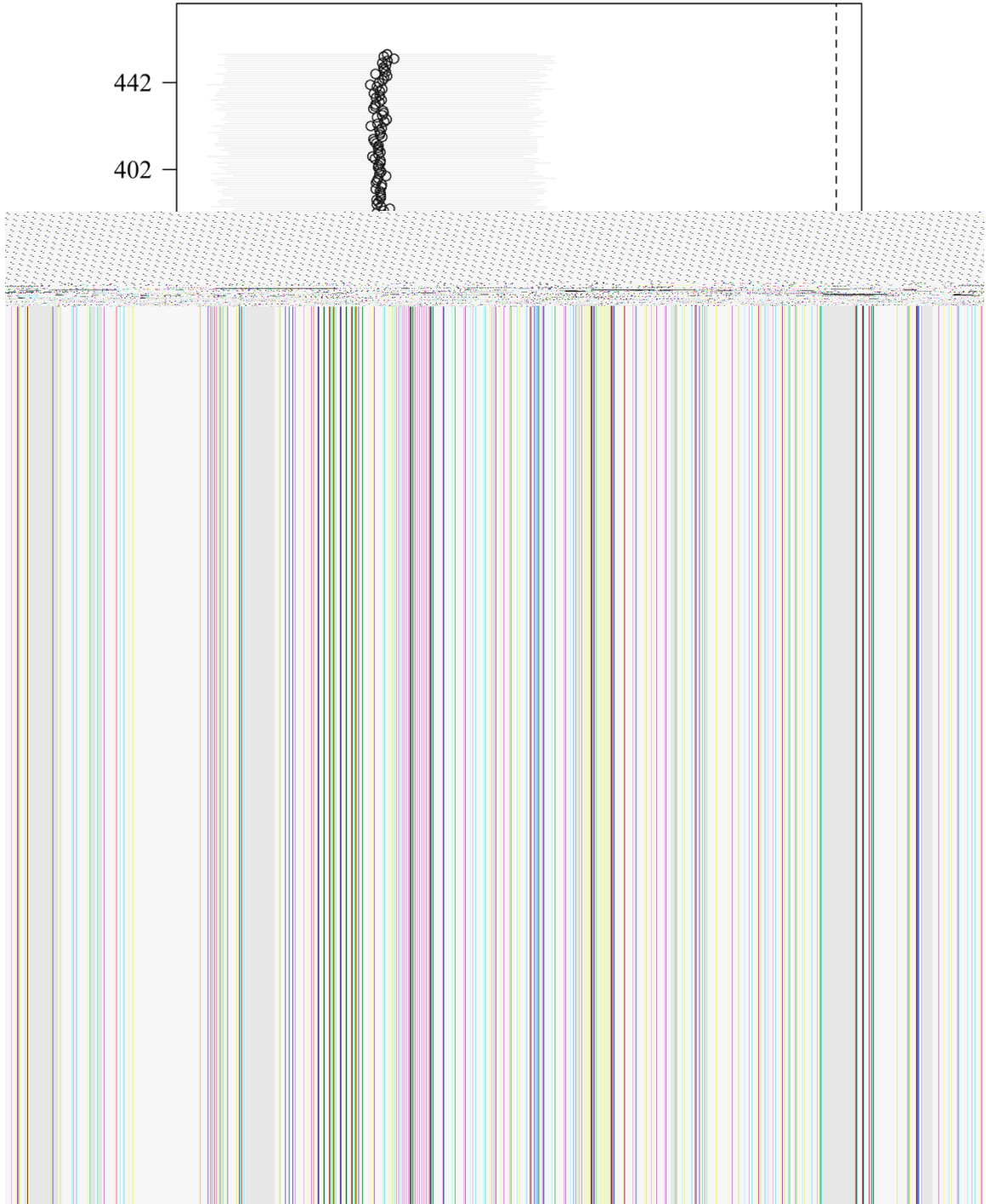


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!\$%&()\*+),%&\*+. %/,0!1%2!3%+! 2%!1%2! ,%42%. &! &6' 2,\*7/!13\*&

A!

