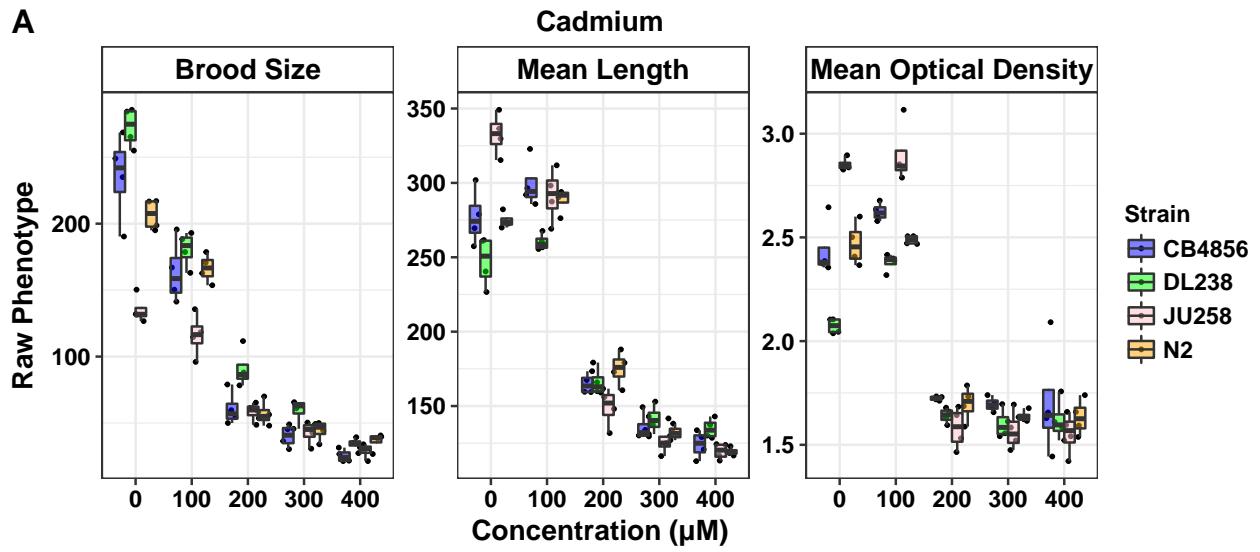
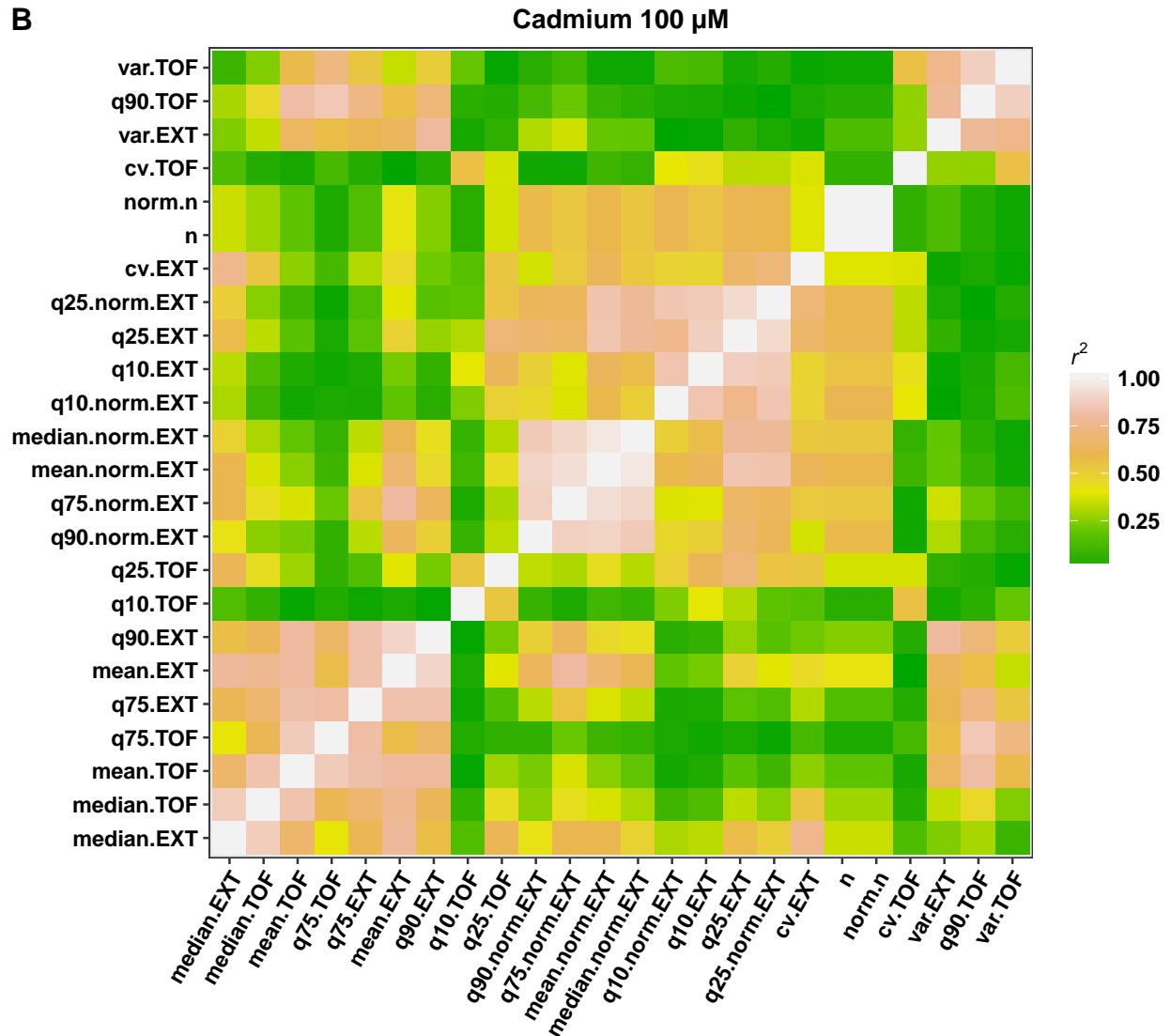
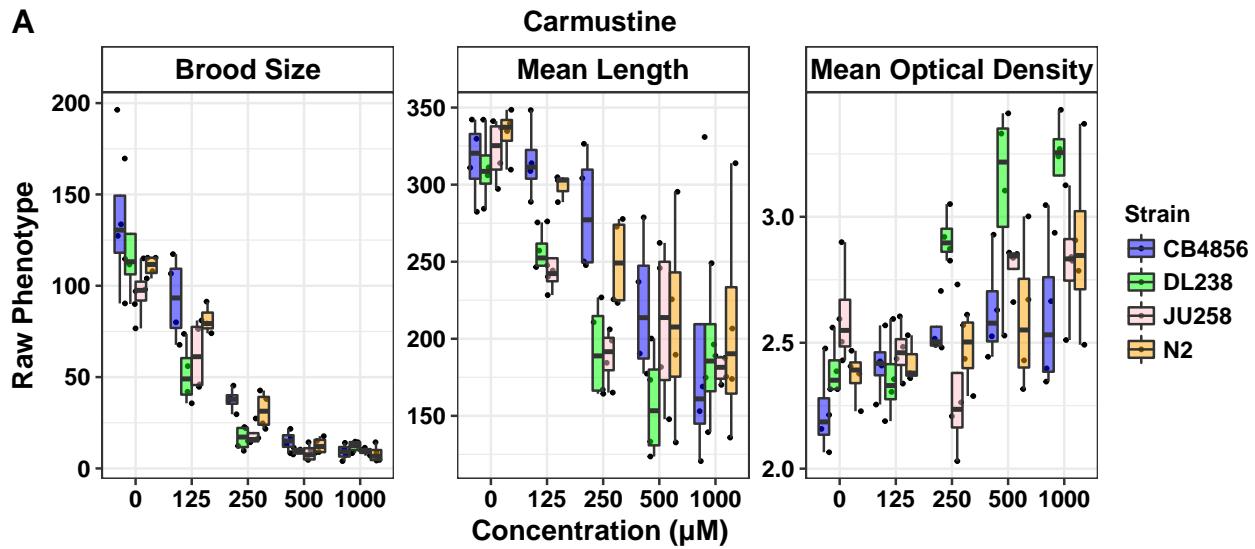
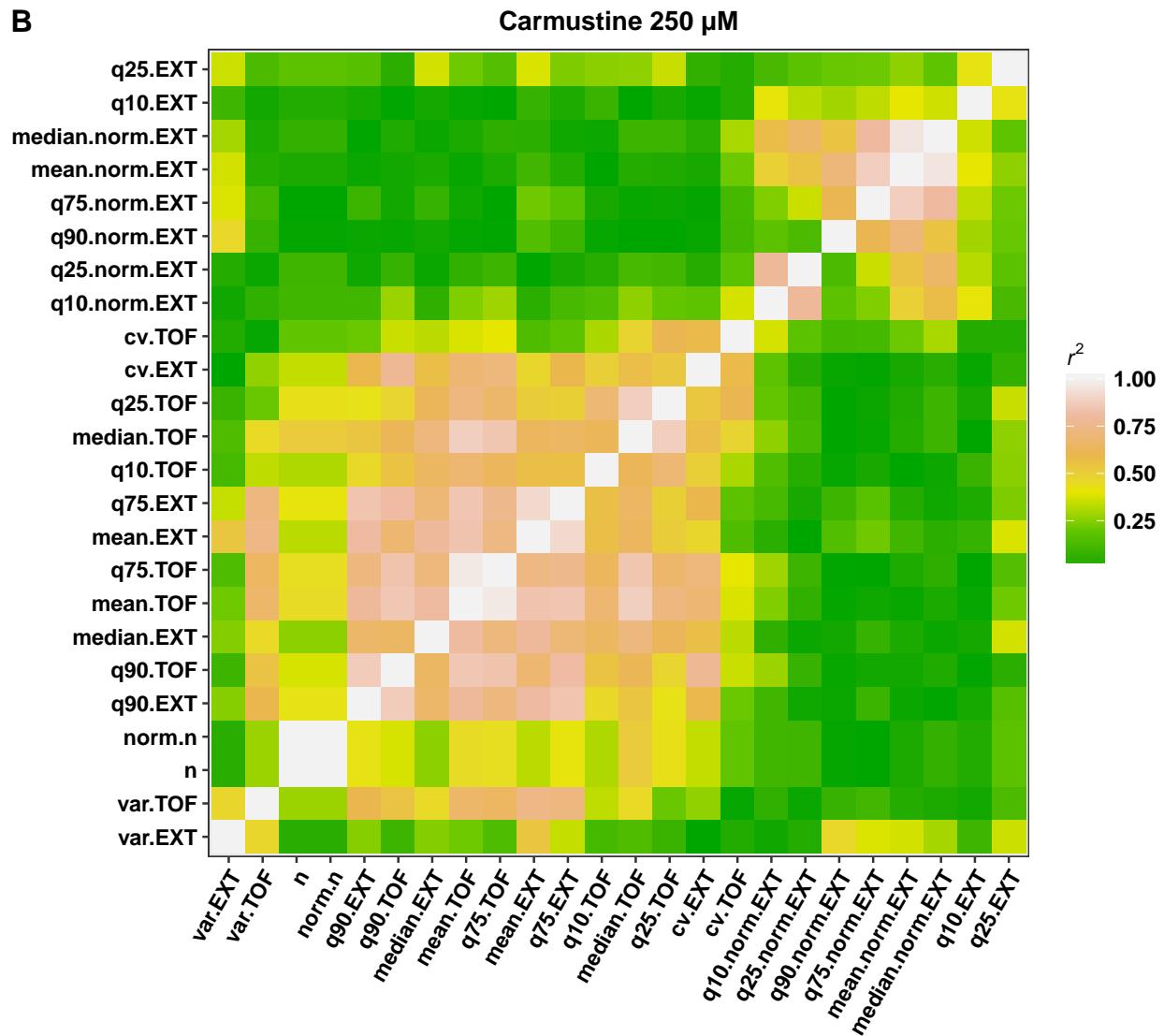
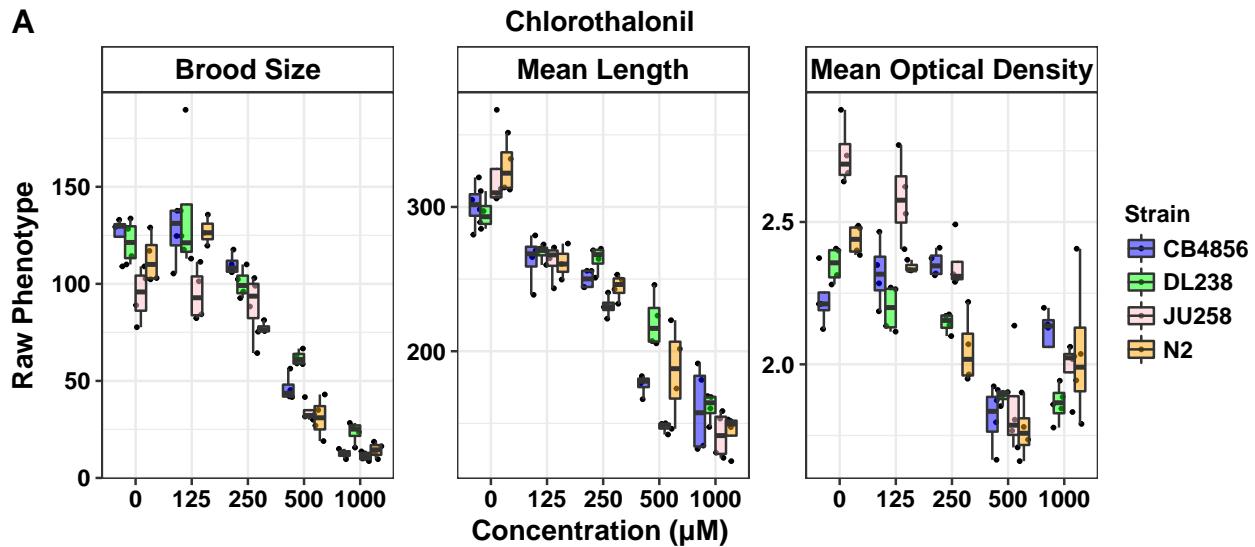
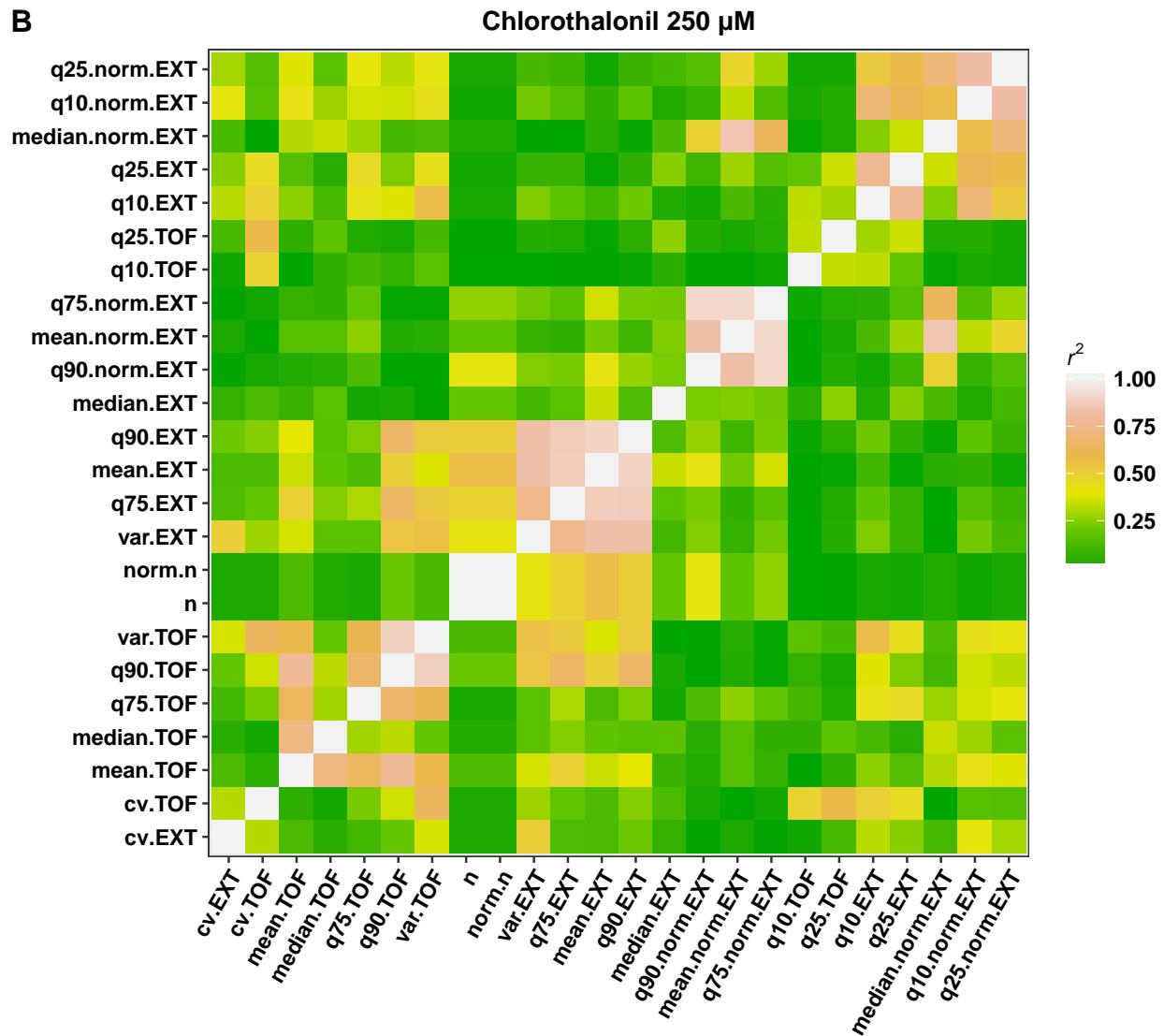
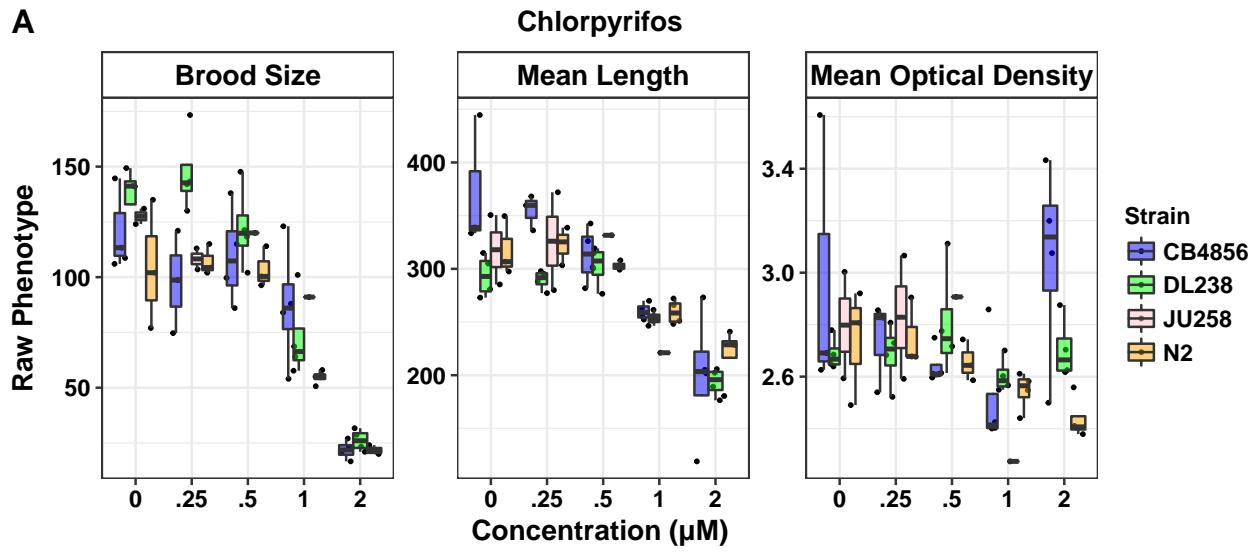
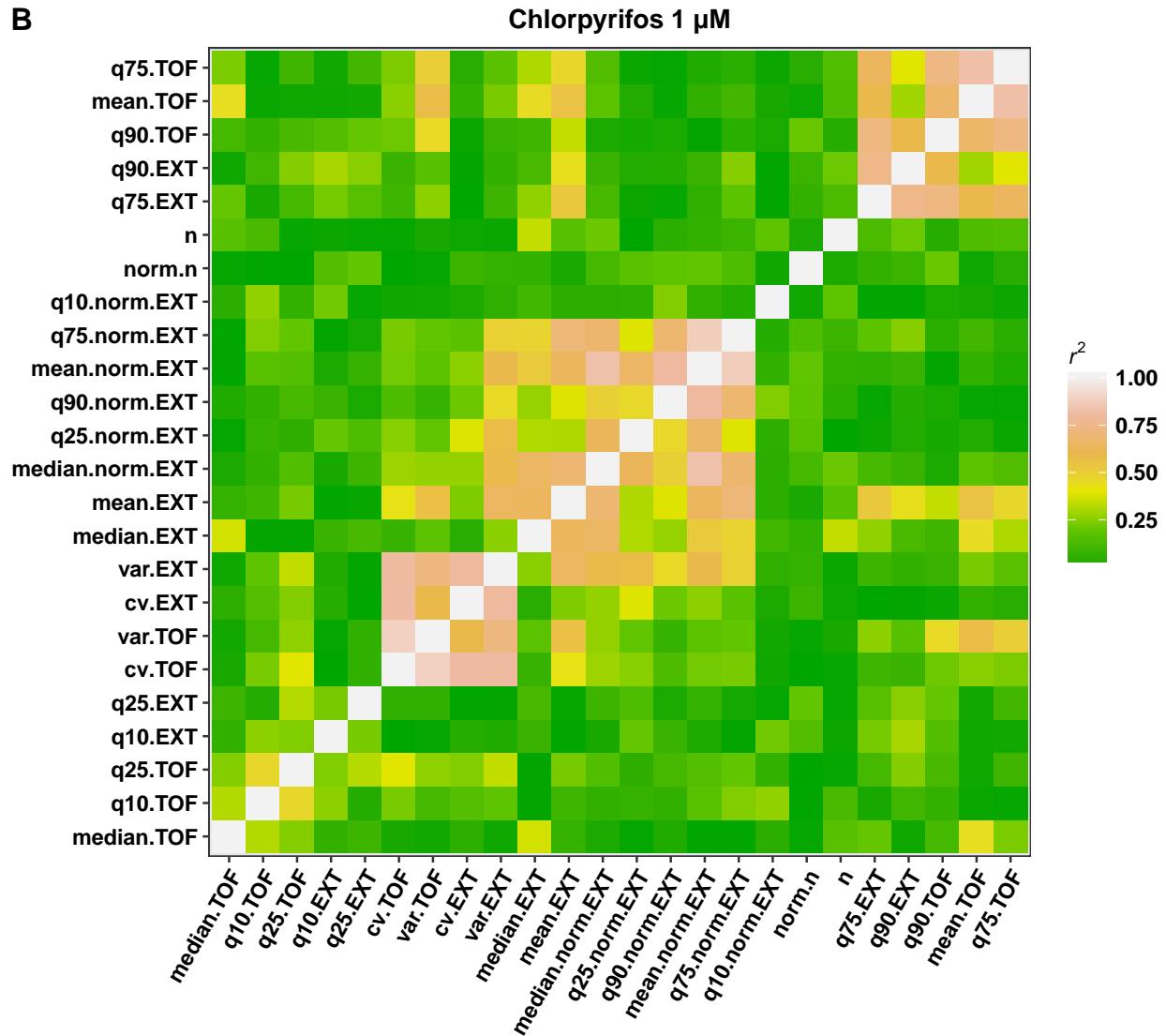
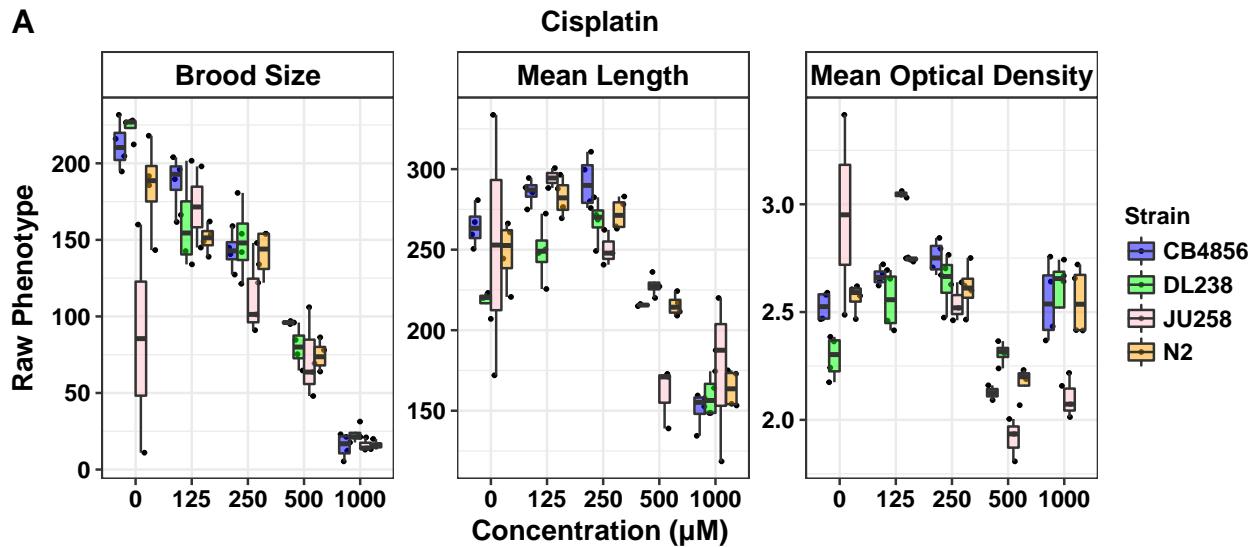
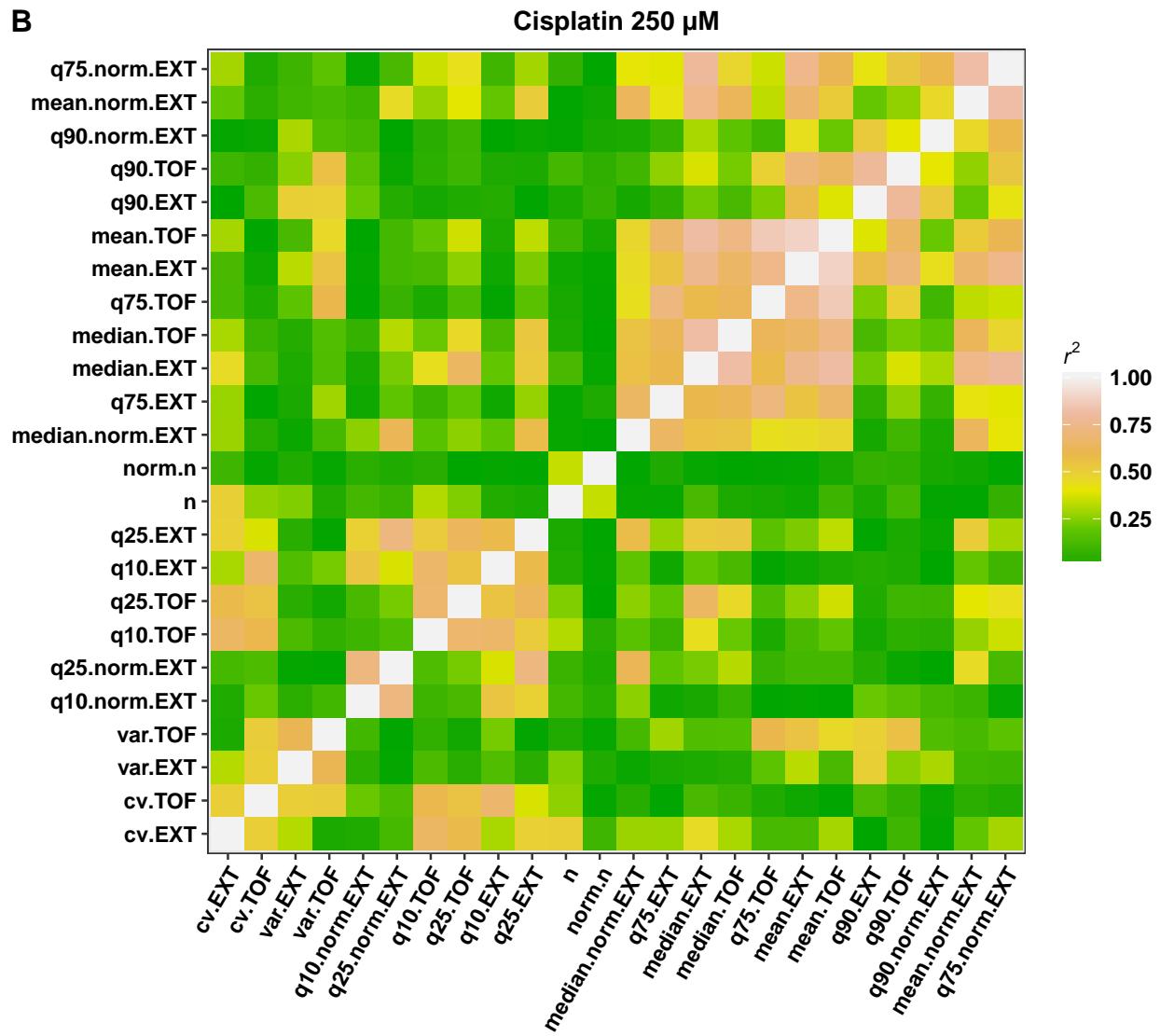


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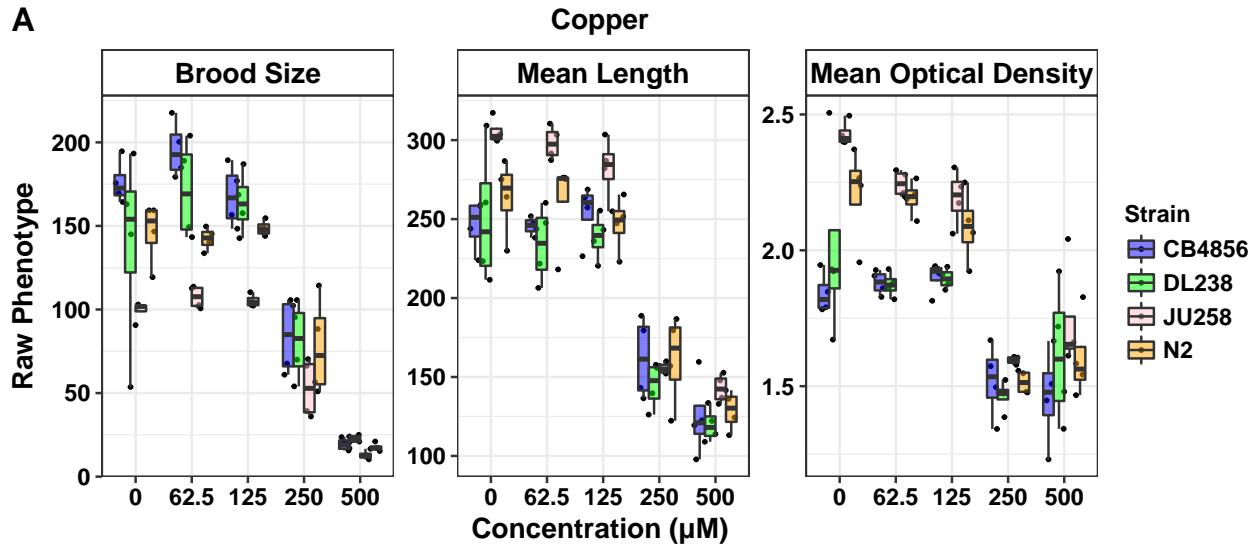
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A**B**

