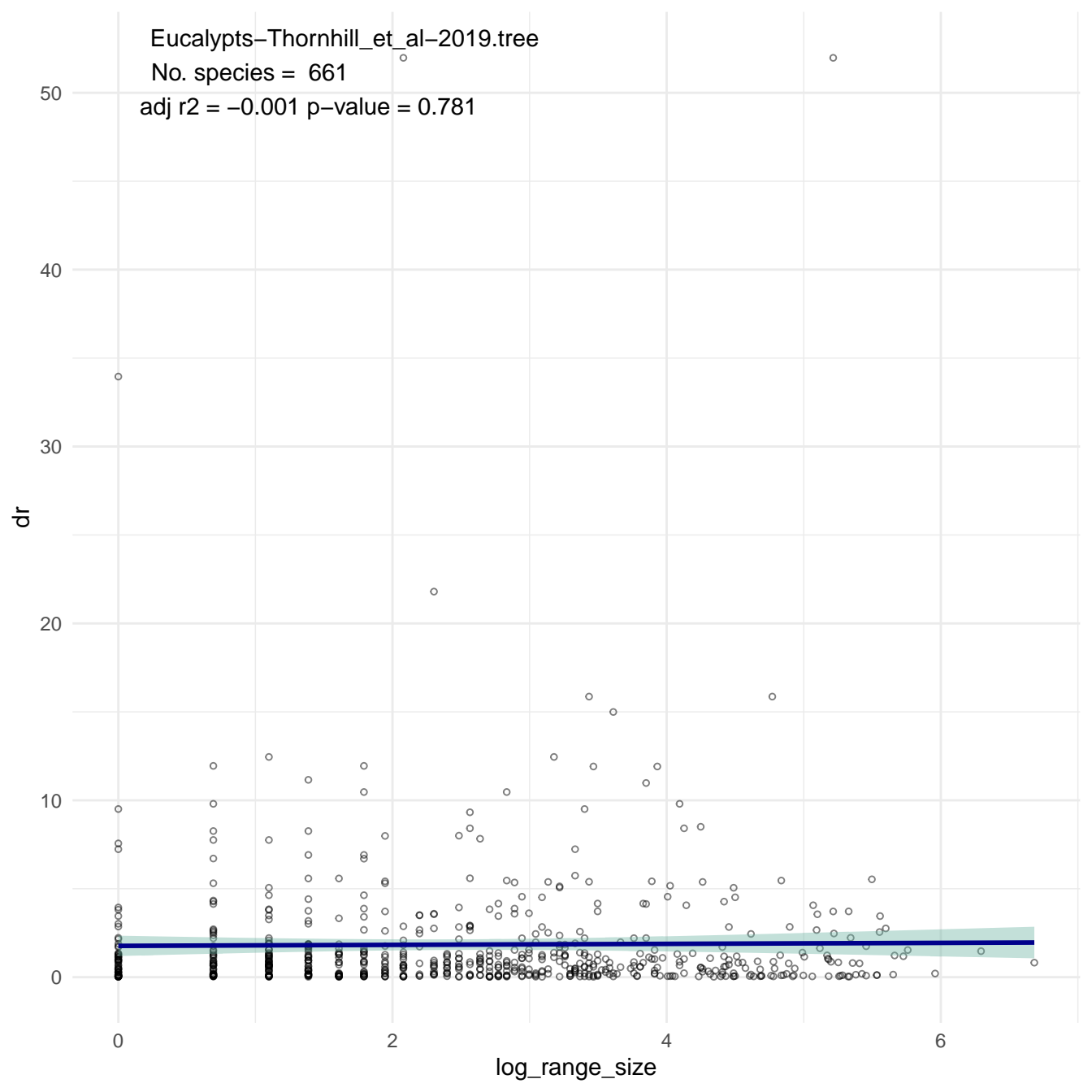
0

2

4

6

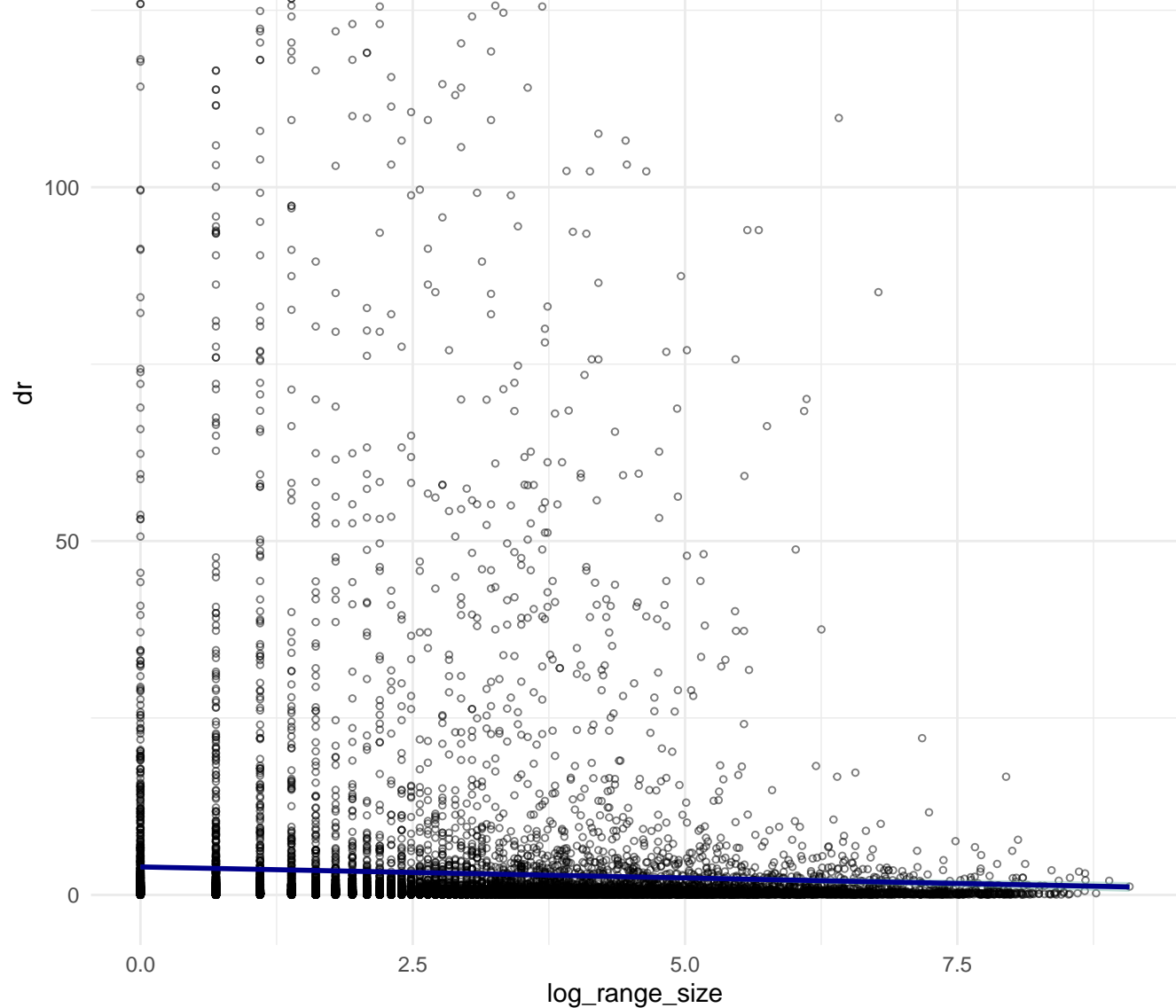
log\_range\_size



FabalesRosalesFagalesCucurbitalesKates\_et\_al-2024.tree

No. species = 16068

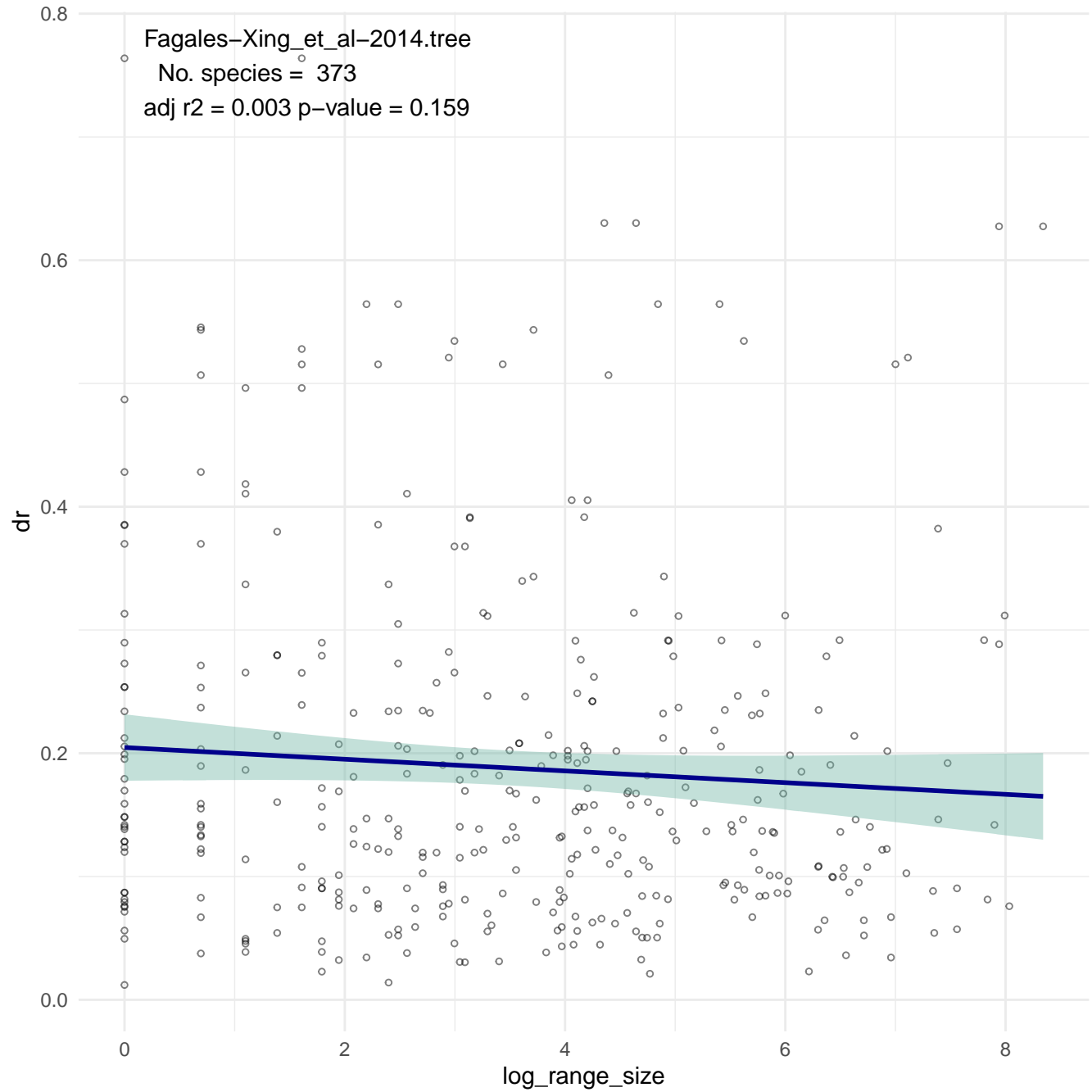
adj r2 = 0.002 p-value = 0



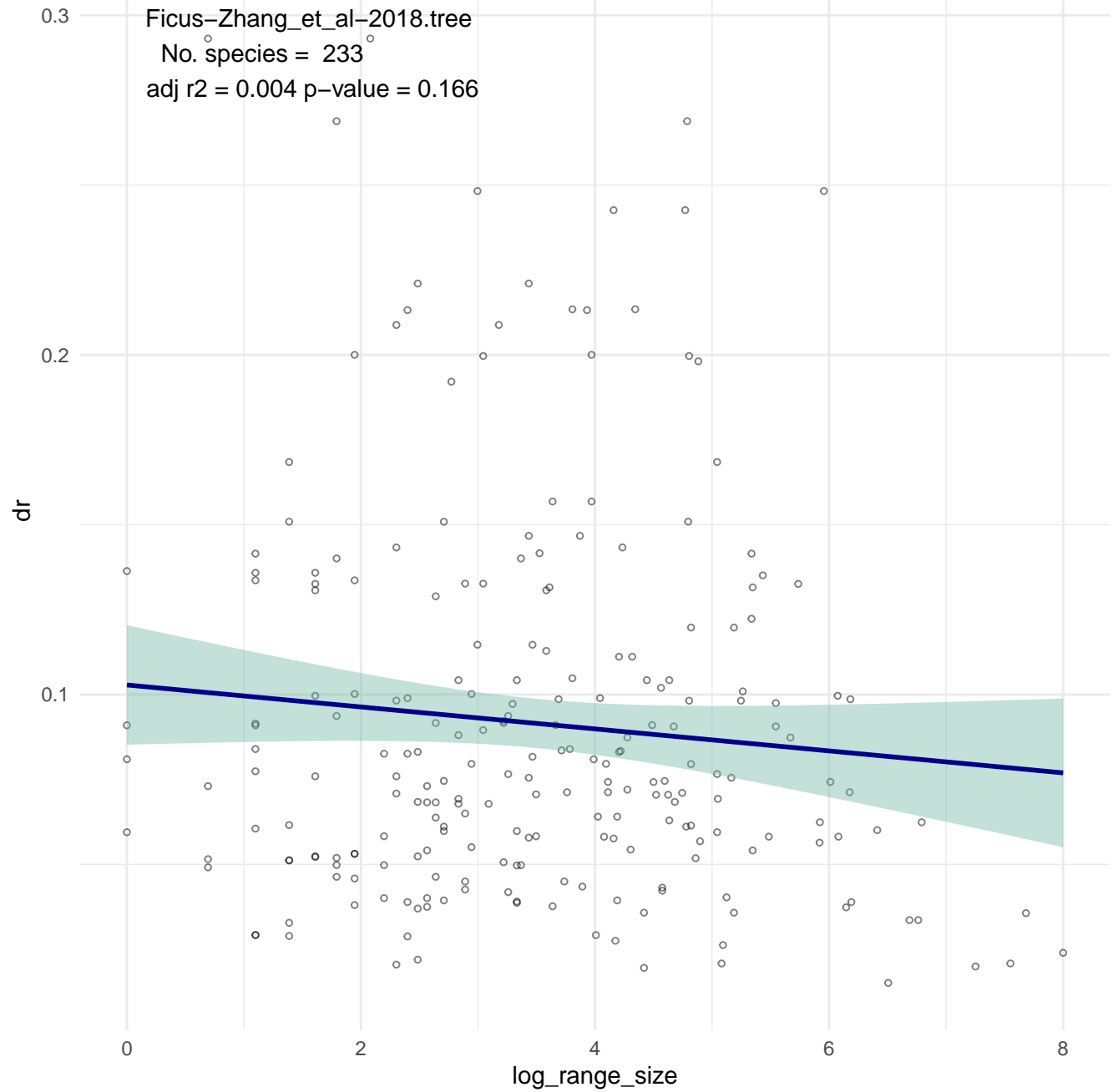
Fagales-Xing\_et\_al-2014.tree

No. species = 373

adj r2 = 0.003 p-value = 0.159



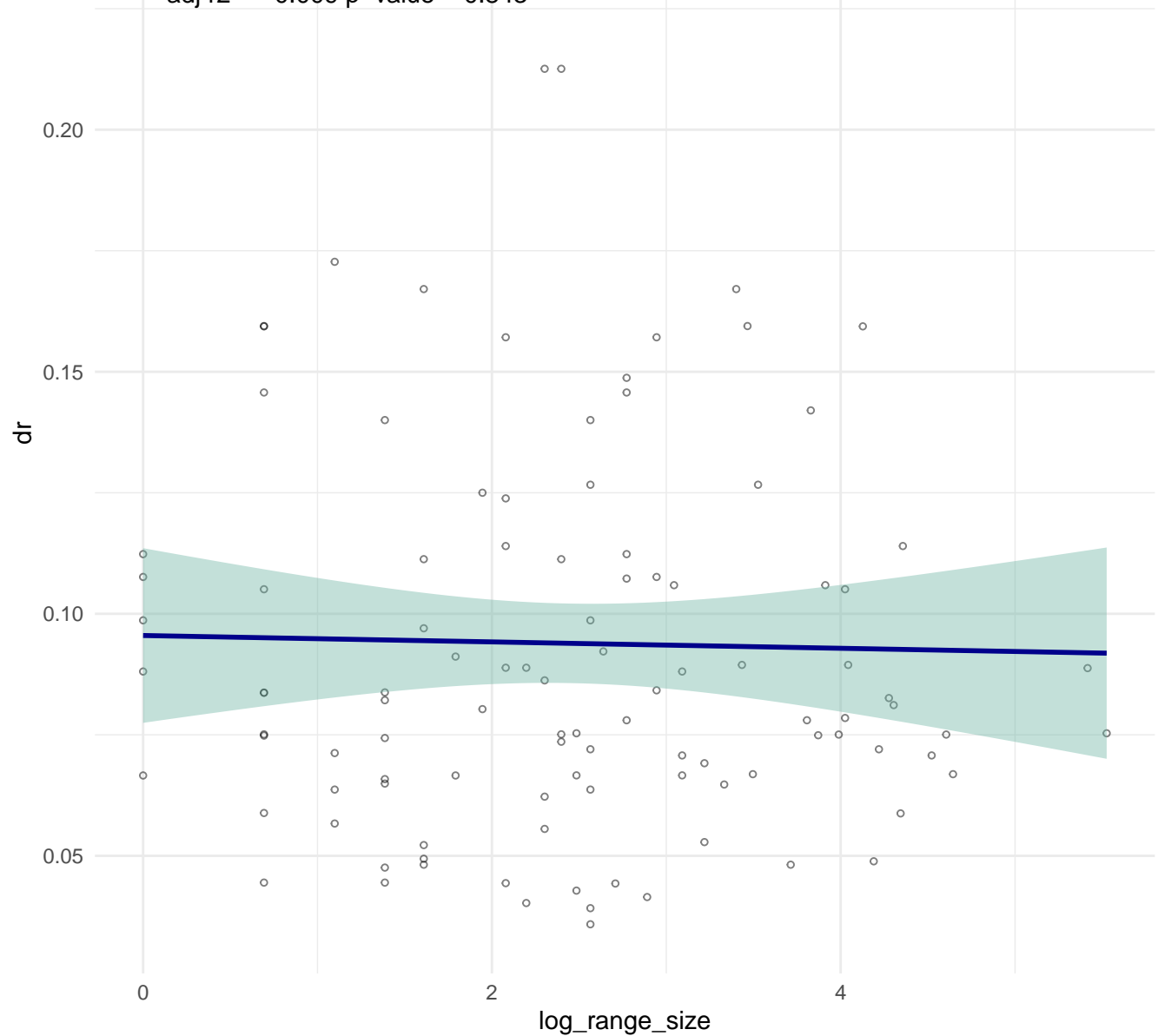
Ficus-Zhang\_et\_al-2018.tree  
No. species = 233  
adj r2 = 0.004 p-value = 0.166