)37/ &2/,9%!:4\*&!, -!3\*; 10!/)' 3%!" - . !<=> !)2%,43%,- &26' 3,/!,-)37. %!,-!; 20!4' 2/?@

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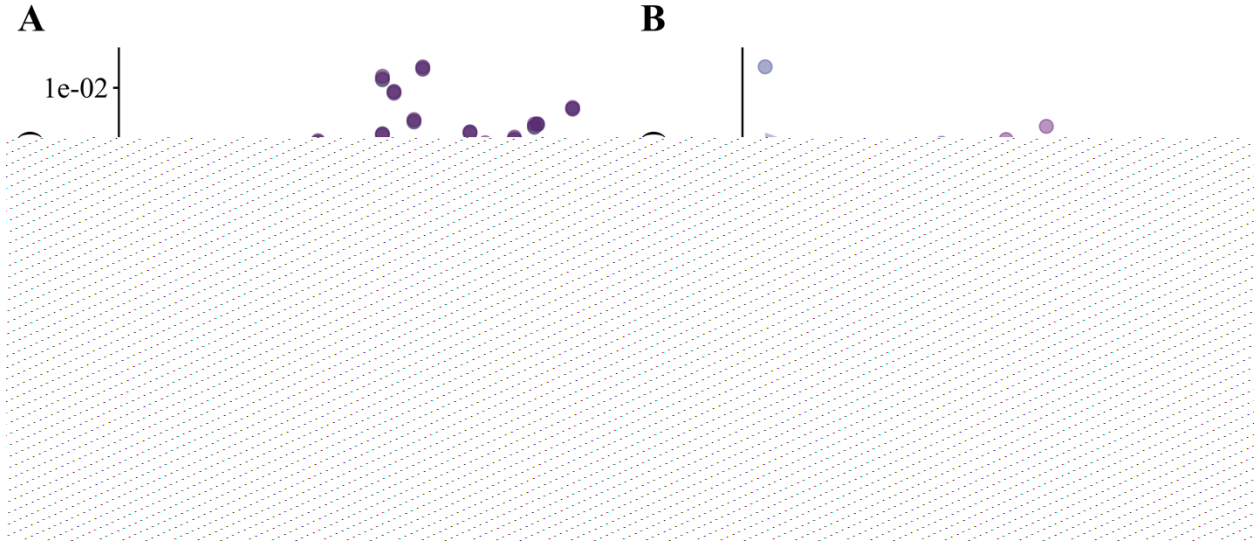


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C ! \$ % & ( ) \* % + , ) , % & \* + ! \* ) ) 71' - ) 0! 1 % 2! . , % 3 4 2 % . & ! ' & 6' 2 \* 7 / ! 1 3 \* & 3 7 / & 2!

D / , 9 % ! : 4 \* & ! , - ! 3 \* ; 1 0 ! / ) ' 3 % ! - . ! < = > ! ) 2 % , 4 3 4 , - & 2 6' 3 , / ! , - ) 3 7 . % ! , - ! ; 2 0 ! 4' 2 ? @





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!F% &\*- /5,1! G\*- ; ! ,%842%. &! - . !)' &21,33 2!. %/, @!1%2!13\* & 2%! &

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. , +02% &!)' 3%!\*+!4/%26' &\*- H! ?!13\* &)' 3!1' - . !4?!%36' &\*- !/)' 3/@ 3\* &36%2. ' &!K%2%

"B!

) \*G4, - %!+\*2%)5!)' &21,33 2/1%, %!:1\*, - &?!+\*26' 2 \*7/!13\* & ; ; 2%' &!:437%#=#13\* &!2% H#=#!

"C

; 2%# HE! - . !17213#=#E?!&!%6' 37' &15%4+0% &+!/' 3/@ \*25%8/36' &\*- ! - ' 30/, /I. ,/)2%26

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%36' &\*- !4' - . /!, - ) 37. % HE!( "EEE!G!:2% ?!" EE"(#EEE!G!; ; 2% ?!"#EE"(8EEE!G!:17213#@! - . !

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' 4\*6%8EEE!G!:437%#@ \* , - &!K%2%/ %&&! !2 - /1' 2%)0!6' 37% & ,6% !5%M' - &@!\*+1\* , - &I/7)5!

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& & ' 2N%257%! , - . ,)' & !5, ; 5!. %/, @!\*+1\* , - &@