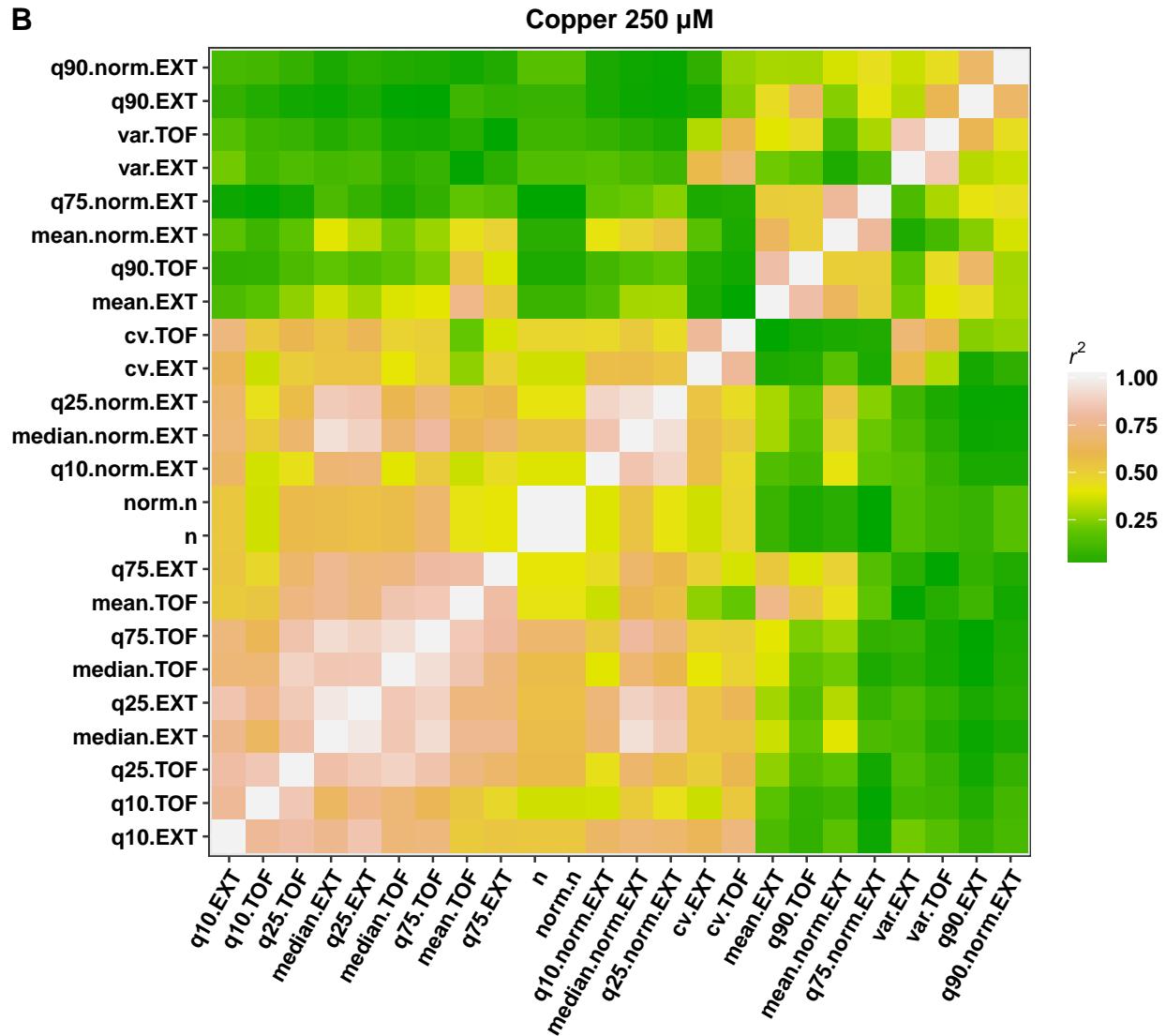
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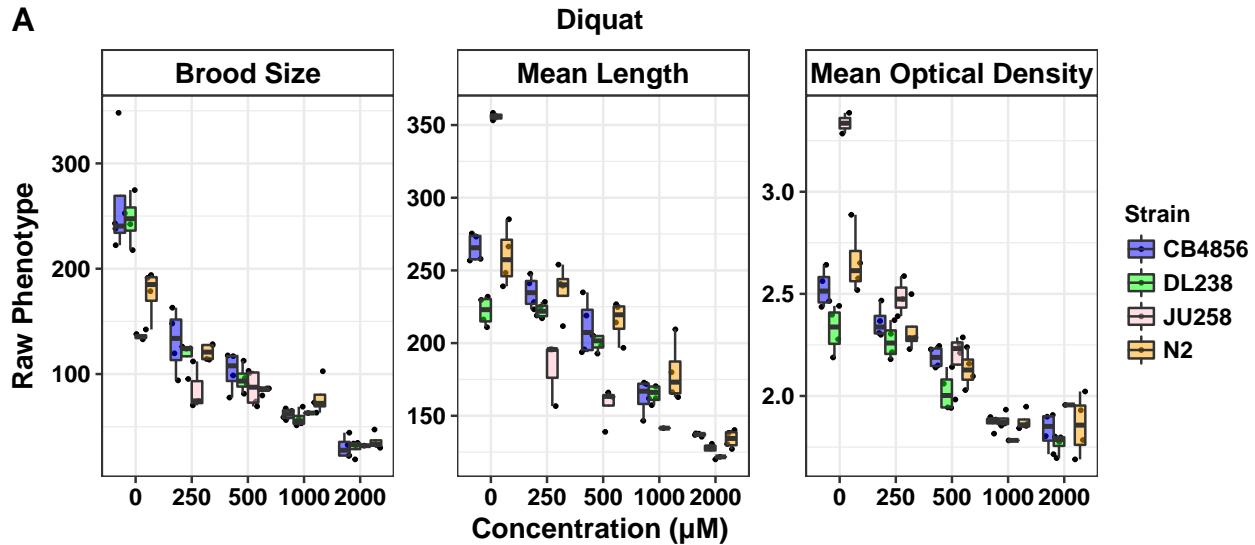
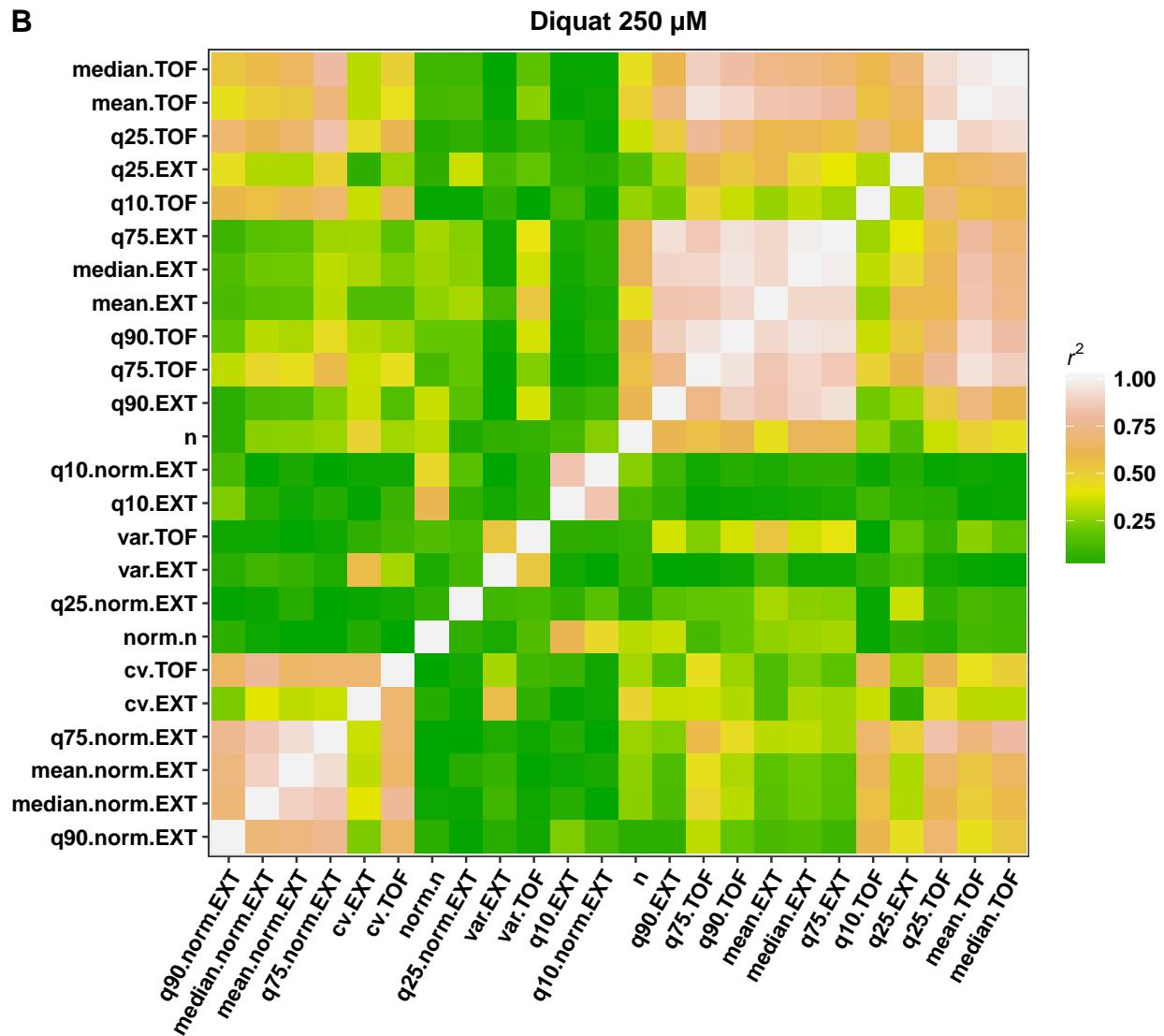
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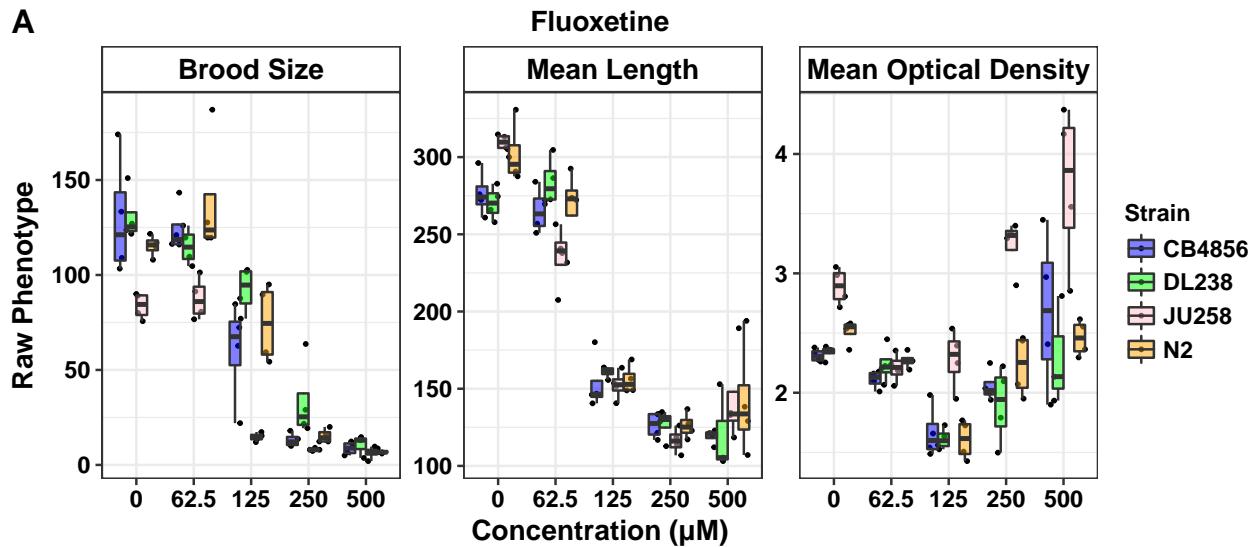
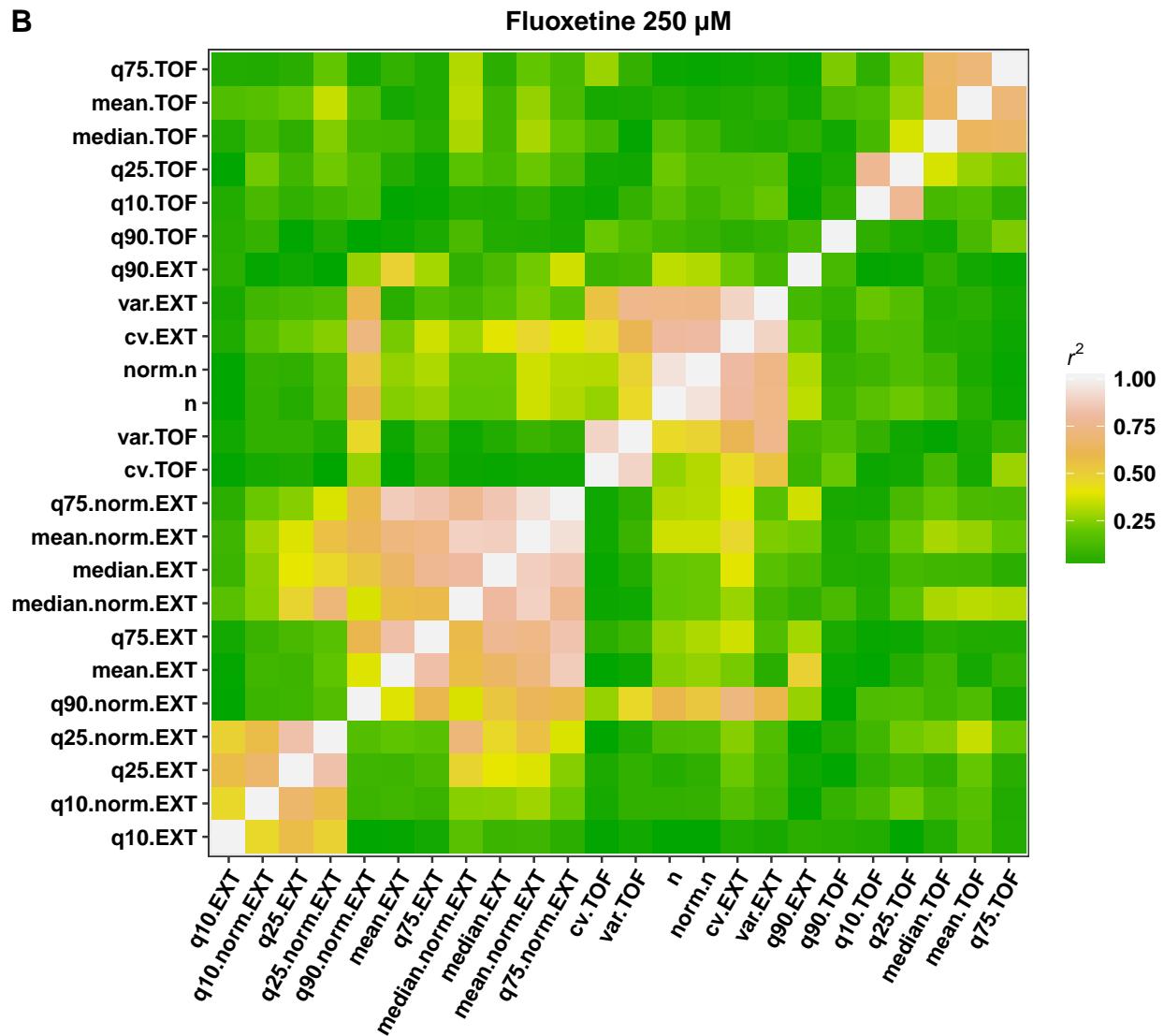
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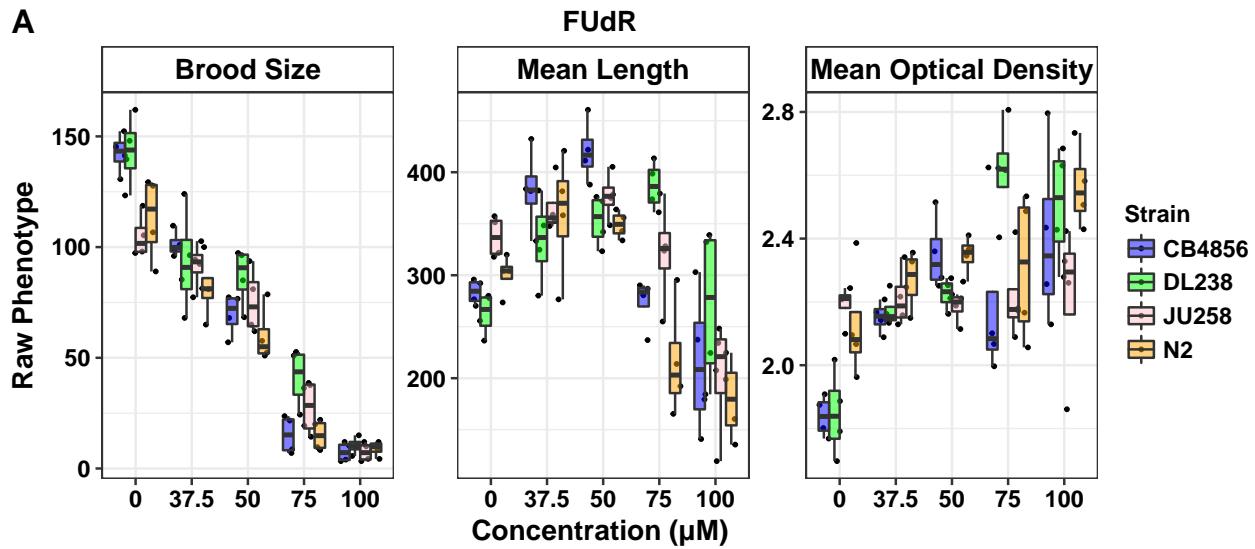
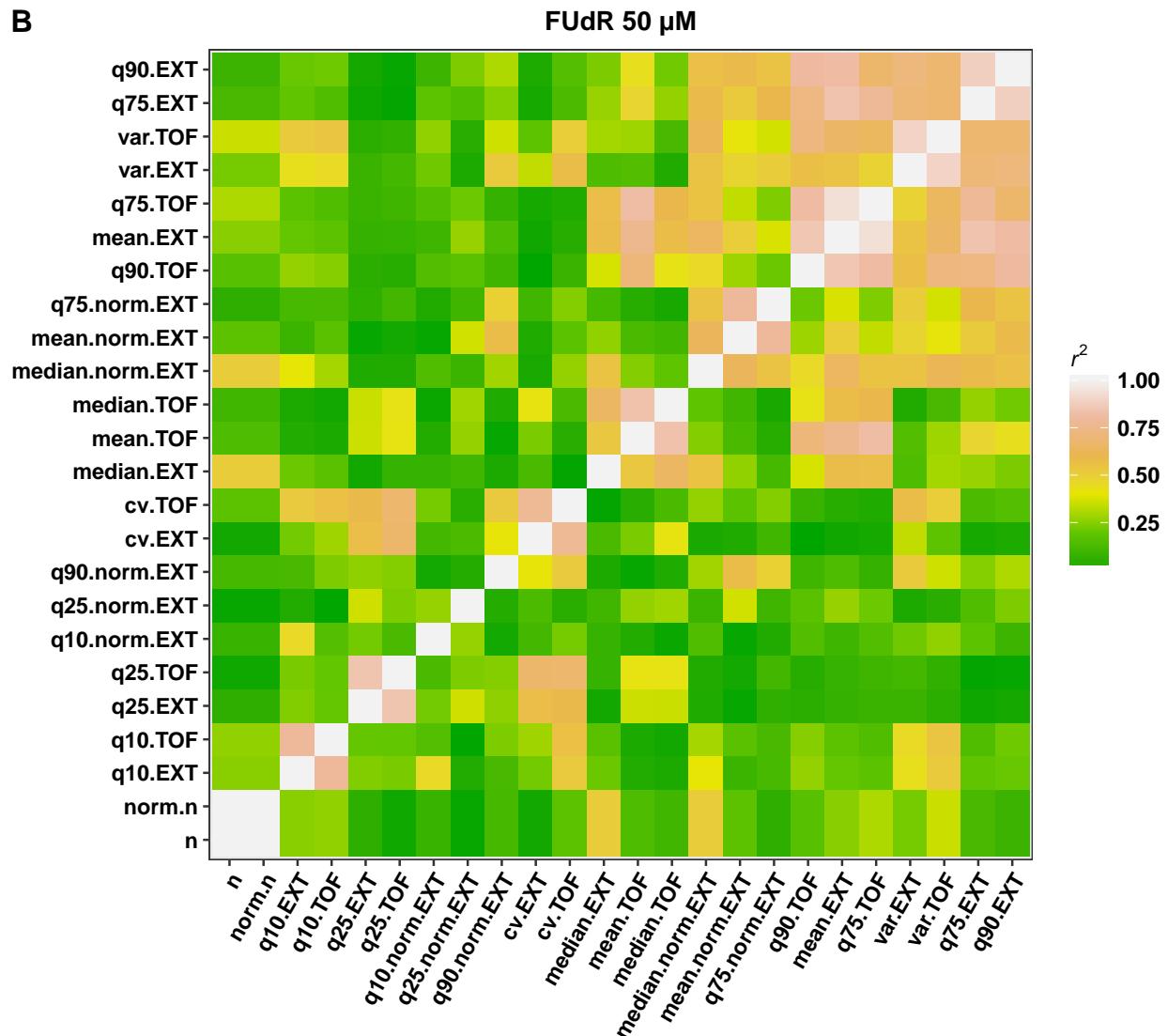


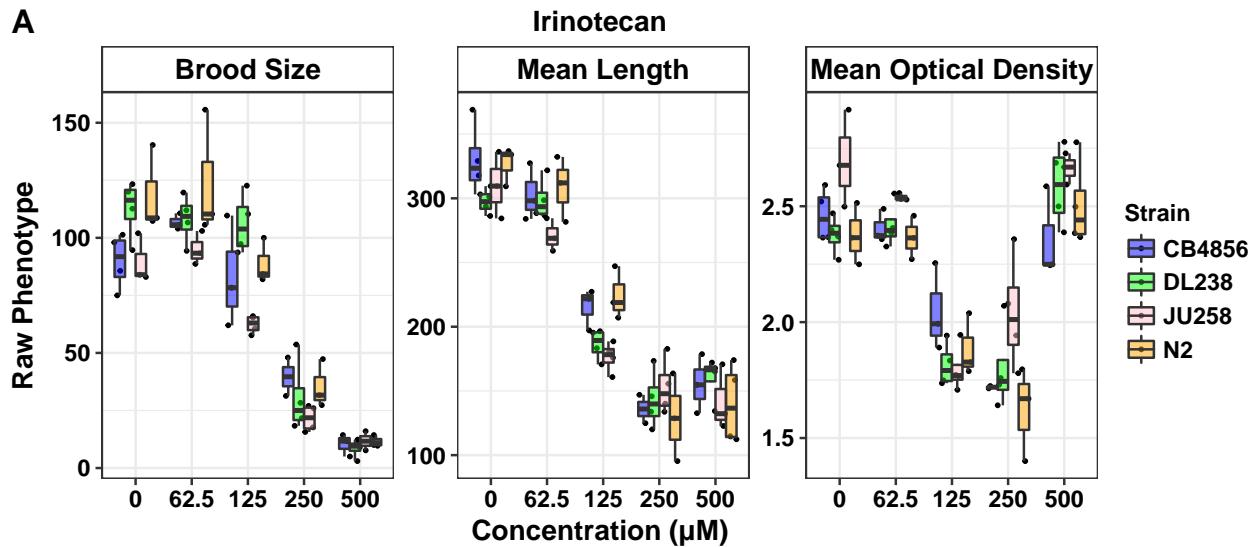
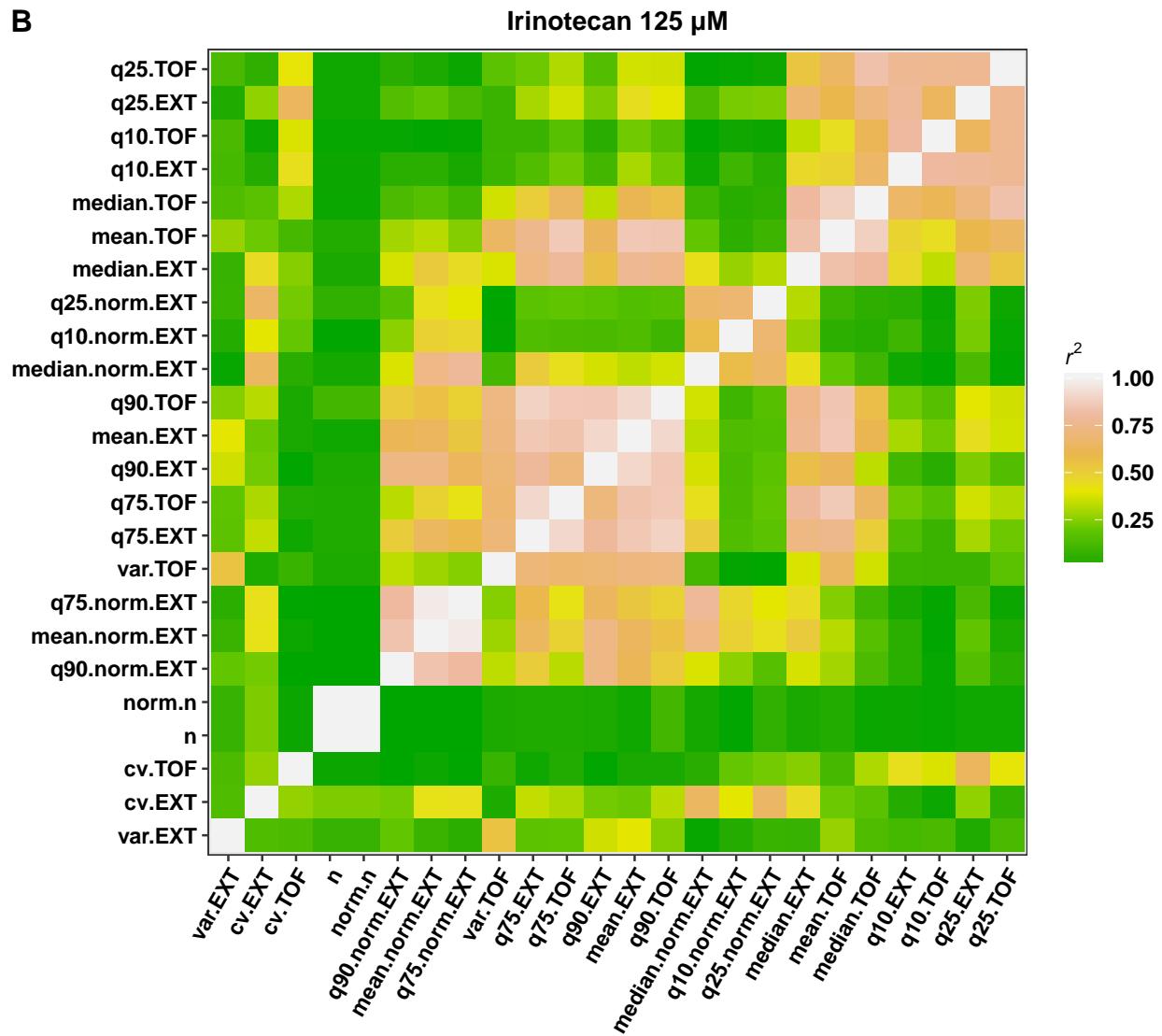
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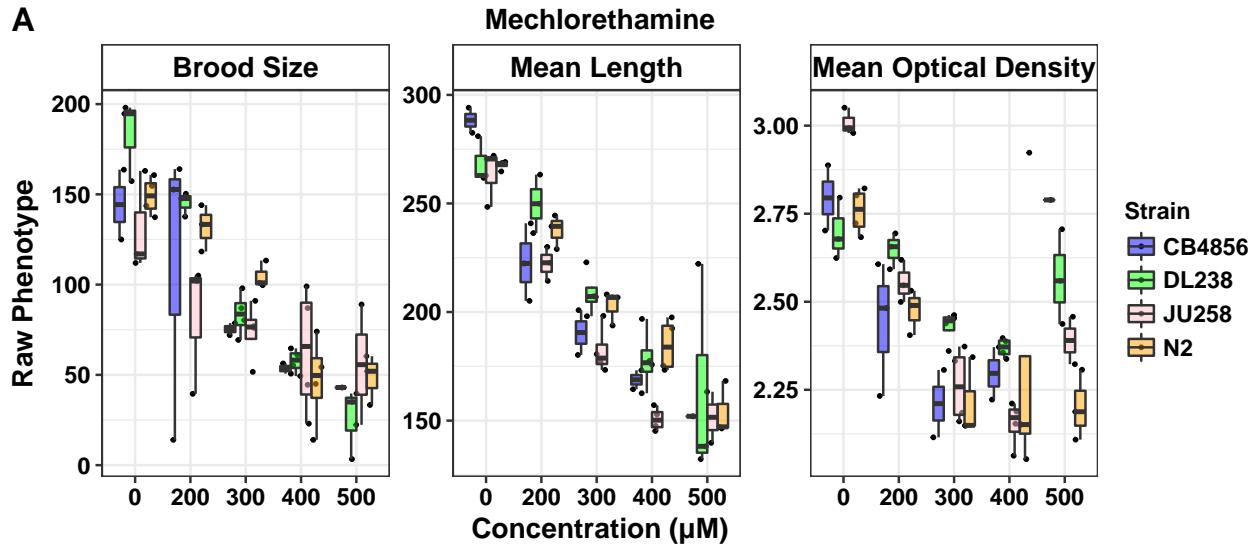
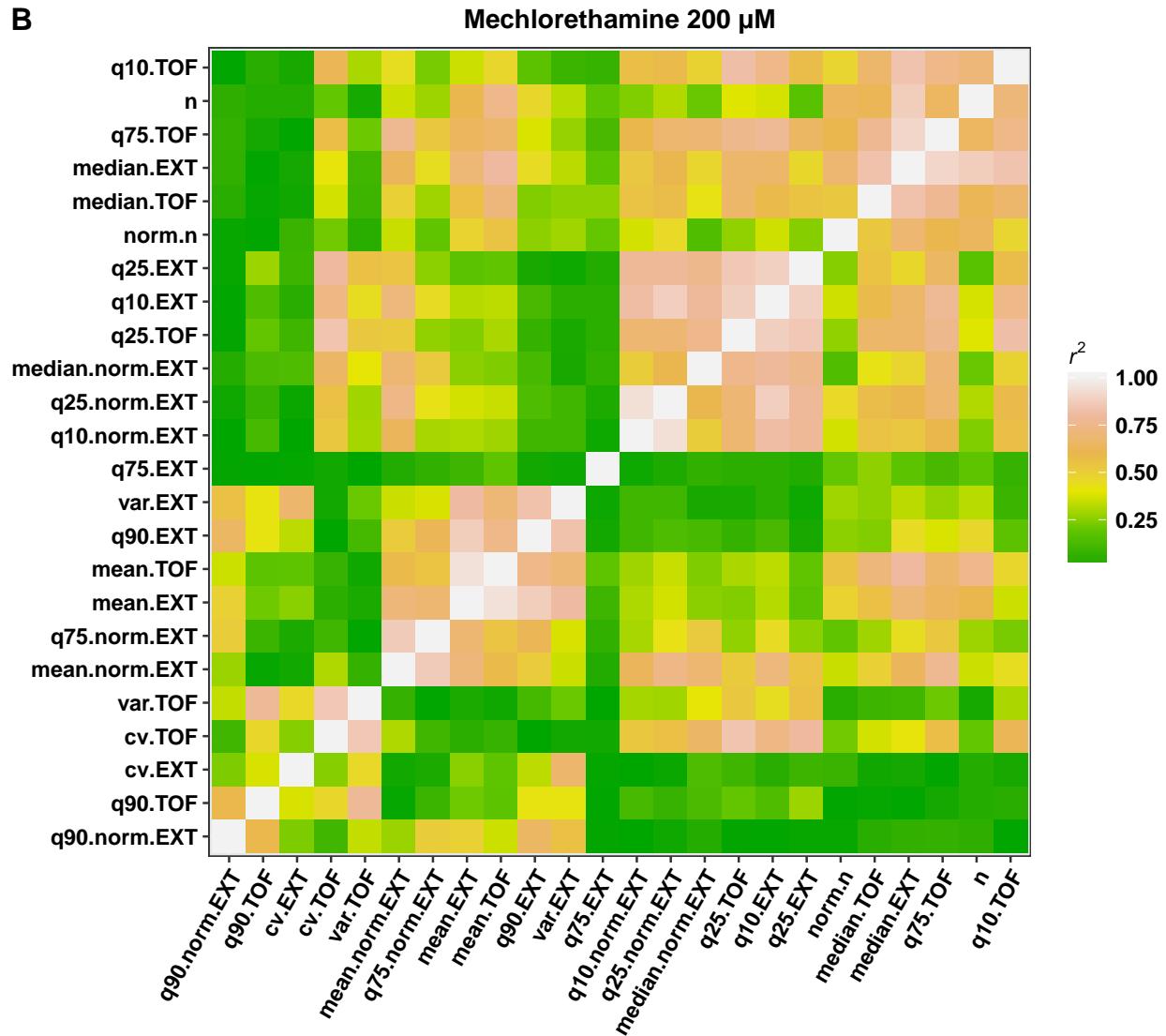