Hakea-Cardillo\_et\_al-2017.tree

No. species = 108

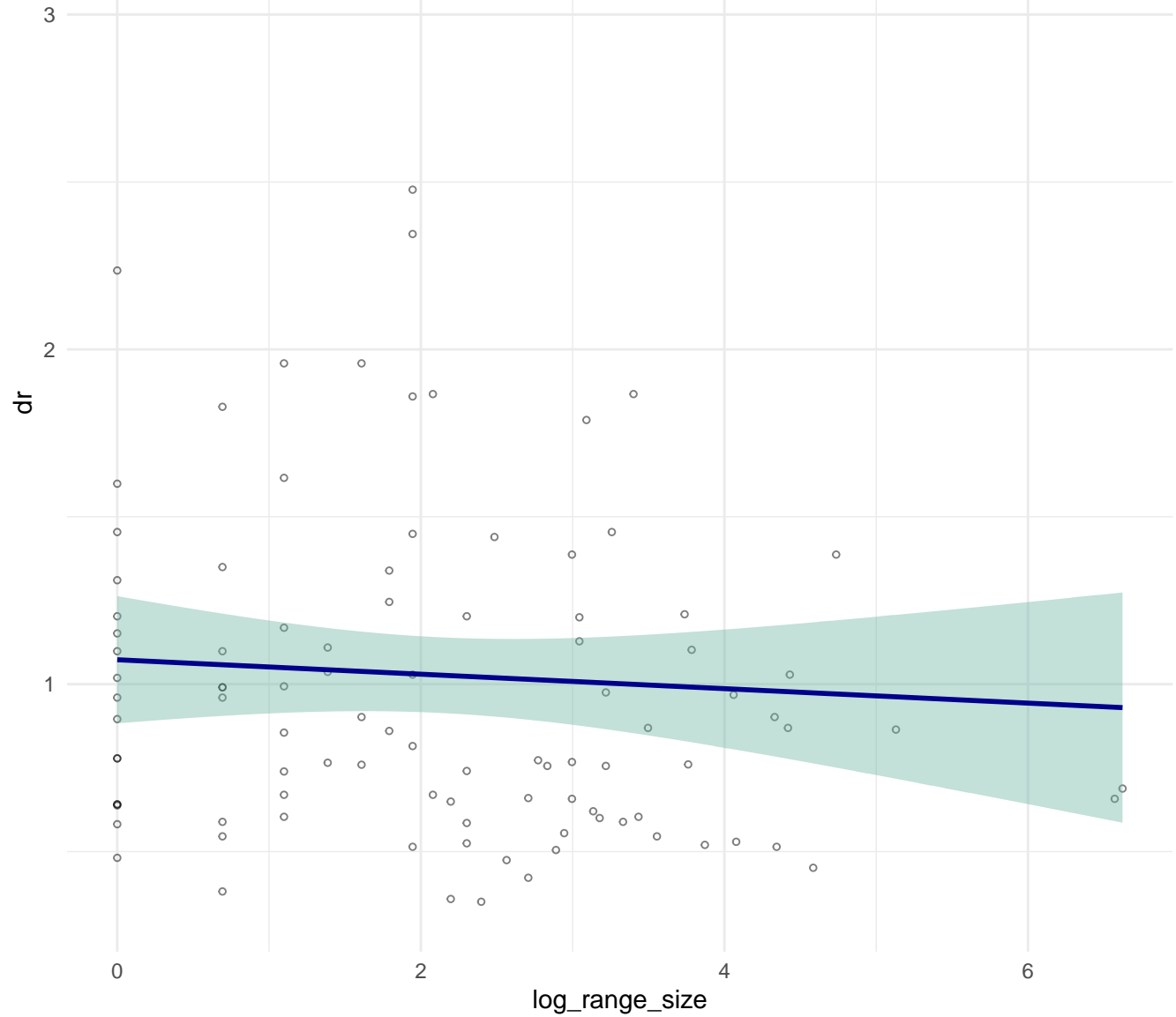
adj r2 = -0.009 p-value = 0.843



Heliconia-Iles\_et\_al-2017.tree

No. species = 100

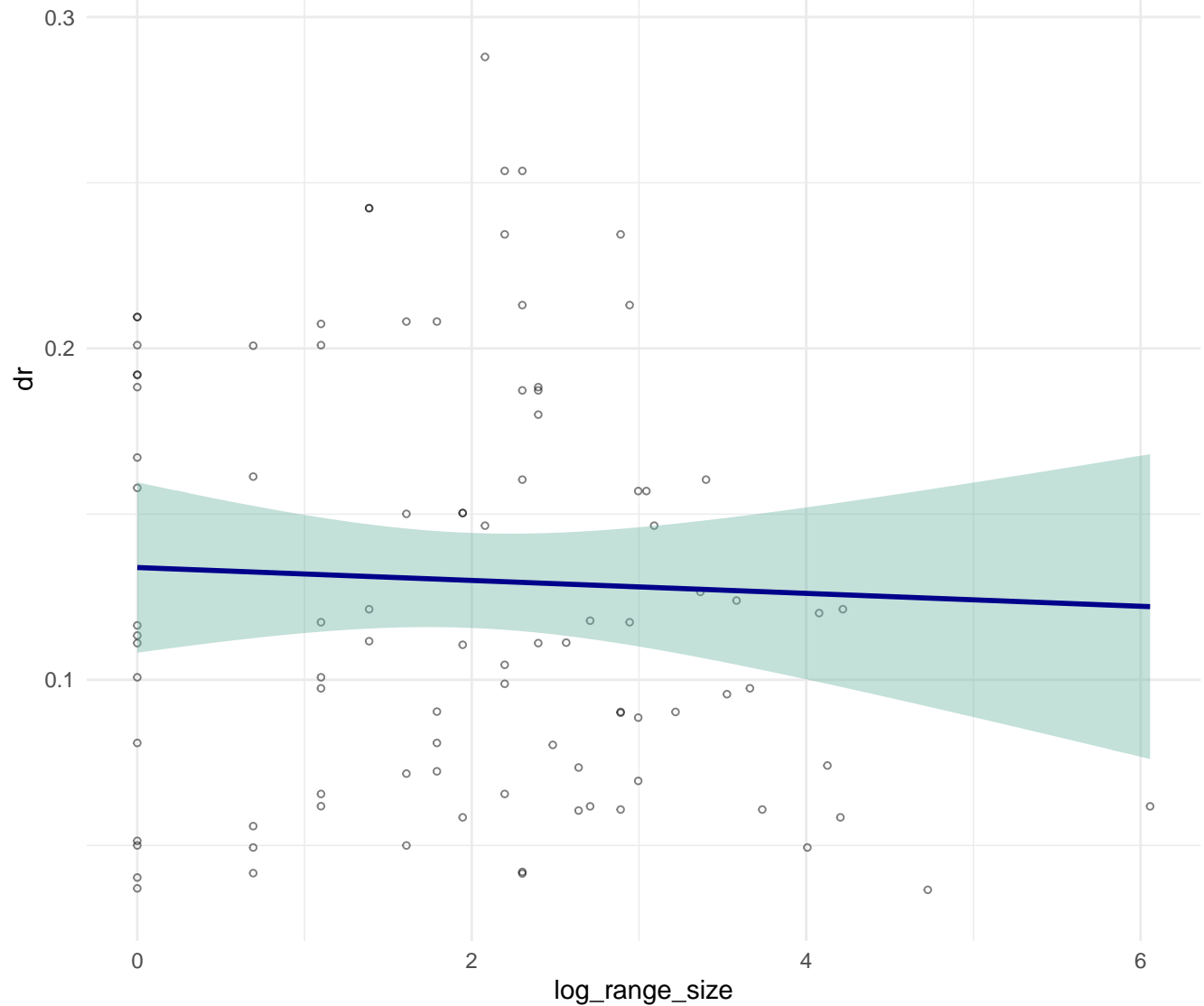
adj r2 = -0.007 p-value = 0.554



Lecythidaceae-Vargas\_&\_Dick-2020.tree

No. species = 95

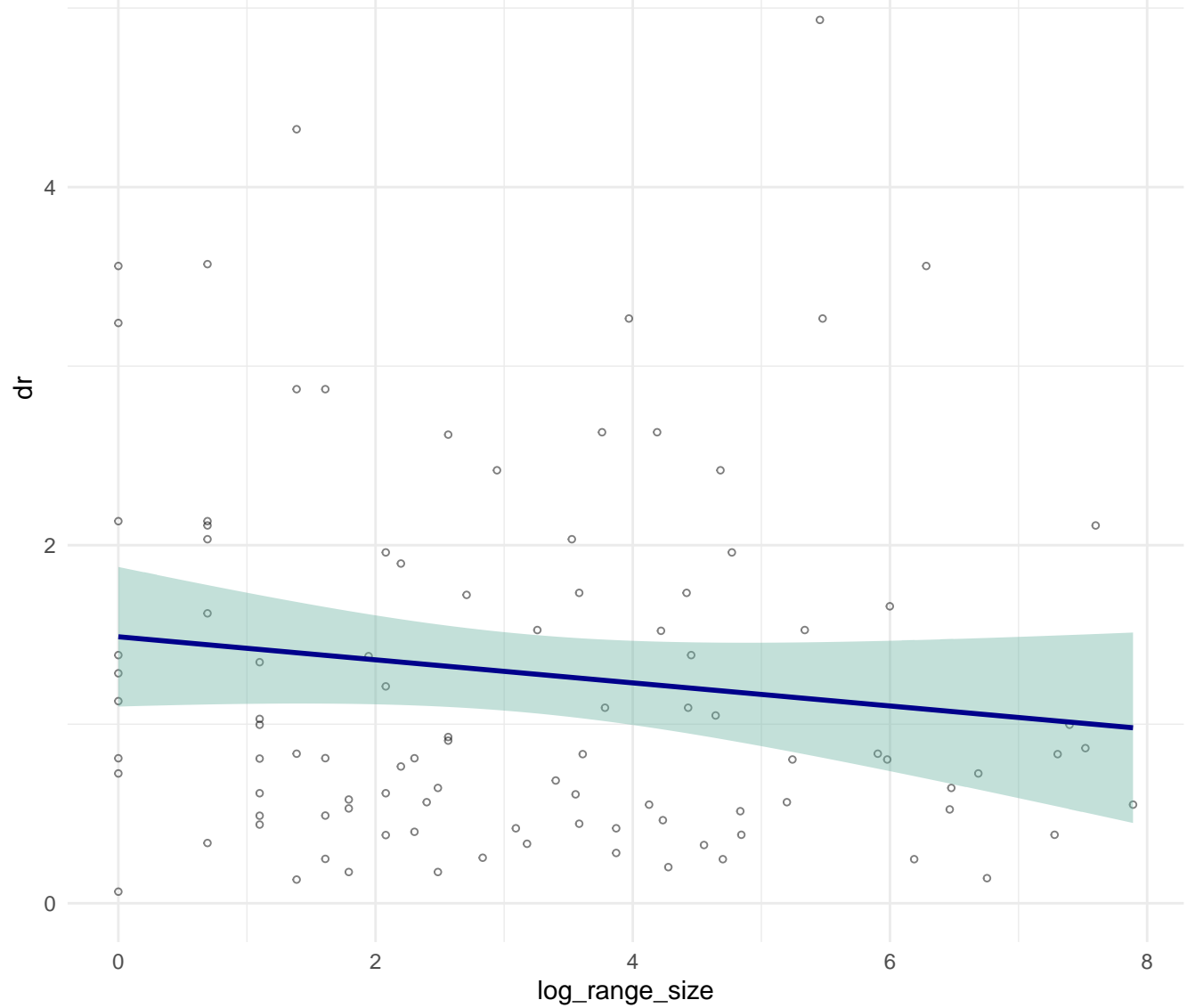
adj r2 = -0.009 p-value = 0.719



Lepidieae-Huang\_et\_al-2019.tree

No. species = 101