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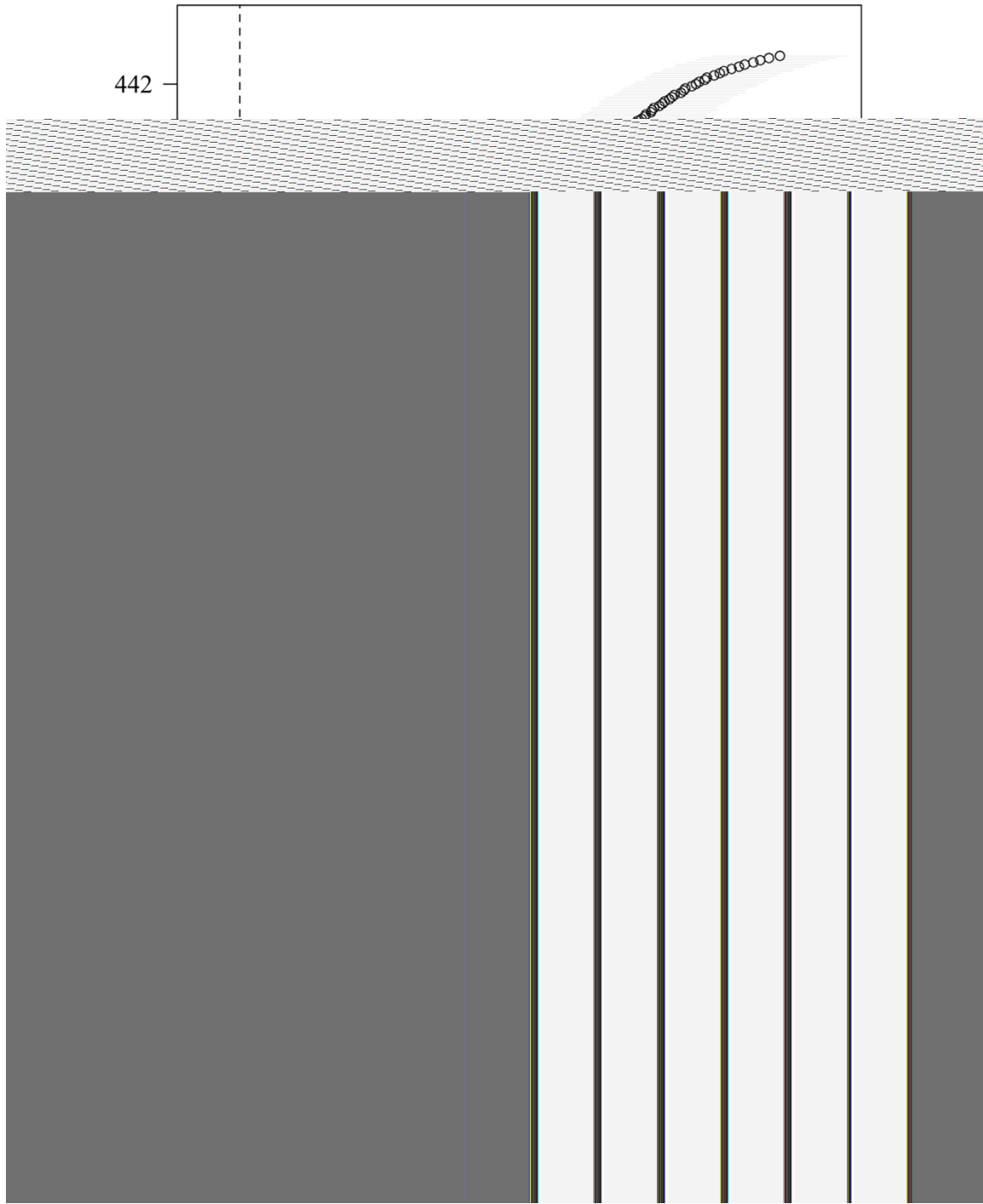
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