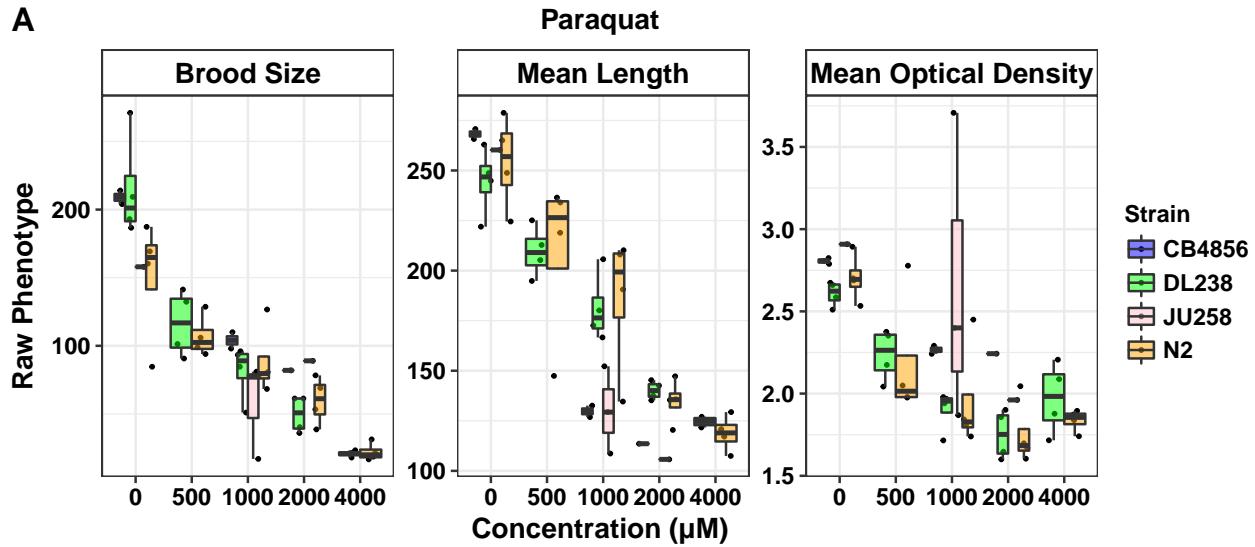
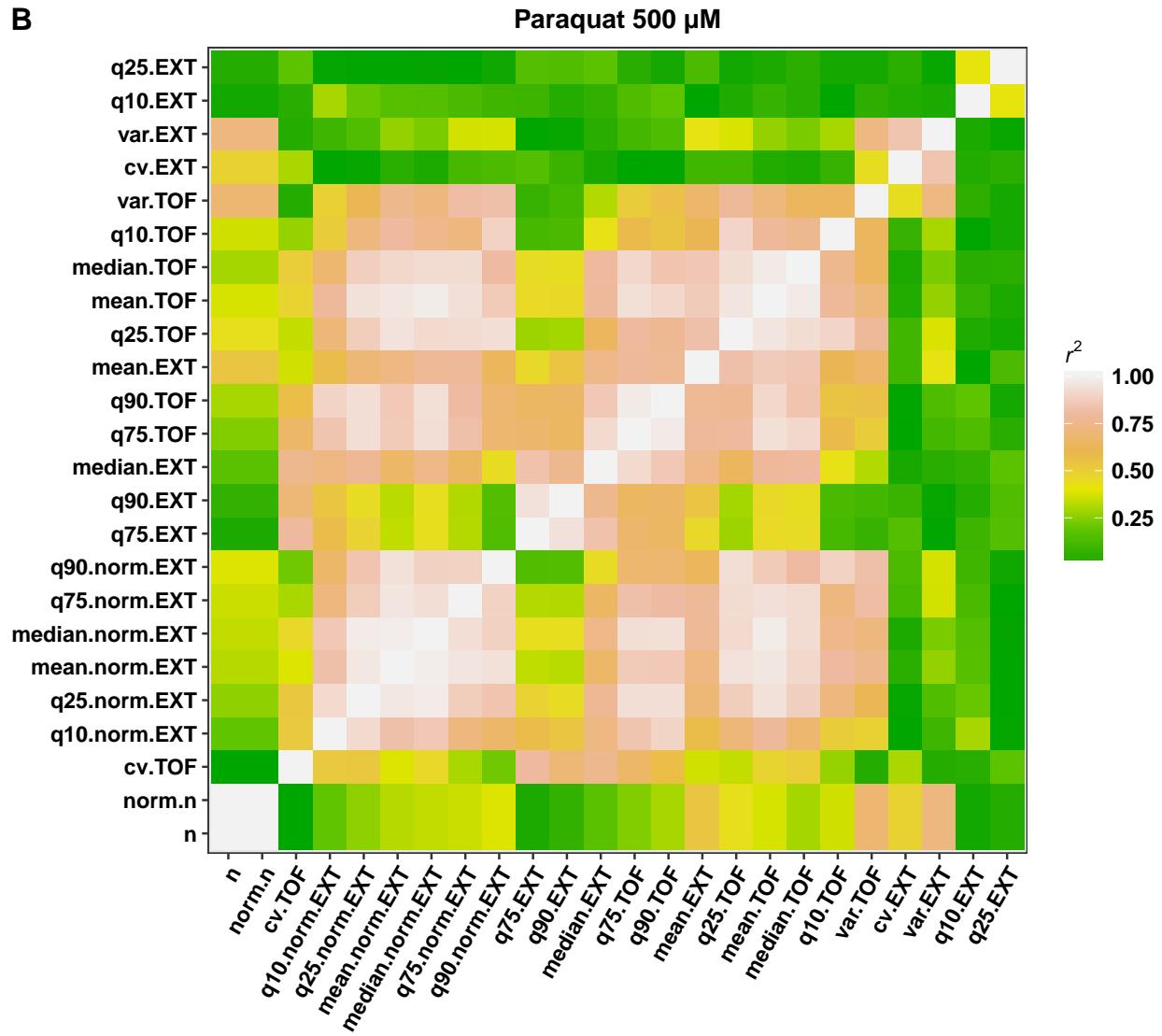
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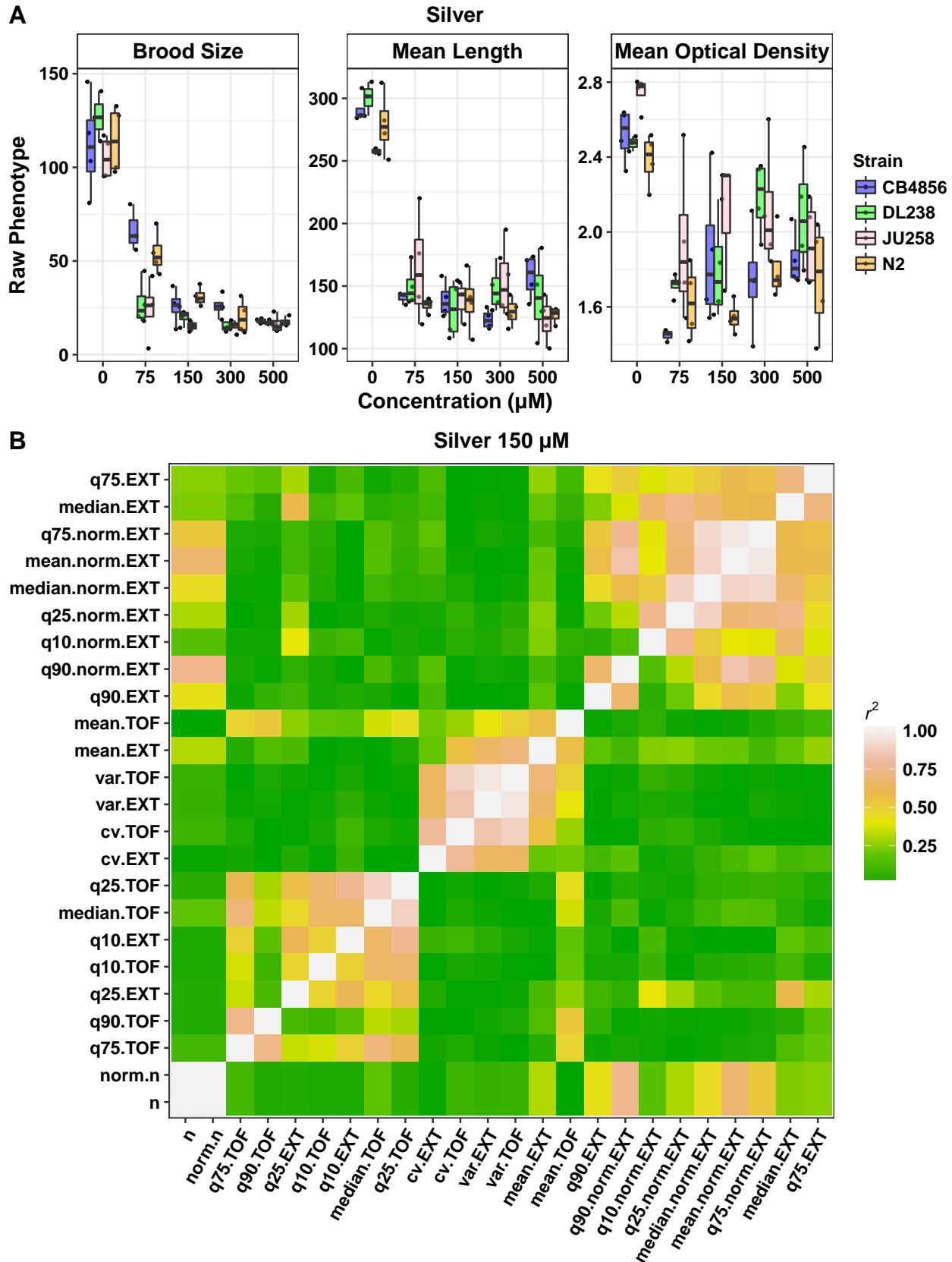
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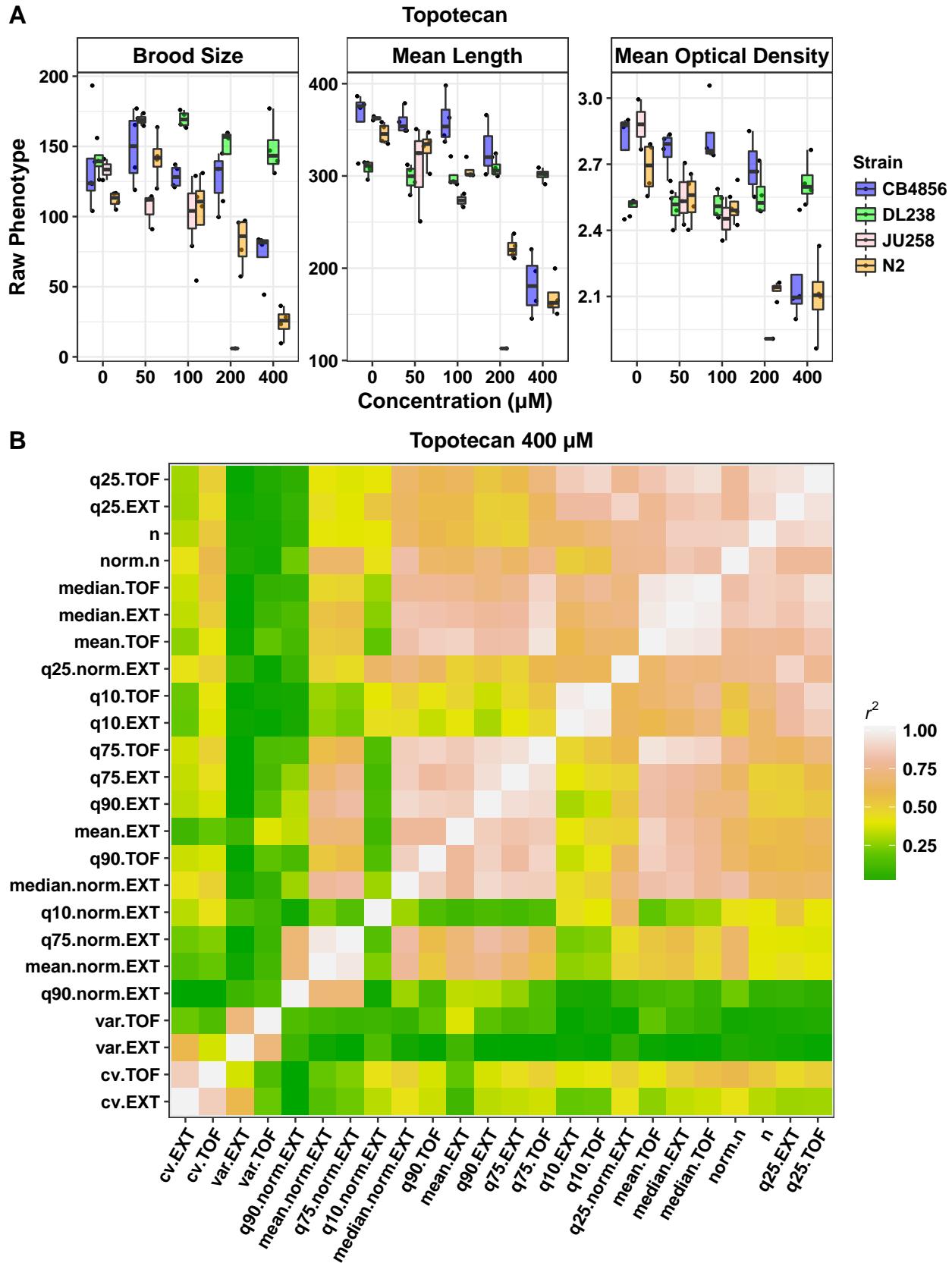
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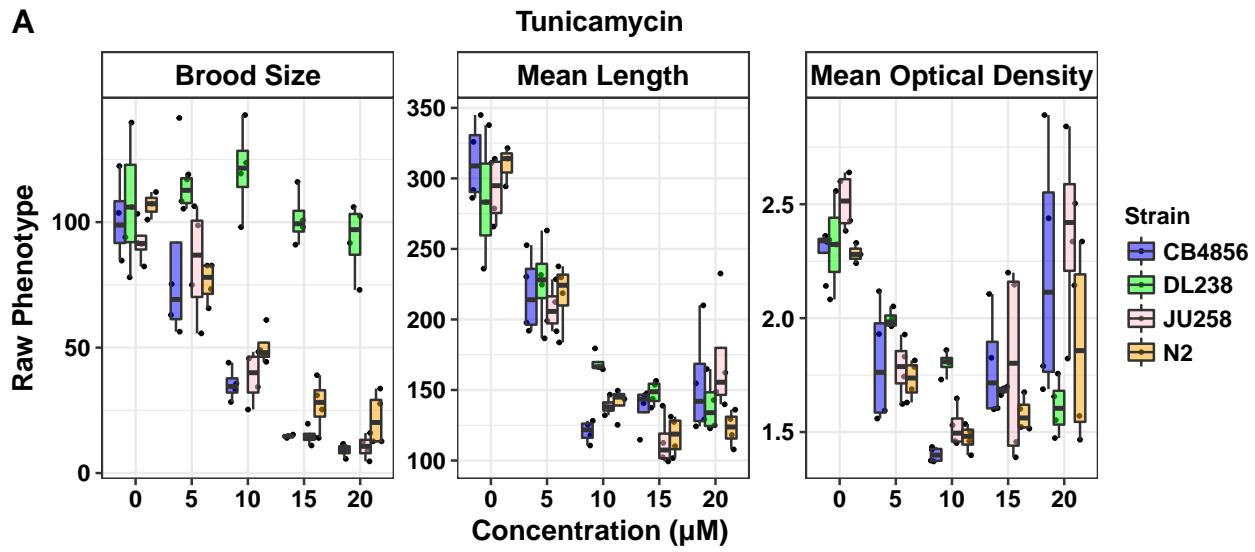
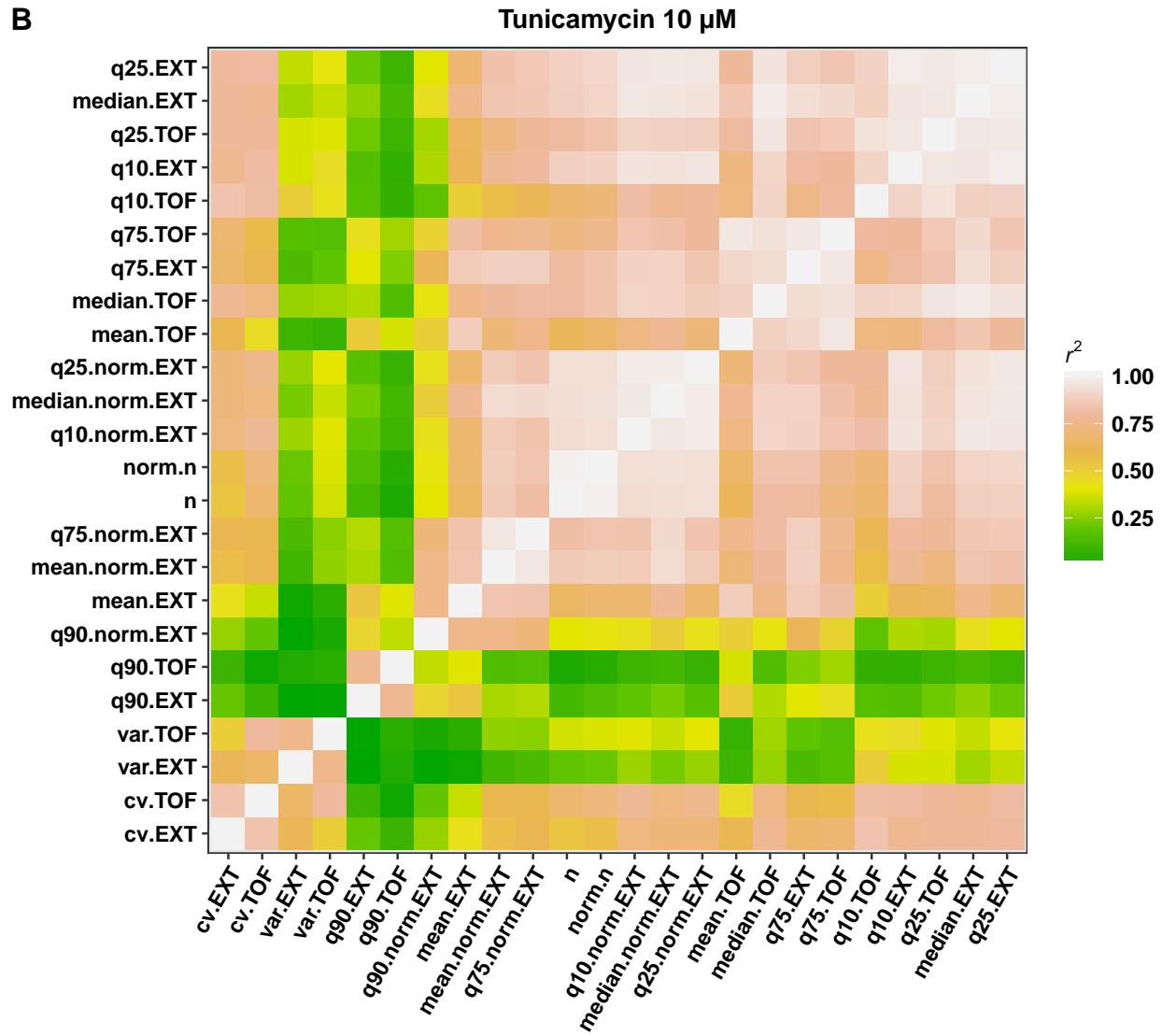
A**B**

A**B**

A**B**





A**B**

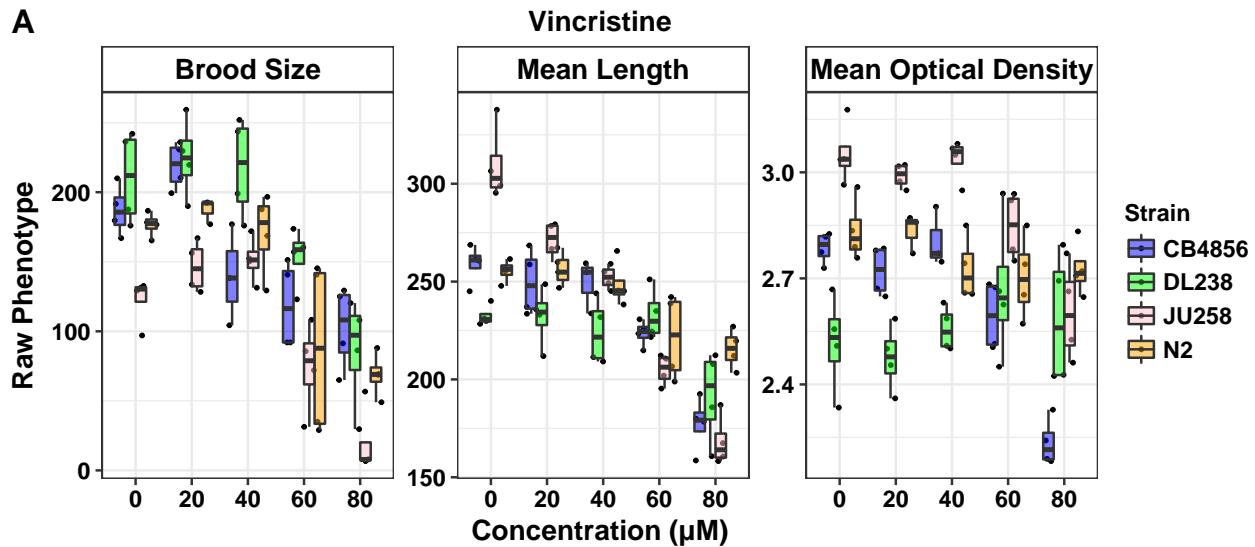
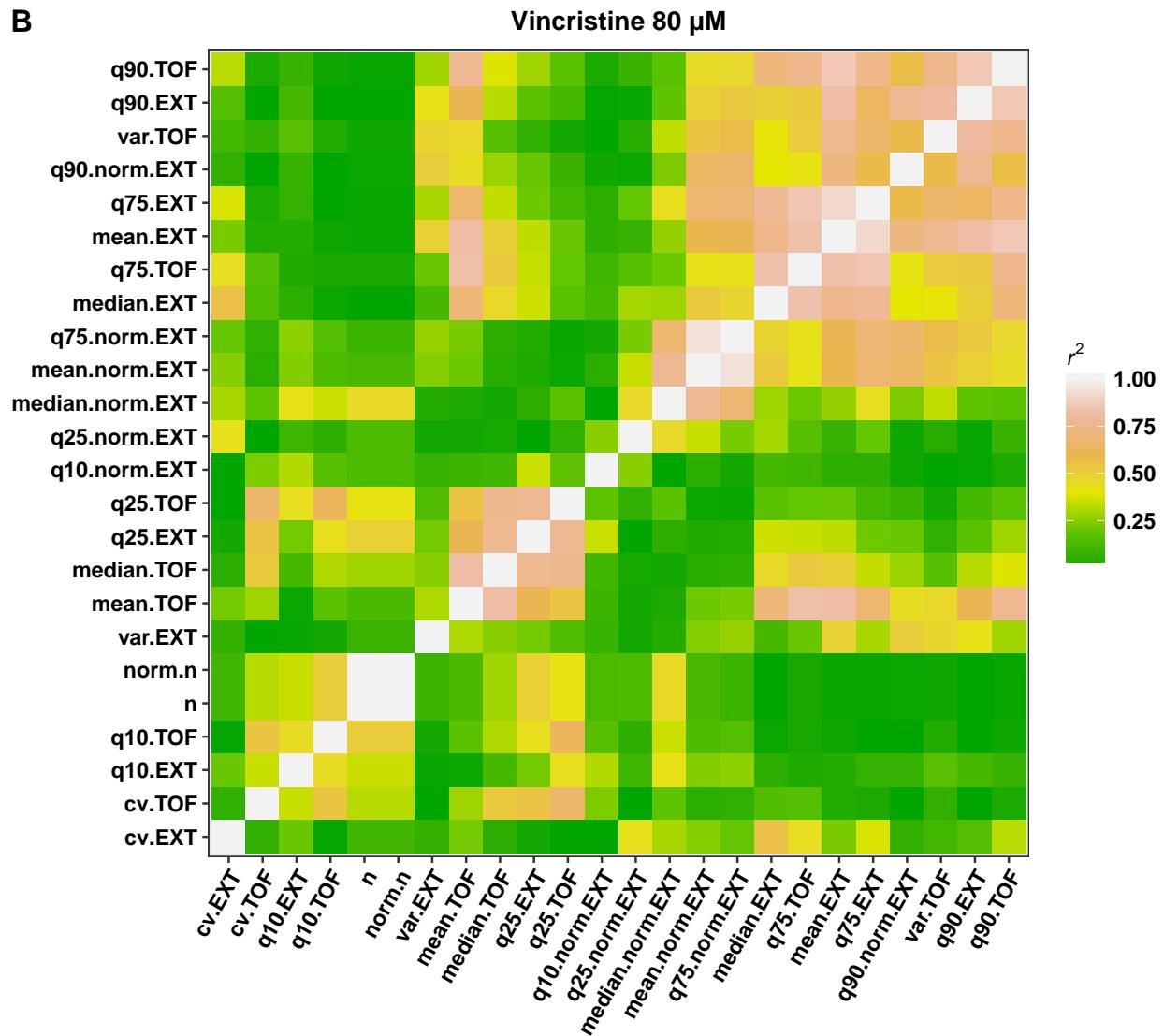
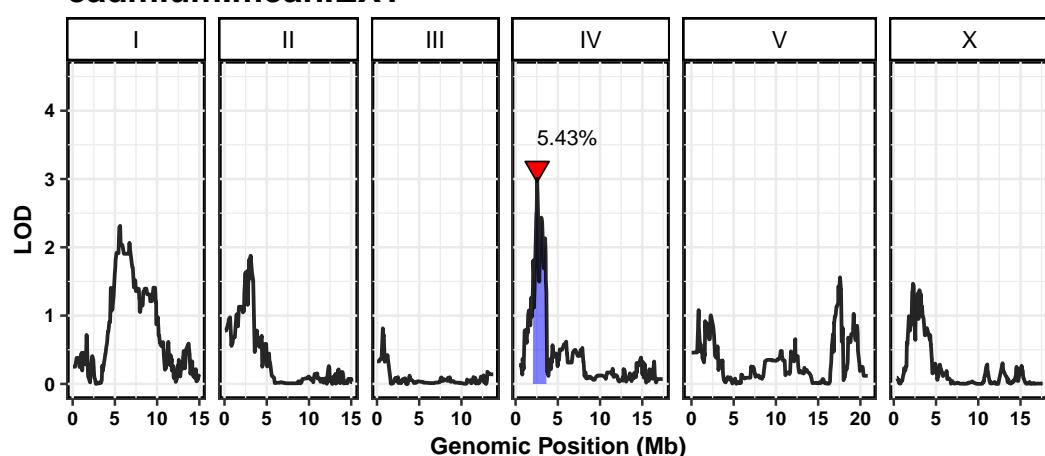
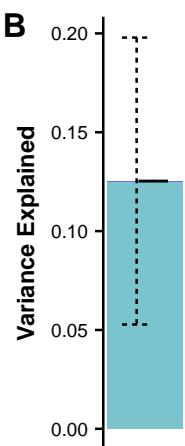
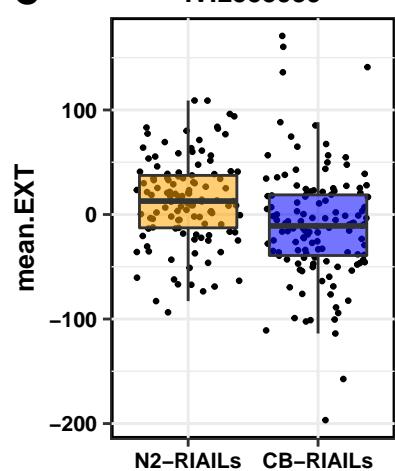
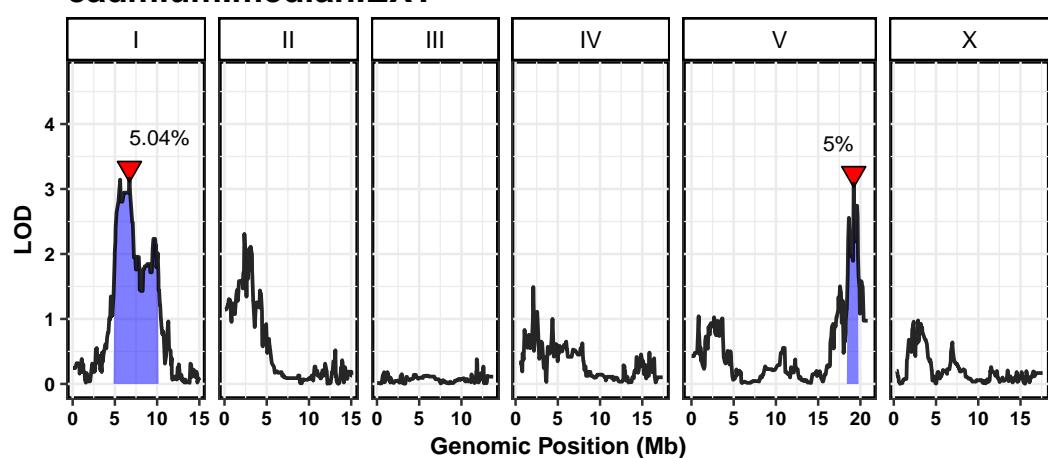
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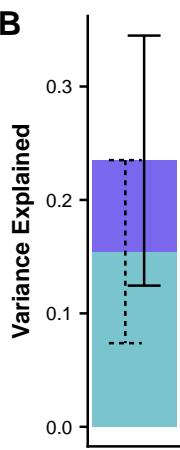
Figure S1 Dose-response and trait correlation estimates. **(A)** Phenotypic values for four divergent strains, CB4856 (blue), DL238 (green), JU258 (pink), and N2 (orange), in response to various concentrations of each toxin are plotted as Tukey box plots. Toxin responses for traits representing three distinct population parameters- brood size (norm.n), mean animal length (mean.TOF), and mean optical density (mean.norm.EXT) are shown. The x-axis indicates either the control (water or DMSO) or the concentration (μM) of the toxin, and the y-axis shows the raw phenotypic value for each trait. **(B)** Correlation coefficients (r^2) between all pairwise combinations of traits for the indicated concentration of the toxin are plotted as a heat map. Traits are labeled on the x- and y-axes, organized by hierarchical clustering of the correlation matrix for each toxin. Colors represent correlation coefficients increasing from green to yellow to pink to white.

A cadmium.mean.EXT**B****C IV:2555939**

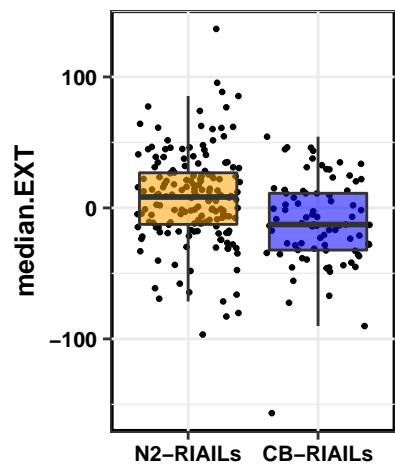
A cadmium.median.EXT



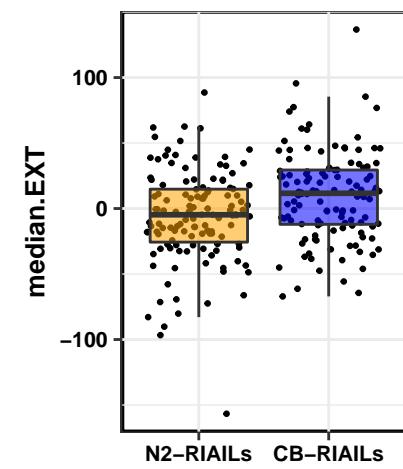
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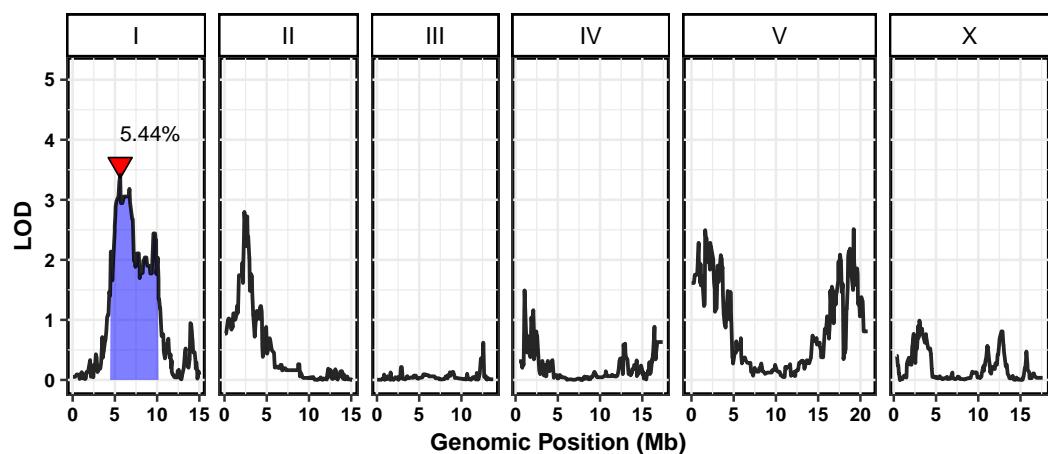
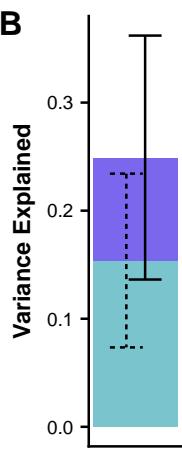
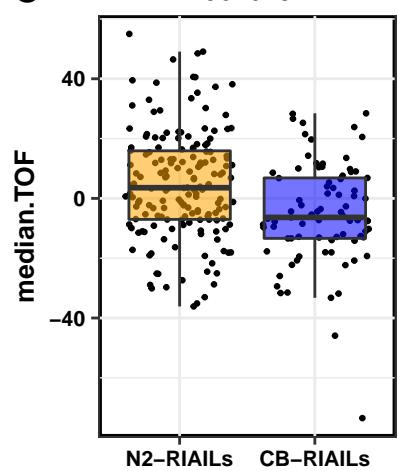


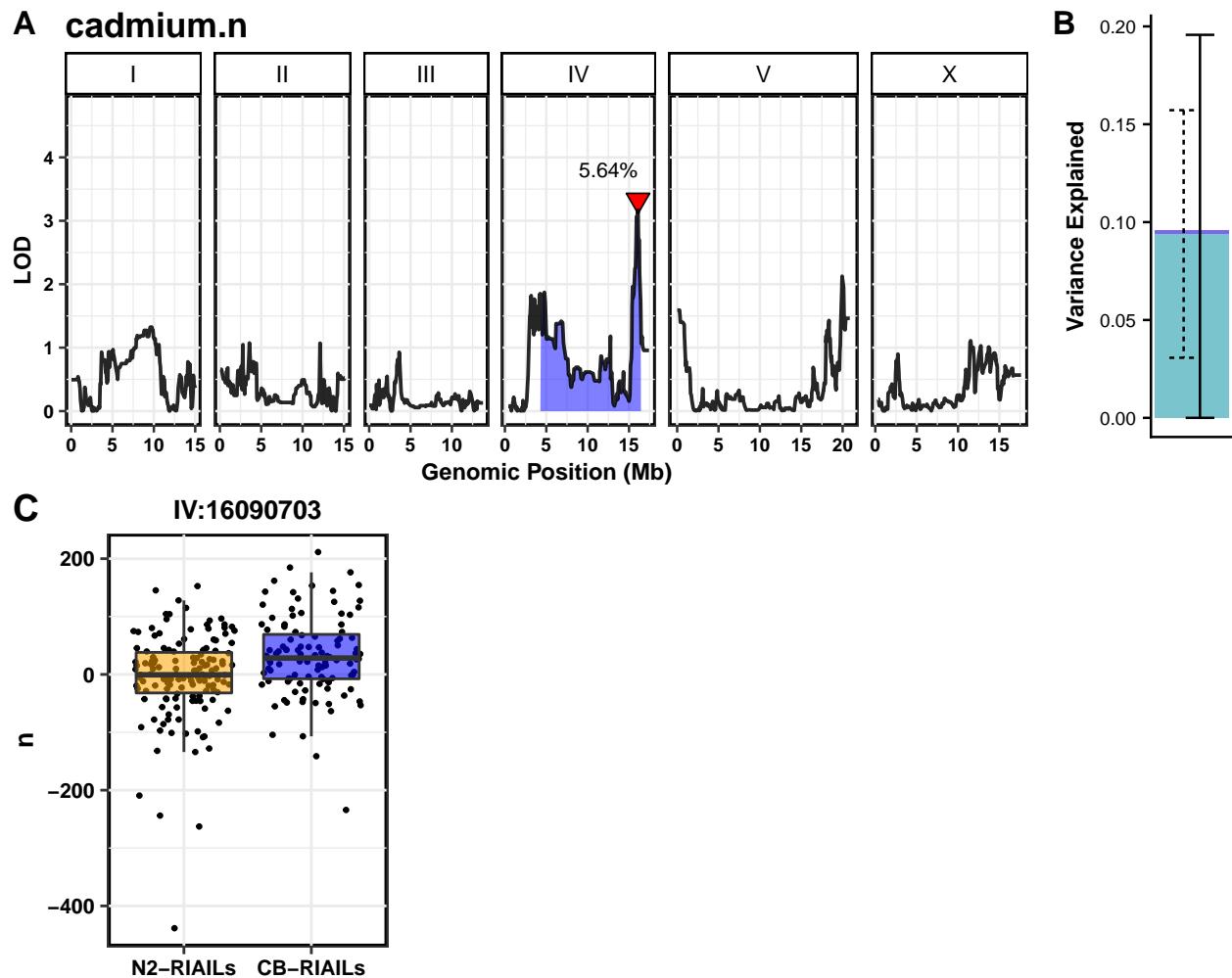
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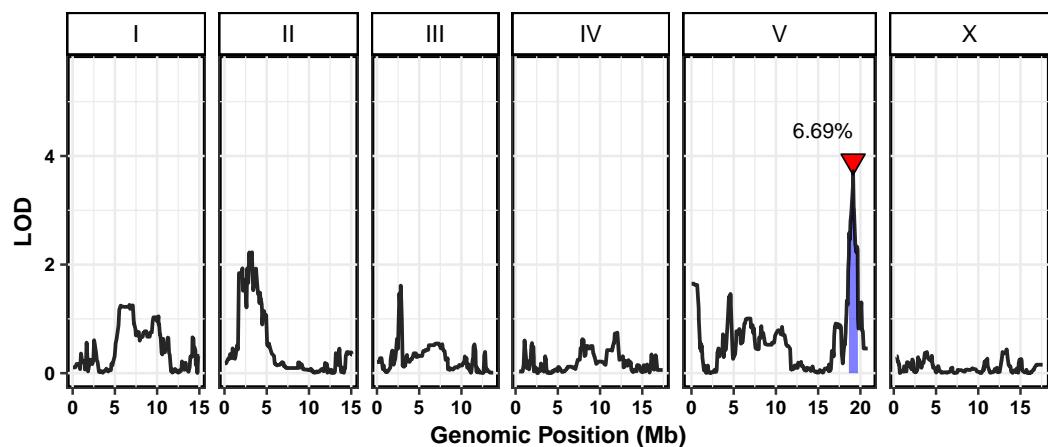
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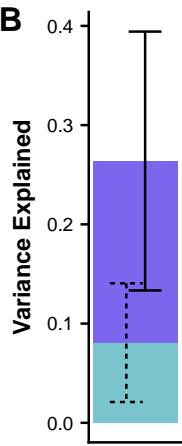
A cadmium.median.TOF**B****C I:5626781**



A cadmium.q10.TOF

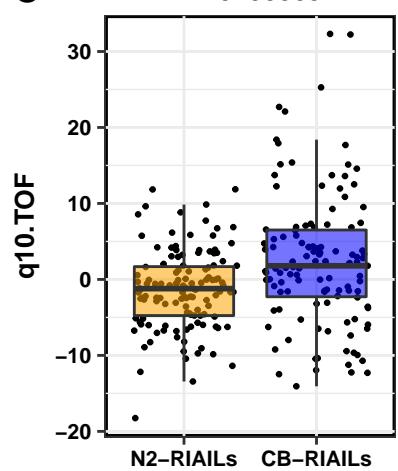


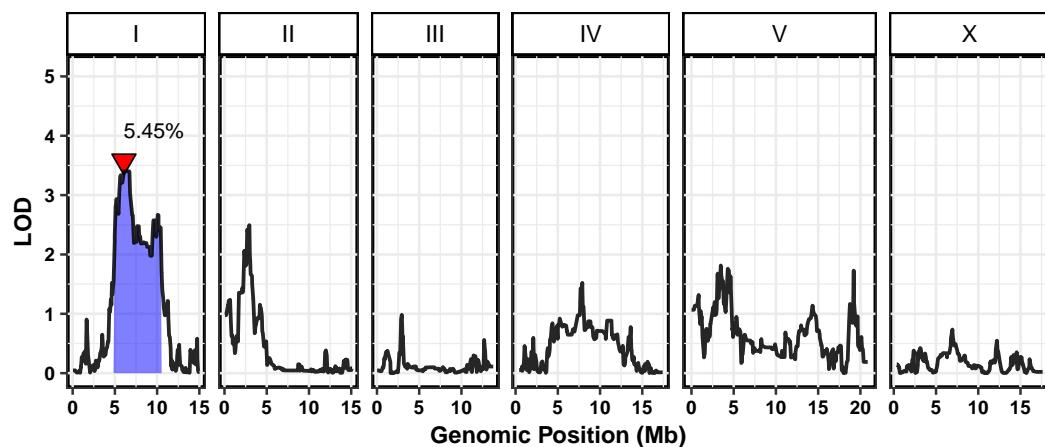
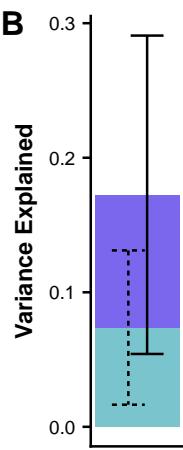
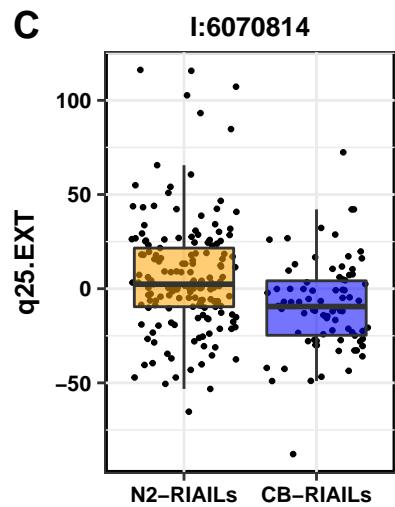
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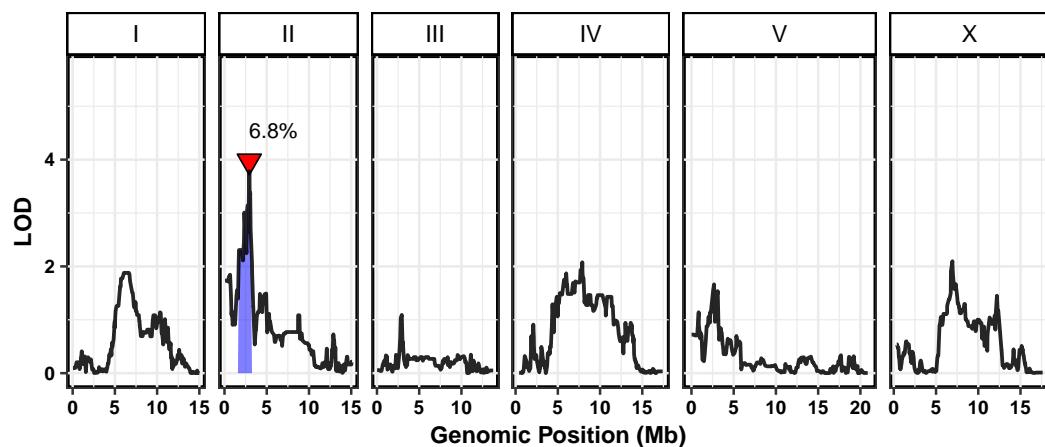
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V:19135309