adj r2 = 0.006 p-value = 0.215

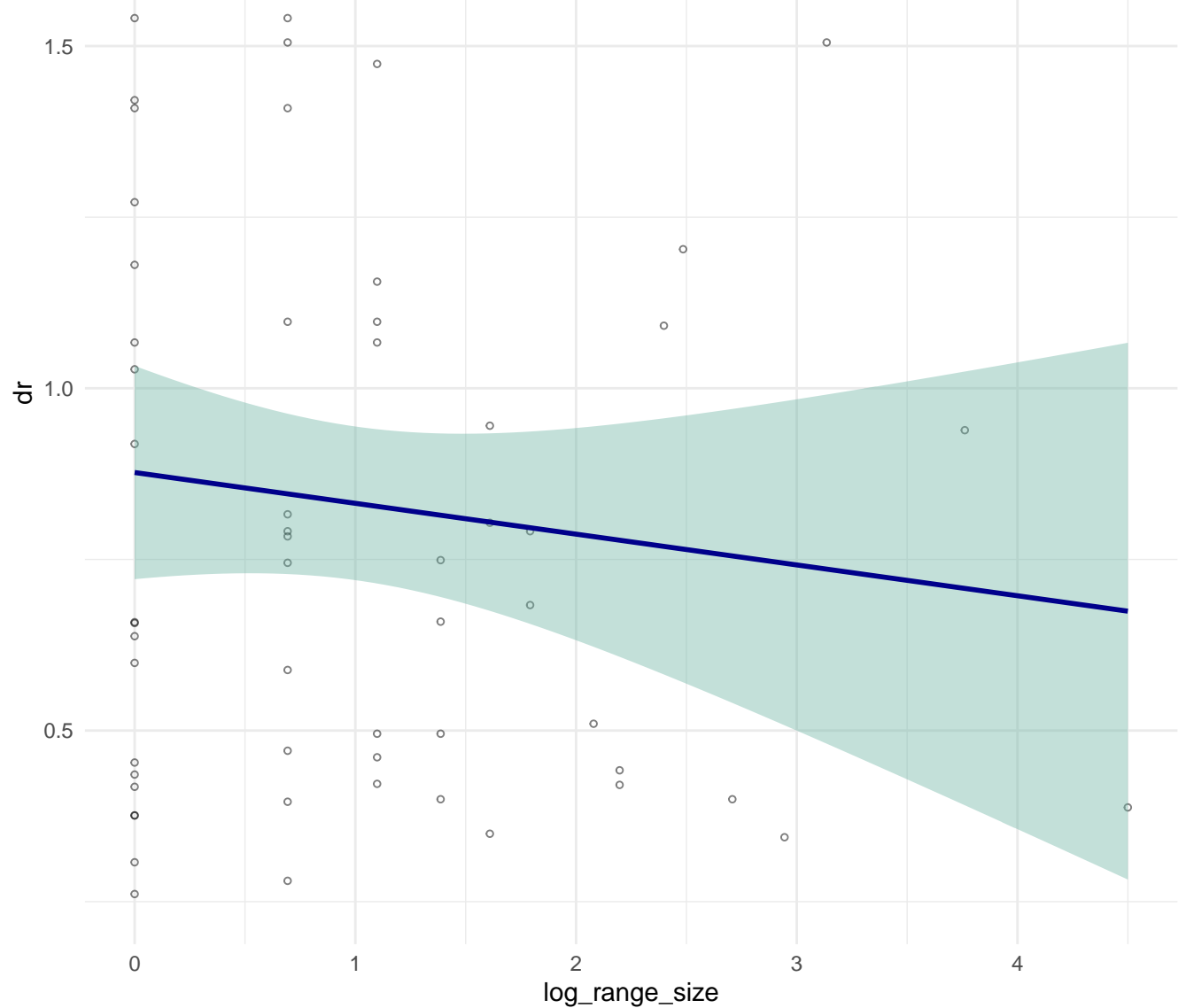




Lobelioideae-Lagomarsino\_et\_al-2017.tree

No. species = 60

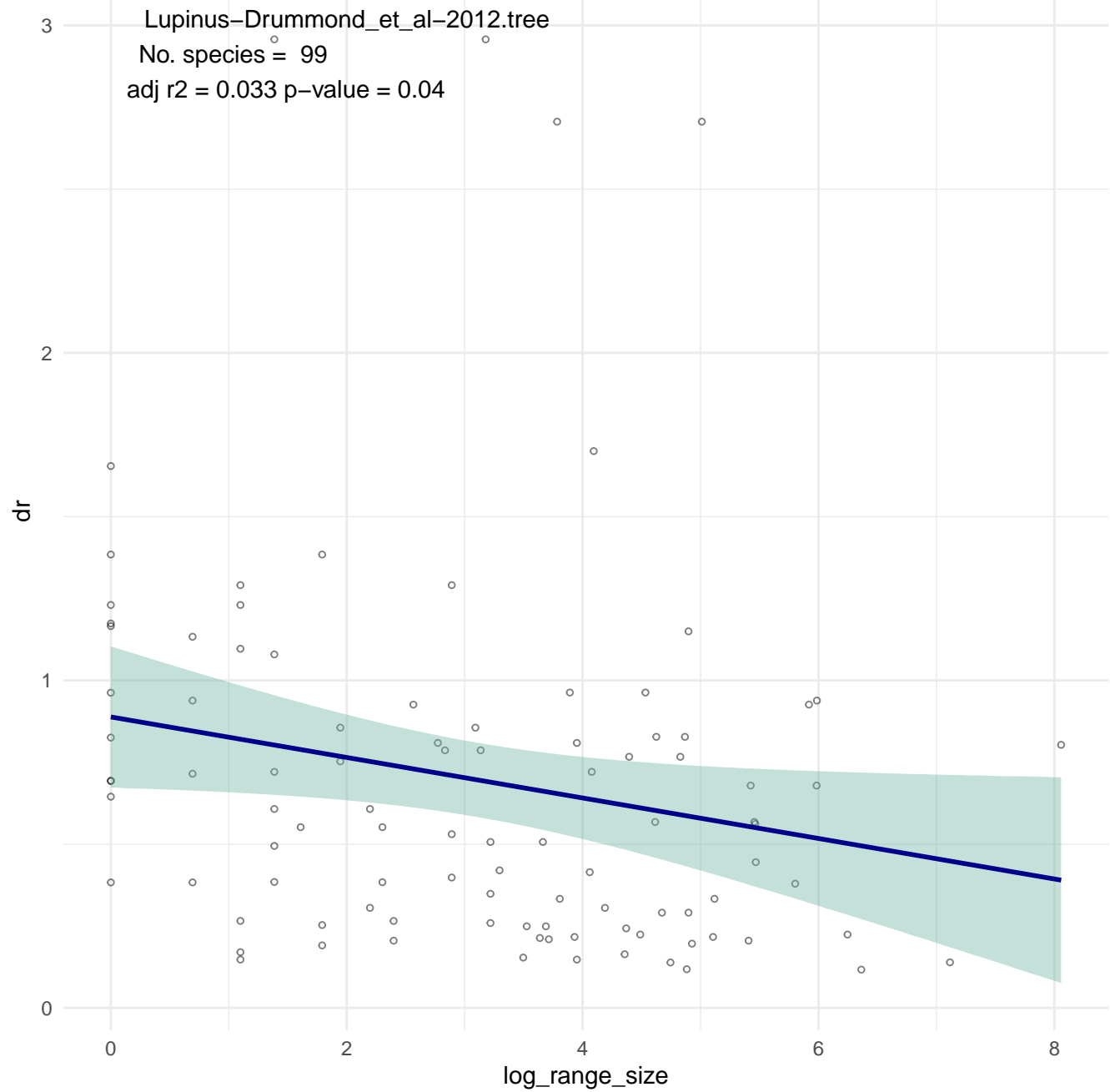
adj r2 = -0.005 p-value = 0.405



Lupinus-Drummond\_et\_al-2012.tree

No. species = 99

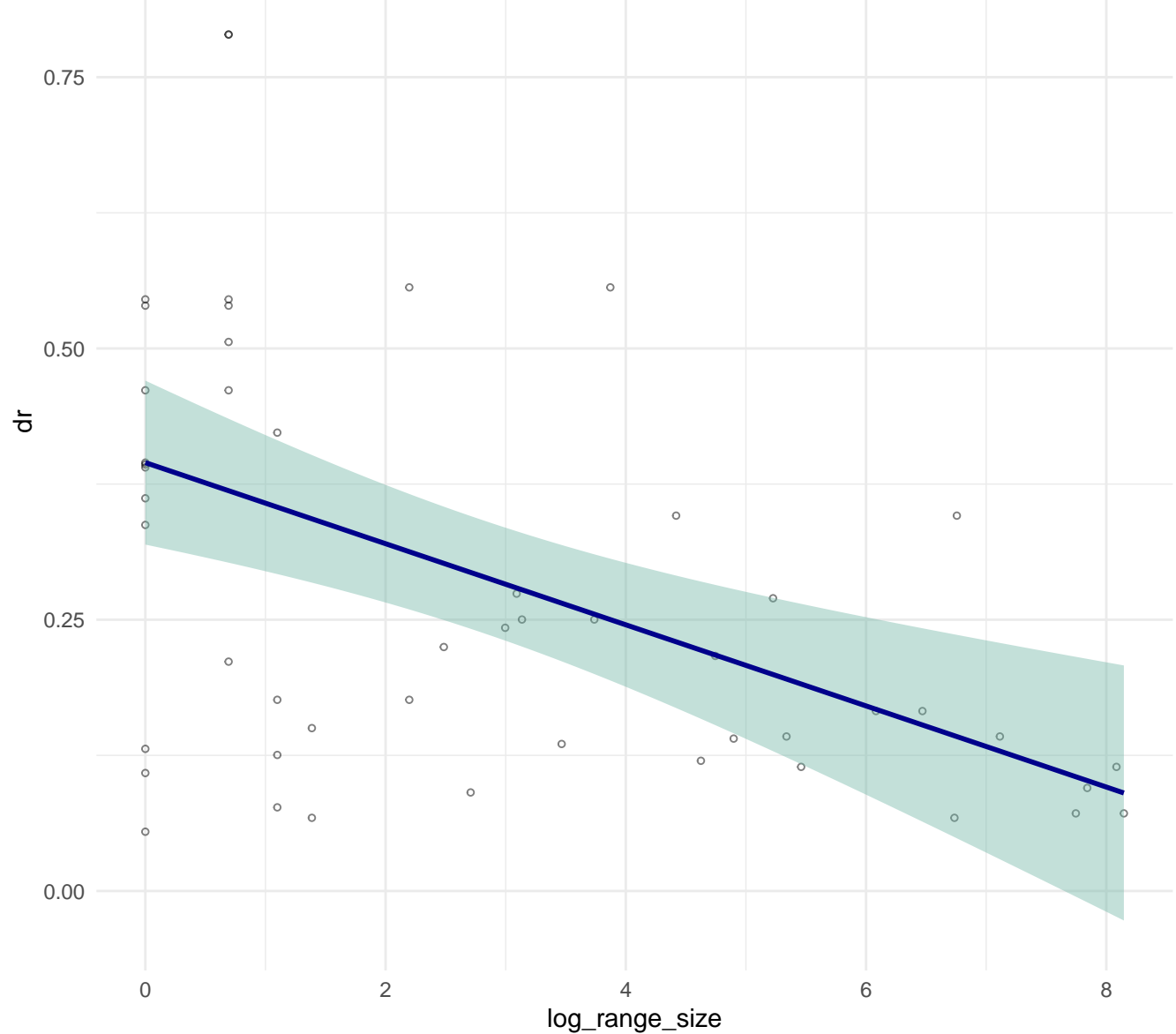
adj r2 = 0.033 p-value = 0.04



Lysimachieae-Yan\_et\_al-2018.tree

No. species = 51

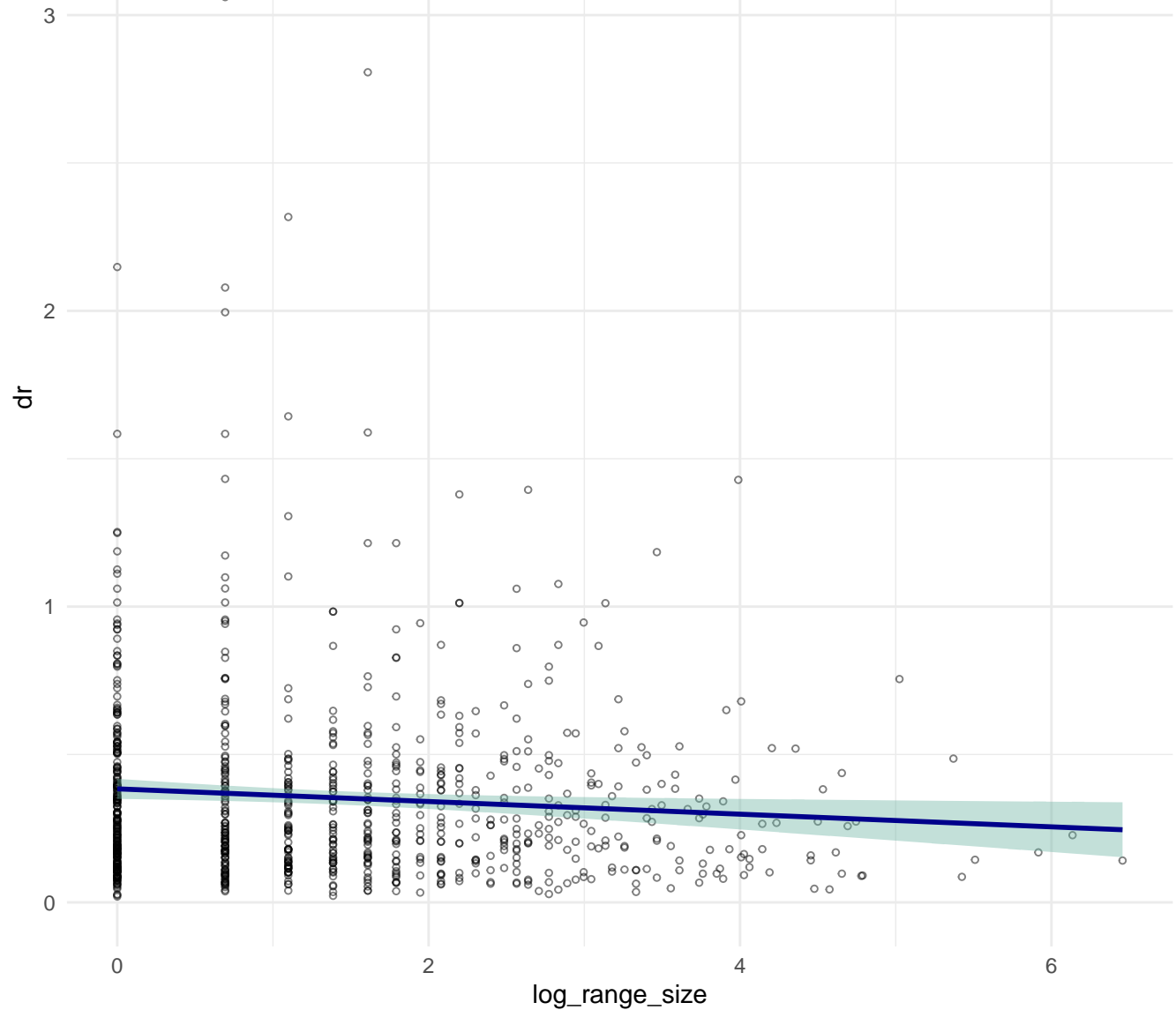
adj r2 = 0.213 p-value = 0