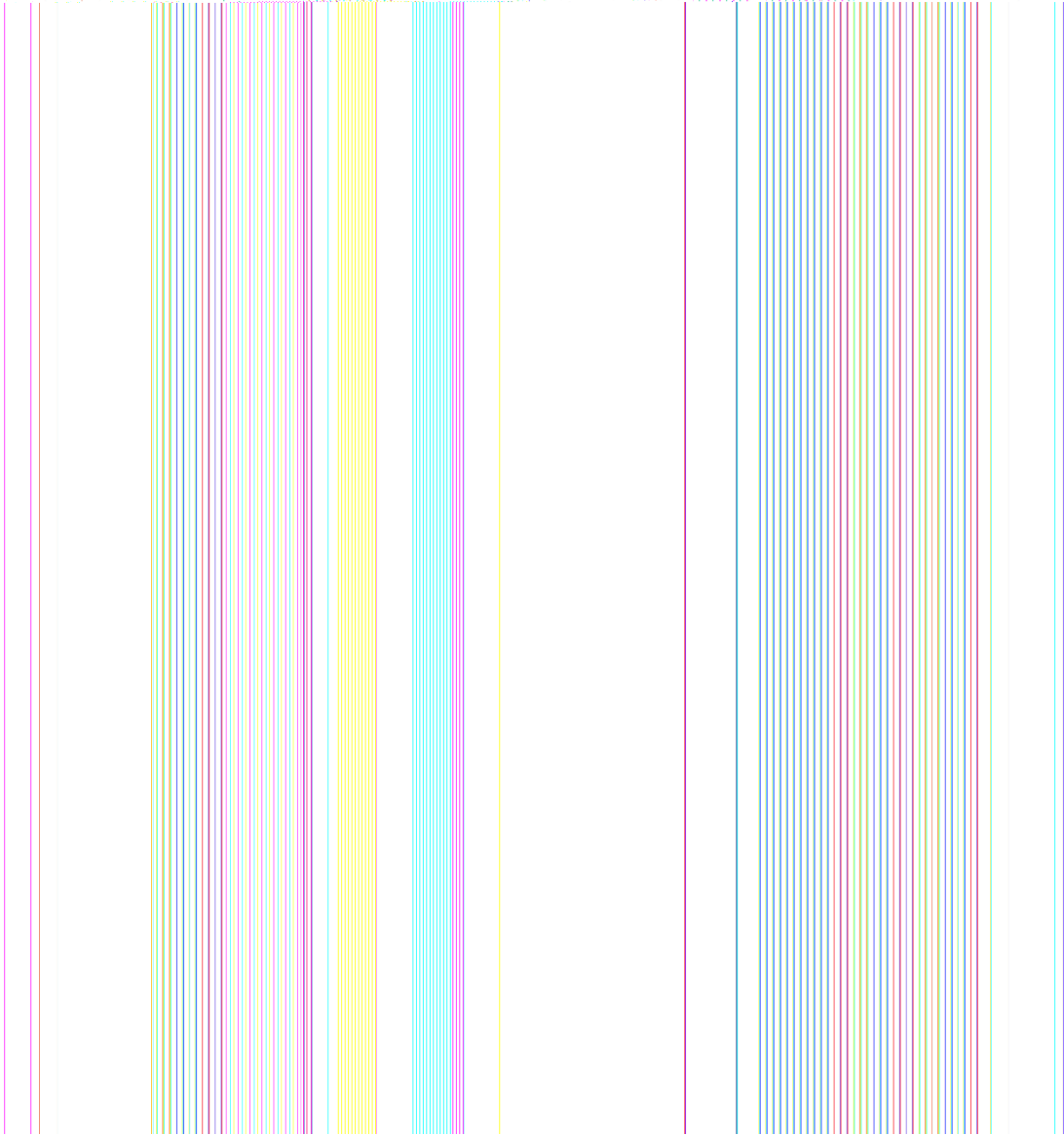
!\$%&()\*+),%&\*+!)71' -)0!1%2\*2 ,-' &!. ,%42%. &' &6' 2\*7//13\*&