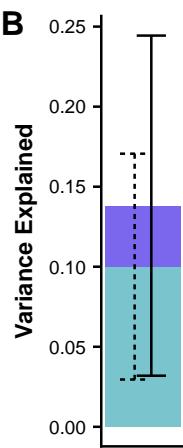


A cadmium.q25.EXT**B****C**

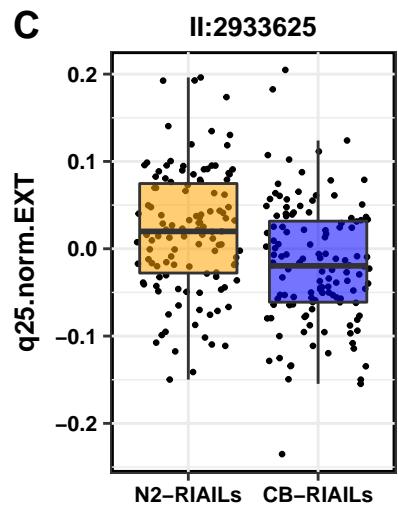
A cadmium.q25.norm.EXT



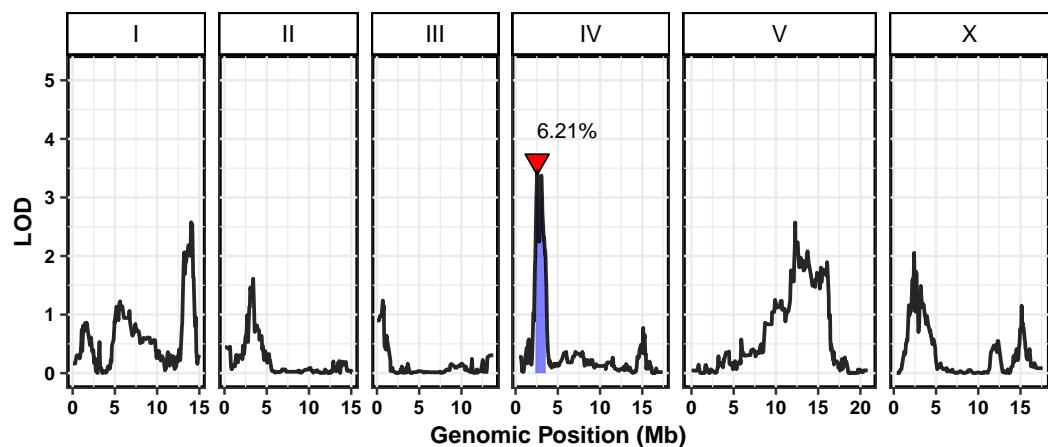
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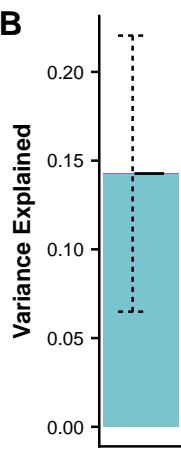
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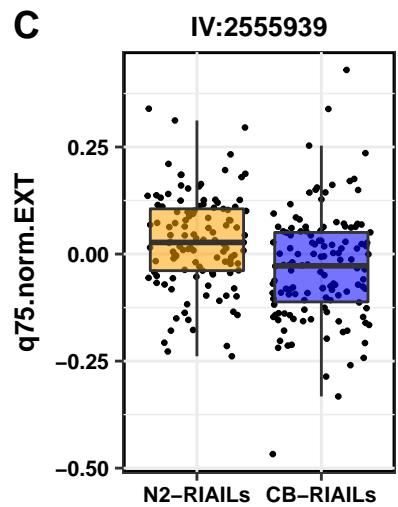
A cadmium.q75.norm.EXT



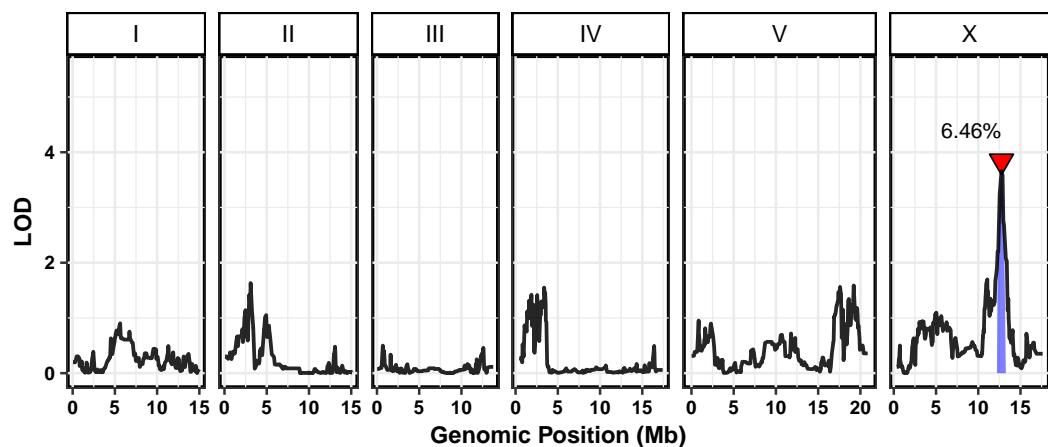
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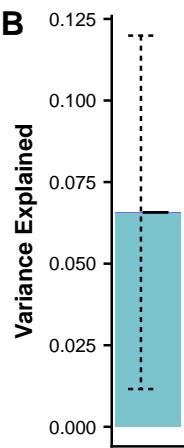
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A cadmium.q75.TOF

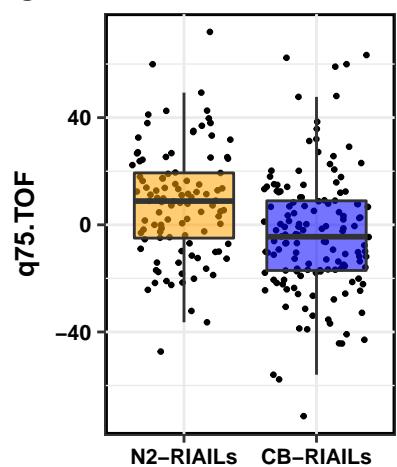


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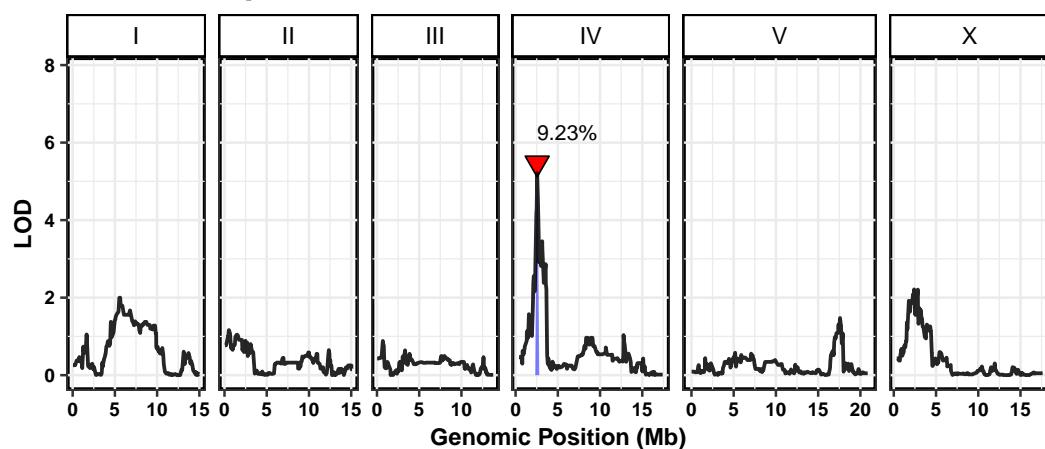


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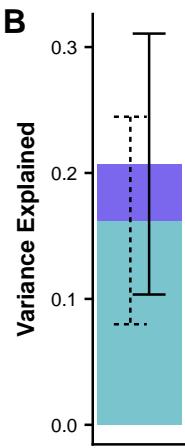
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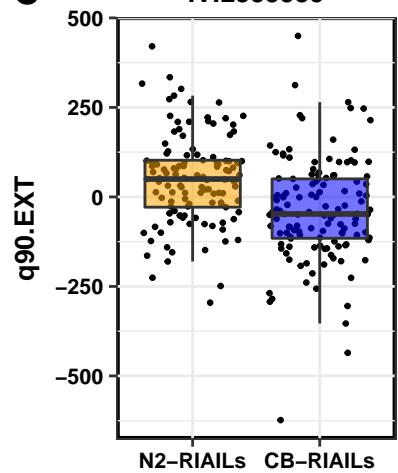
A cadmium.q90.EXT



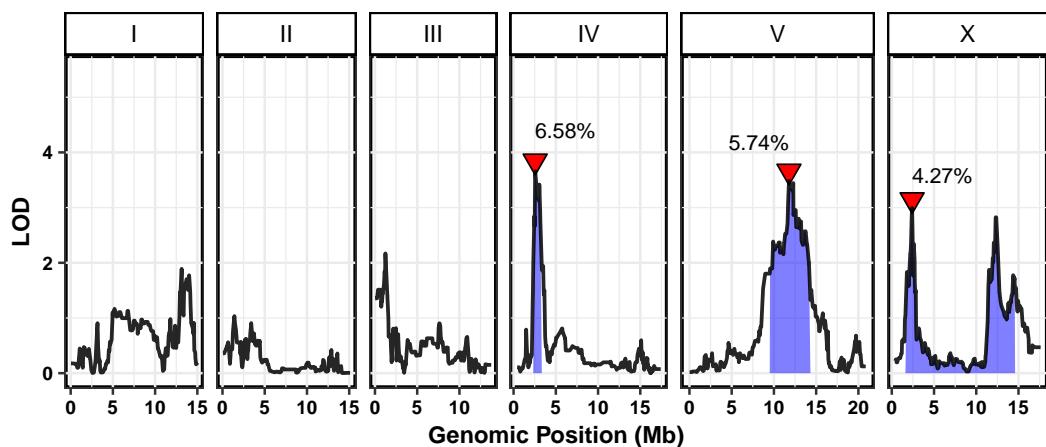
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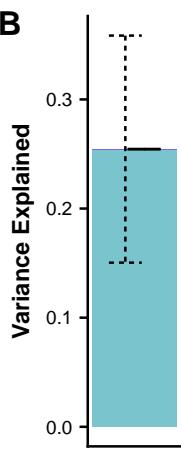
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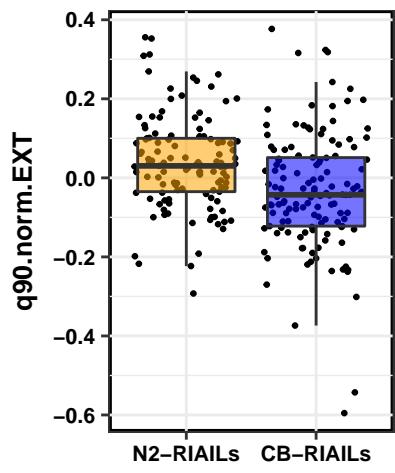
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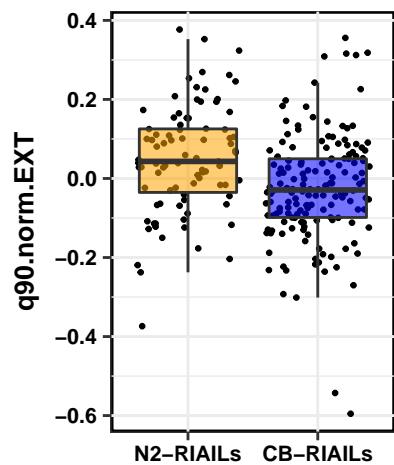
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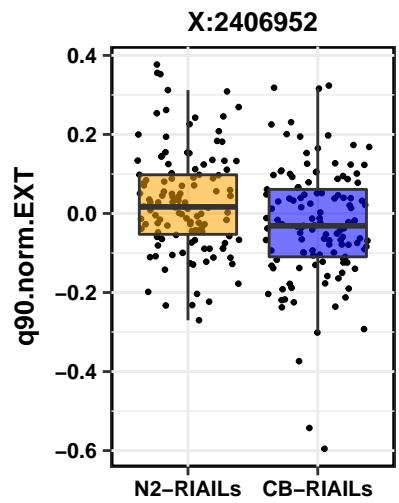


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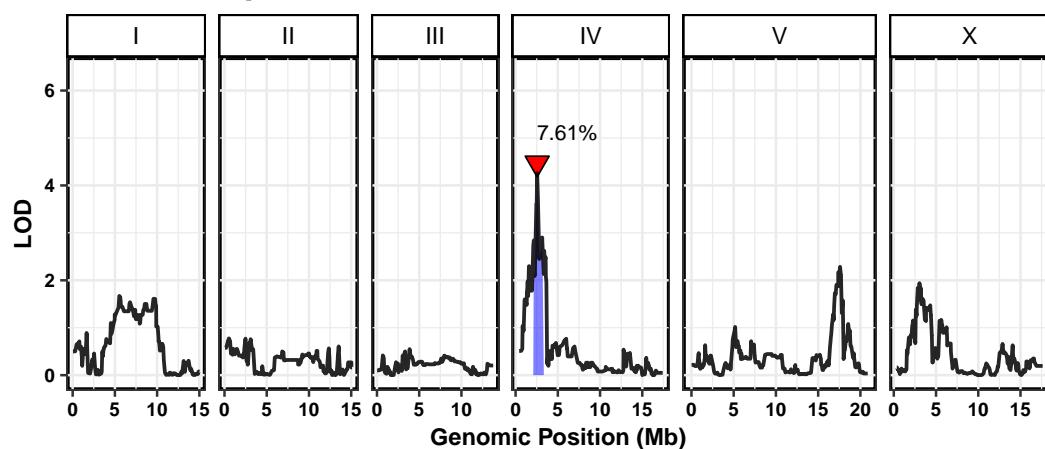


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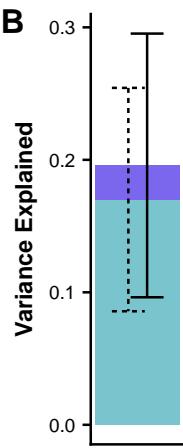




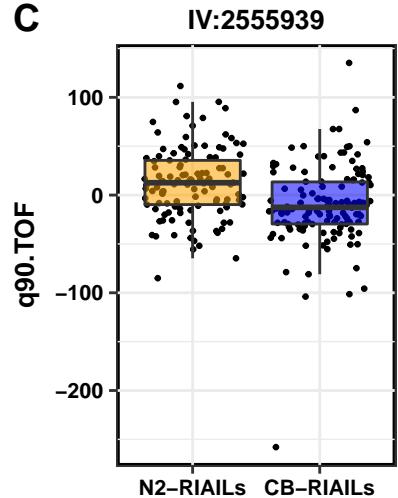
A cadmium.q90.TOF

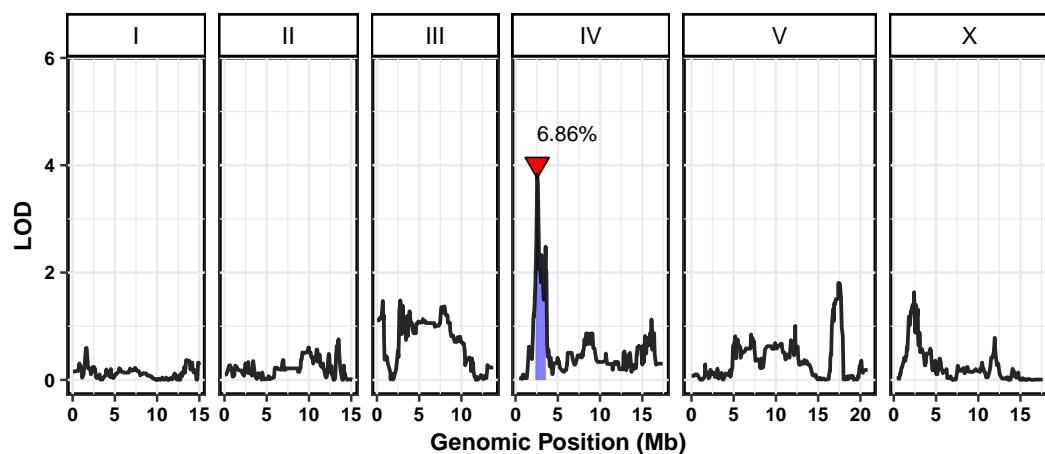
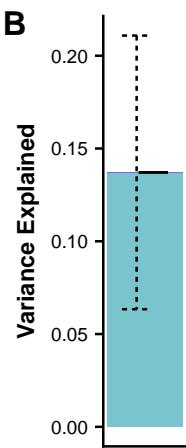
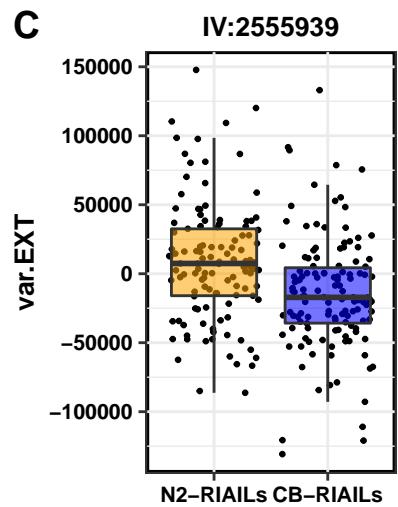


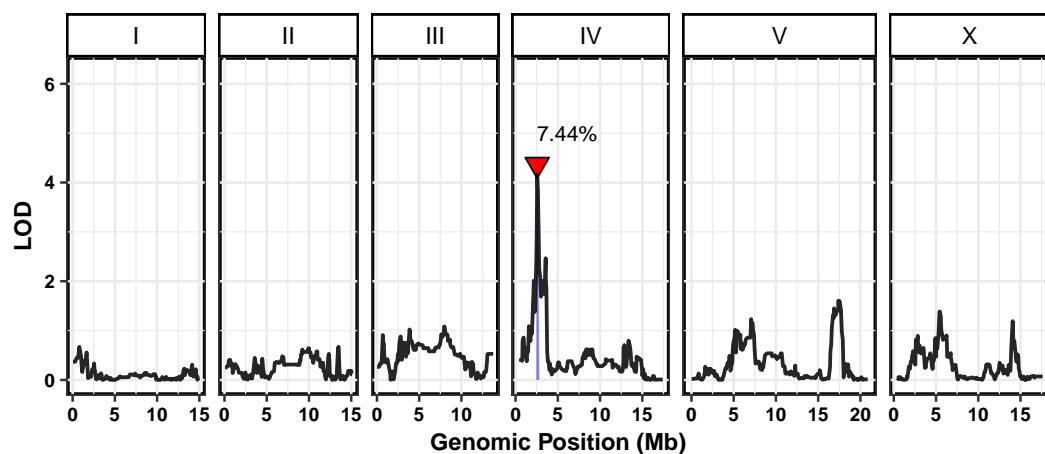
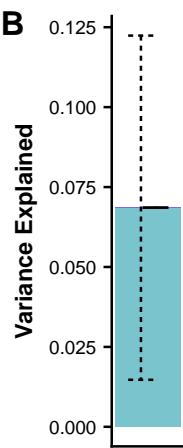
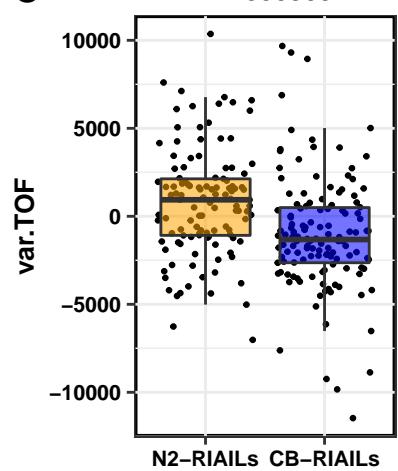
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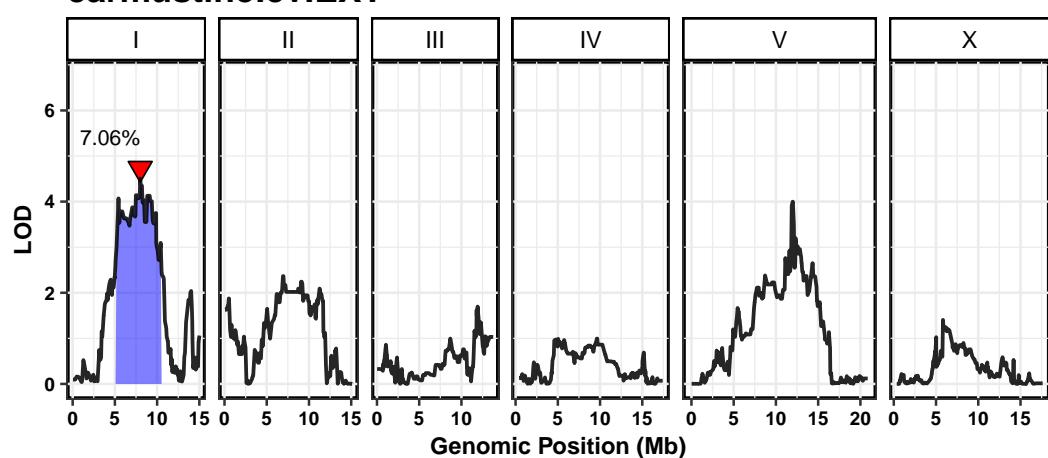
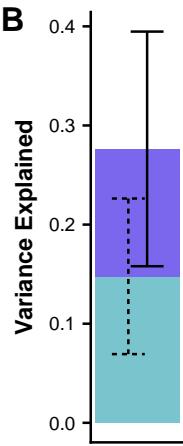
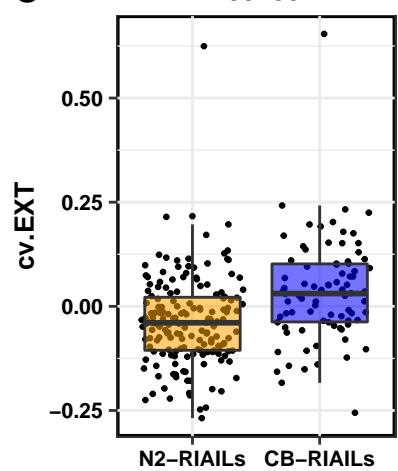


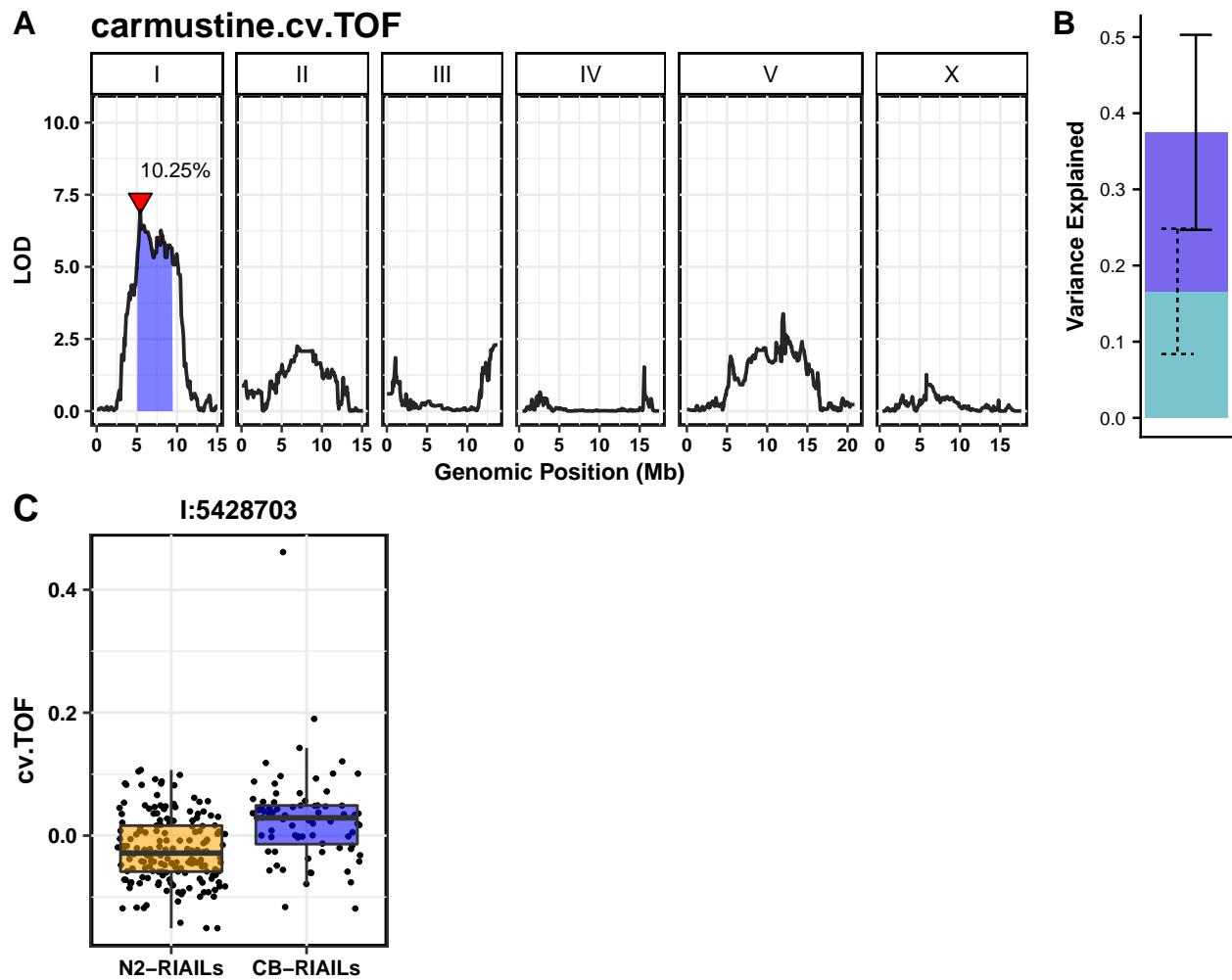
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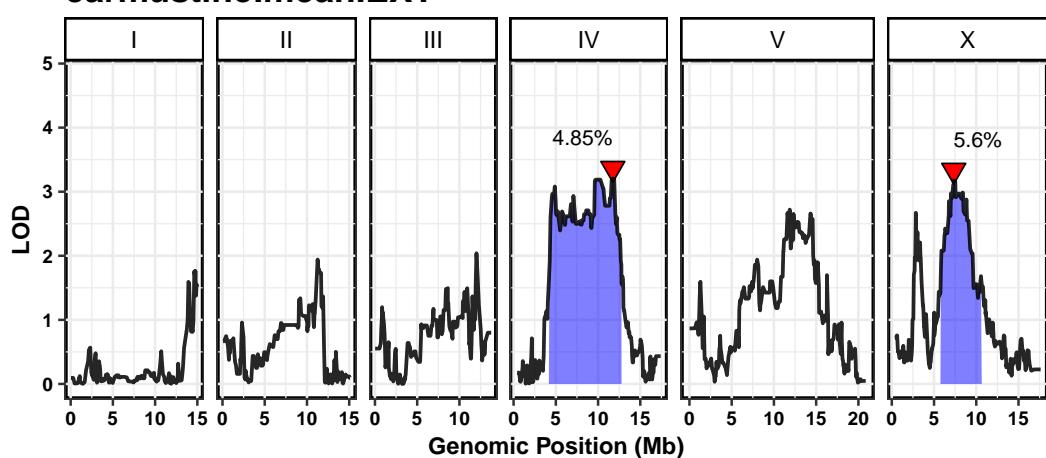
A cadmium.var.EXT**B****C**

A cadmium.var.TOF**B****C IV:2555939**

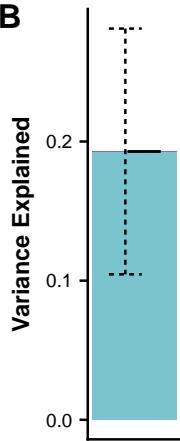
A carmustine.cv.EXT**B****C I:7997352**



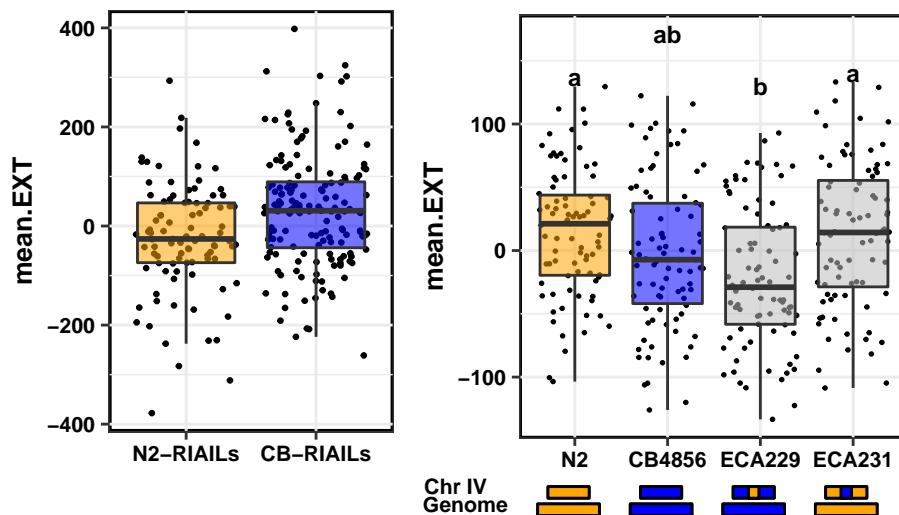
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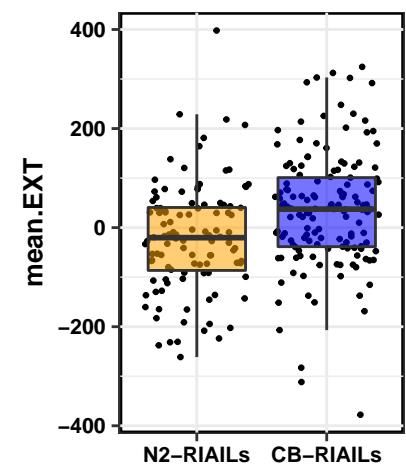
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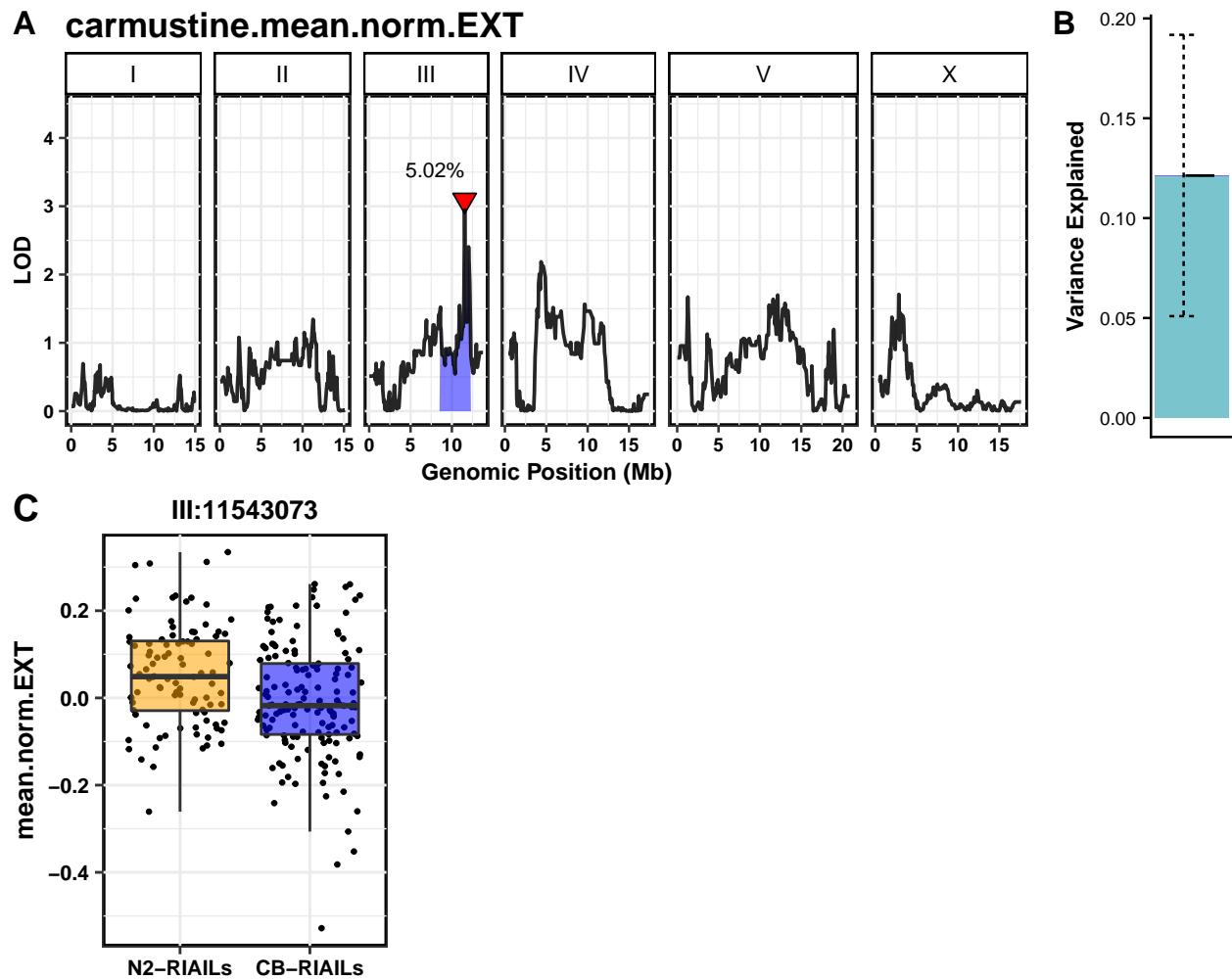


C IV:11747270

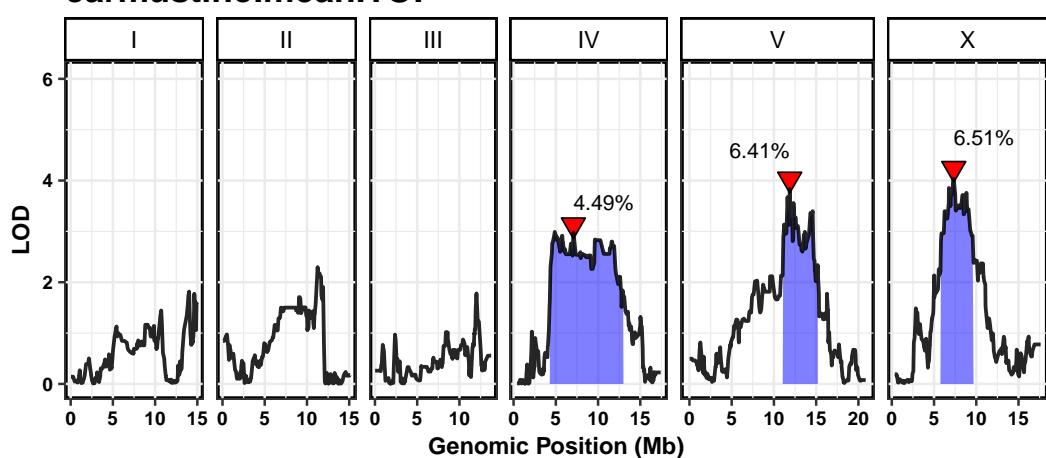


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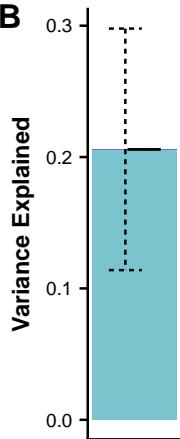