Melastomataceae-Reginato\_et\_al-2022.tree

No. species = 835

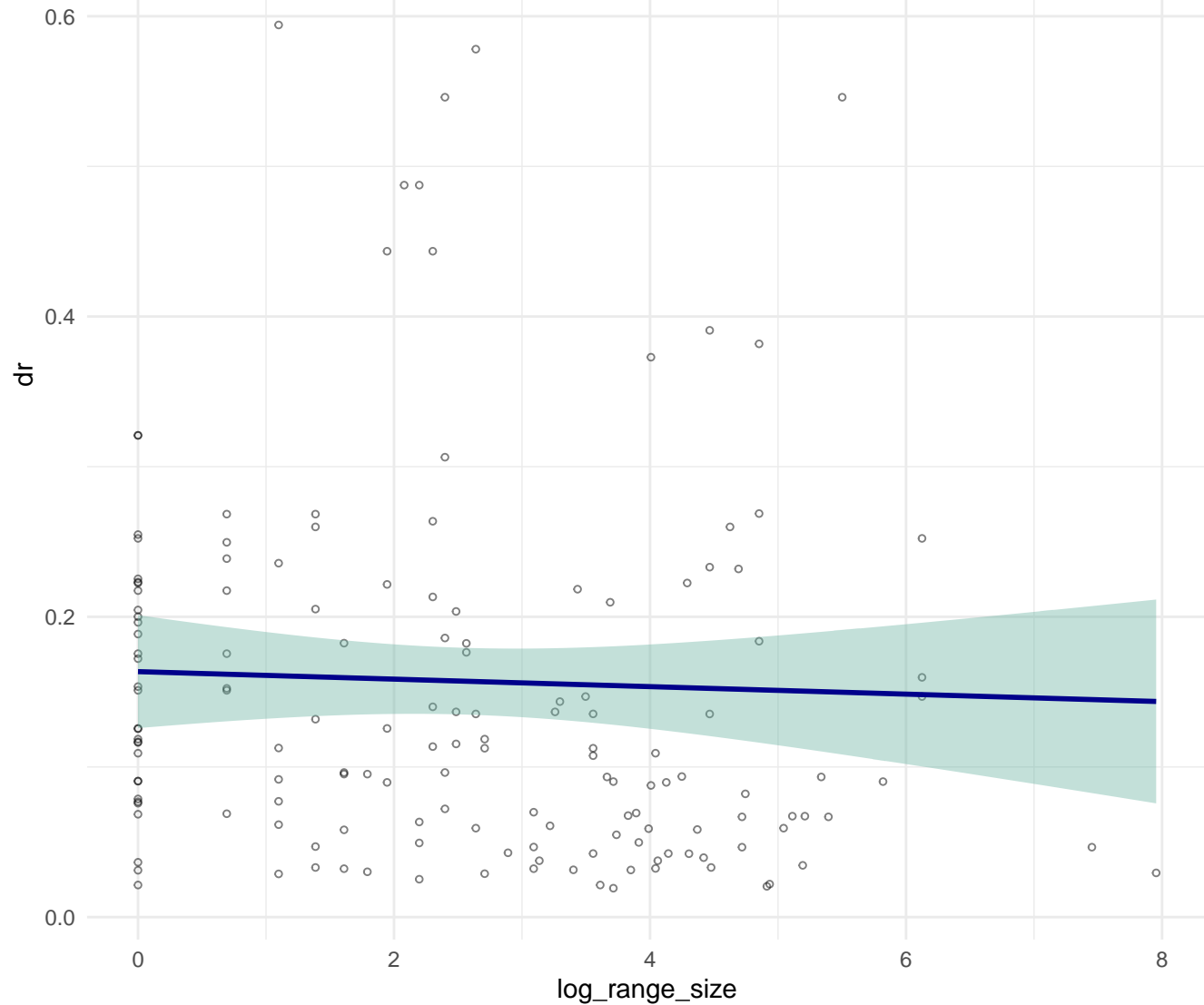
adj r2 = 0.005 p-value = 0.019



Meliaceae-Koenen\_et\_al-2015.tree

No. species = 157

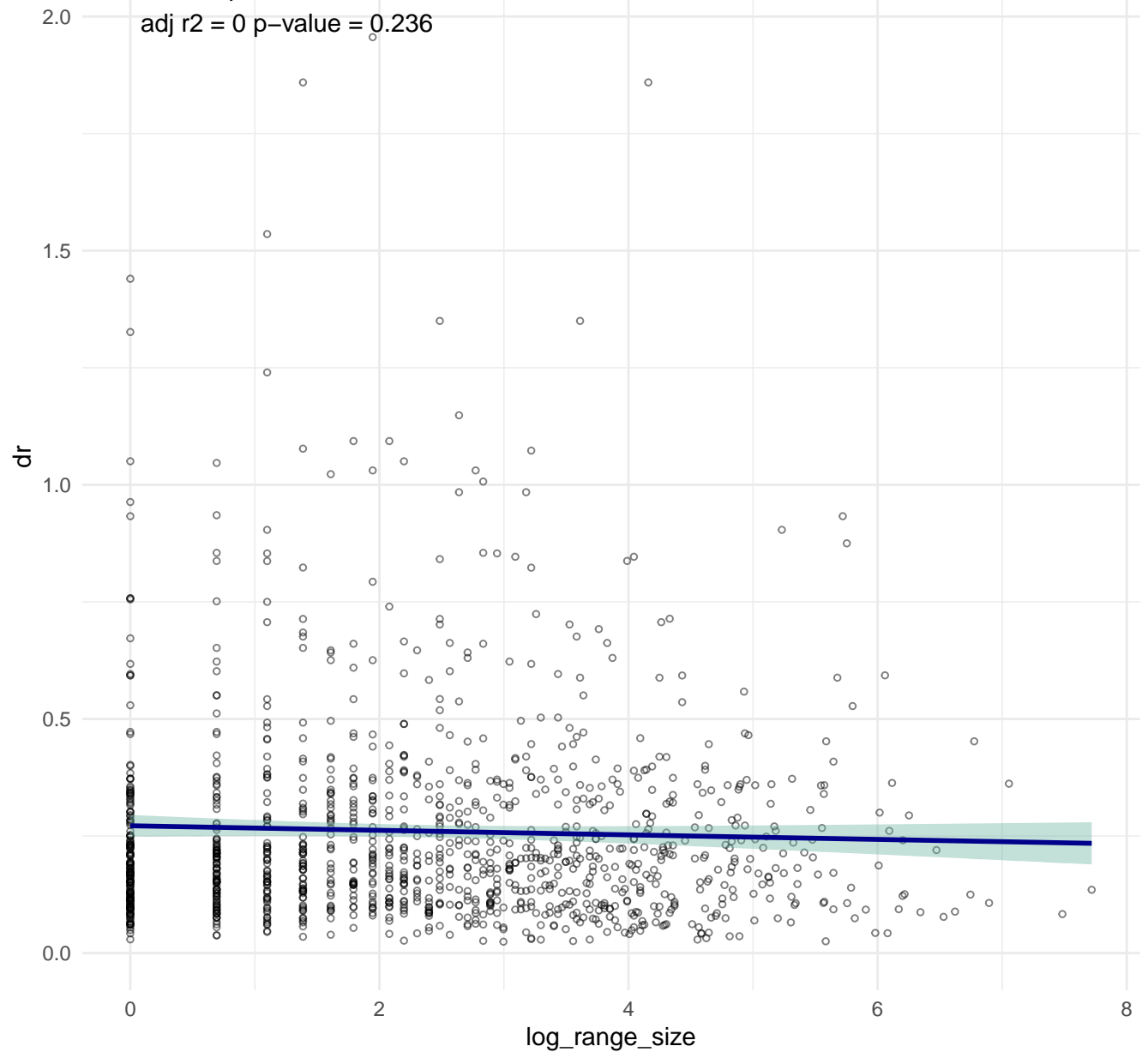
adj r2 = -0.005 p-value = 0.678



Mimosoids-Ringelberg\_et\_al-2023.tree

No. species = 1193

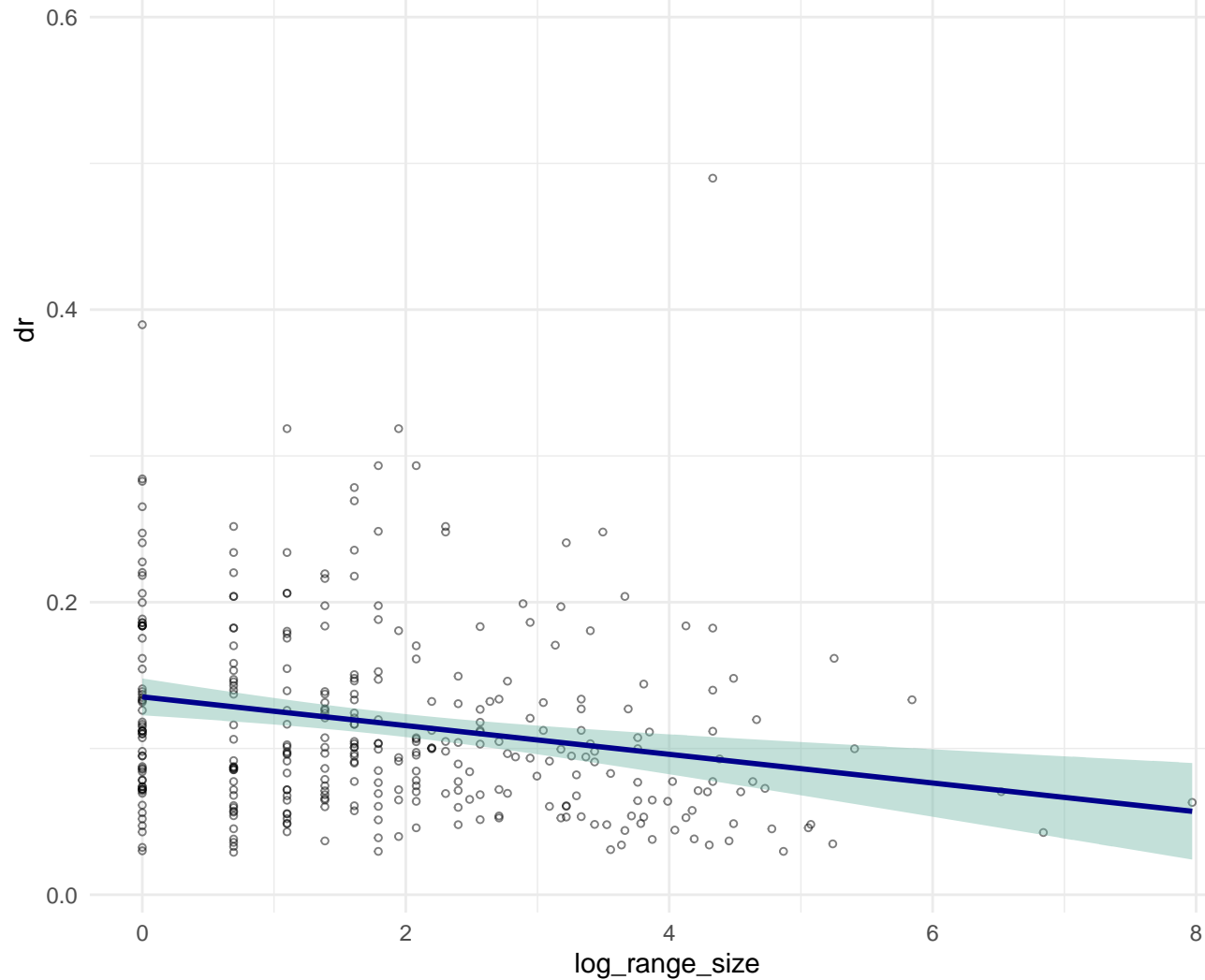
adj r2 = 0 p-value = 0.236



Myrteae-NMWG-in\_prep.tree

No. species = 333