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)37/ &2/,9%!:. %/, &1%23%+! 2%!,/!, -13\*; 10!)' 3/147& \* &5%\*2 ,-' &!. ,%42%. &@05%<=> !

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)2%,43% - &26' 3,/!, -)37. %!, -!; 2%0!4' 2'/?@



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!\$%&()\*+,-,%&\*+!./,0!1%2!3\*&2%!1%2\*2,-'&0!,%&42%.&!&

8D!

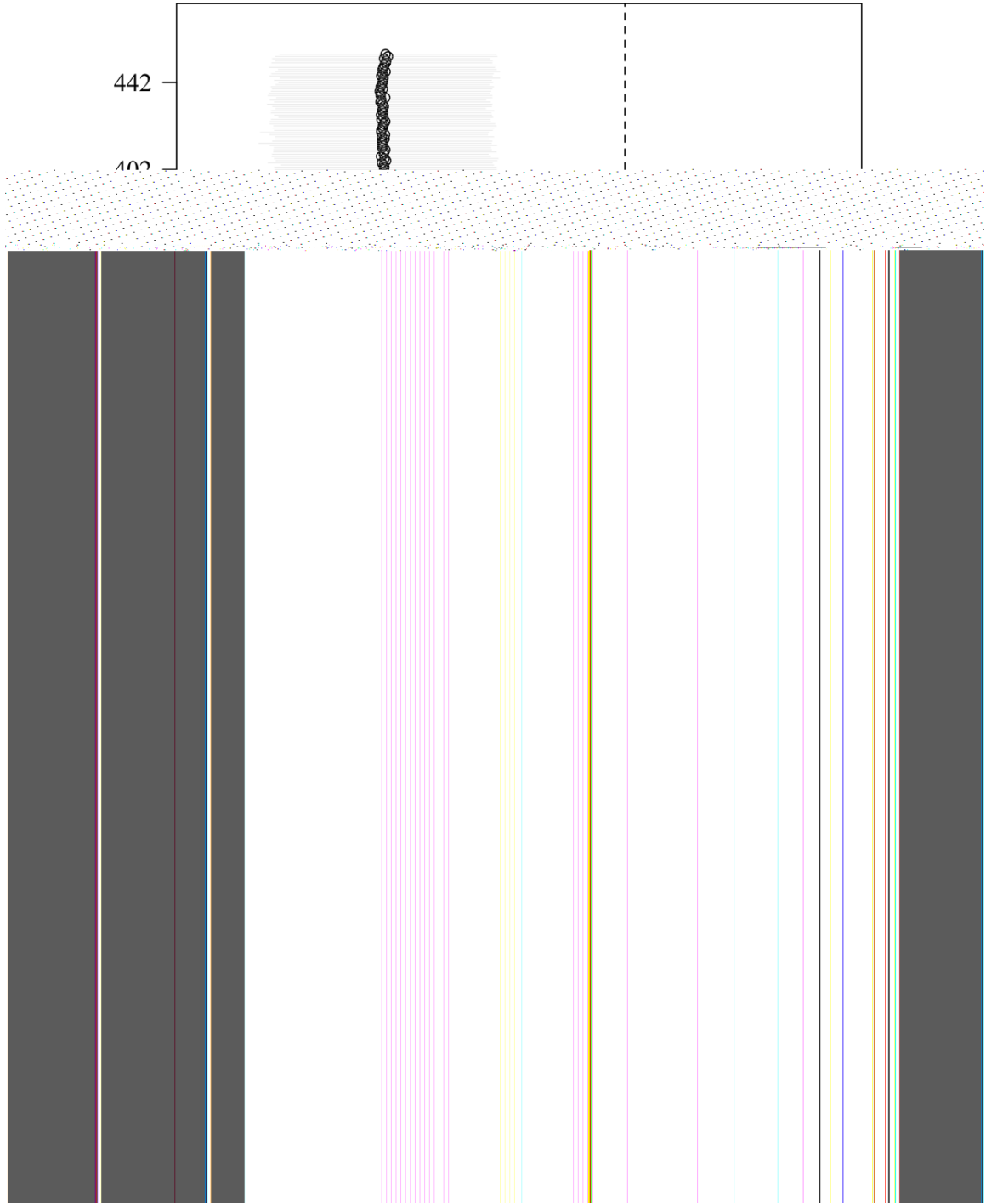
6'2\*7/!13\*&37/&2/,9%!:.%/,0!1%2!3%+!2%!/,!,-!3\*;10!)'3/147&\*&5%\*2,-'&0!,%&42%.&@

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O5%<=>!2%,43%,-&26'3/,!,-)37.%!,-!;2%0!4'2'/?@







A=!

AB!