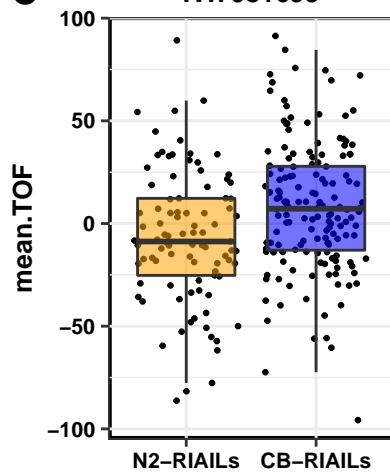
A carmustine.mean.TOF



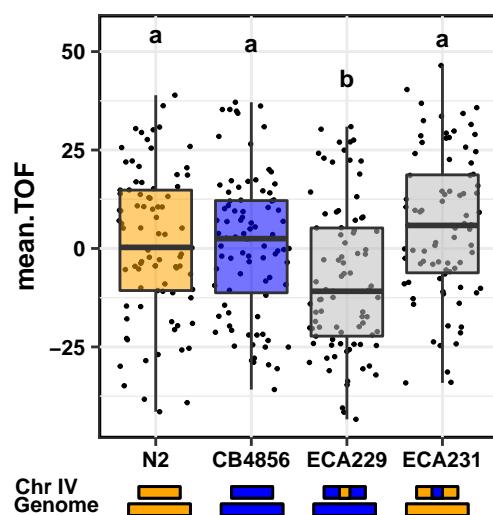
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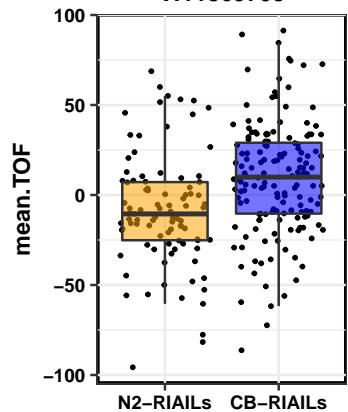
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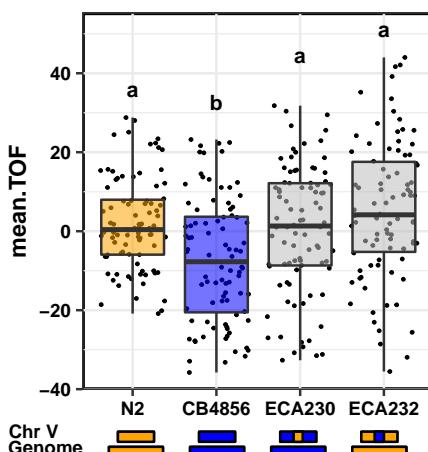
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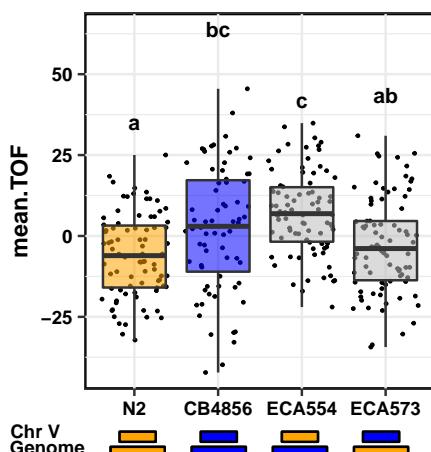
V:11869708

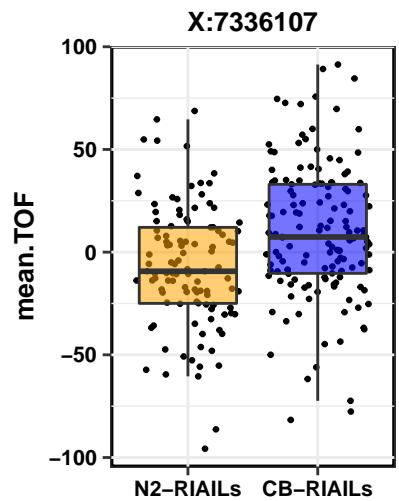


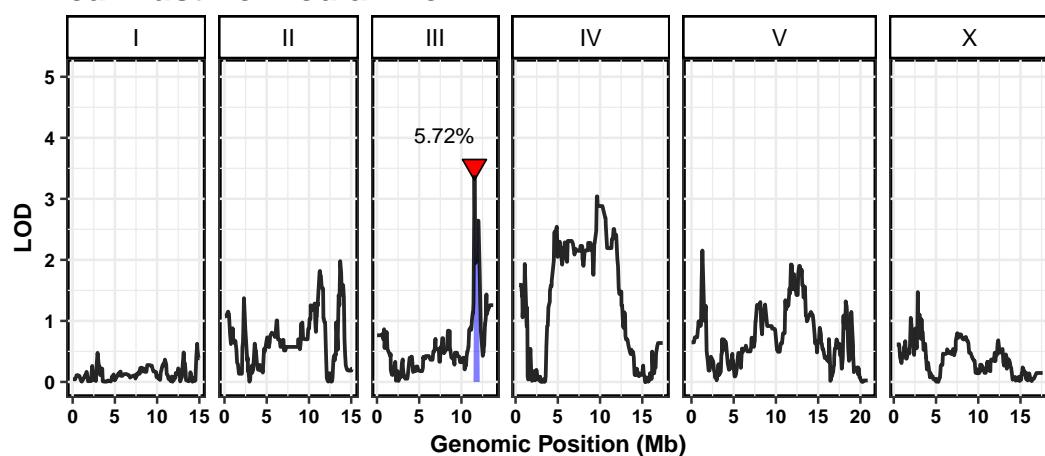
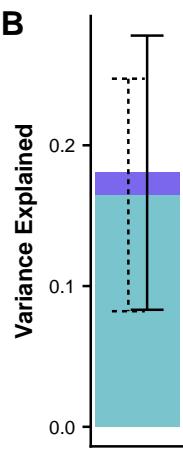
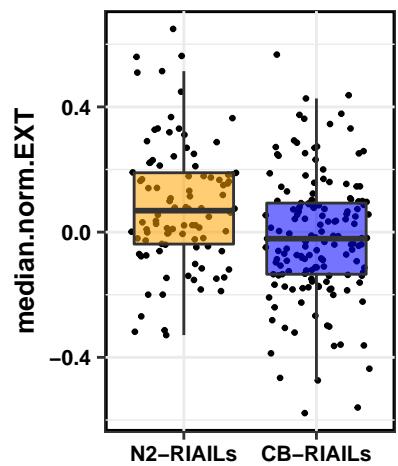
NIL – Miscellaneous

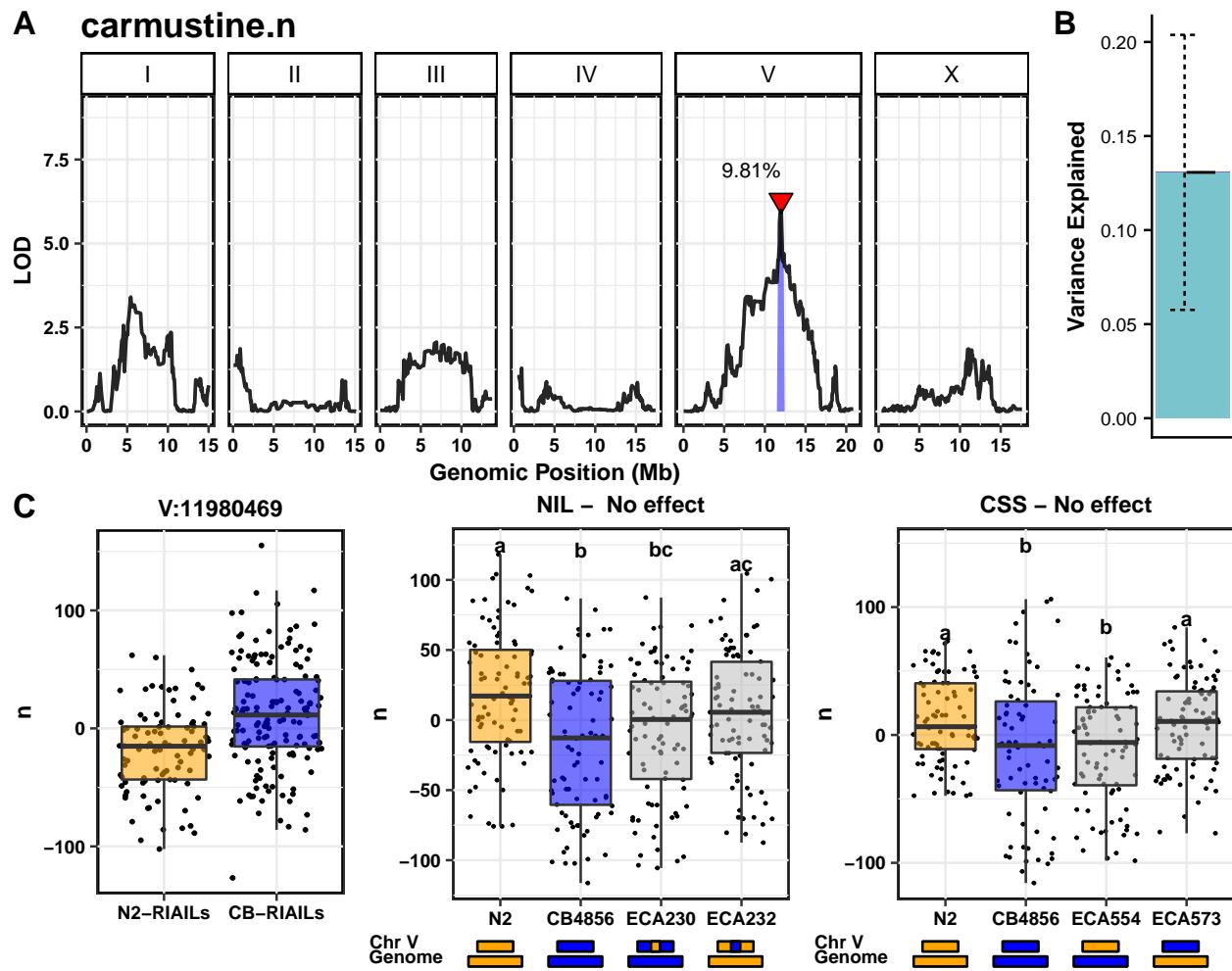


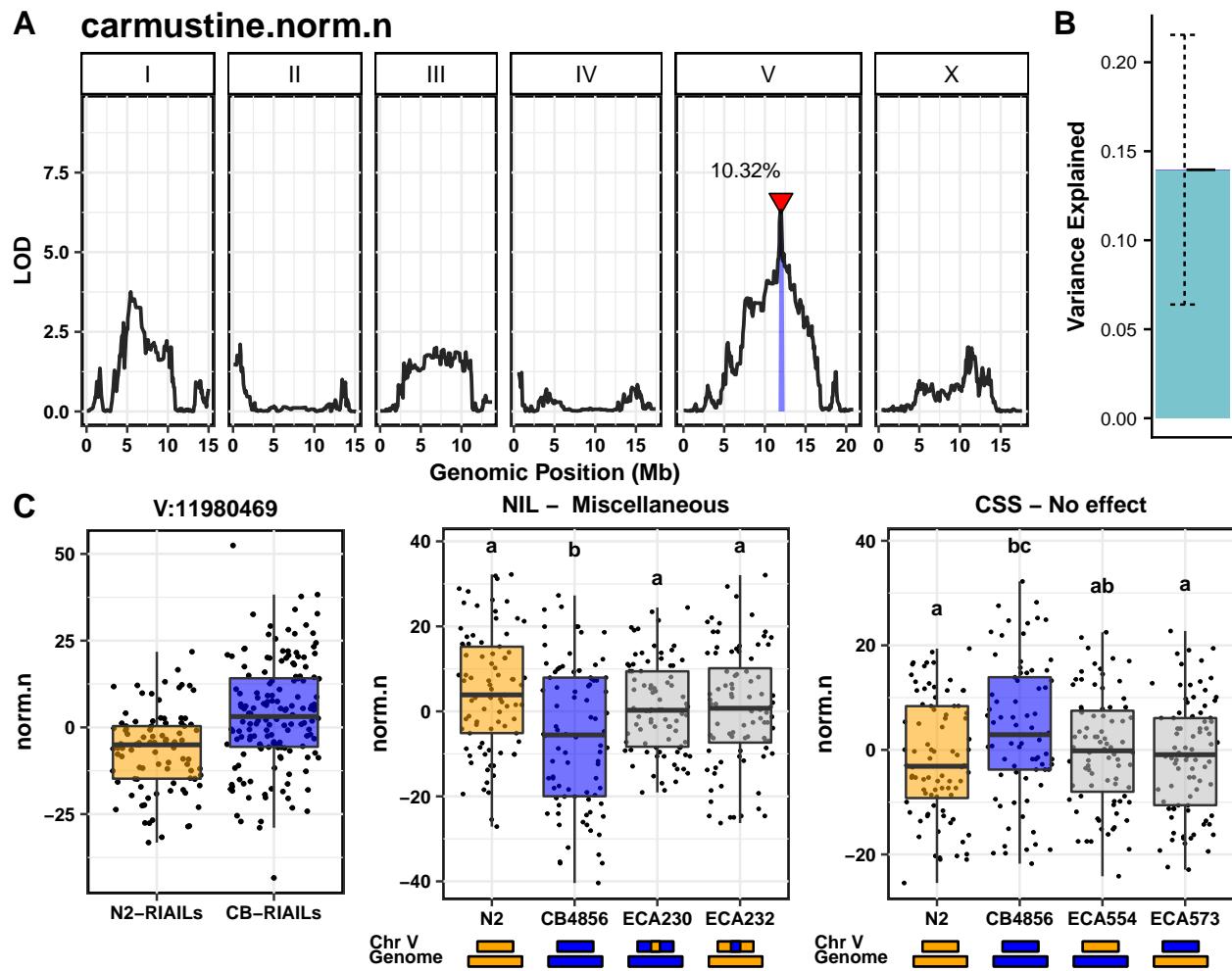
CSS – No effect



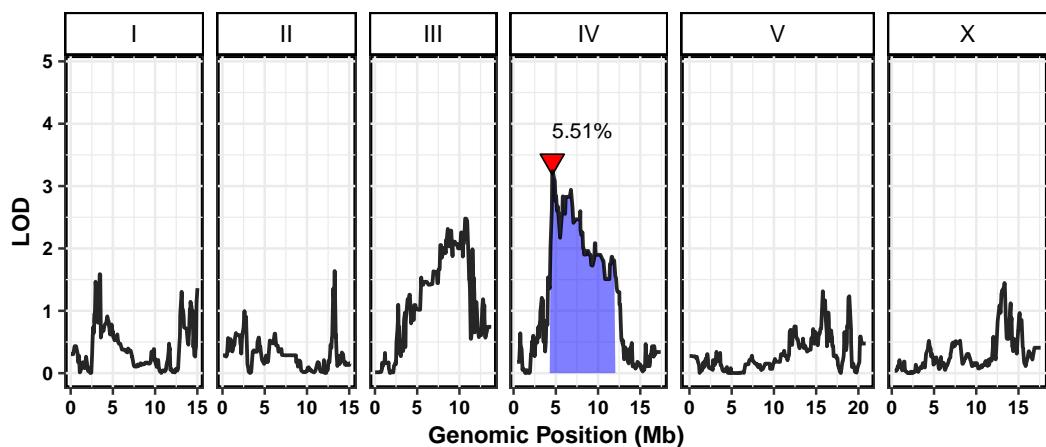


A carmustine.median.norm.EXT**B****C III:11543073**

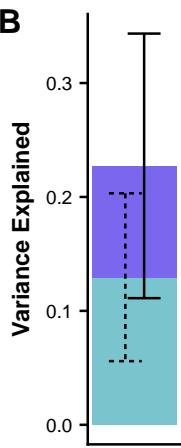




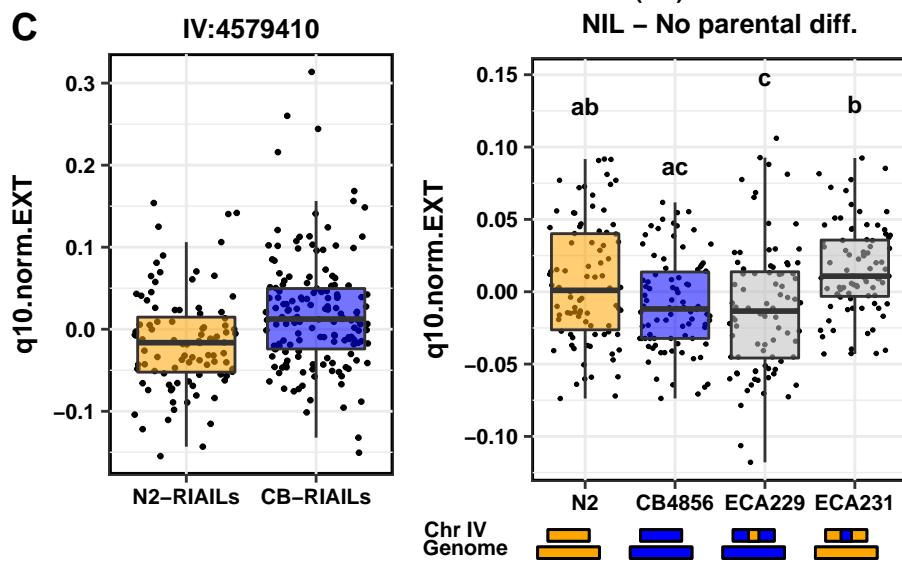
A carmustine.q10.norm.EXT



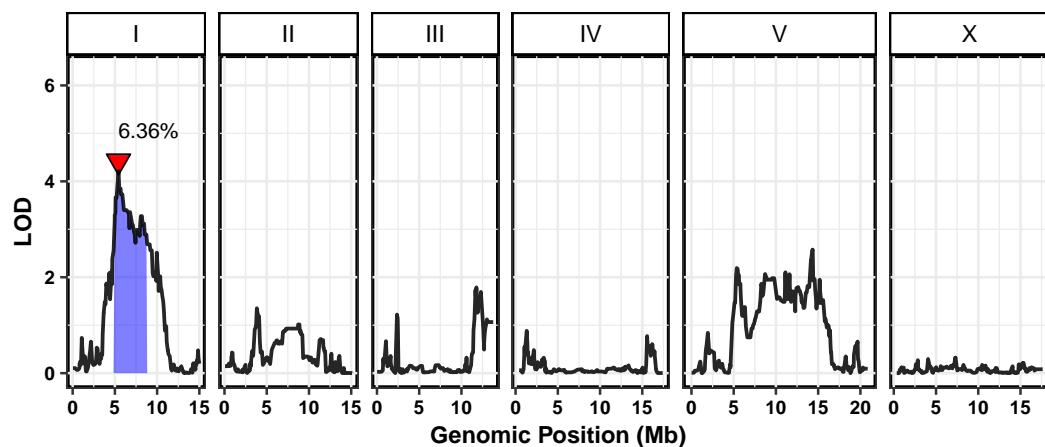
B



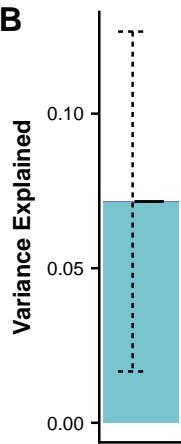
C IV:4579410



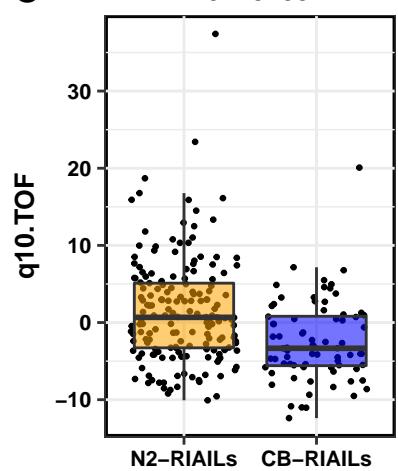
A carmustine.q10.TOF



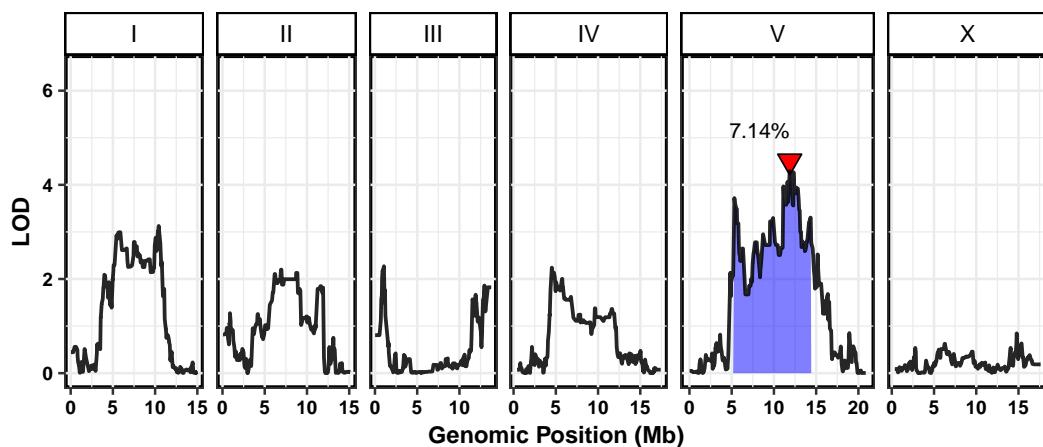
B



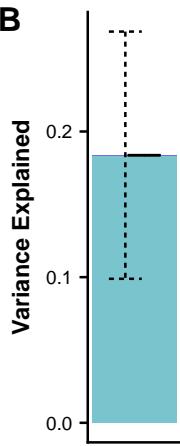
C I:5428703



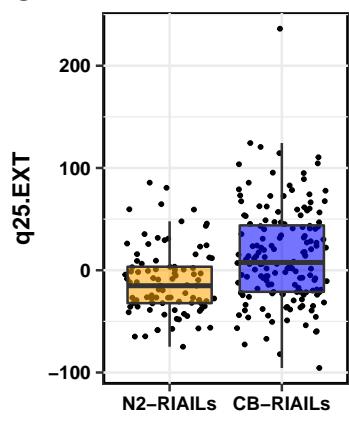
A carmustine.q25.EXT



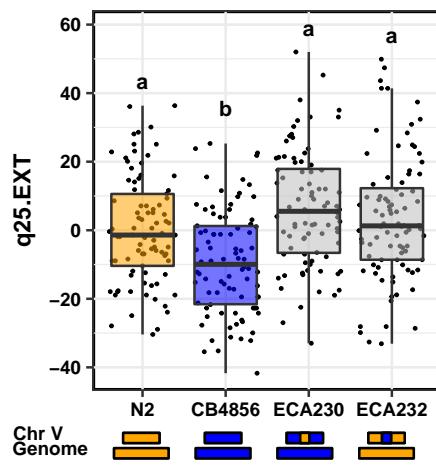
B



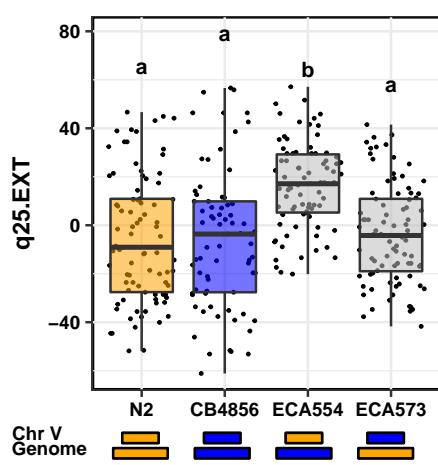
C V:11869708



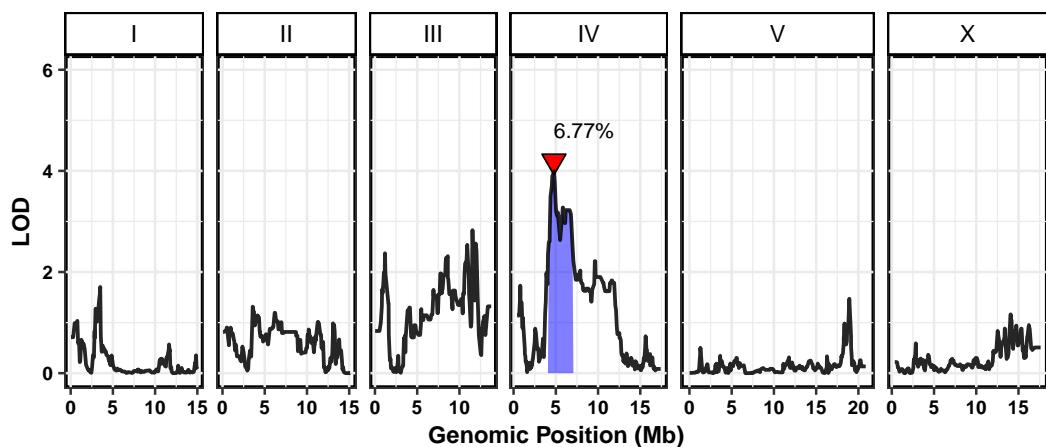
NIL – Miscellaneous



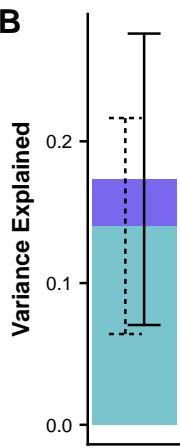
CSS – No parental diff.



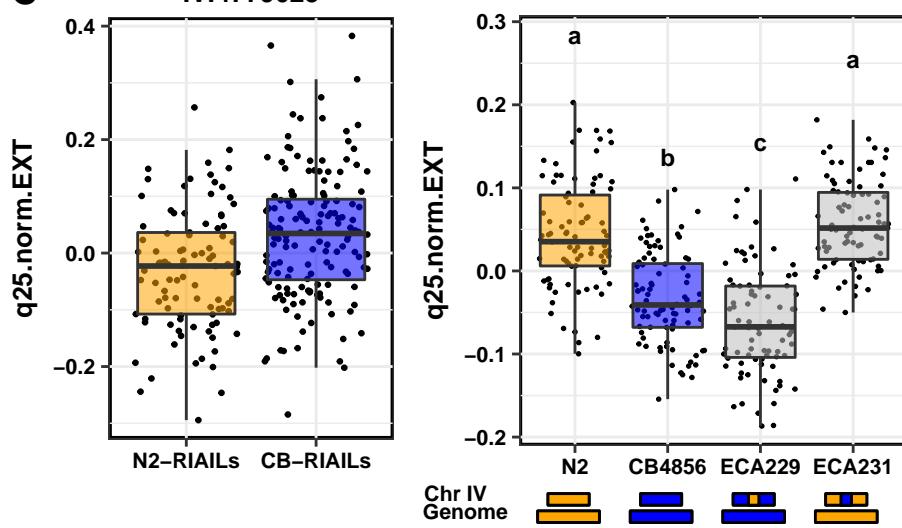
A carmustine.q25.norm.EXT



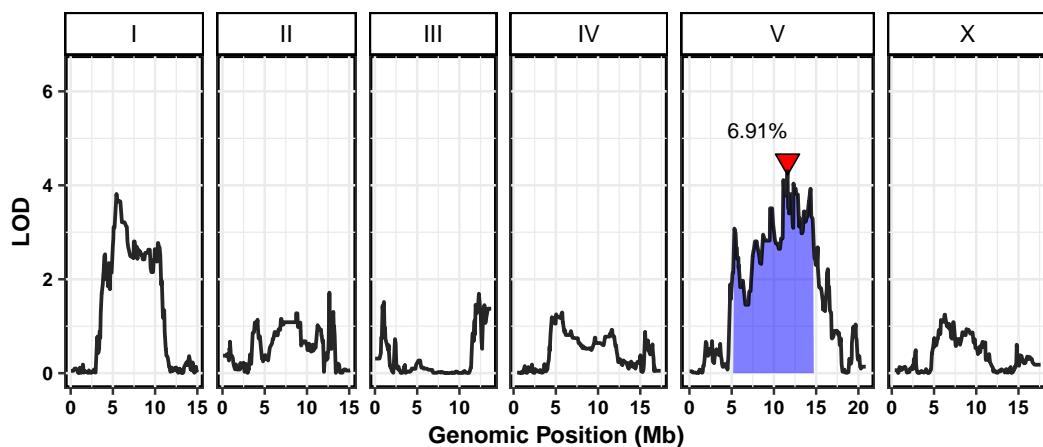
B



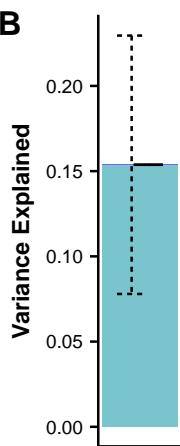
C IV:4779025



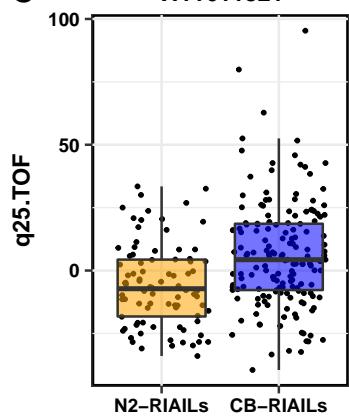
A carmustine.q25.TOF



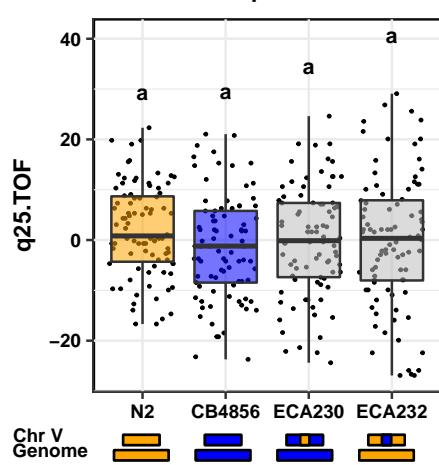
B



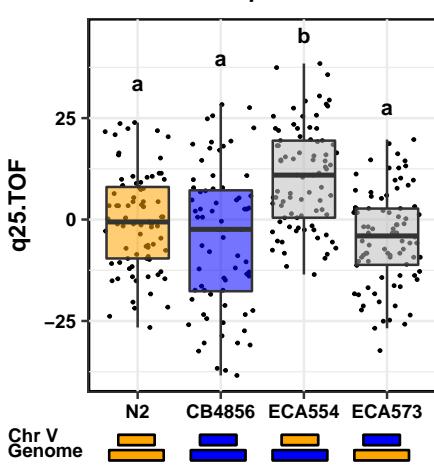
C V:11611821



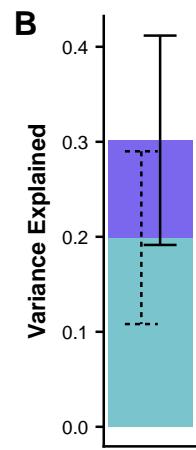
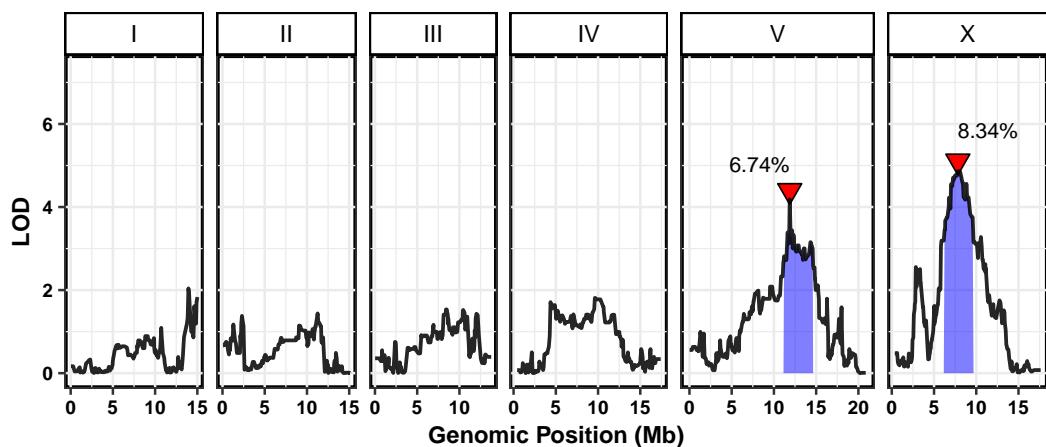
NIL – No parental diff.



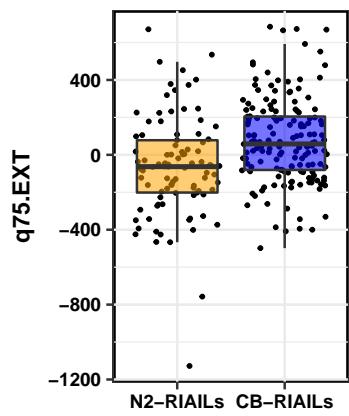
CSS – No parental diff.