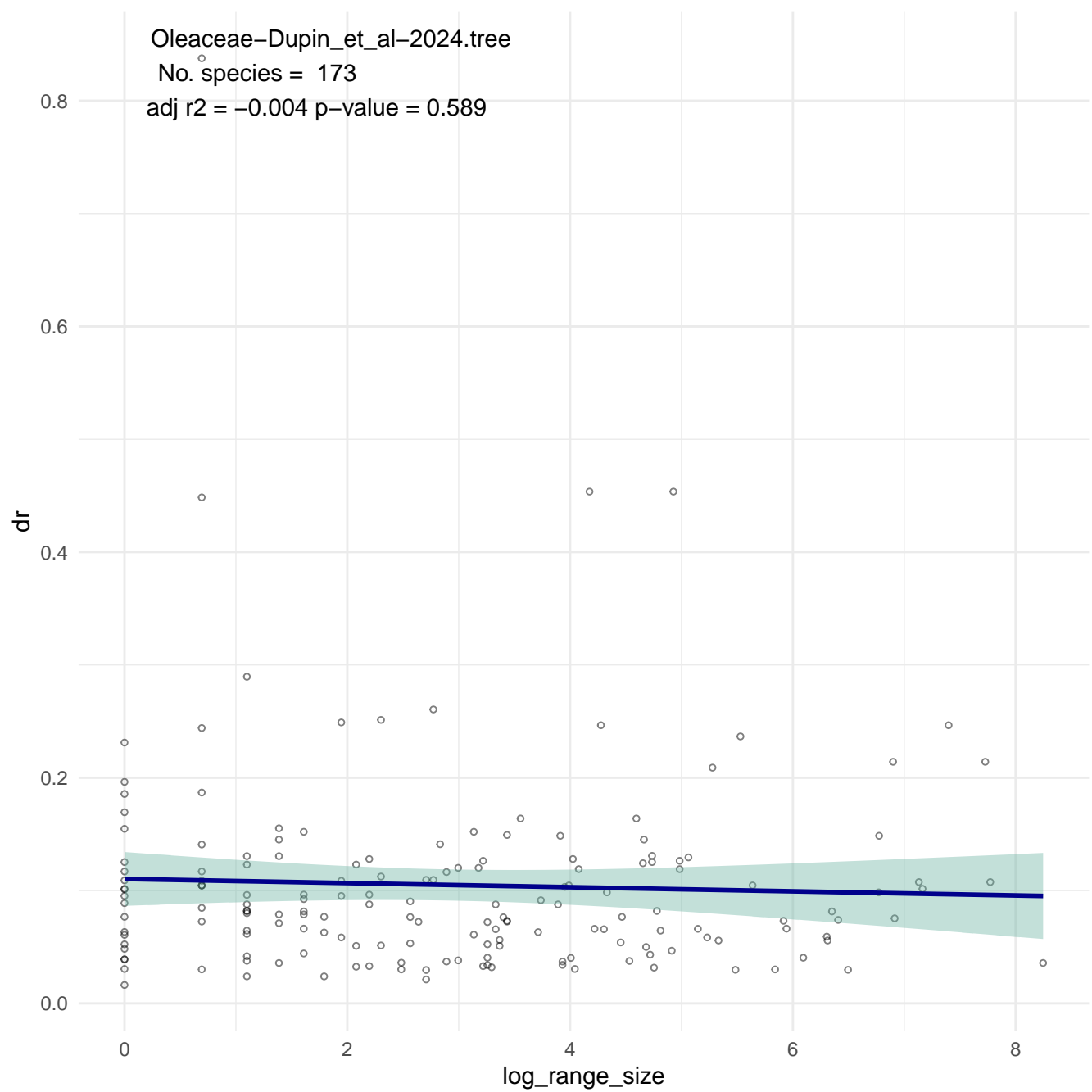
adj r<sup>2</sup> = 0.036 p-value = 0



Oleaceae-Dupin\_et\_al-2024.tree

No. species = 173

adj r2 = -0.004 p-value = 0.589



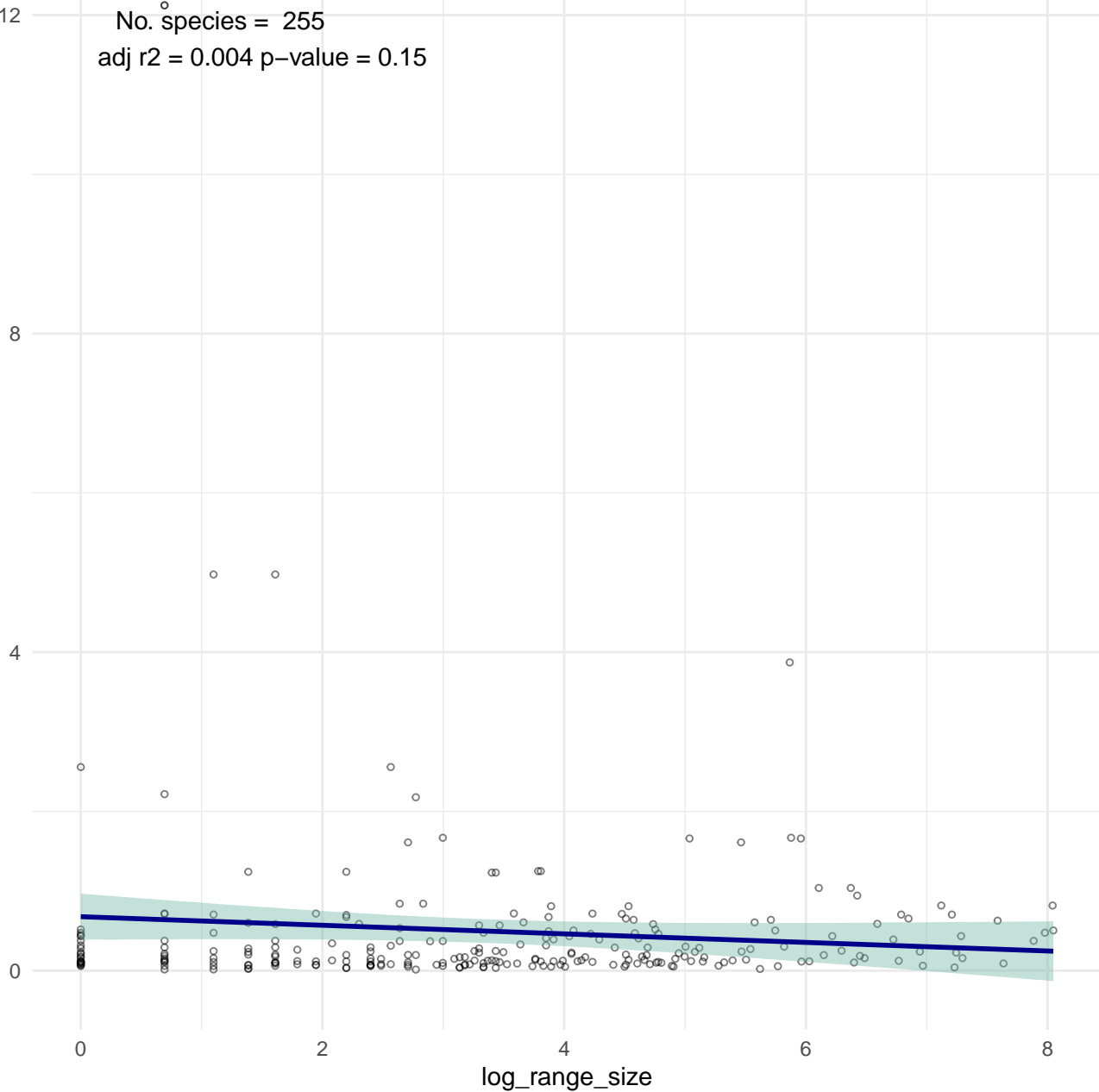


Onagraceae-Freyman\_&\_Hohna-2018.tree

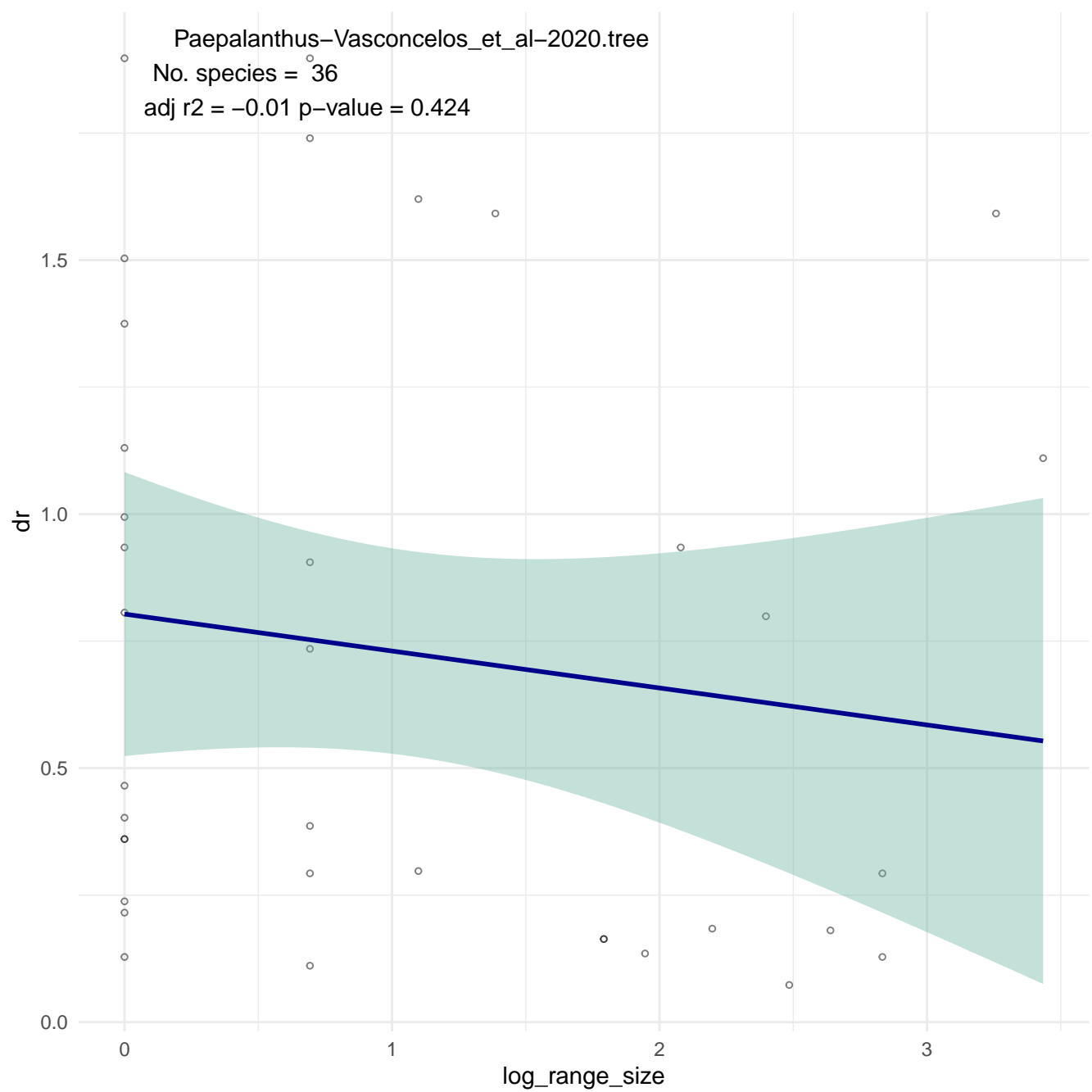
No. species = 255

adj r<sup>2</sup> = 0.004 p-value = 0.15

dr



Paepalanthus-Vasconcelos\_et\_al-2020.tree  
No. species = 36  
adj r2 = -0.01 p-value = 0.424