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AD

!\$ %&() \*%+),% &\*+! %/,@!1%23%+! 2%!6/ @(/)\*24\*+1503\*; % %&! ,%&

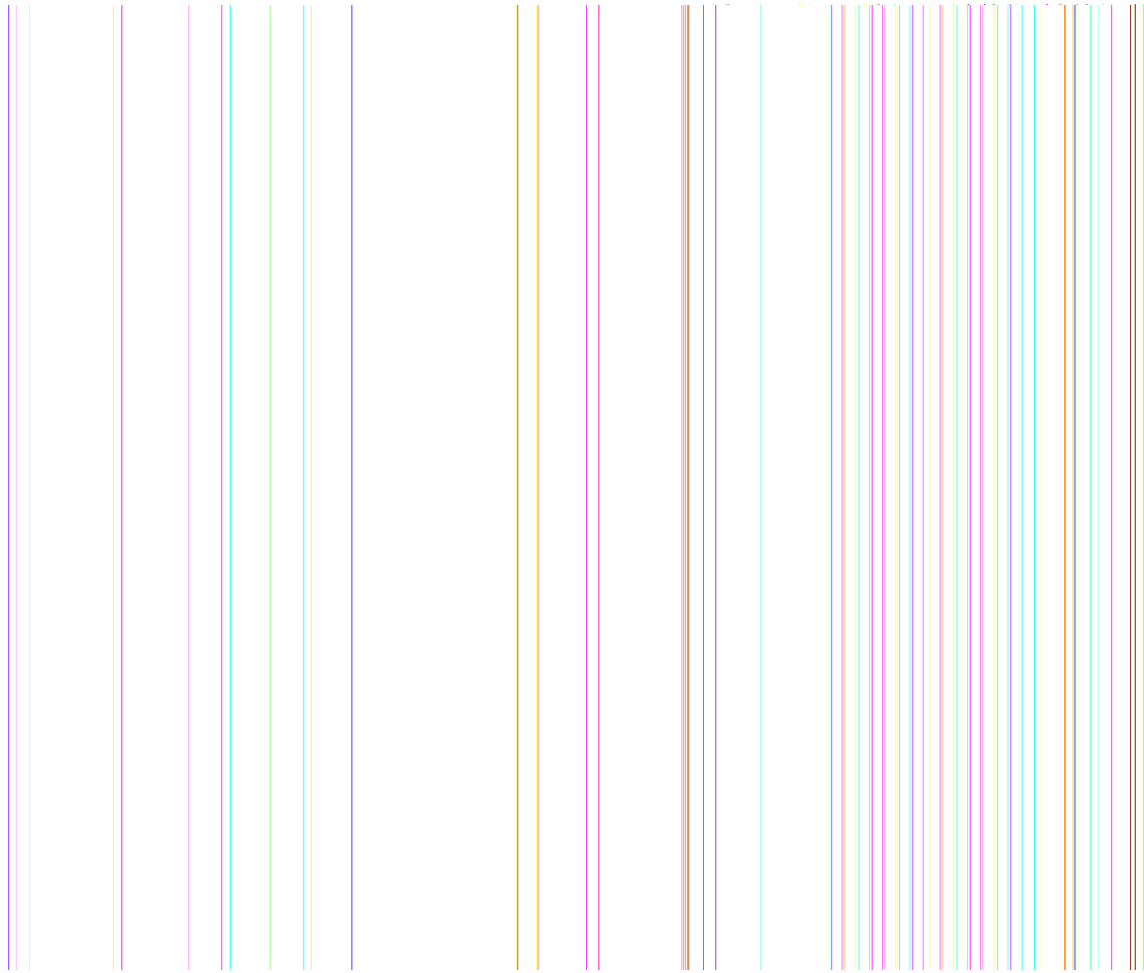
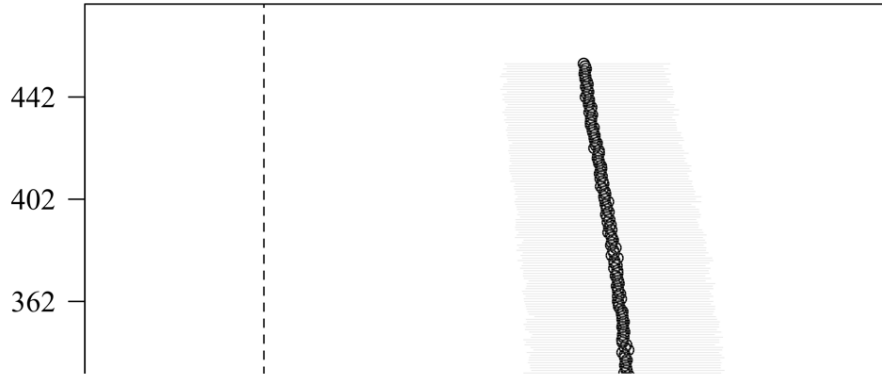
42%. &! &6' 2,\*7//113\* & 37/ &2/,9%!:4\* &!,- 13\*; 10!/) ' 3%!' - . !<=> !)2%,434,- &26' 3,/!,-) 37. %!,-!