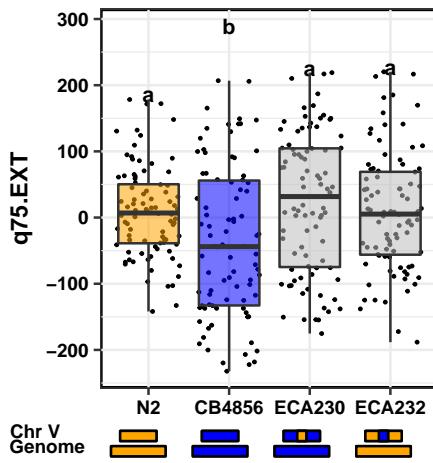
A carmustine.q75.EXT



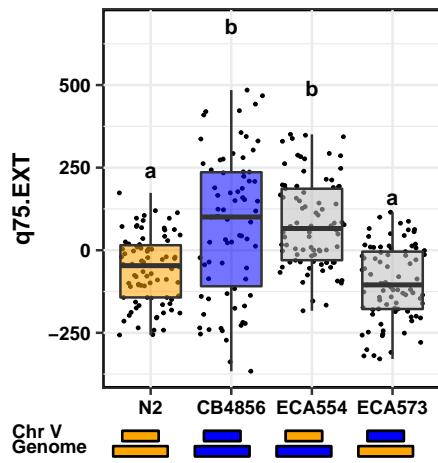
C V:11869708



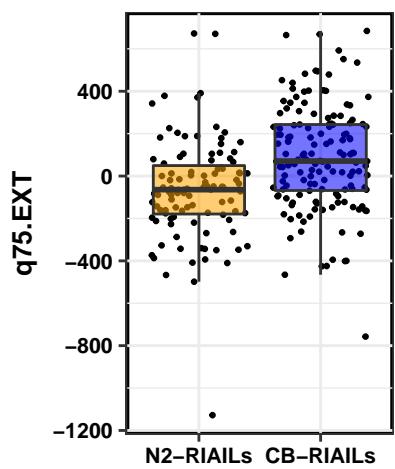
NIL – Miscellaneous



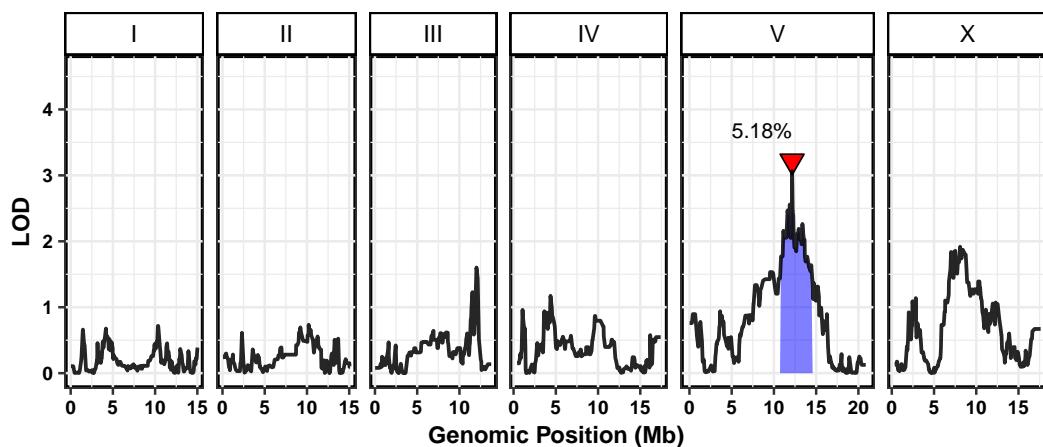
CSS – No effect



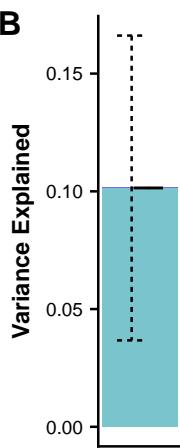
X:7821527



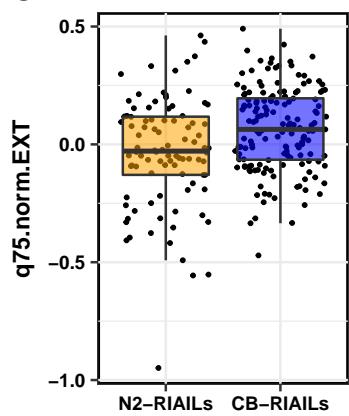
A carmustine.q75.norm.EXT



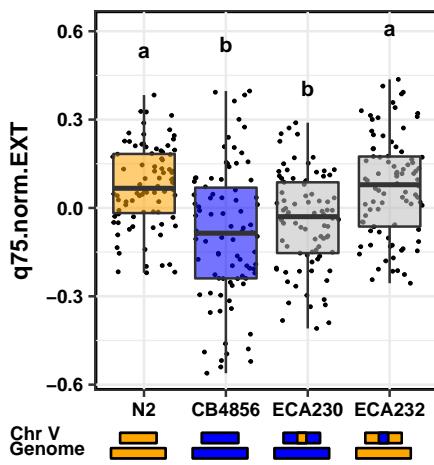
B



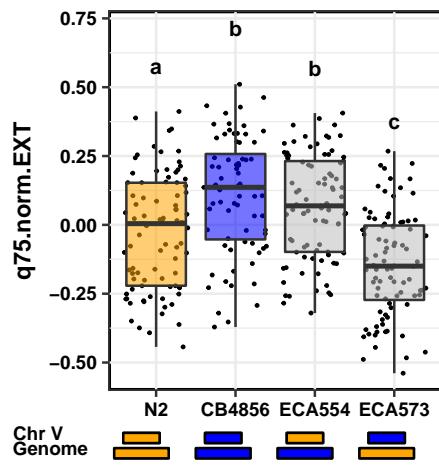
C V:12153760



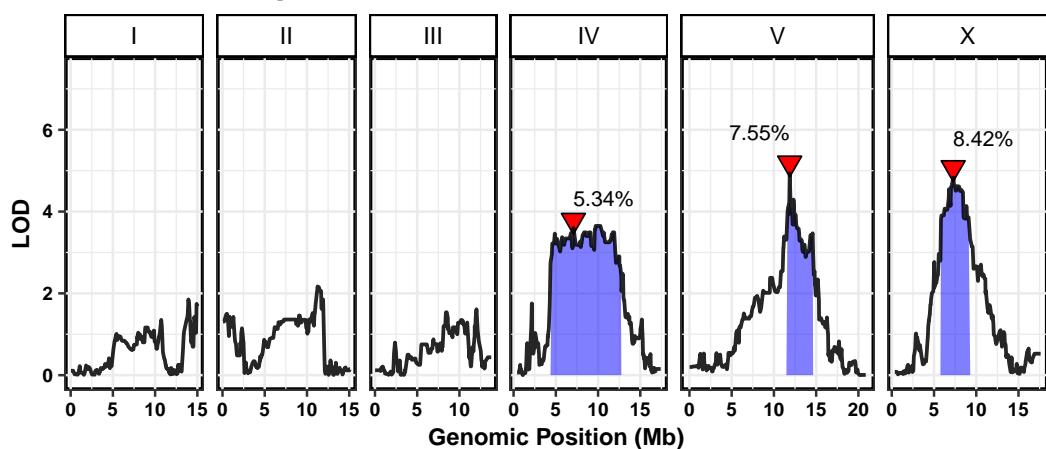
NIL – No effect



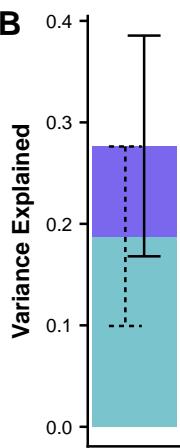
CSS – Unidirectional



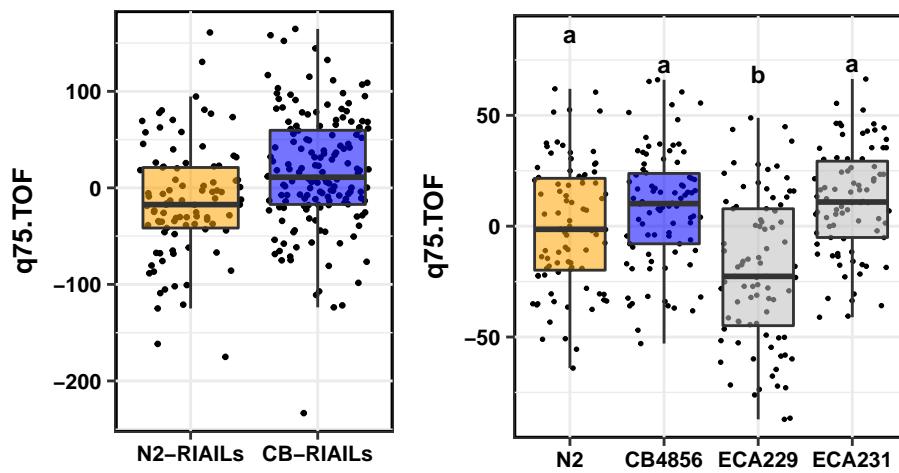
A carmustine.q75.TOF



B



C IV:7081695



NIL – No parental diff.

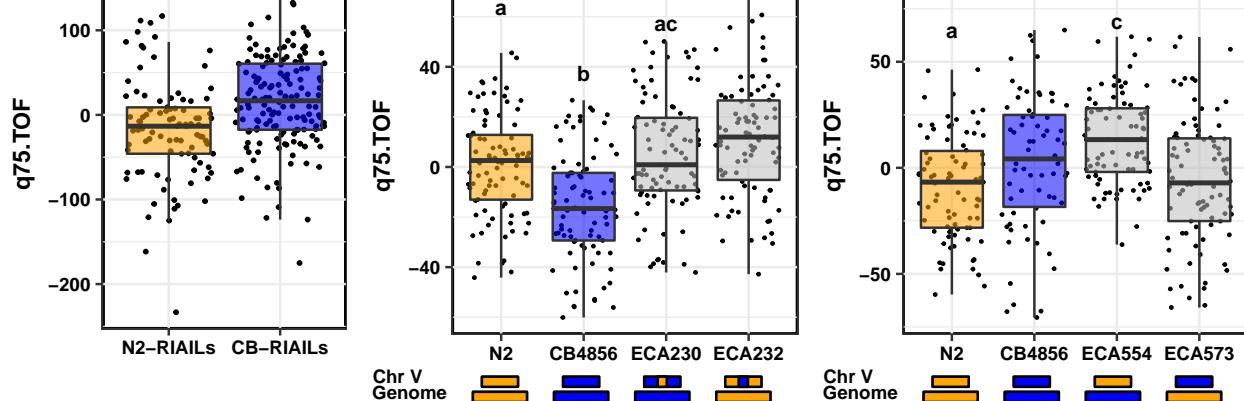
Chr IV
Genome

N2-RIAILs CB-RIAILs

N2 CB4856 ECA229 ECA231

a a b a

V:11869708



NIL – Unidirectional

Chr V
Genome

N2-RIAILs CB-RIAILs

N2 CB4856 ECA230 ECA232

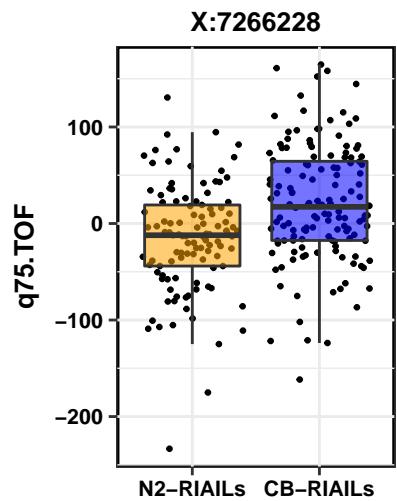
a b ac c

CSS – No effect

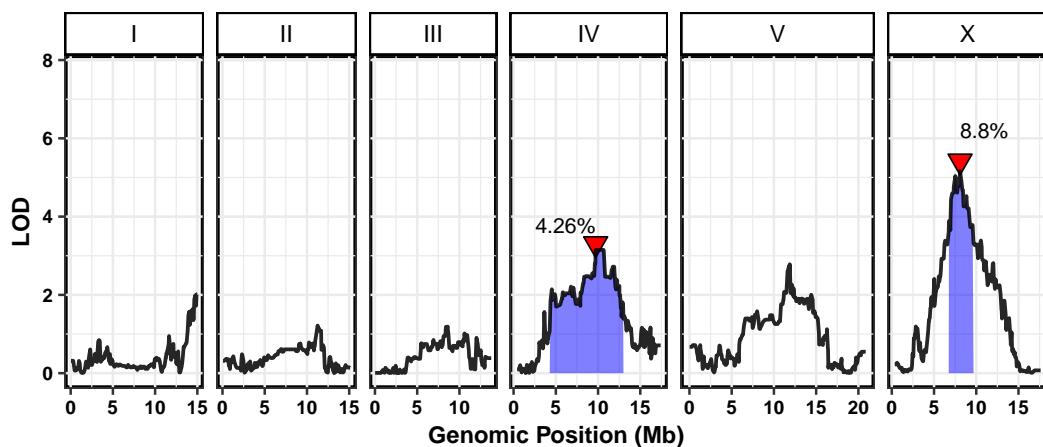
Chr V
Genome

N2 CB4856 ECA554 ECA573

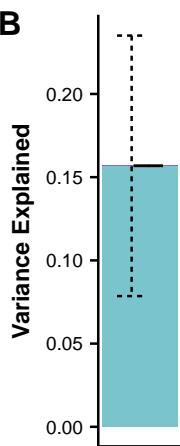
bc c ab



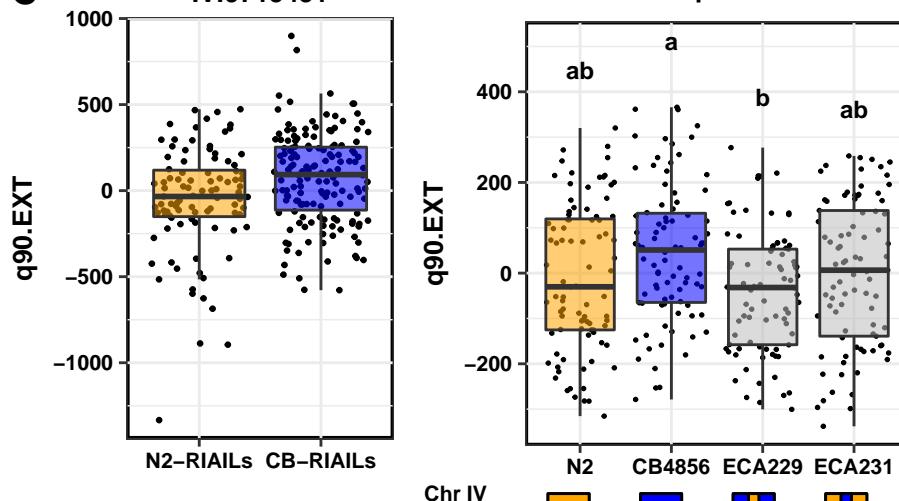
A carmustine.q90.EXT



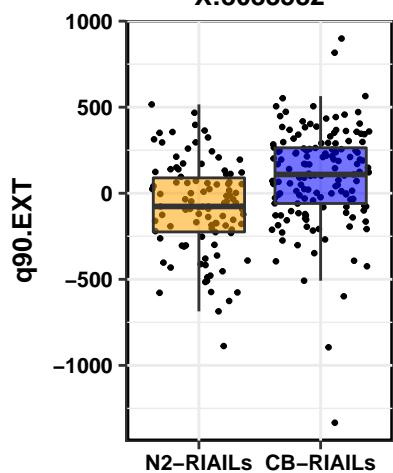
B



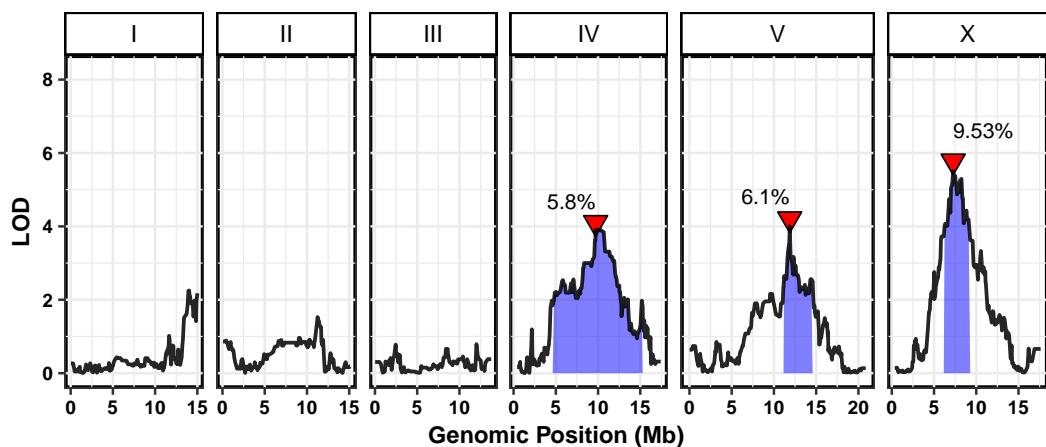
C IV:9715431



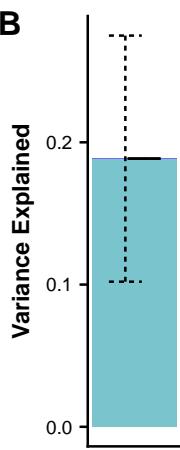
X:8083582



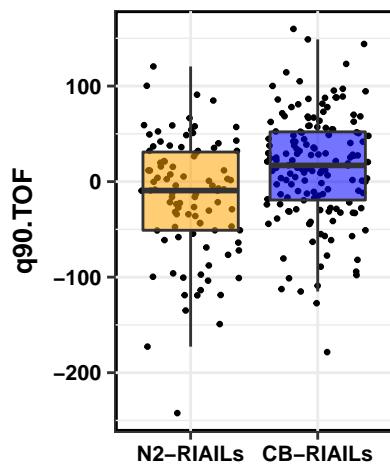
A carmustine.q90.TOF



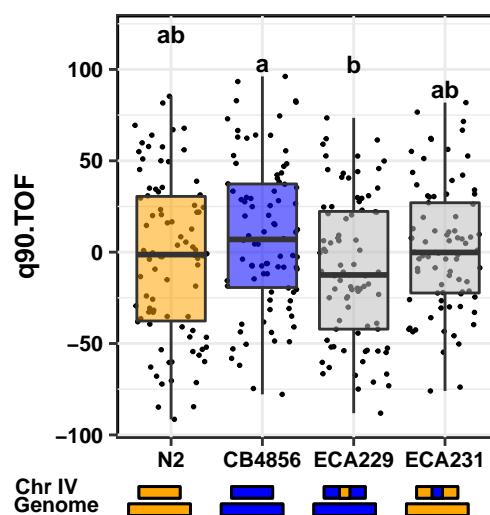
B



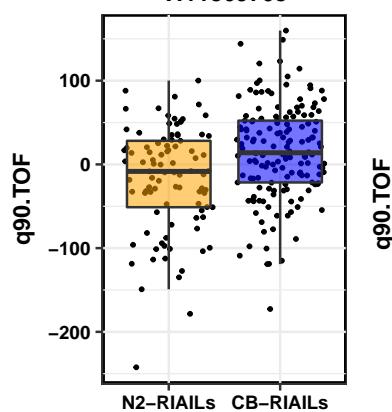
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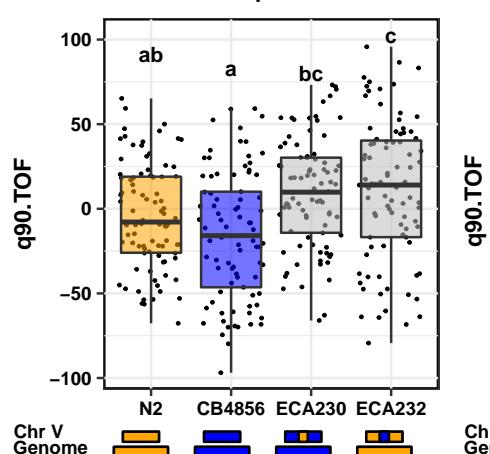
NIL – No parental diff.



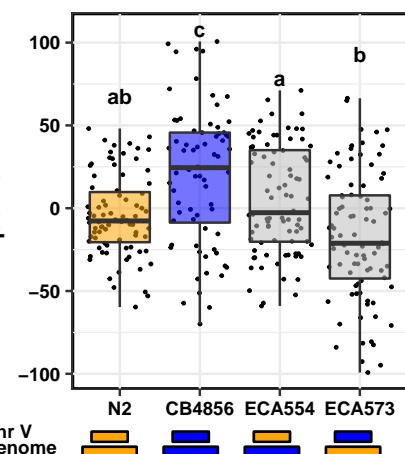
V:11869708

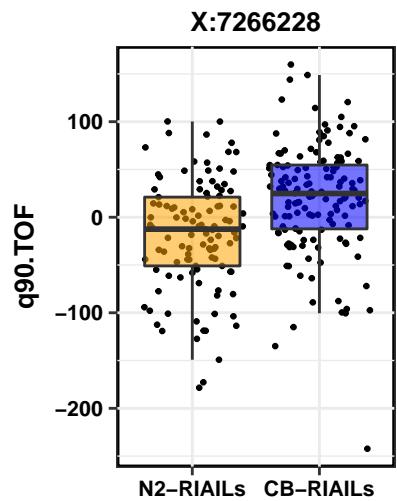


NIL – No parental diff.

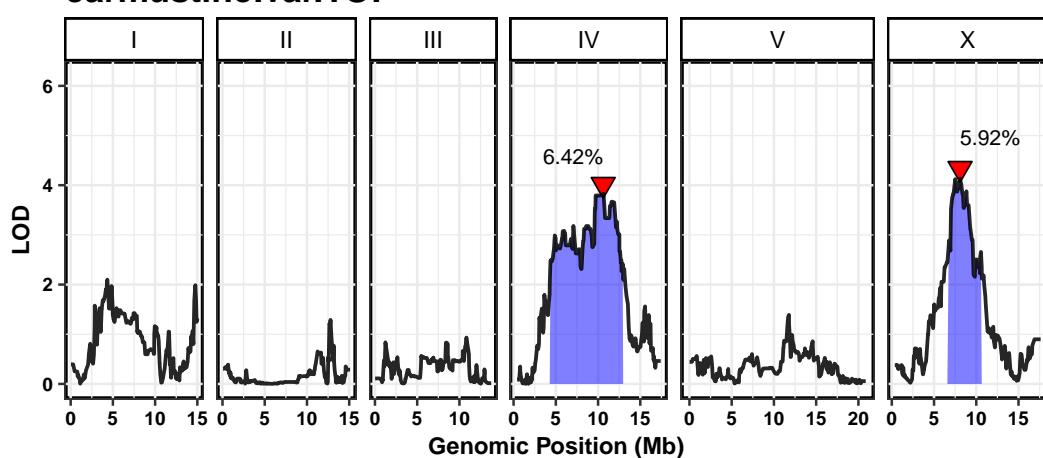


CSS – Miscellaneous

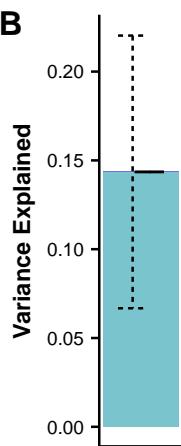




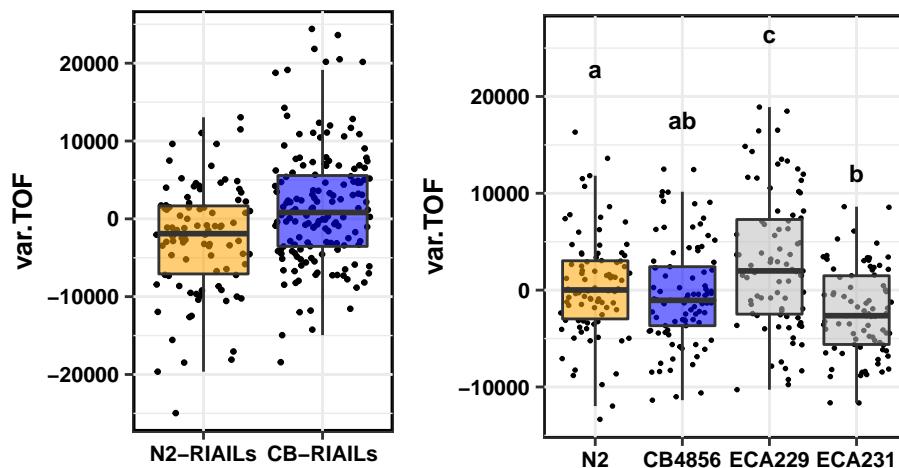
A carmustine.var.TOF



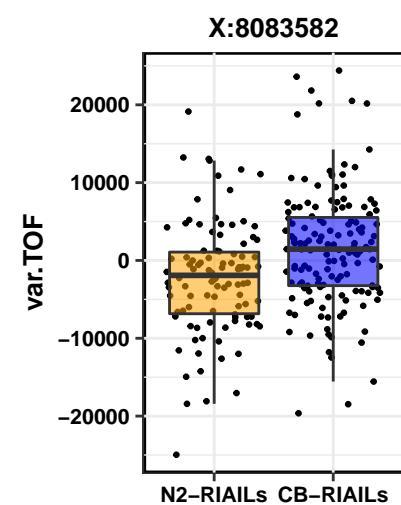
B



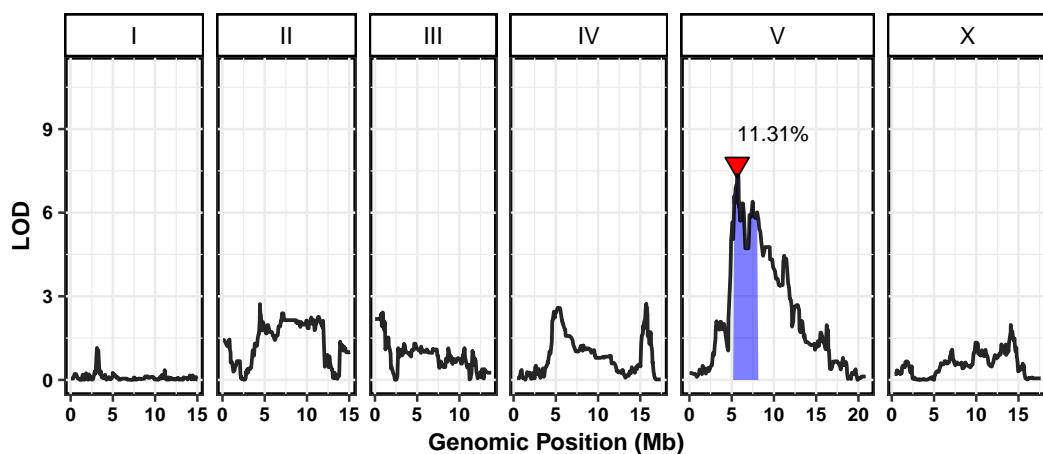
C IV:10613516



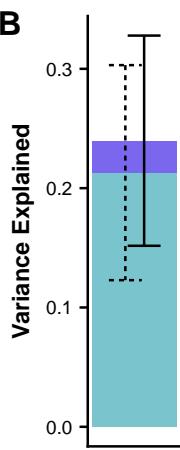
NIL – No parental diff.



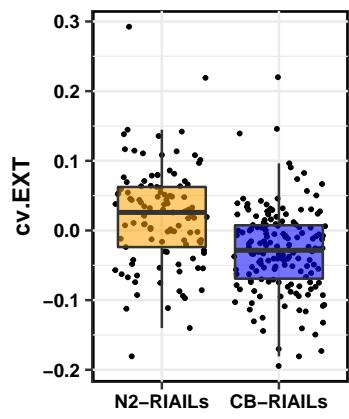
A chlorothalonil.cv.EXT



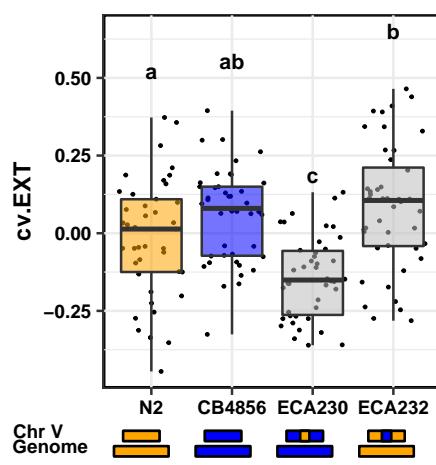
B



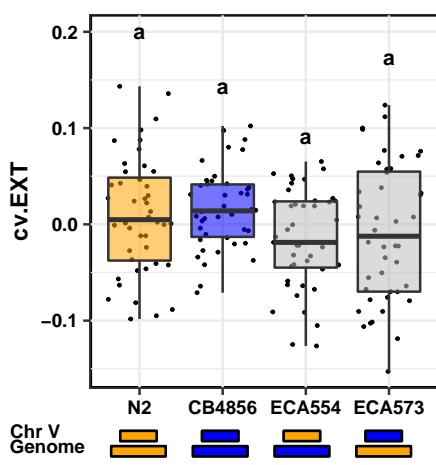
C V:5648293

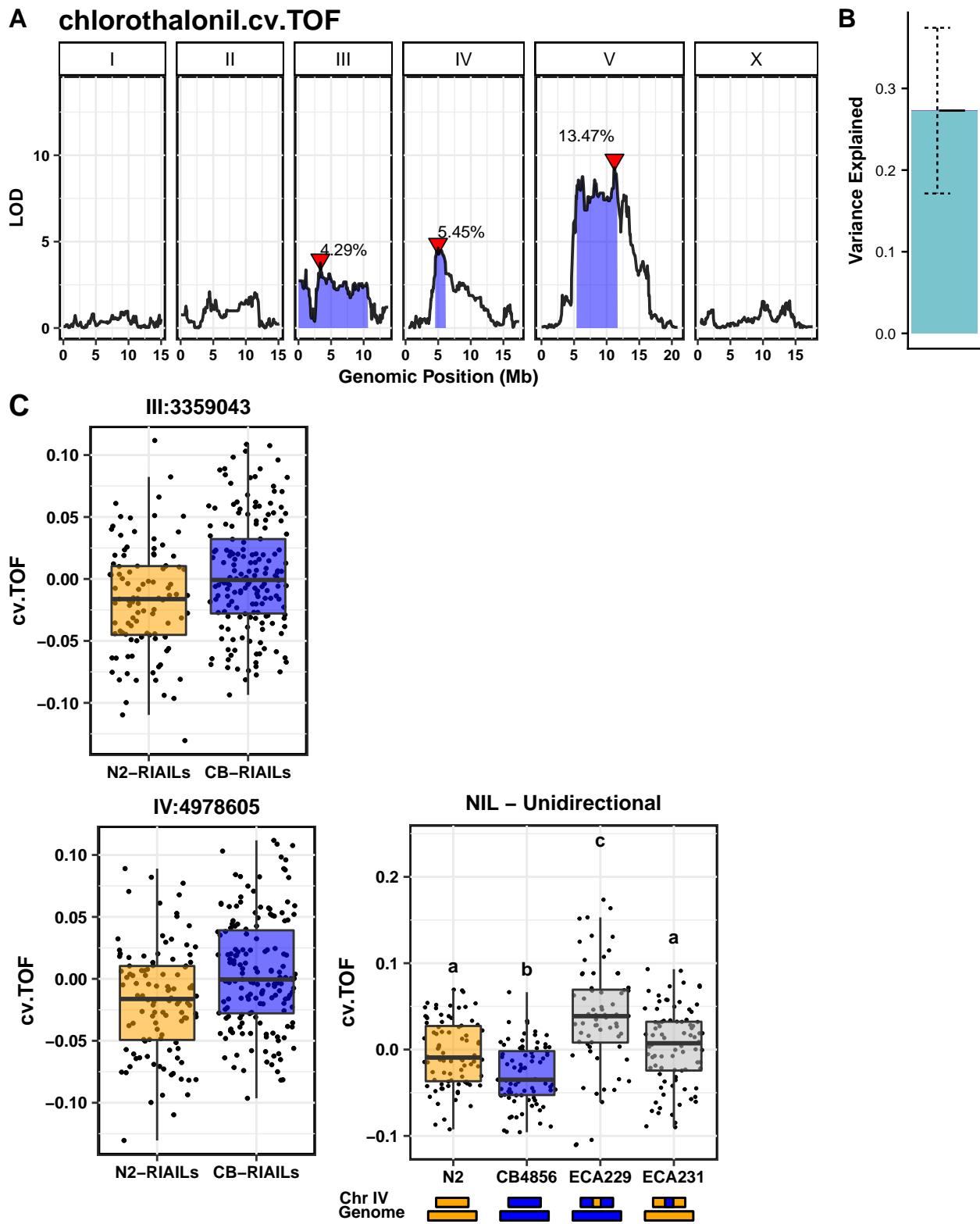


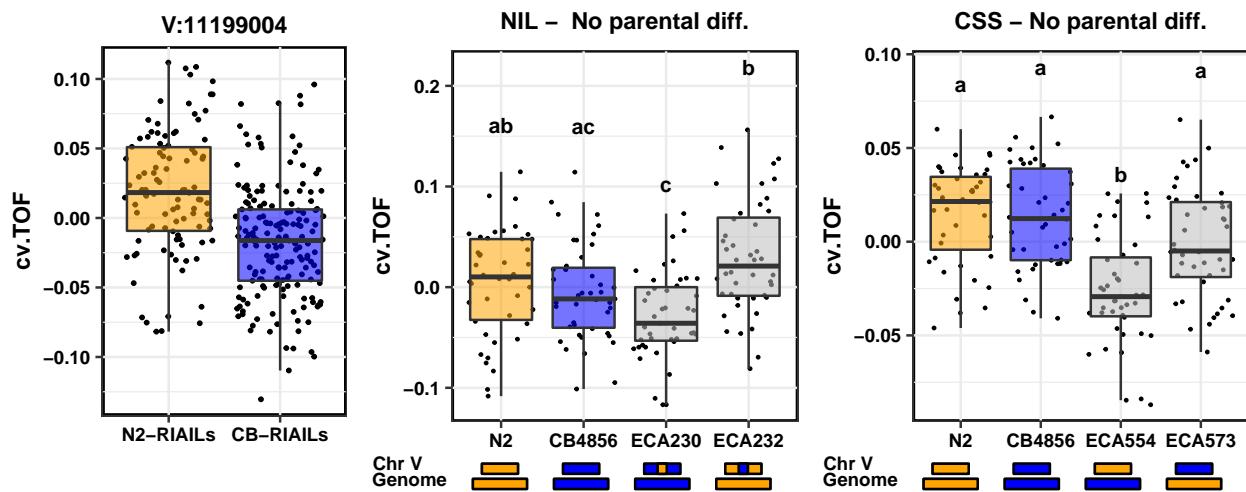
NIL – No parental diff.

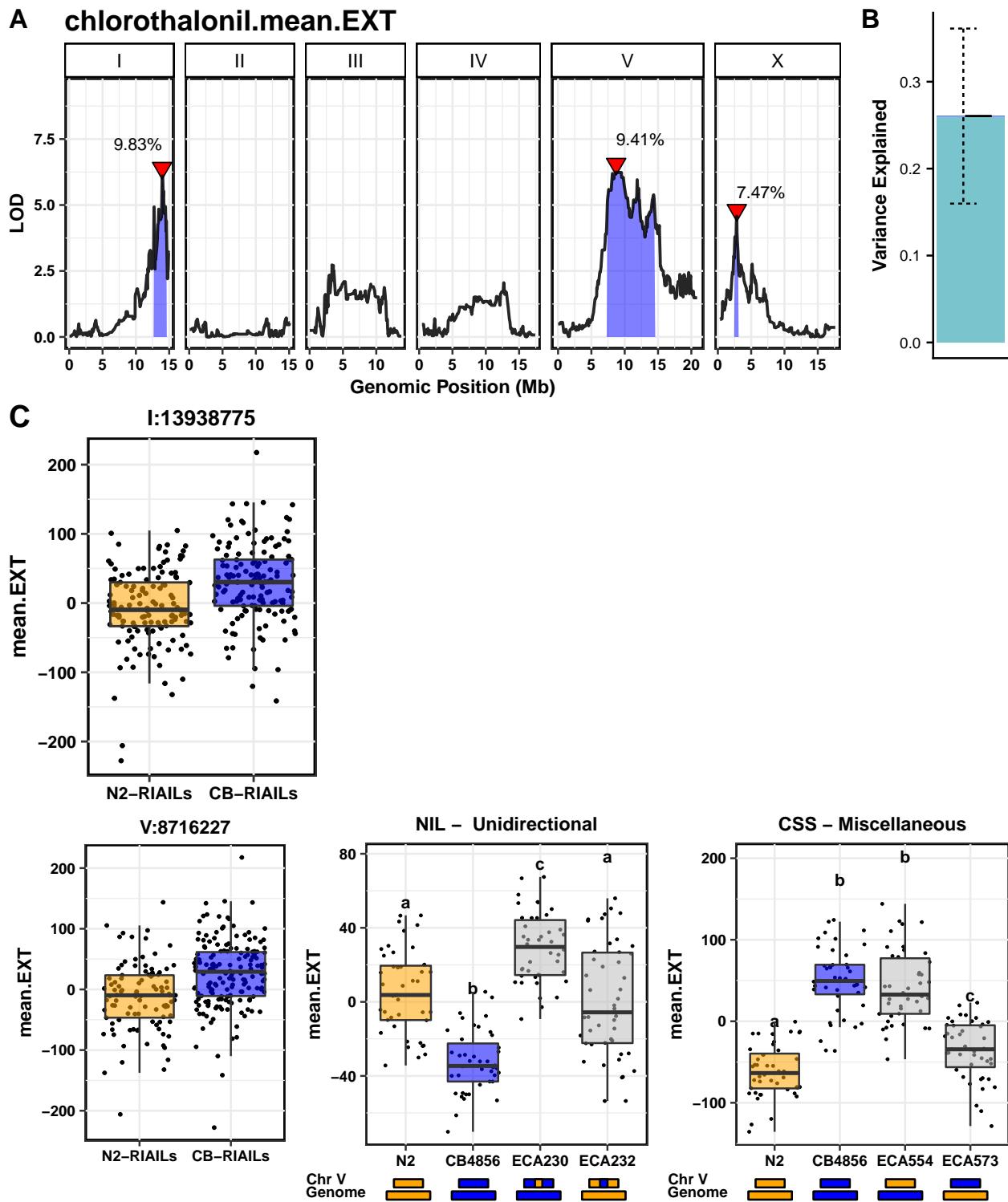


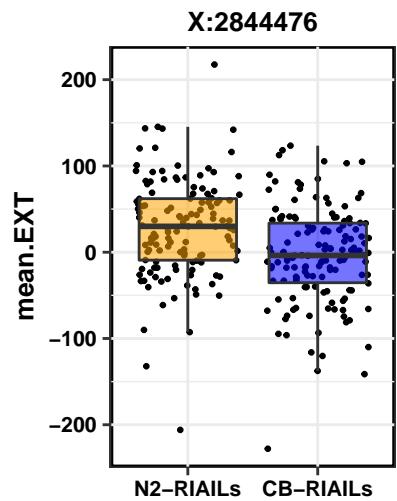
CSS – No parental diff.