Poaceae-Spriggs\_et\_al-2014.tree

No. species = 2028

adj r2 = 0 p-value = 0.486

dr

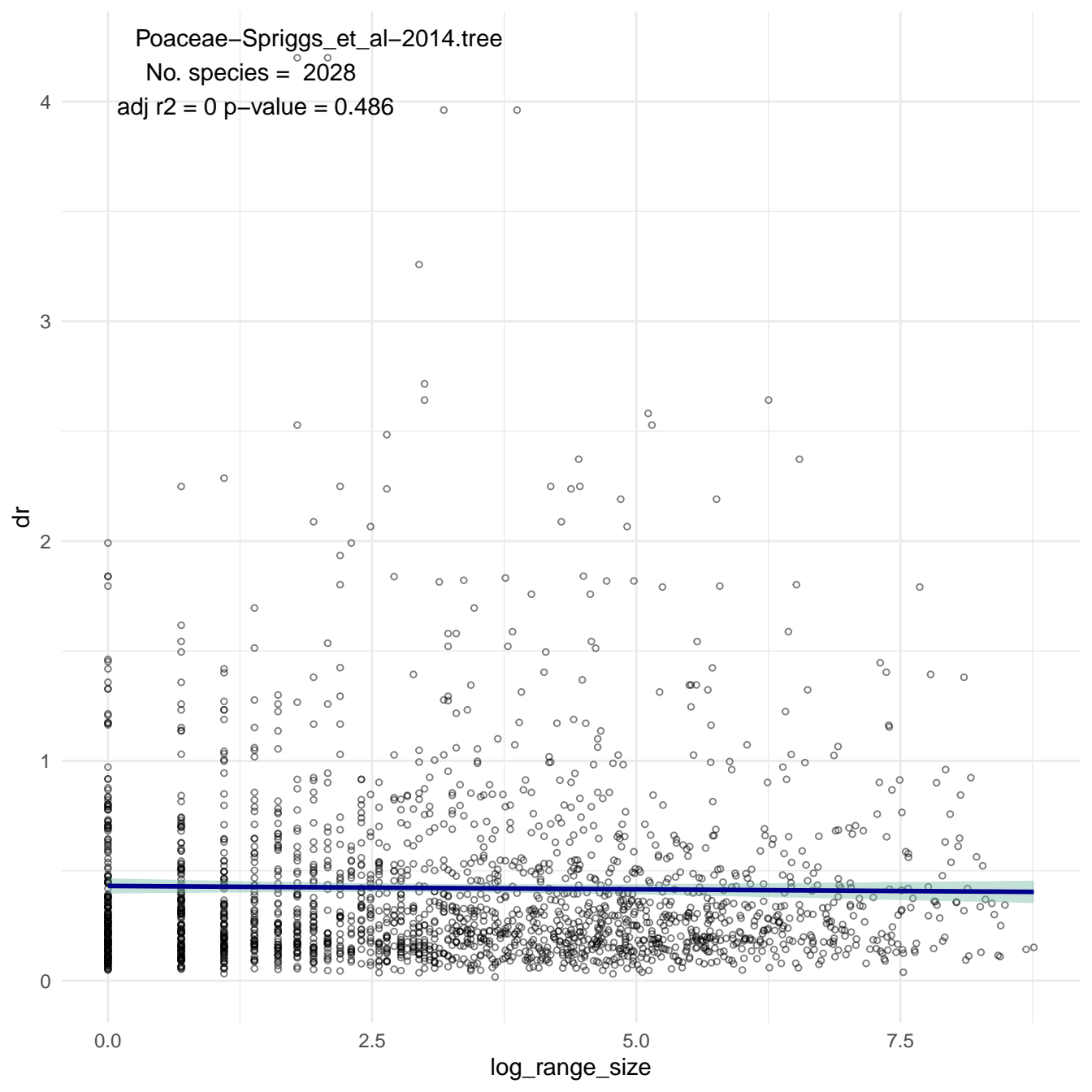
0.0

2.5

5.0

7.5

log\_range\_size



Polemoniaceae–Rose\_&\_Sytsma–2021.tree

No. species = 303

adj r2 = 0.006 p-value = 0.103

dr

0.6  
0.4  
0.2  
0.0

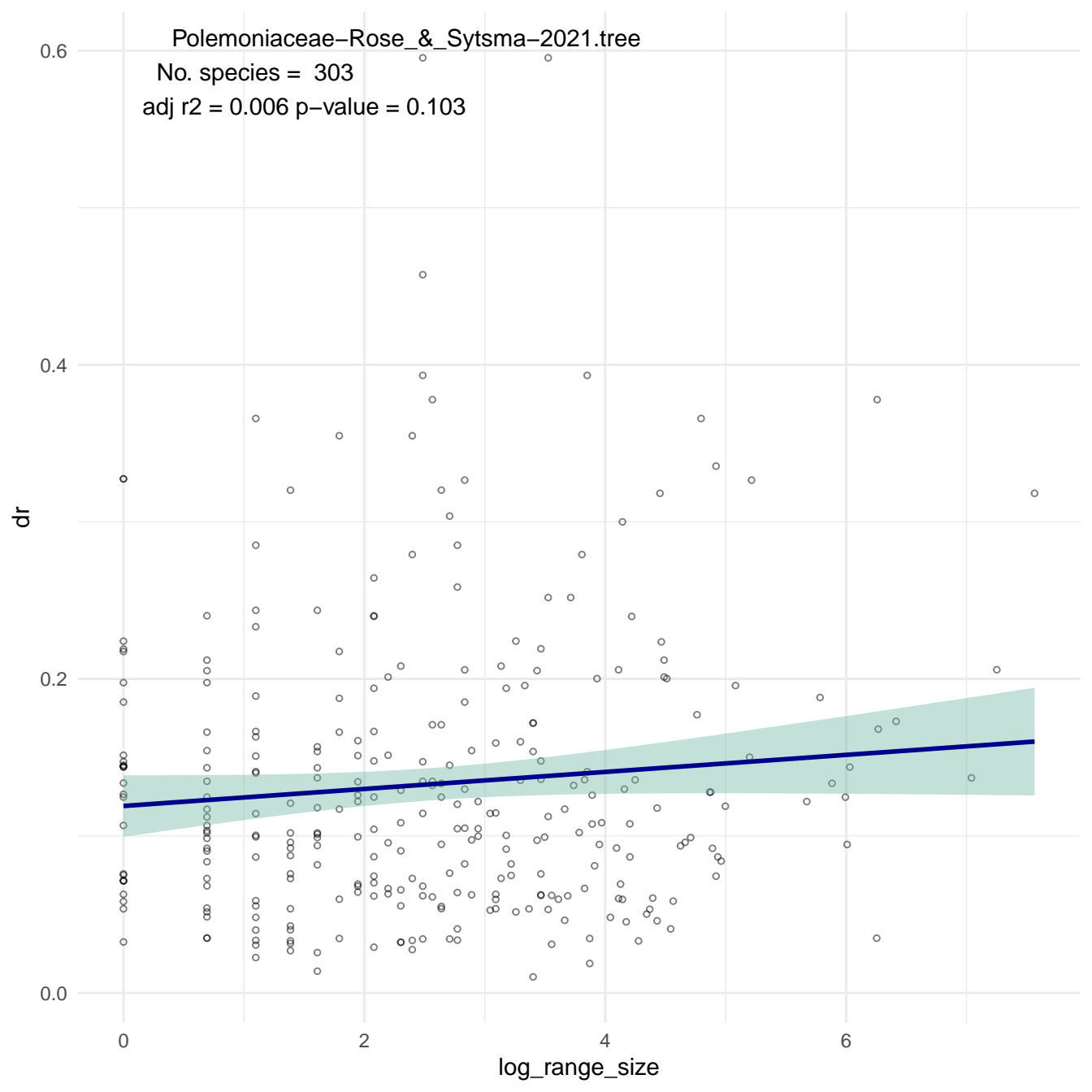
0

2

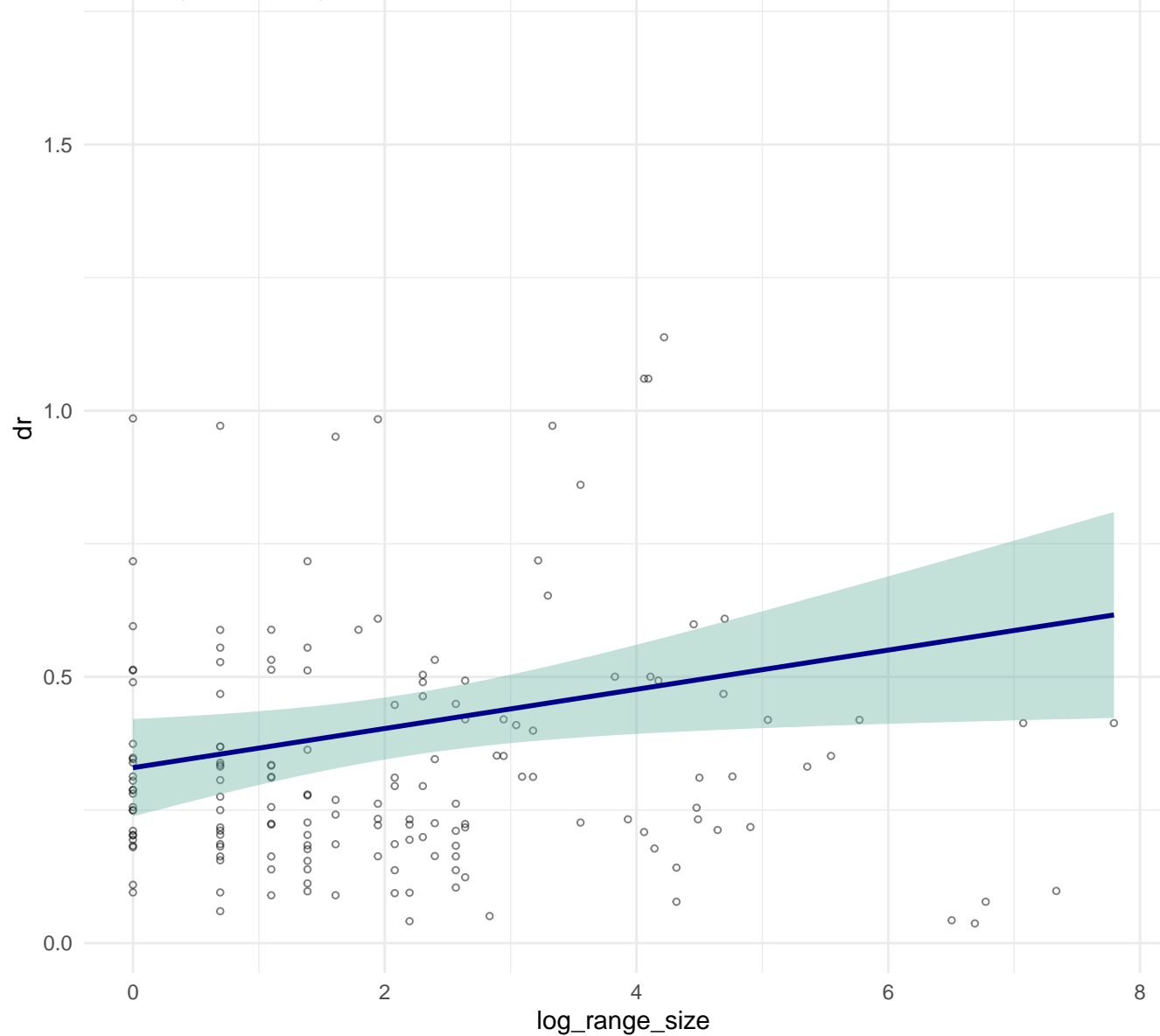
4

6

log\_range\_size



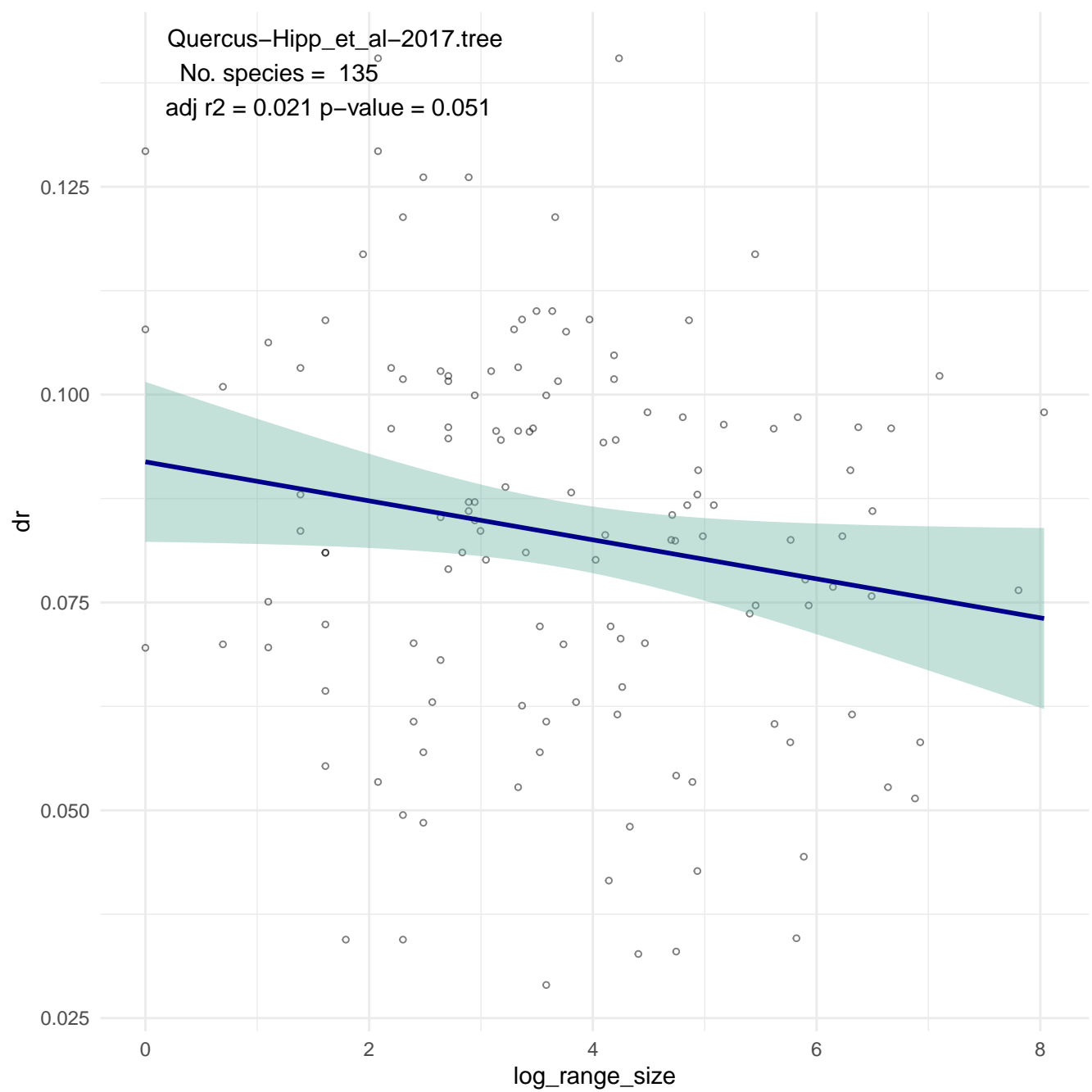
Primulaceae-deVos\_et\_al-2014.tree  
No. species = 170  
adj r2 = 0.023 p-value = 0.028