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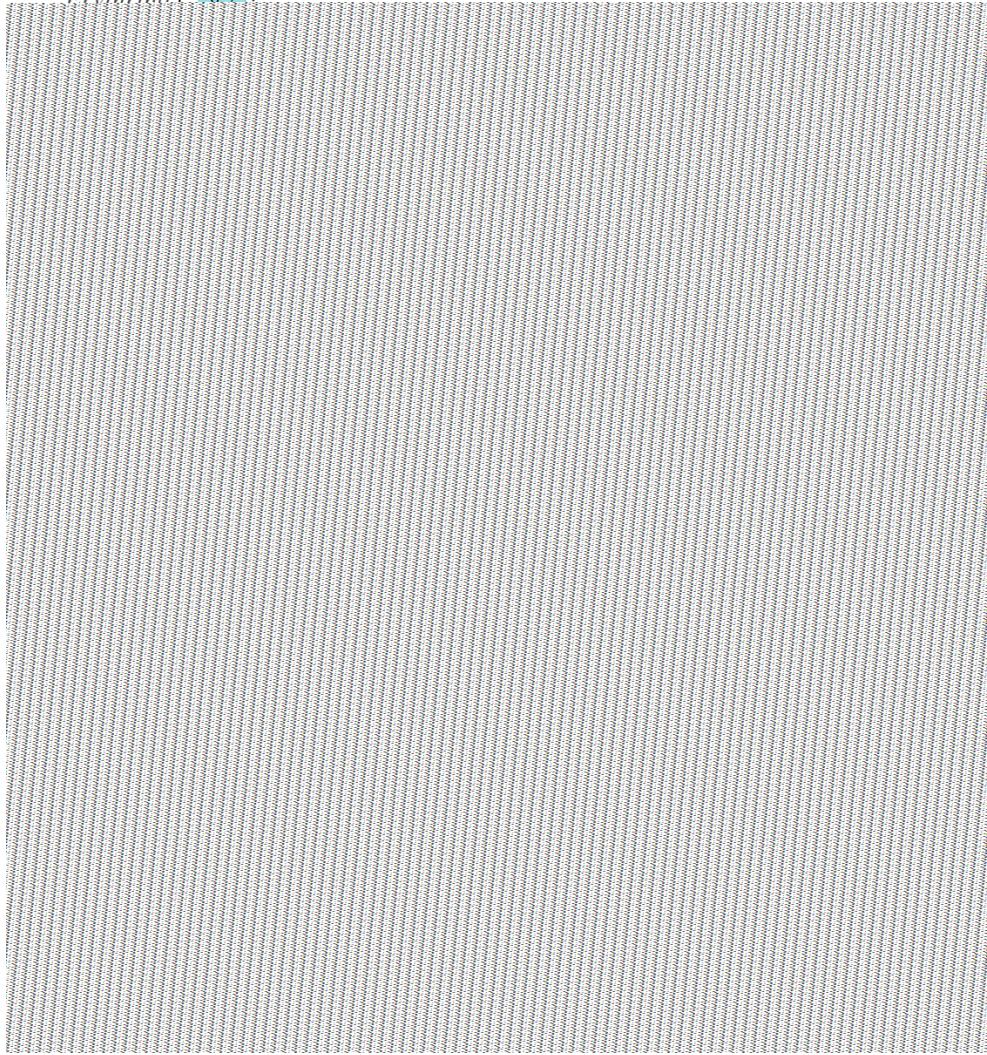
42%. &! &6' 2,\*7//!13\* & 37/ &2/,9%!:4\* &!,- 13\*; 10!/) ' 3%!' - . !<=> !)2%,43!,- &26' 3,/!,-) 37. %!,-!

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; 20!4' 2/?@



Boehmeria 0.4  
 Erythrina 0.5



BB!

BC!

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; % %2 !6' 2% @)' 37% !K, &, - !1\*, - &! , - . , )' &15% / 1%, ' 3/ &&!; % %2 3/ &2 &\*!+\* 2&5% G\*/ &

BE!

) \*GG\* - 30!' G13% !13 - & % %2 !K, &, - !13\* & @, 9% !\*+! & %1\*, - &' 2% !2\*1\*2&\* - ' &1&! & %

BF!

' 6' , 3 43/5\* / &13 - & 2% !% & G' & ! ) 2\* // !' 33!' G13% !13\* &!+\* 2K5, ) 5!)' &21, 33 2/ !K %2% +\* 7- . @

CG!

Q\* 3\* 2/ ! , +0% & & ; 2% &2. % / , @ !\*+; % %2 3/ &! : 437% !\* 2/ 1%, ' 3/ &! : 2% ? @

72 **Supplemental Table 1.** Summary of different measures of ecological specialization.

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&#1#, 7%1					<i>et al.</i>
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*et al.**et al.**et al.*

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*et al.*

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*et al.*

*et al.*

*et al.*

*et al.*

*et al.*

*et al.*



74 **Supplemental Table 2.** Point estimates for beta coefficients (bold) and associated 95% credible  
 75 intervals for relationship between taxonomic diet breadth and density per available plot area at  
 76 plot and elevation levels. Plot levels include different cluster sizes which represent the number of  
 77 aggregated 10-m plots.