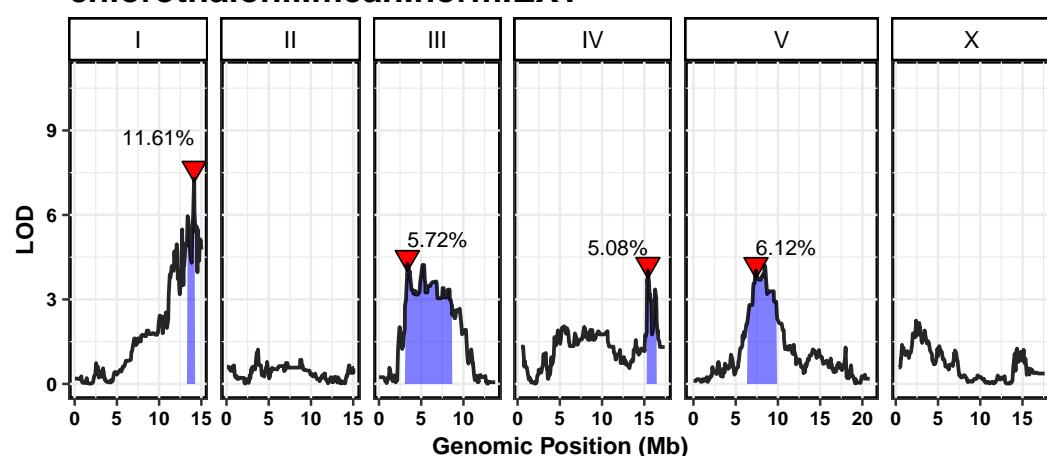
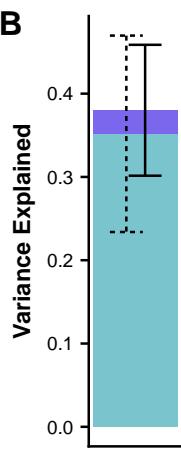
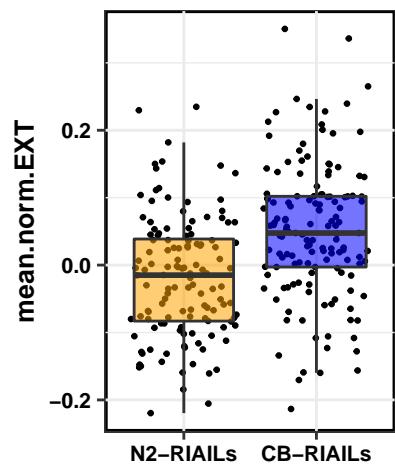
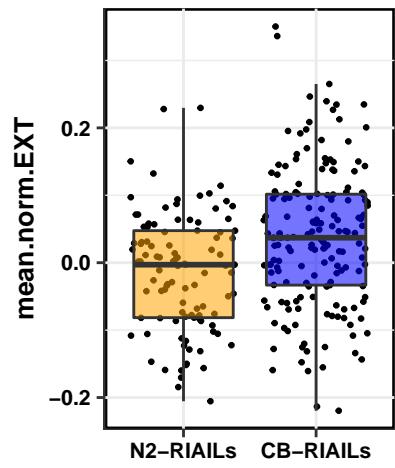


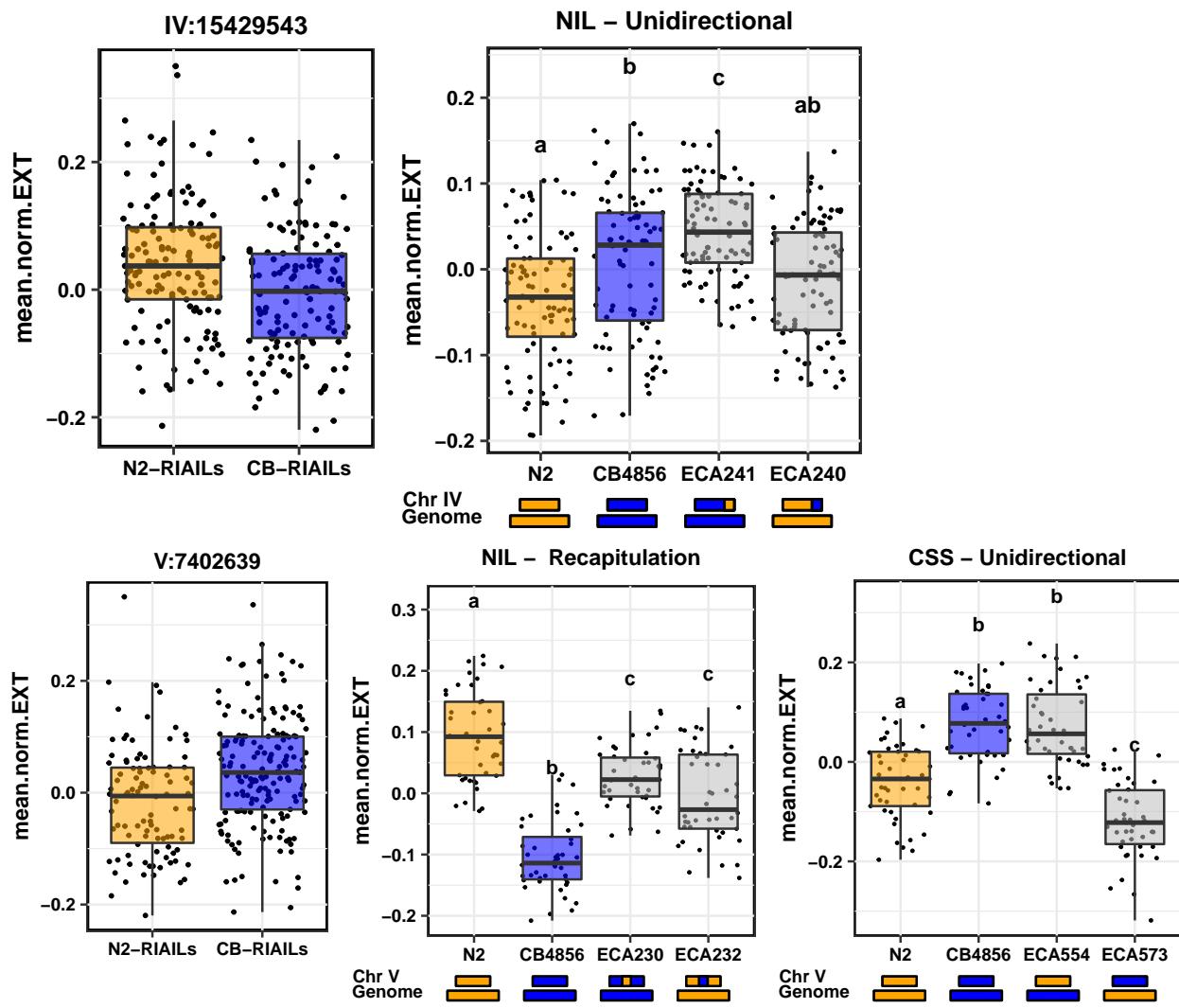


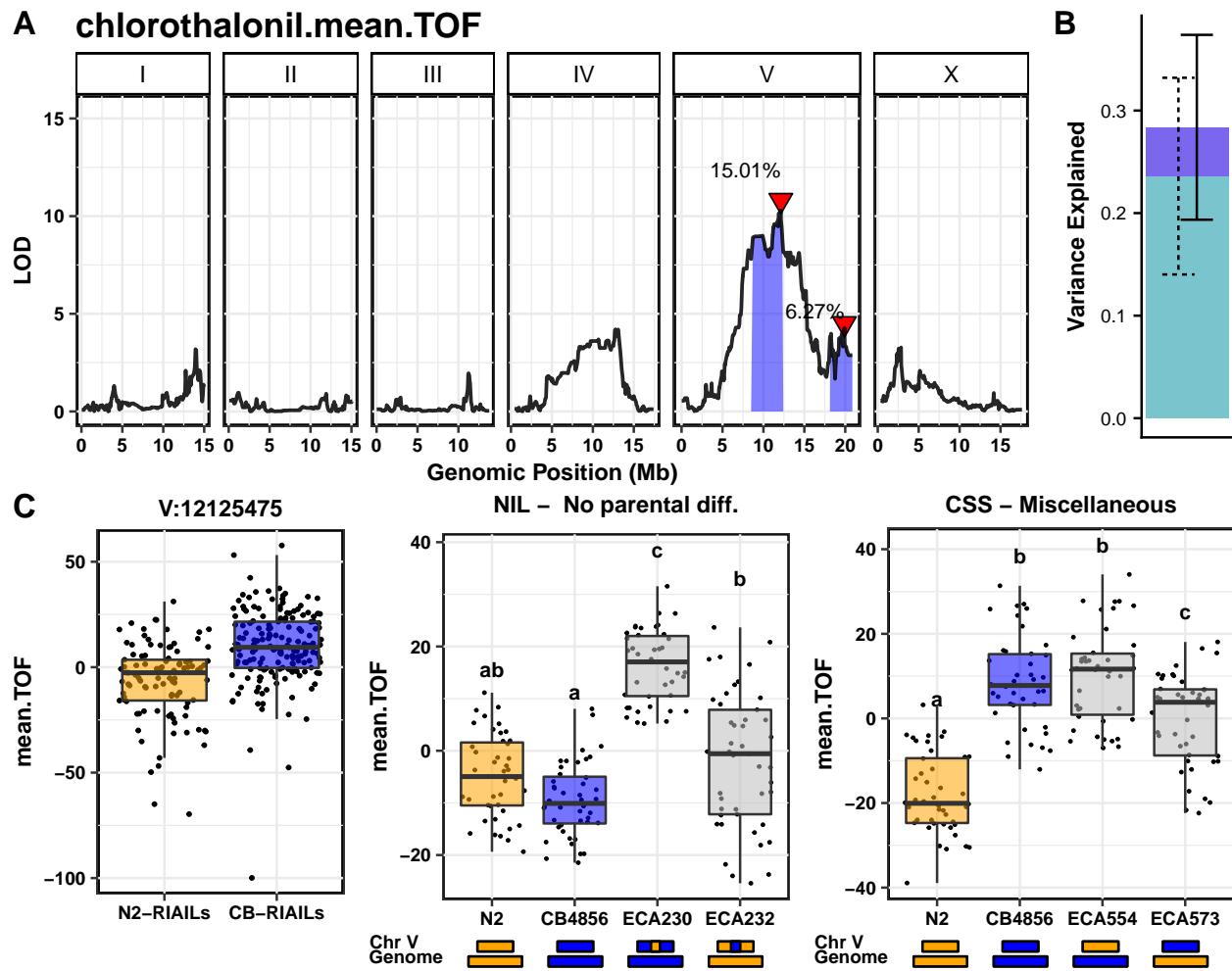


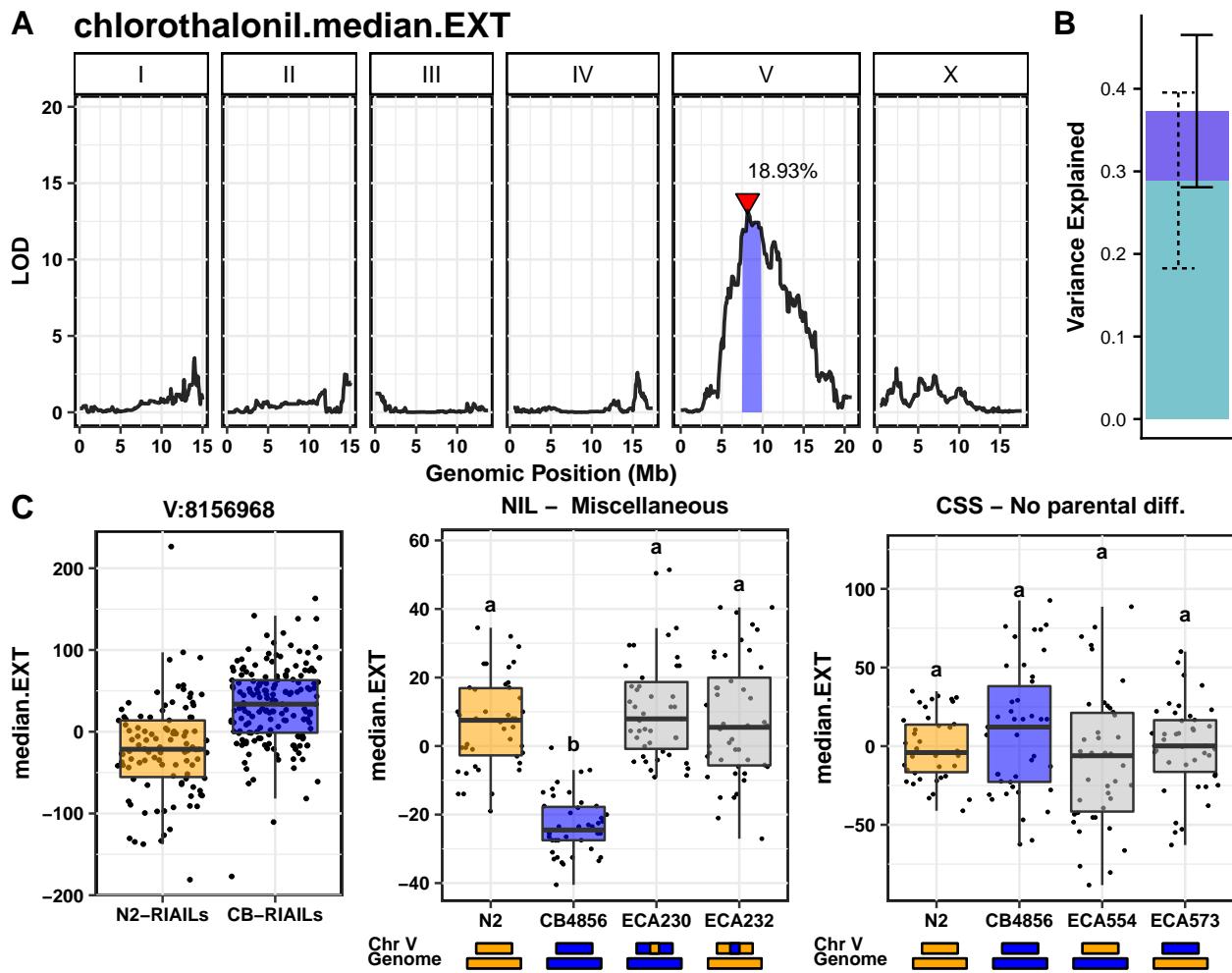




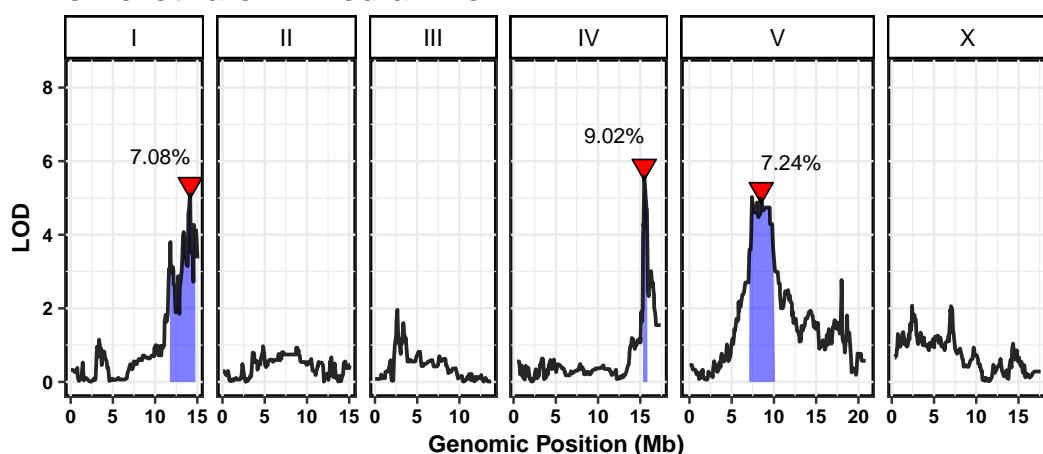
A chlorothalonil.mean.norm.EXT**B****C I:14155589****III:3359043**



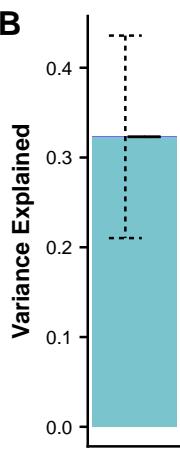




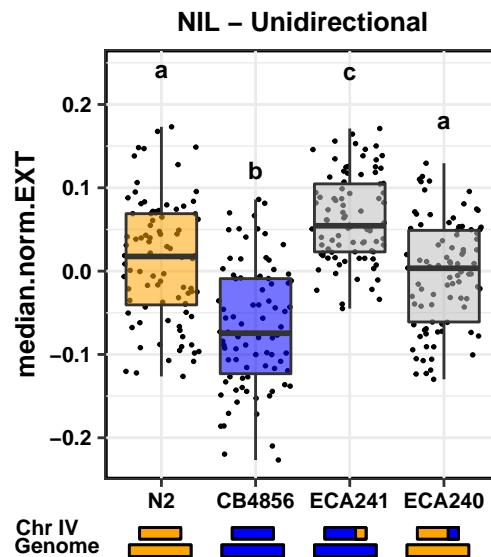
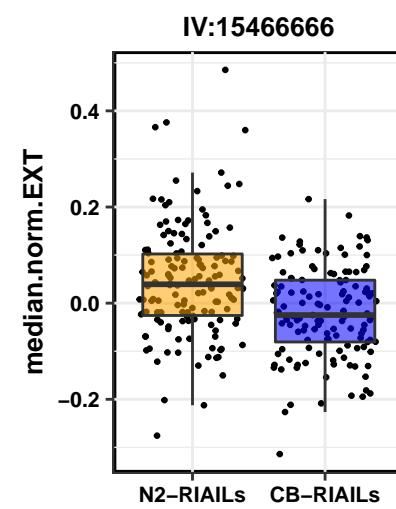
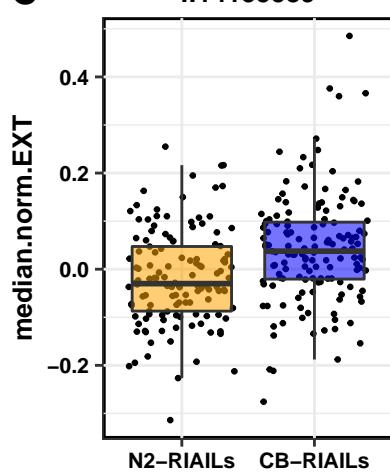
A chlorothalonil.median.norm.EXT