Quercus-Hipp\_et\_al-2017.tree

No. species = 135

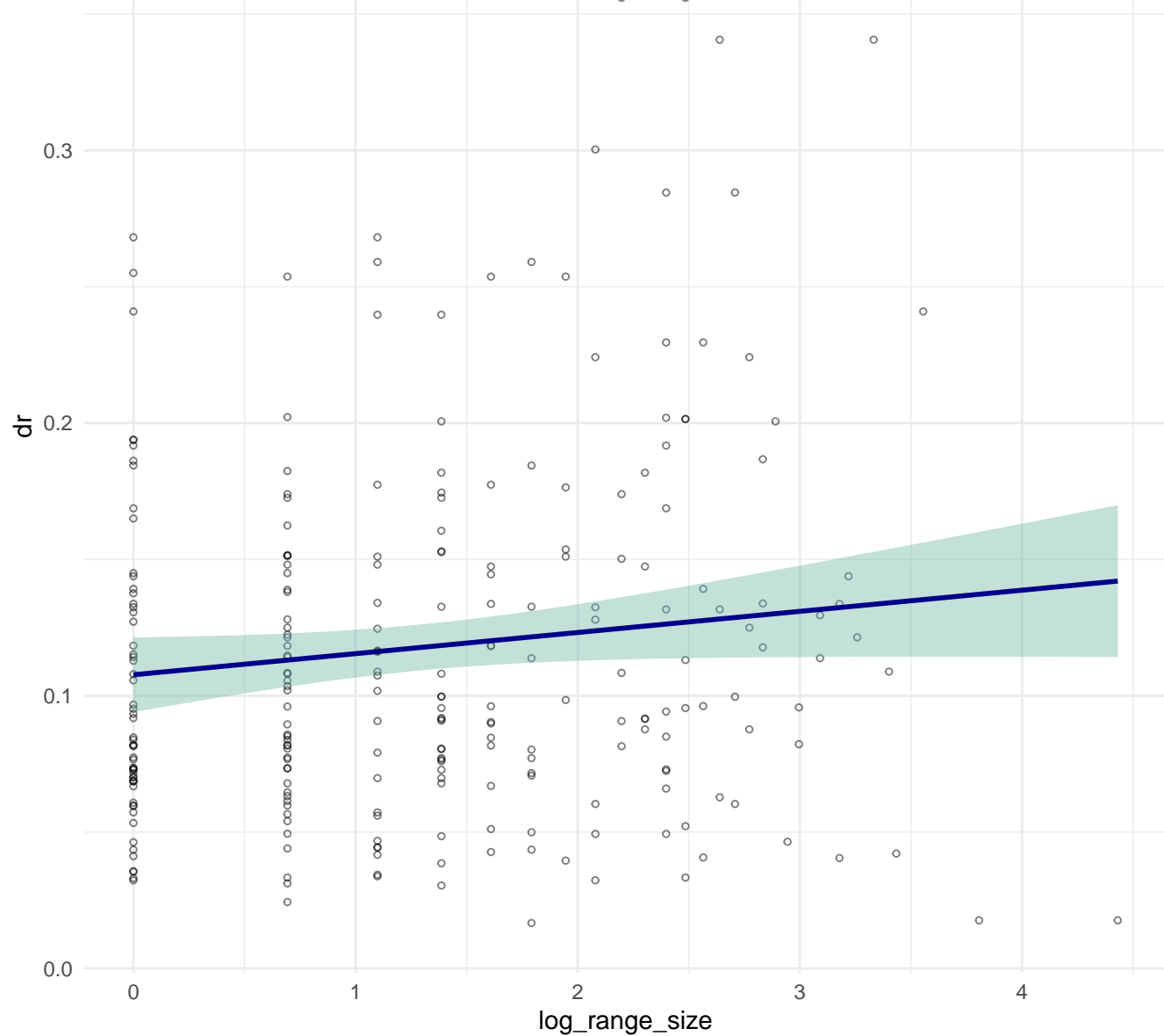
adj r2 = 0.021 p-value = 0.051



Restionaceae-Linder-2020.tree

No. species = 262

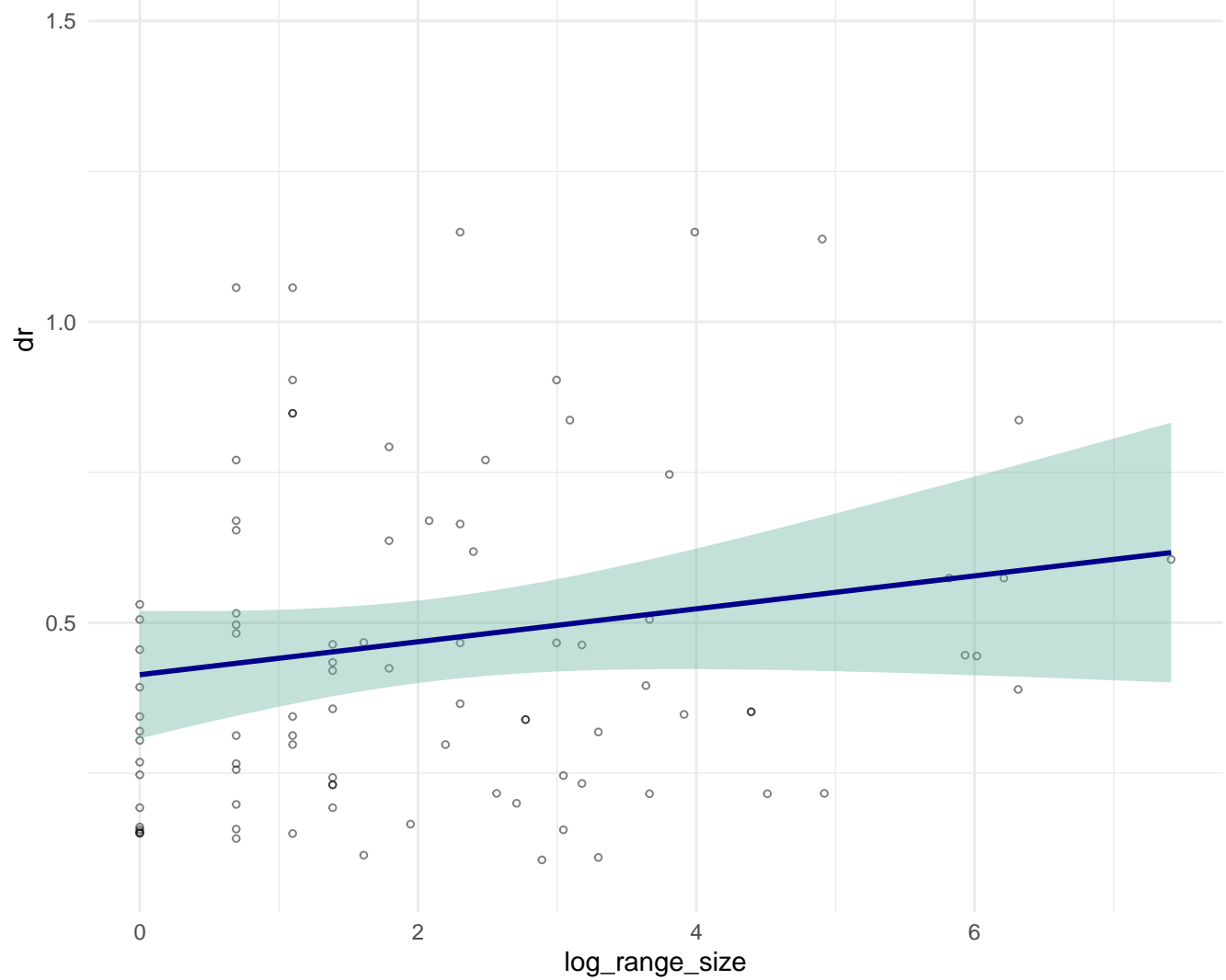
adj r2 = 0.009 p-value = 0.071



Ruellia-Tripp\_&\_Tsai-2012.tree

No. species = 92

adj r2 = 0.011 p-value = 0.162

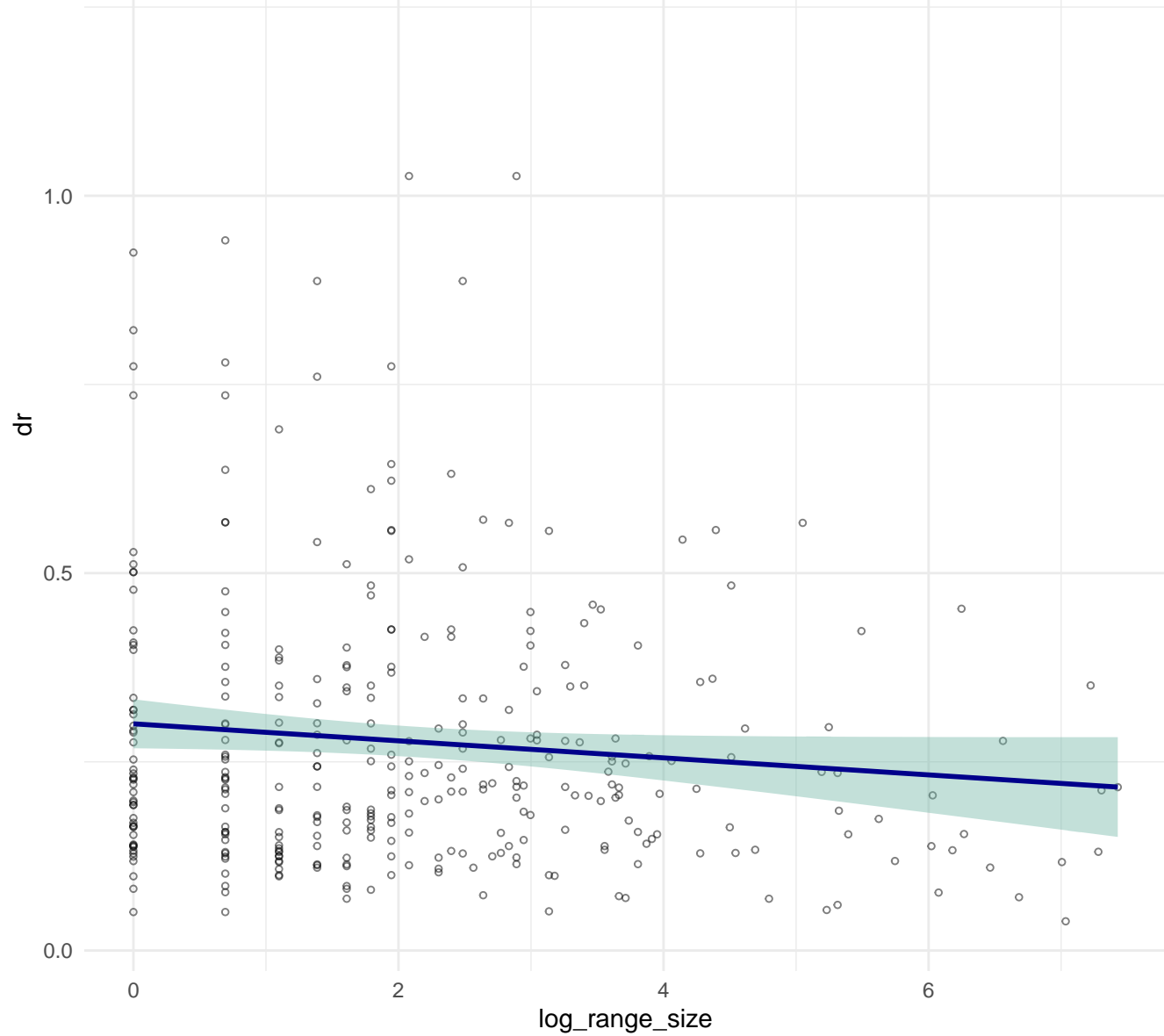




Salvia-Kriebel\_et\_al-2020.tree

No. species = 332

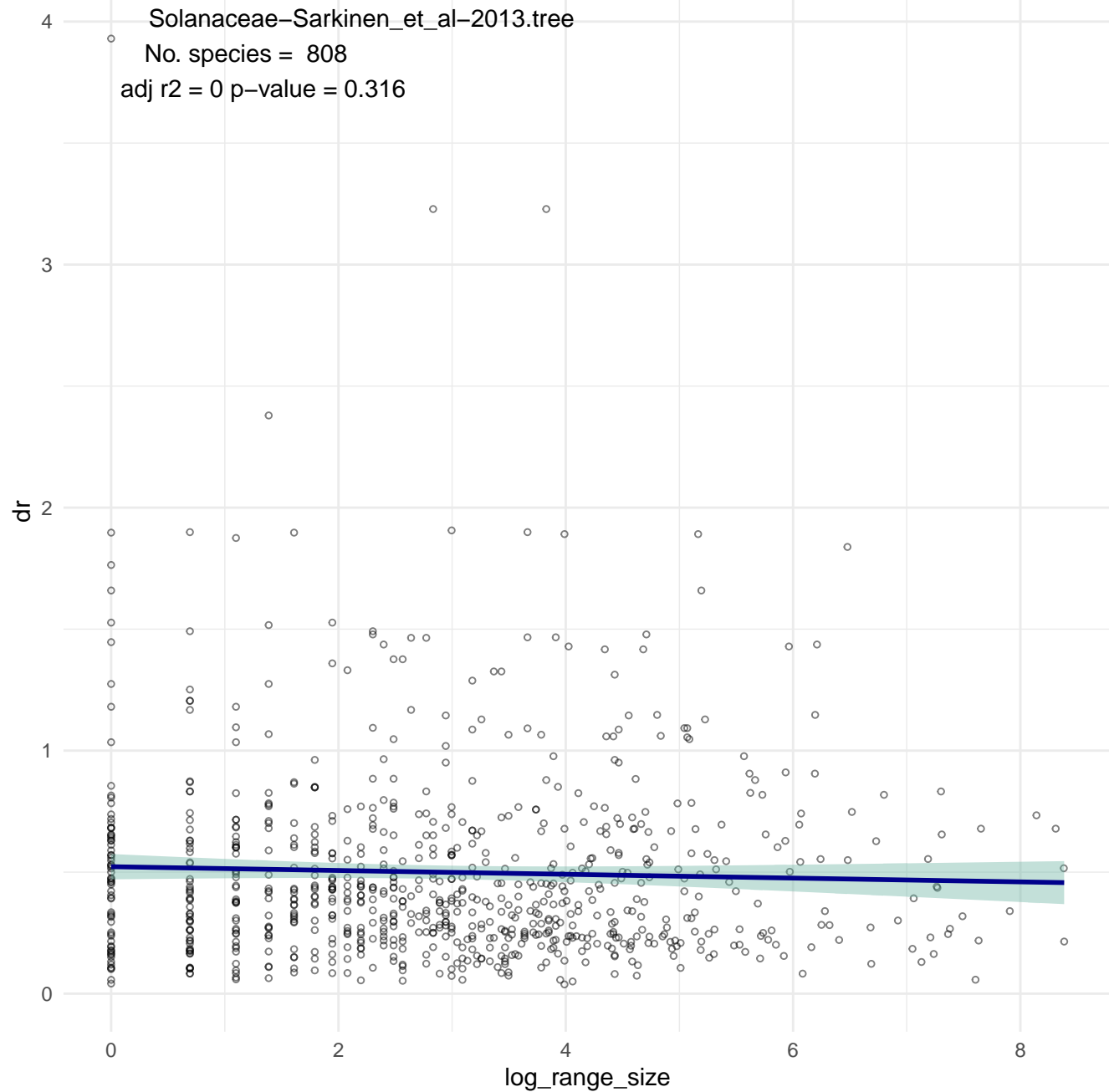
adj r2 = 0.007 p-value = 0.063



Solanaceae–Sarkinen\_et\_al–2013.tree

No. species = 808

adj r2 = 0 p-value = 0.316

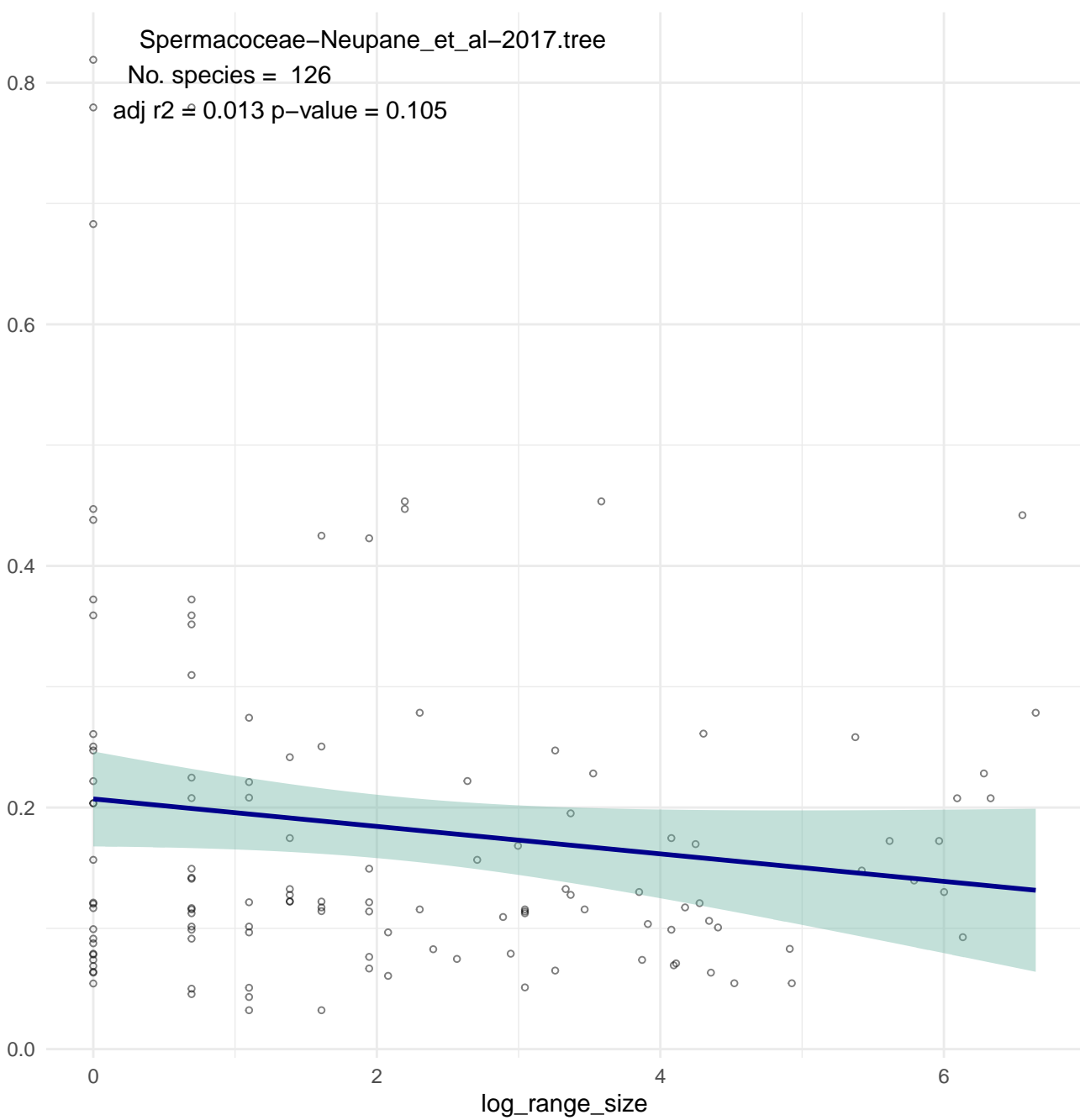


Spermacocee-Neupane\_et\_al-2017.tree

No. species = 126