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	Point estimate (bold)	95% Credible Interval
Cluster size		
5	<b>0.52</b>	[0.52, 0.77]
25	<b>0.54</b>	[0.54, 0.78]
50	<b>0.55</b>	[0.55, 0.83]
250	<b>0.59</b>	[0.59, 0.88]
Elevation level		
0 m - 1000 m	<b>-0.77</b>	[-0.77, 0.73]
1001 m - 2000 m	<b>0.24</b>	[0.24, 0.51]
2001 m - 3000 m	<b>0.49</b>	[0.49, 0.75]
> 3000 m	<b>-0.93</b>	[-0.93, 0.27]

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96 **Supplemental Table 3.** Point estimates for beta coefficients (bold) and associated 95% credible  
 97 intervals for relationship between family-level ordinated diet breadth and different abundance  
 98 indices at plot and elevation levels. Plot levels include different cluster sizes which represent the  
 99 number of aggregated 10-m plots.

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	( 5562, / 51!	( 5562, / 51!
0 #/ *-1!2#+!, \$, .%) %!	0 #/ *-1!2#+!, \$, .%) %!	0 #/ *-1!2#+!, \$, .%) %!
D&*-!2 %/ -!, +#, !	2 %&!, +#, !	2 %&!, +#, !
<b>3 %&amp;!%\$#%5%*-#+!*7#8 !</b>	<b>!</b>	<b>!</b>
5	<b>A:?</b> < [-3.30, -1.18]	<b>E&gt;B</b> [3.94, 5.44]
25	<b>A:C?</b> [-3.42, -1.21]	<b>C&gt;;</b> [3.06, 4.44]
50	<b>A:C?</b> [-3.35, -1.20]	<b>CB&gt;</b> [2.50, 3.86]
250	<b>A:BF</b> [-3.26, -1.12]	<b>BE&lt;</b> [0.68, 2.17]
<b>@%\$ , -.&amp;! !%\$#%</b>		
0 m - 1000 m	38.66 [9.03, 60.12]	<b>AB9C</b> [-14.90, 11.75]
1001 m - 2000 m	<b>AB?</b> [-2.69, -0.10]	<b>?;; B</b> [1.89, 3.39]
2001 m - 3000 m	<b>A:;&lt;&lt;</b> [-3.67, -1.42]	<b>E; =</b> [3.86, 5.51]
> 3000 m	<b>ACE=</b> [-11.37, 3.89]	<b>AB9</b> [-3.05, 1.19]

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106 **Supplemental Table 4.** Point estimates for beta coefficients (bold) and associated 95% credible  
 107 intervals for relationship between family-level phylogenetic diet breadth and different abundance  
 108 indices at plot and elevation levels. Plot levels include different cluster sizes which represent the  
 109 number of aggregated 10-m plots.

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" #S#%&! ( ) *#+\$, -.&! !	0 #/ *-1!2#+!, \$, .%& %&!	( 5562, / 51!	0 #/ *-1!2#+!, \$, .%& %&!
	D&-!2%&/ -!, +#, !		2%&! , +#, !
<b>3 %&amp;!%\$#%5%*-#+!*7#8 !</b>	<b>!</b>	<b>!</b>	<b>!</b>
5	<b>A:BB</b> [-0.16, -0.061]	<b>9:??</b> [0.19, 0.26]	<b>9:?B</b> [0.16, 0.27]!
25	<b>A:BB</b> [-0.17, -0.063]	<b>9:B=</b> [0.15, 0.22]	<b>9:??!</b> [0.16, 0.27]!
50	<b>A:BB</b> [-0.17, -0.062]	<b>9:B&lt;</b> [0.12, 0.19]	<b>9:?C</b> [0.17, 0.28]!
250	<b>A:BB</b> [-0.16, 0.059]	<b>9:9&gt;</b> [0.037, 0.11]	<b>9:?!&lt;</b> [0.18, 0.32]!
<b>@%\$, -.&amp;! !%\$#%</b>			
0 m - 1000 m	<b>?:&lt;E</b> [0.83, 3.95]	<b>A:9; E</b> [-0.79, 0.86]	<b>A:CF!</b> [-1.73, 0.75]!
1001 m - 2000 m	<b>A:9=E</b> [-0.16, -0.0055]	<b>9:BE</b> [0.094, -0.18]	<b>9:BD!</b> [0.042, 0.17]!
2001 m - 3000 m	<b>A:BE</b> [-0.20, -0.081]	<b>9:?!&lt;</b> [0.20, 0.29]	<b>9:?C</b> [0.16, 0.29]!
> 3000 m	<b>A:??9</b> [-0.62, 0.23]	<b>9:9&lt;9</b> [-0.16, 0.068]	<b>A:B=!</b> [-0.45, 0.11]!

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