adj r2 = 0.013 p-value = 0.105

dr



Thelypodieae-Huang\_et\_al-2019.tree

No. species = 83

adj r2 = 0.08 p-value = 0.005

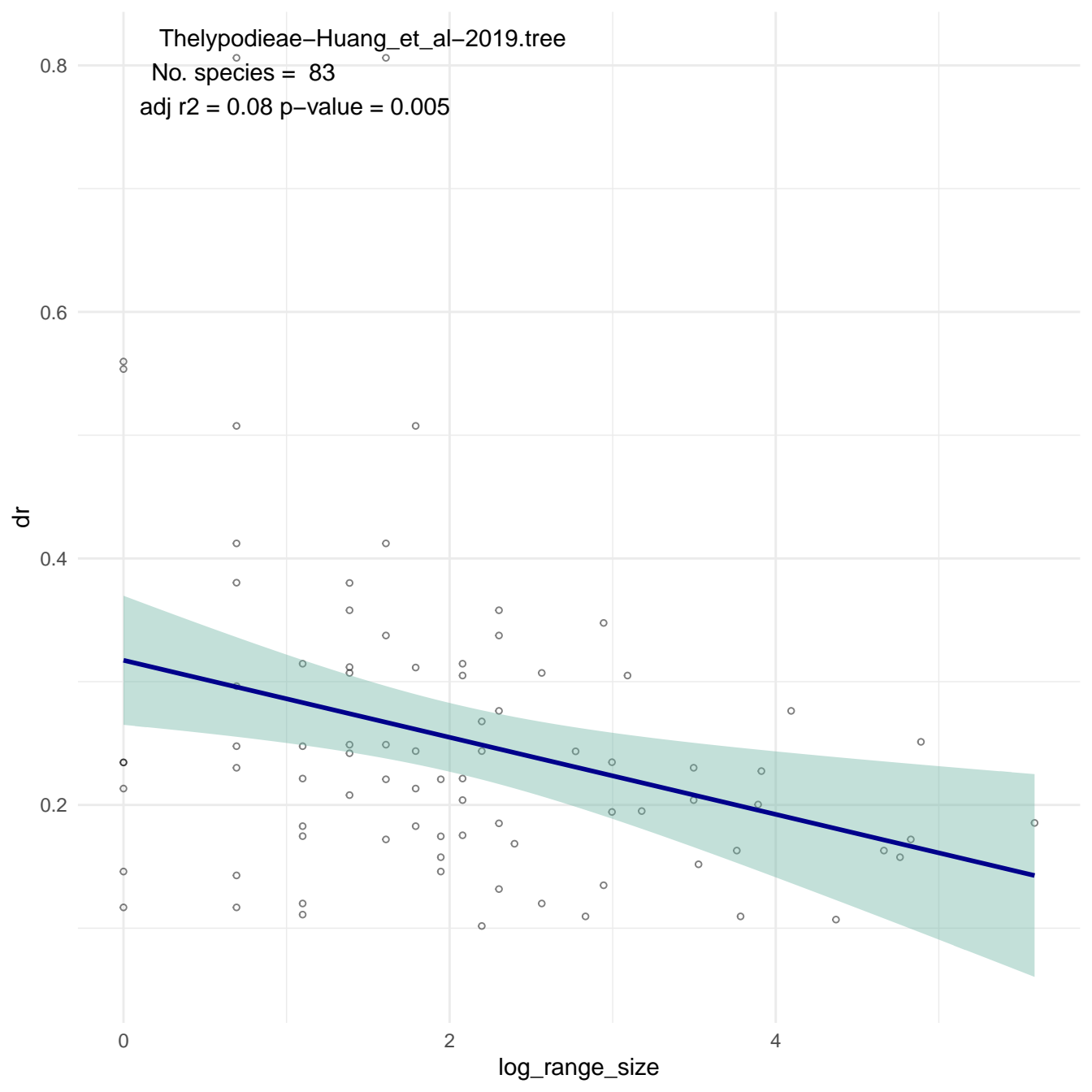
dr

0

2

4

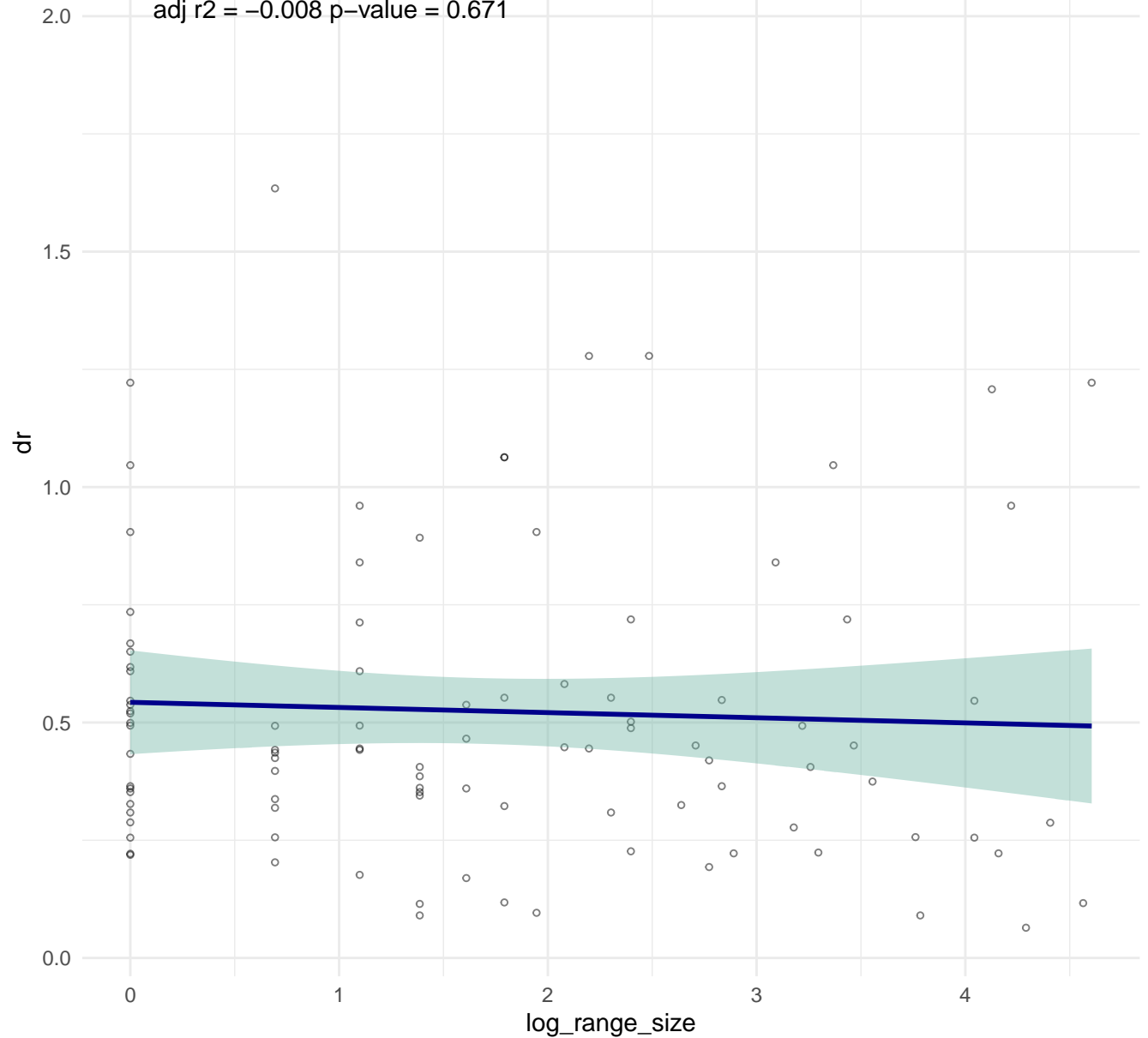
log\_range\_size



Vanguerieae-Verstraete\_et\_al-2017.tree

No. species = 100

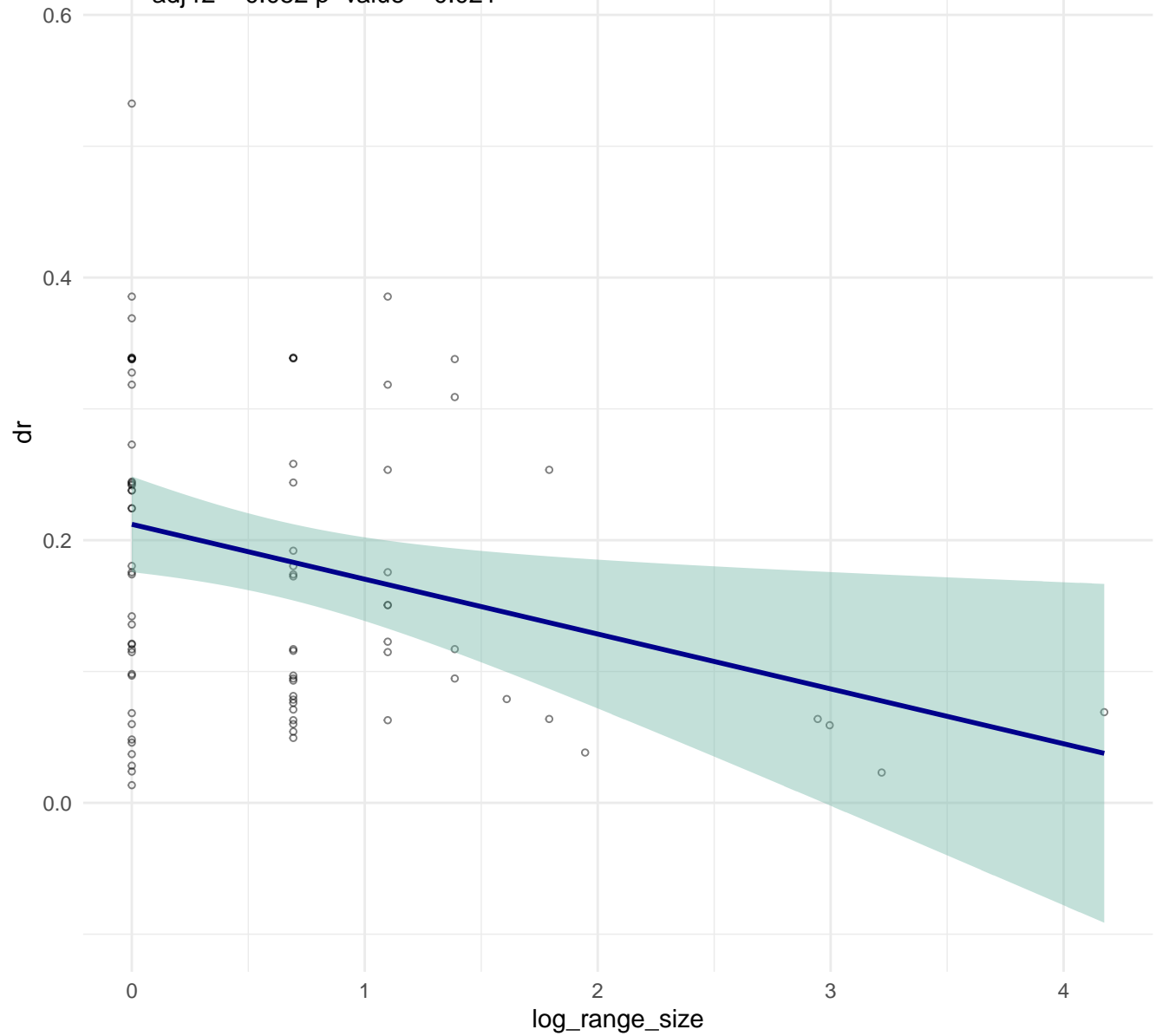
adj r2 = -0.008 p-value = 0.671



Velloziaceae-Alcantara\_et\_al-2018.tree

No. species = 83

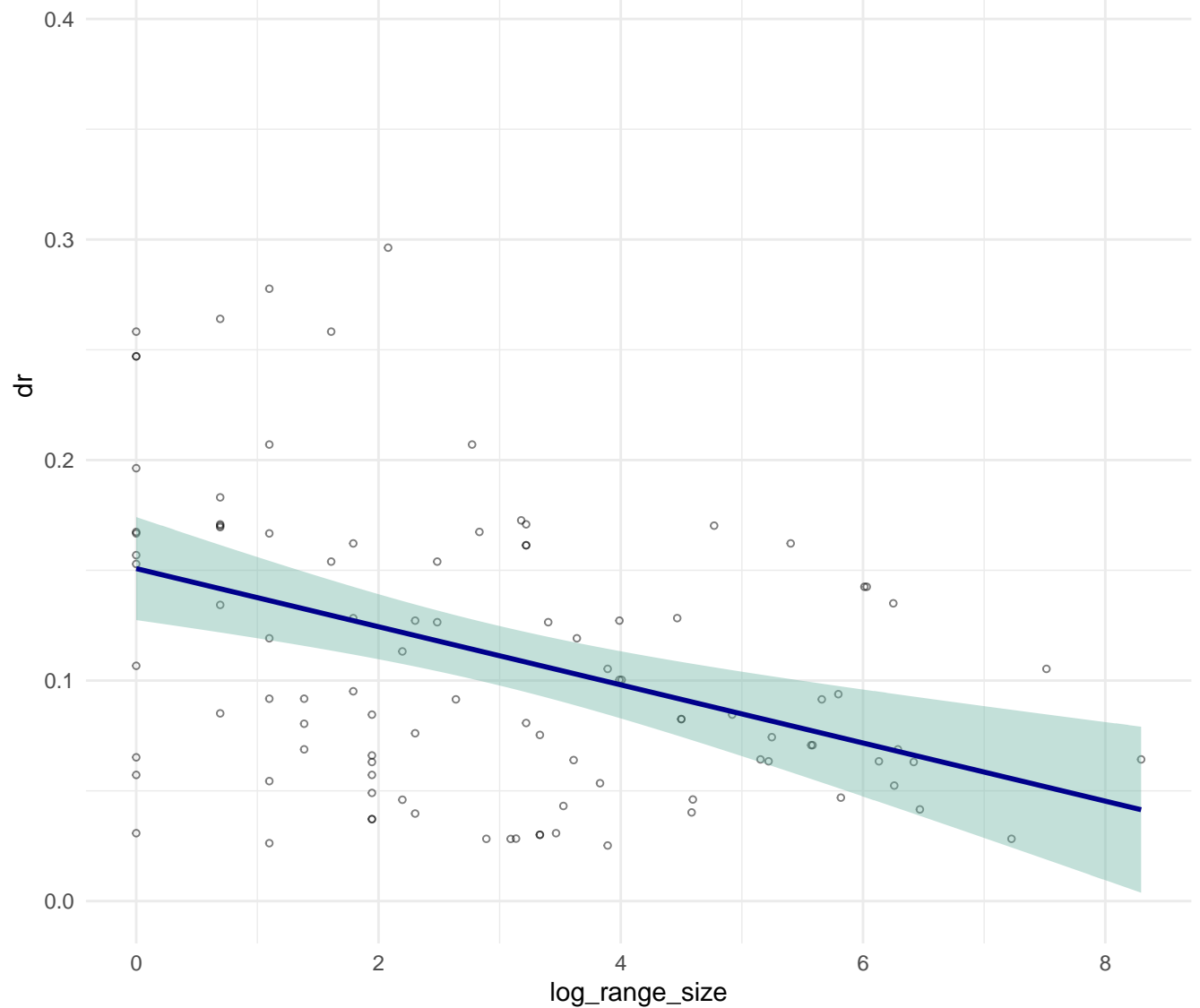
adj r2 = 0.052 p-value = 0.021



Viburnum-Landis\_et\_al-2021.tree

No. species = 102

adj r<sup>2</sup> = 0.129 p-value = 0



Vrieseinae-Kessous\_et\_al-2020.tree

No. species = 47

adj r2 = -0.022 p-value = 0.907