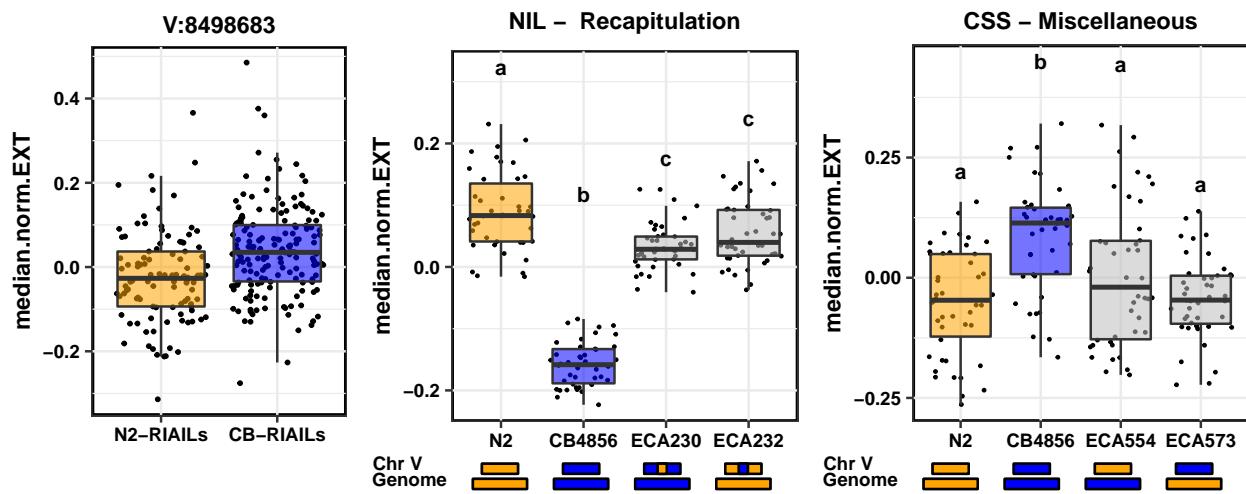


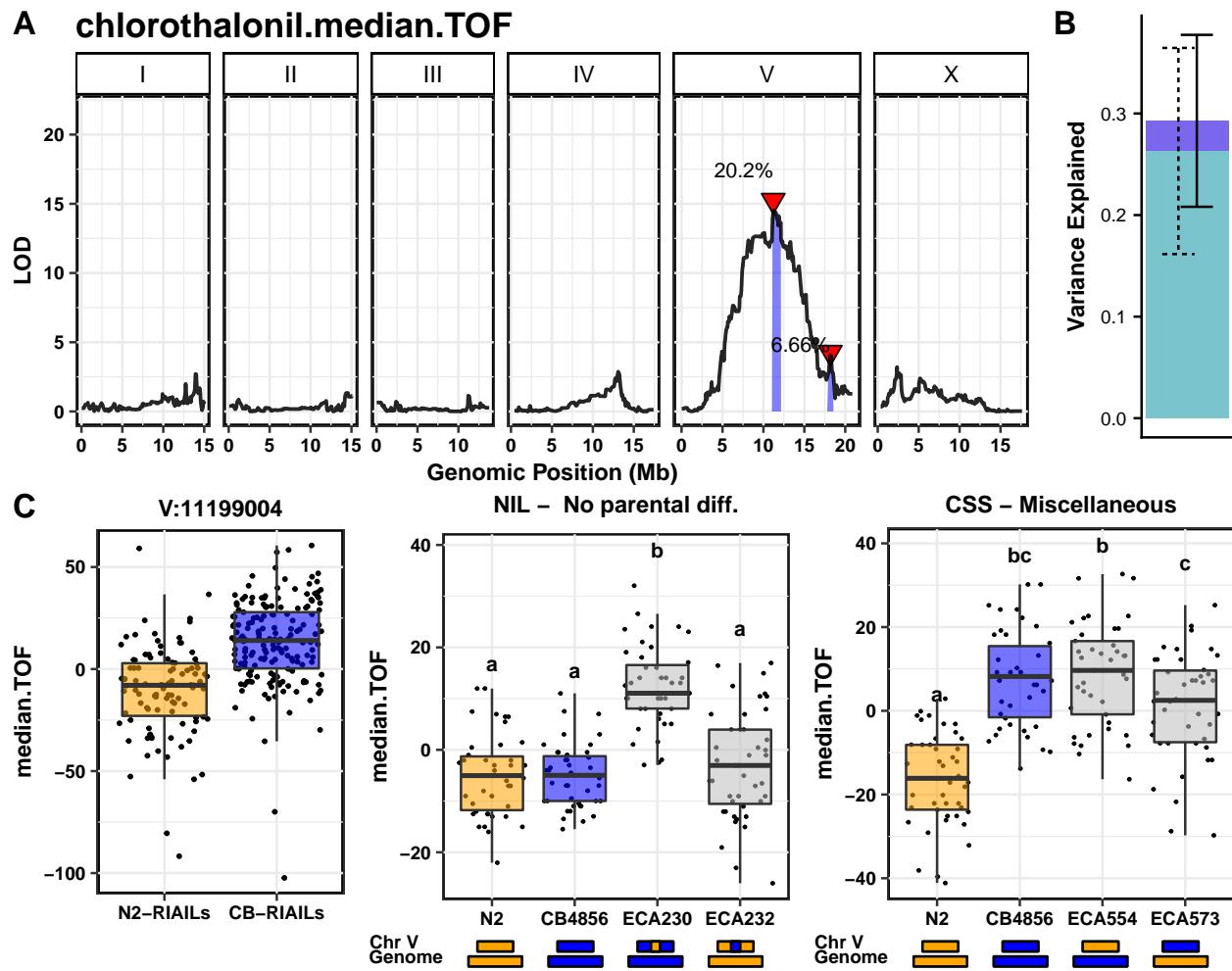
B

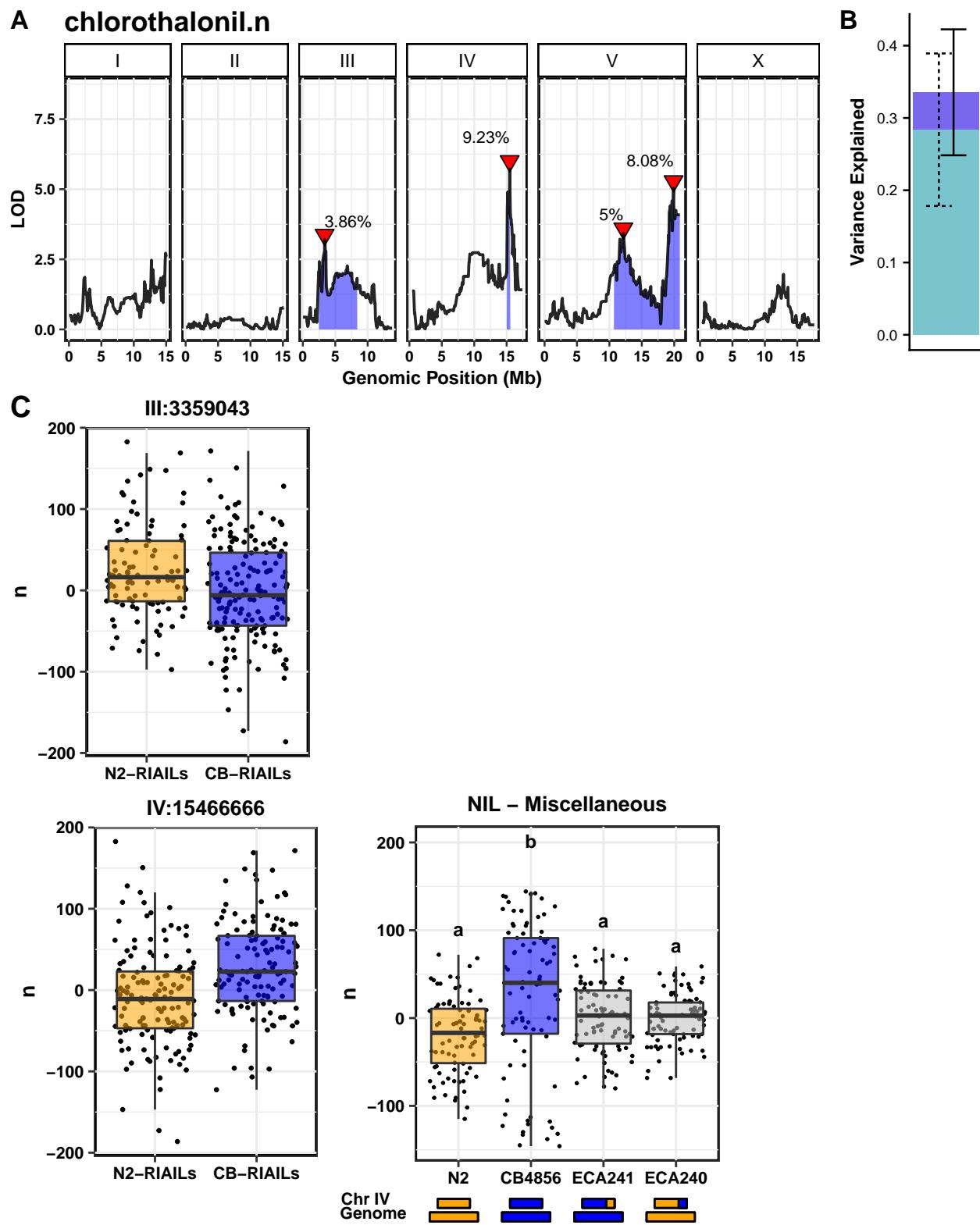


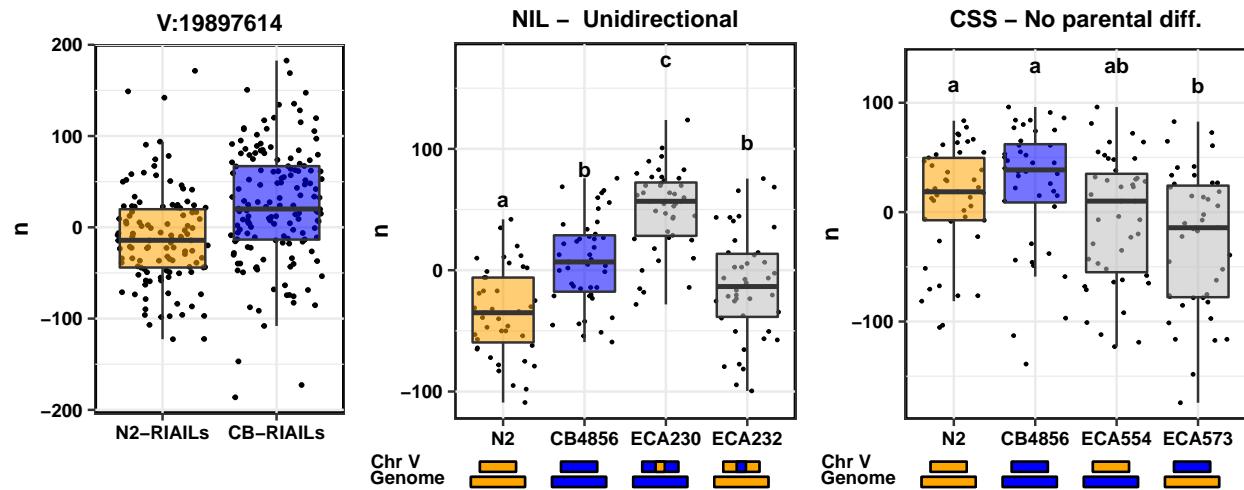
C

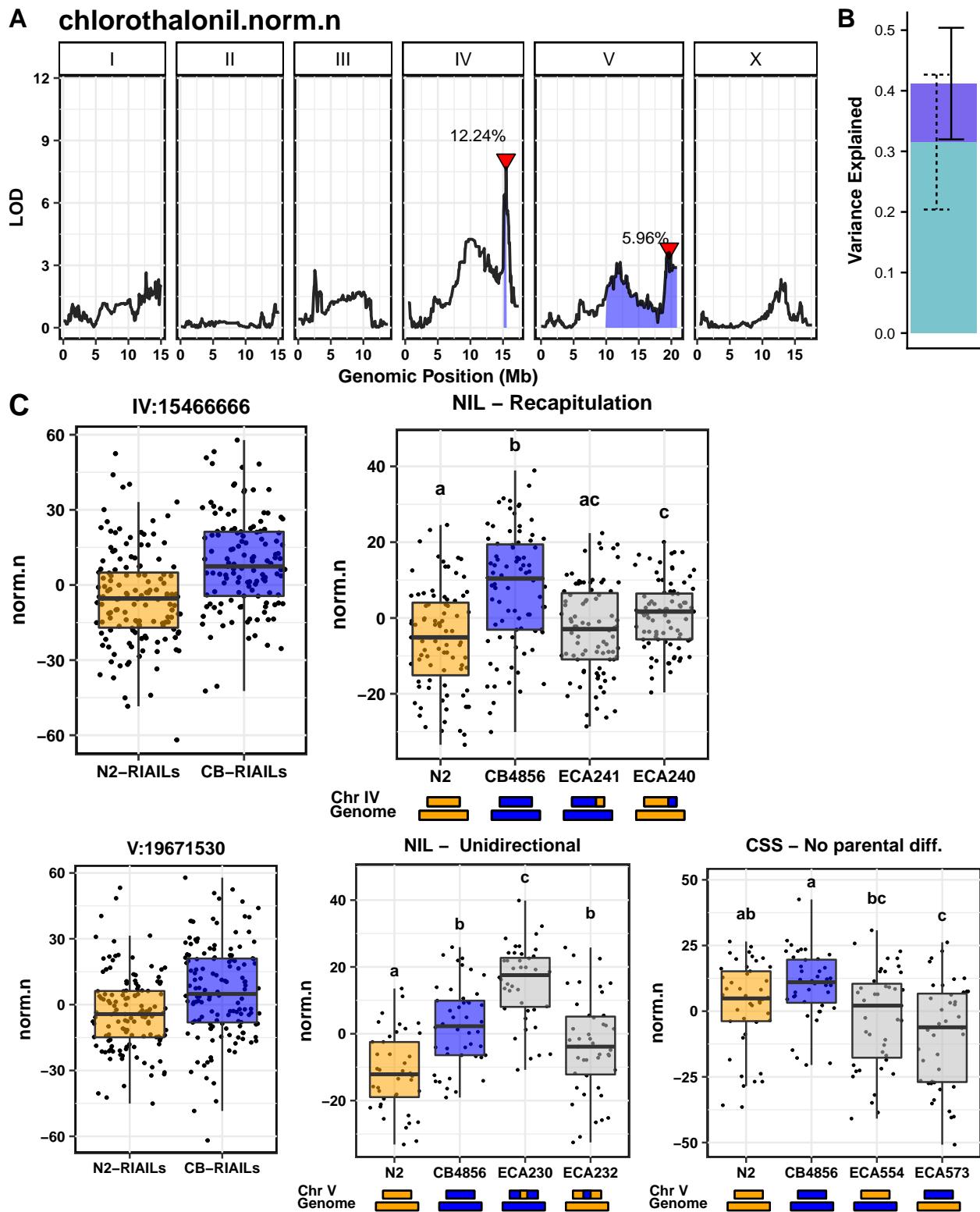


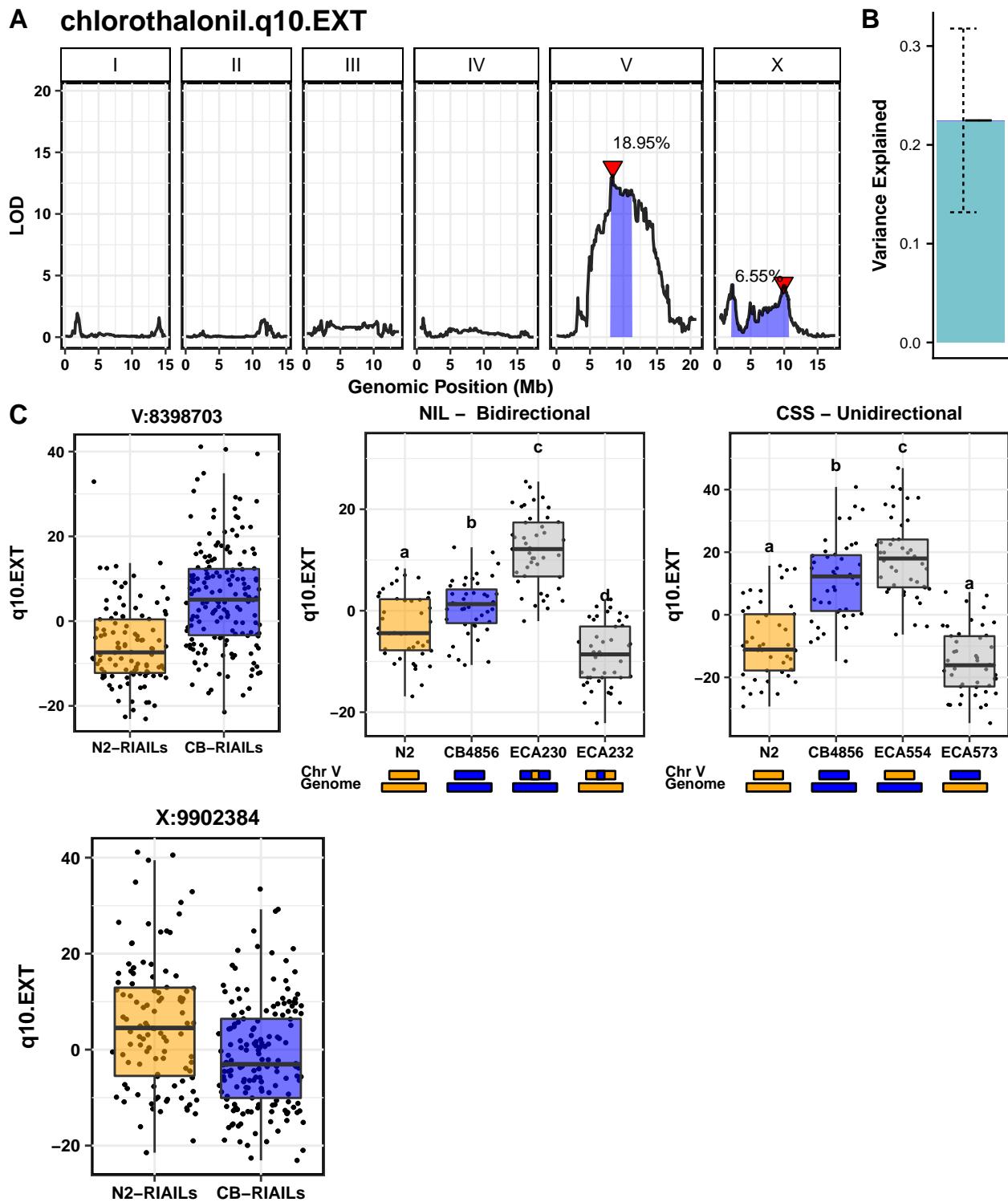


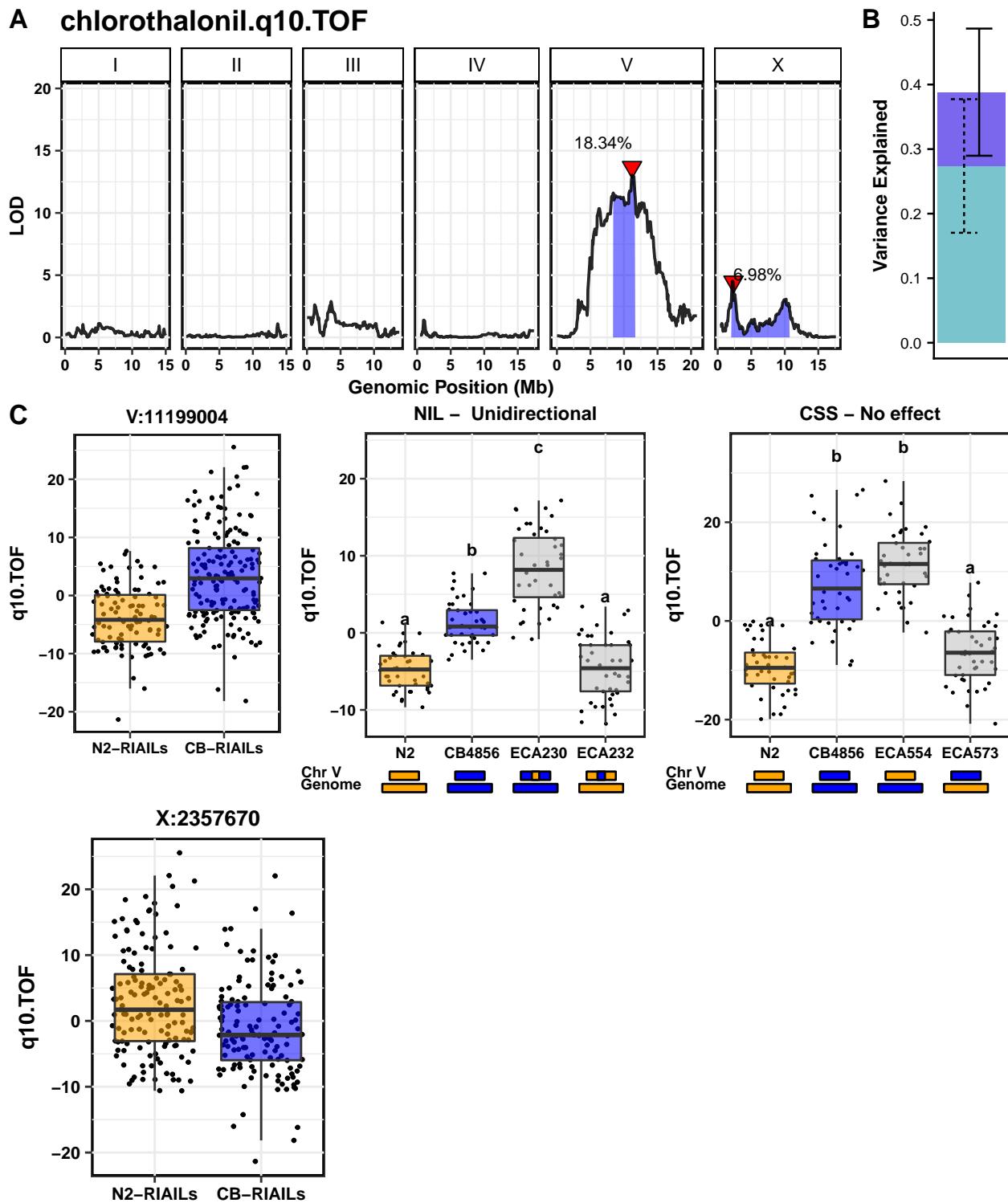


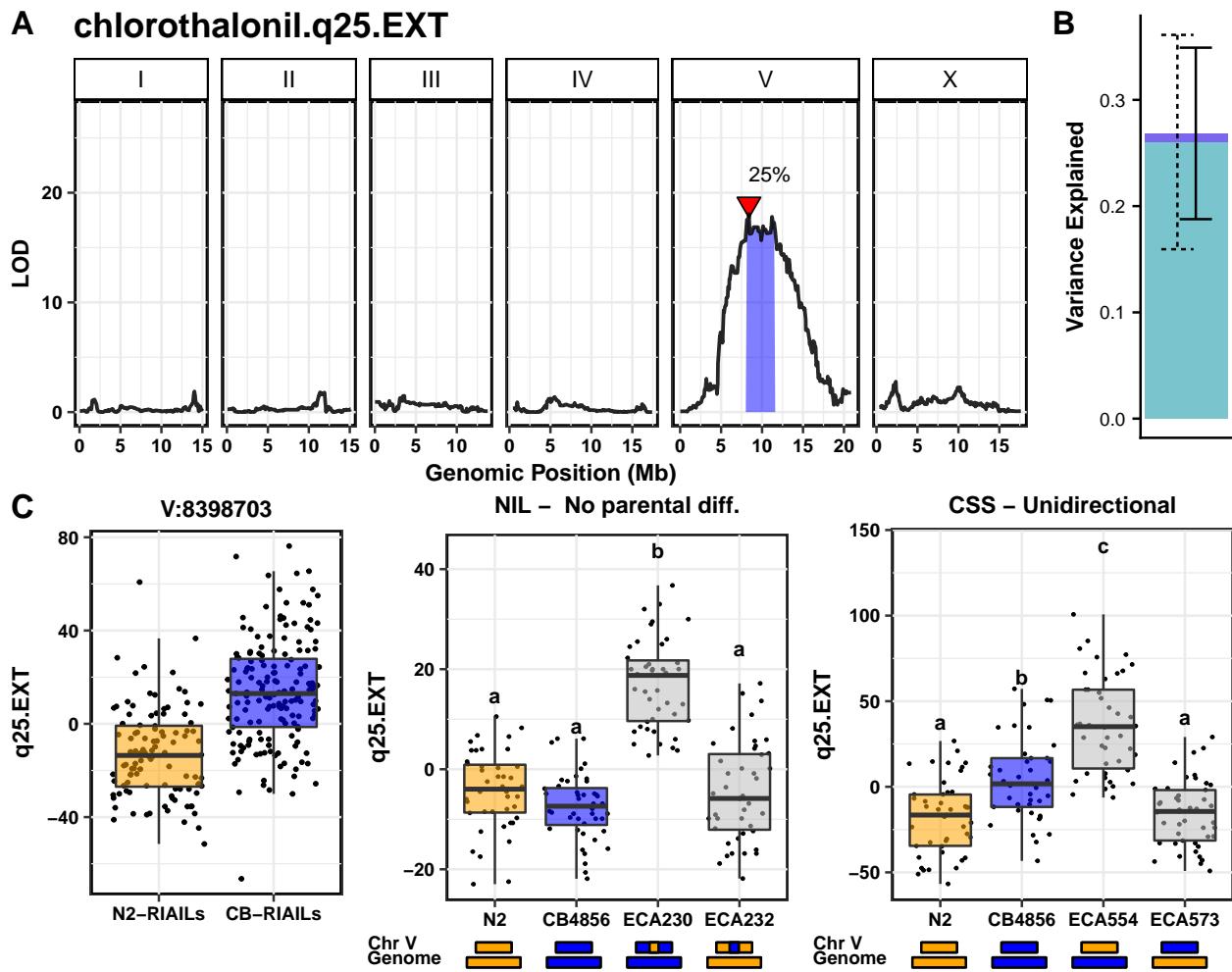




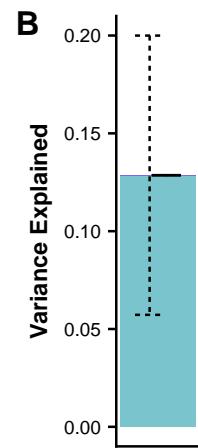
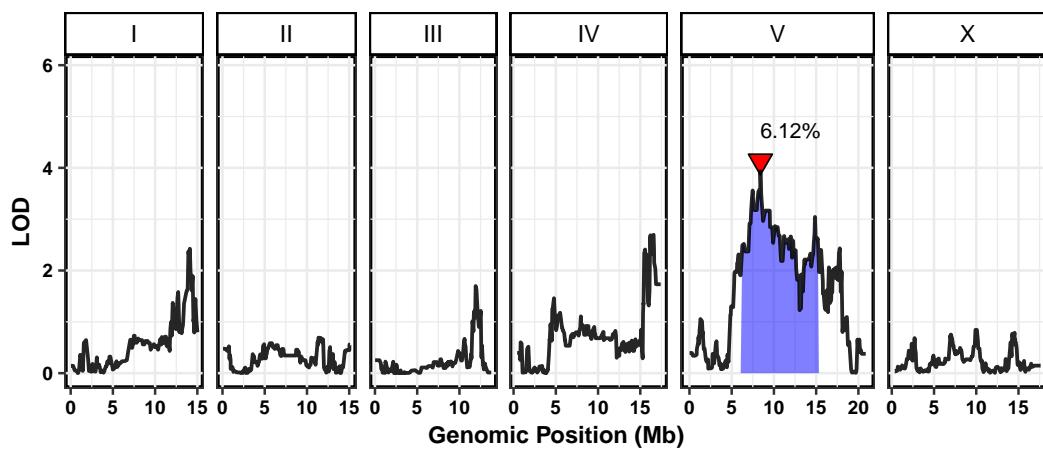




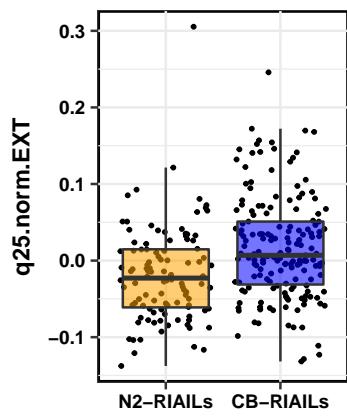




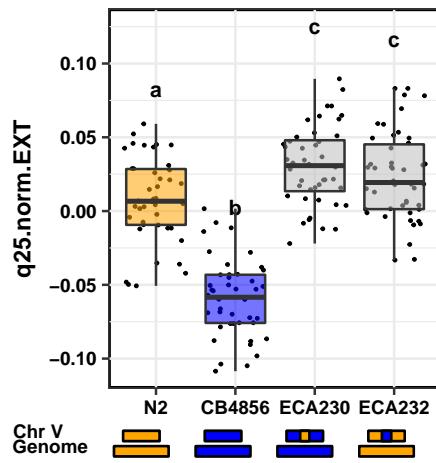
A chlorothalonil.q25.norm.EXT



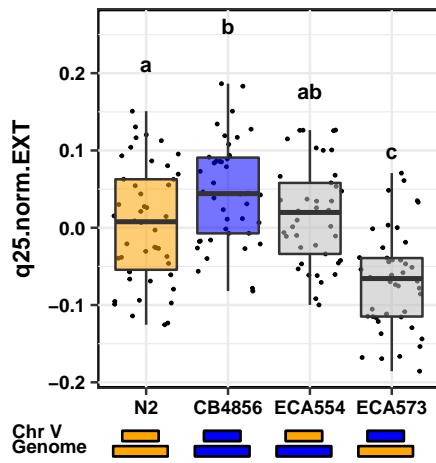
C V:8398703

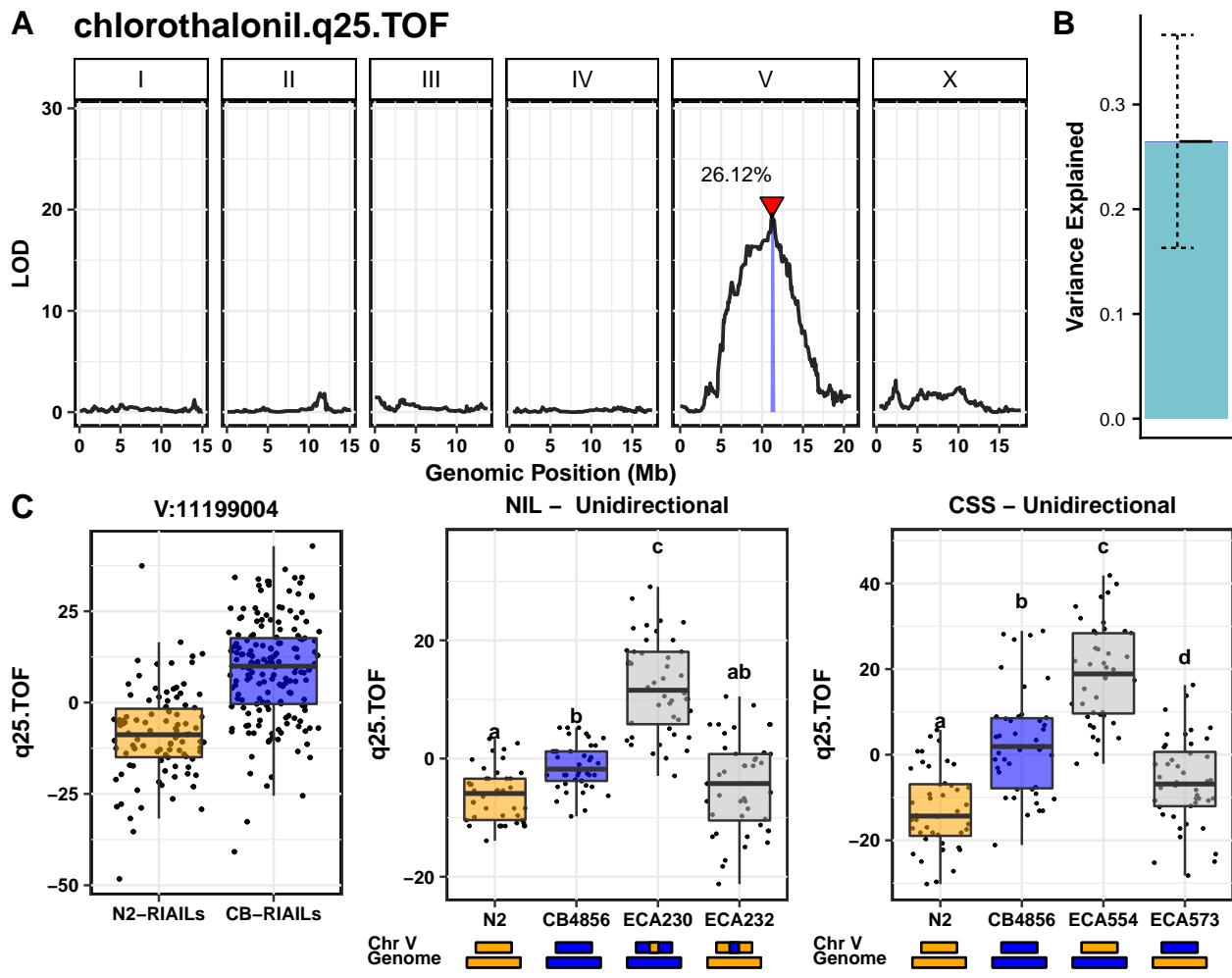


NIL – Bidirectional

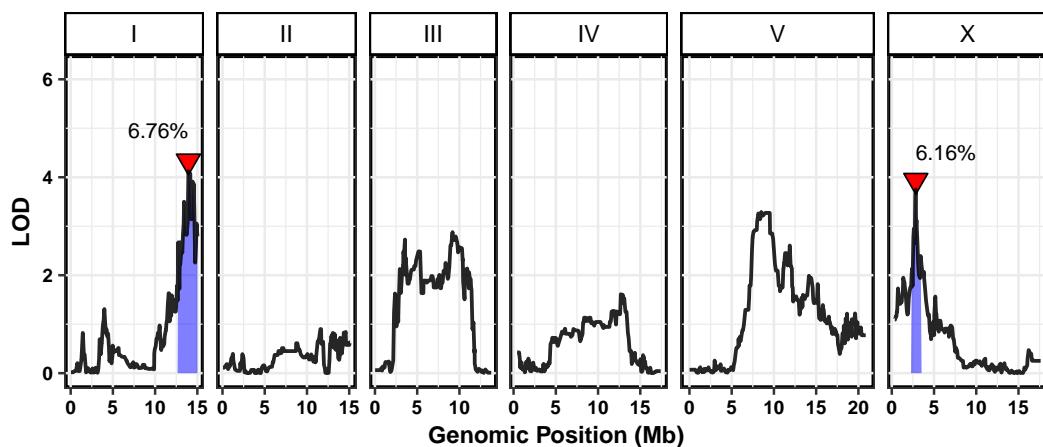


CSS – Unidirectional

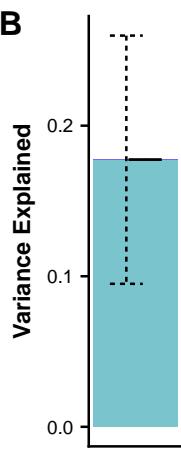




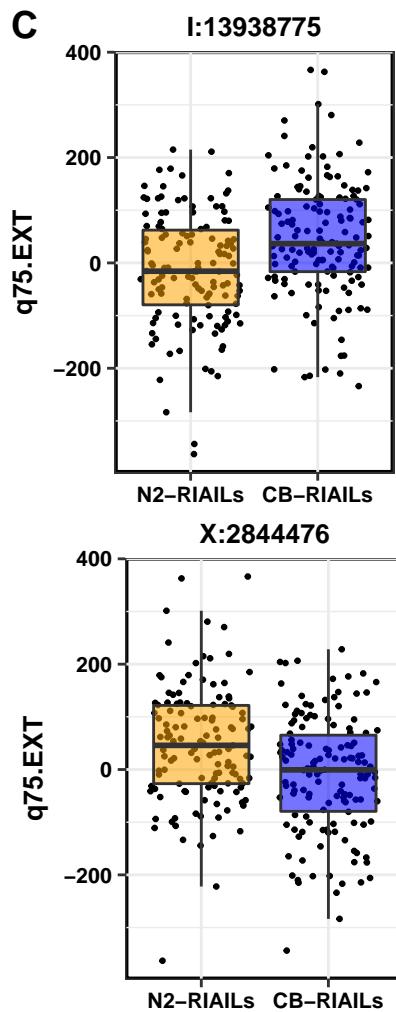
A chlorothalonil.q75.EXT



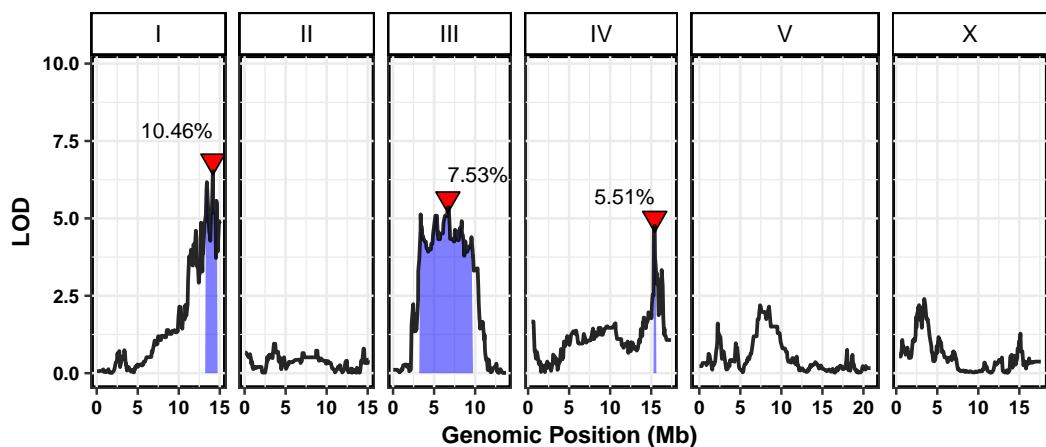
B



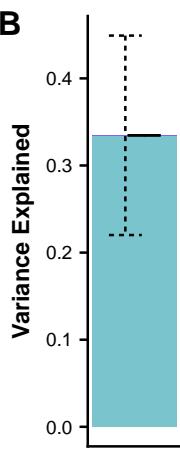
C



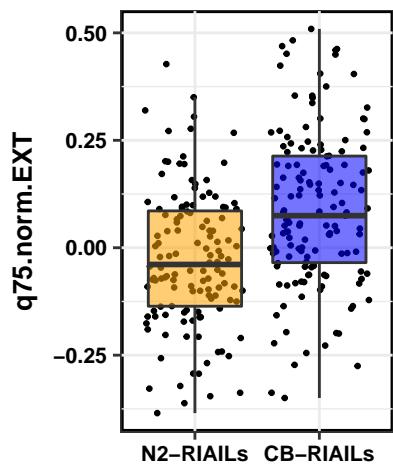
A chlorothalonil.q75.norm.EXT



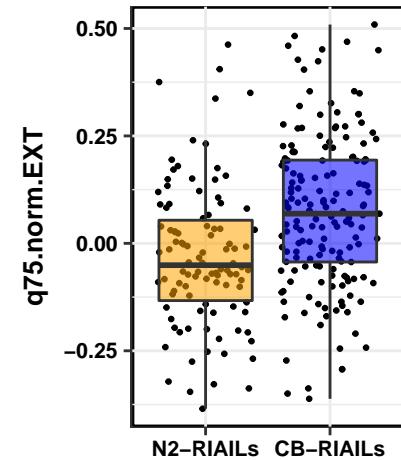
B

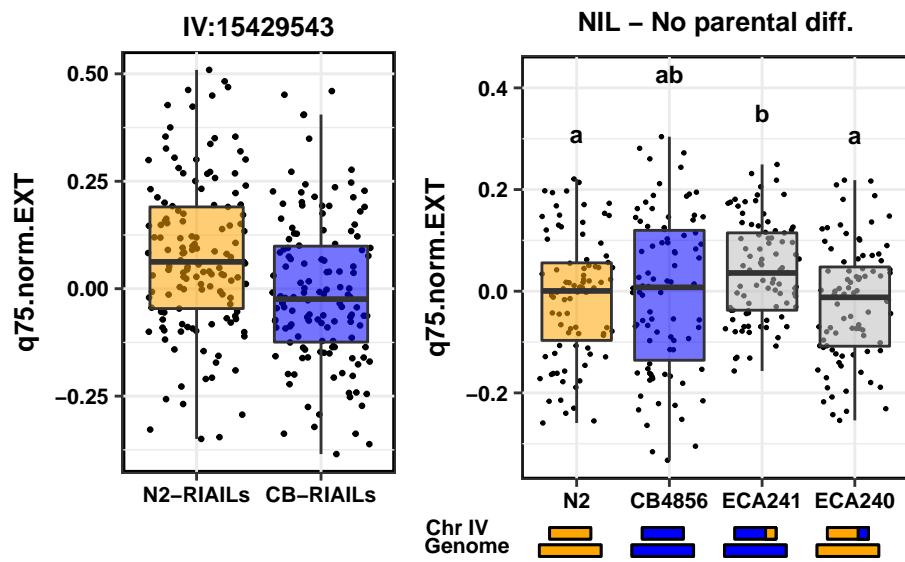


C I:14155589

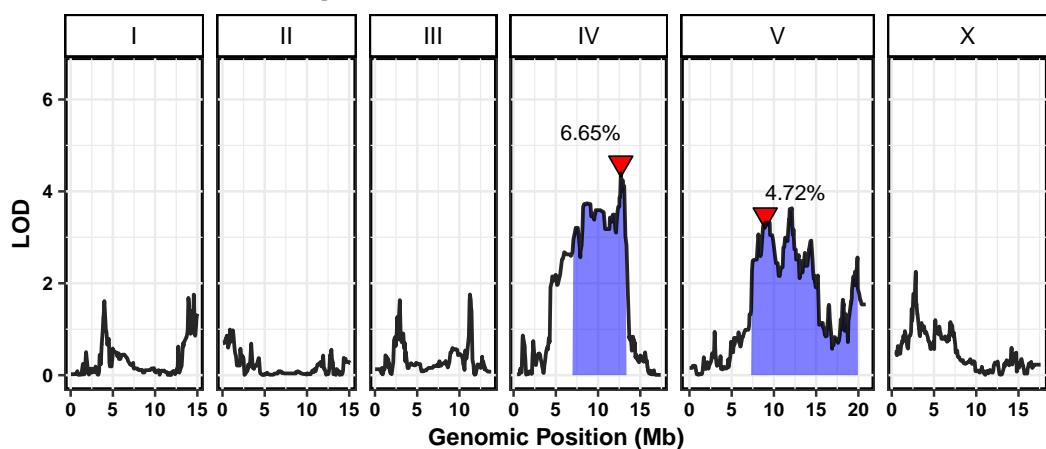


III:6678775

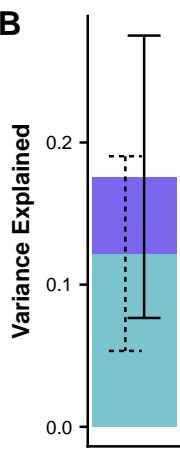




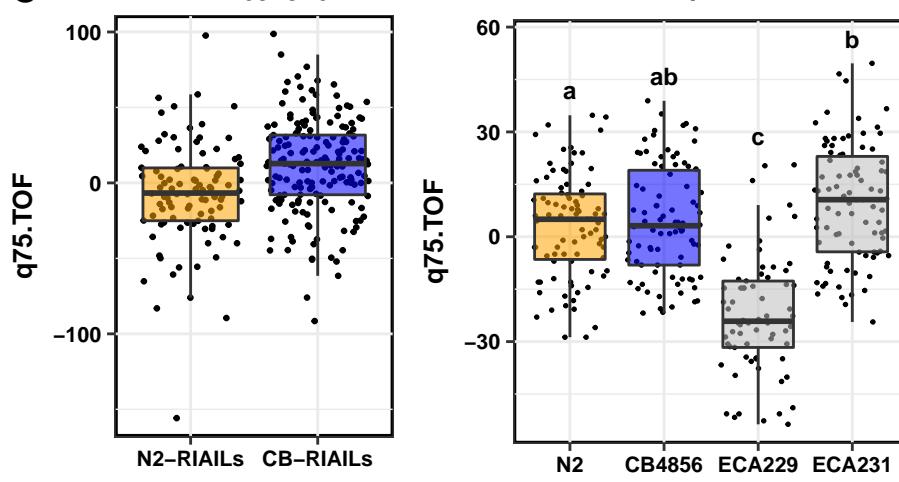
A chlorothalonil.q75.TOF



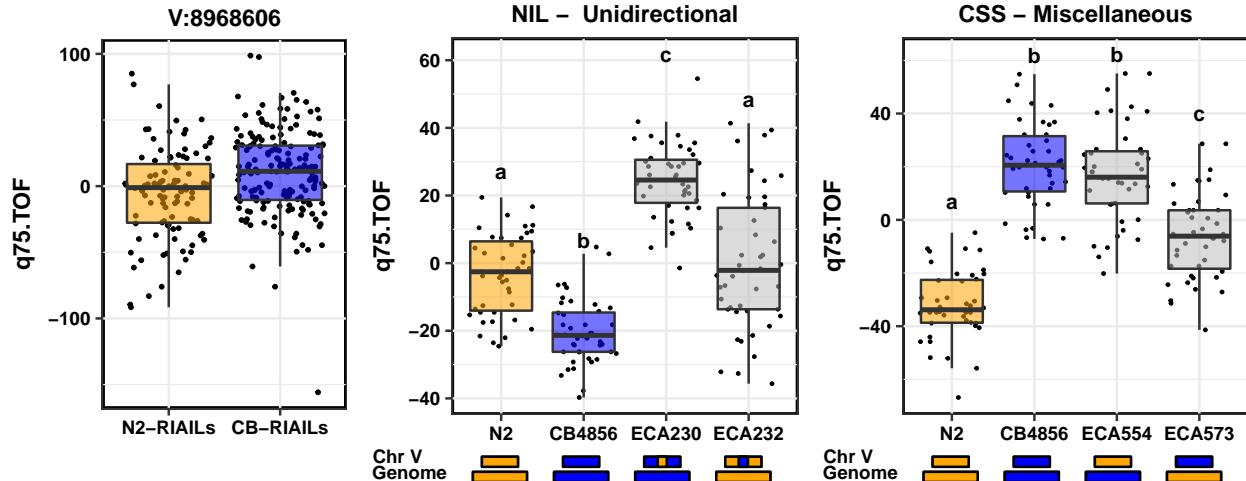
B



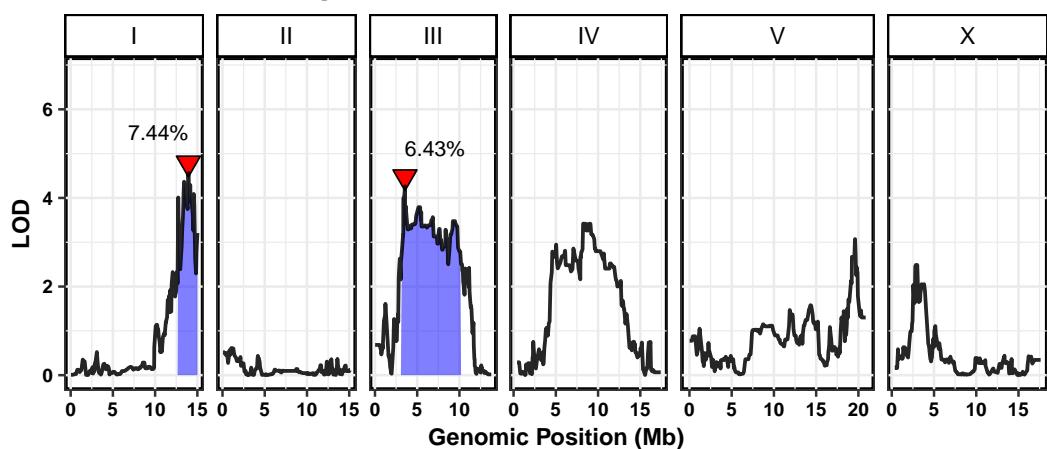
C IV:12694976



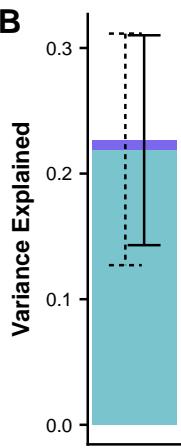
V:8968606



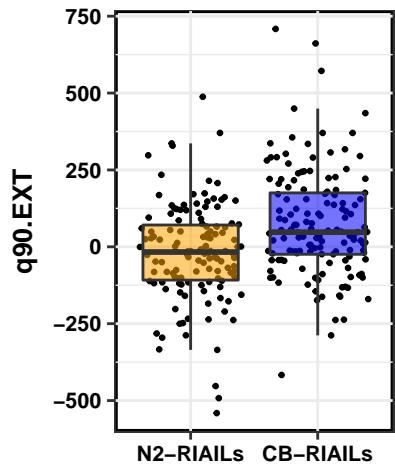
A chlorothalonil.q90.EXT



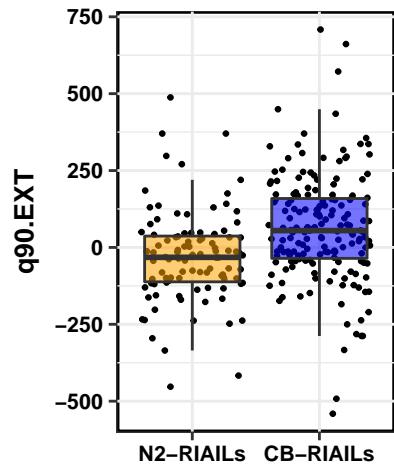
B



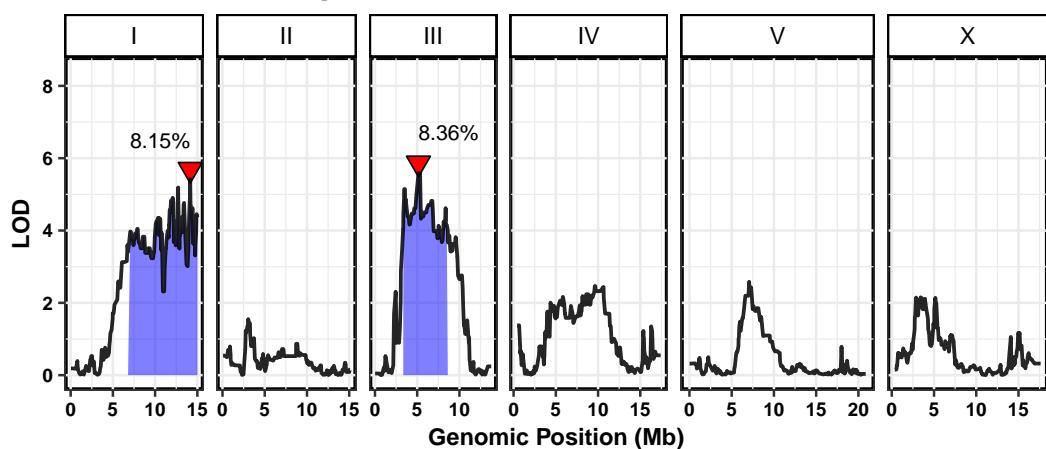
C I:13938775



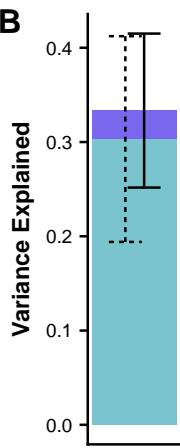
III:3553029



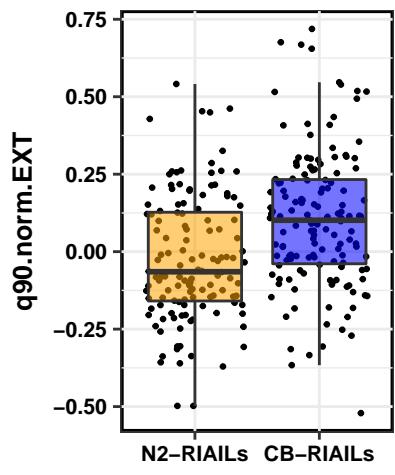
A chlorothalonil.q90.norm.EXT



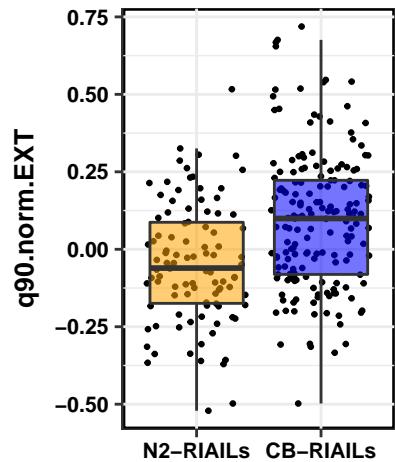
B

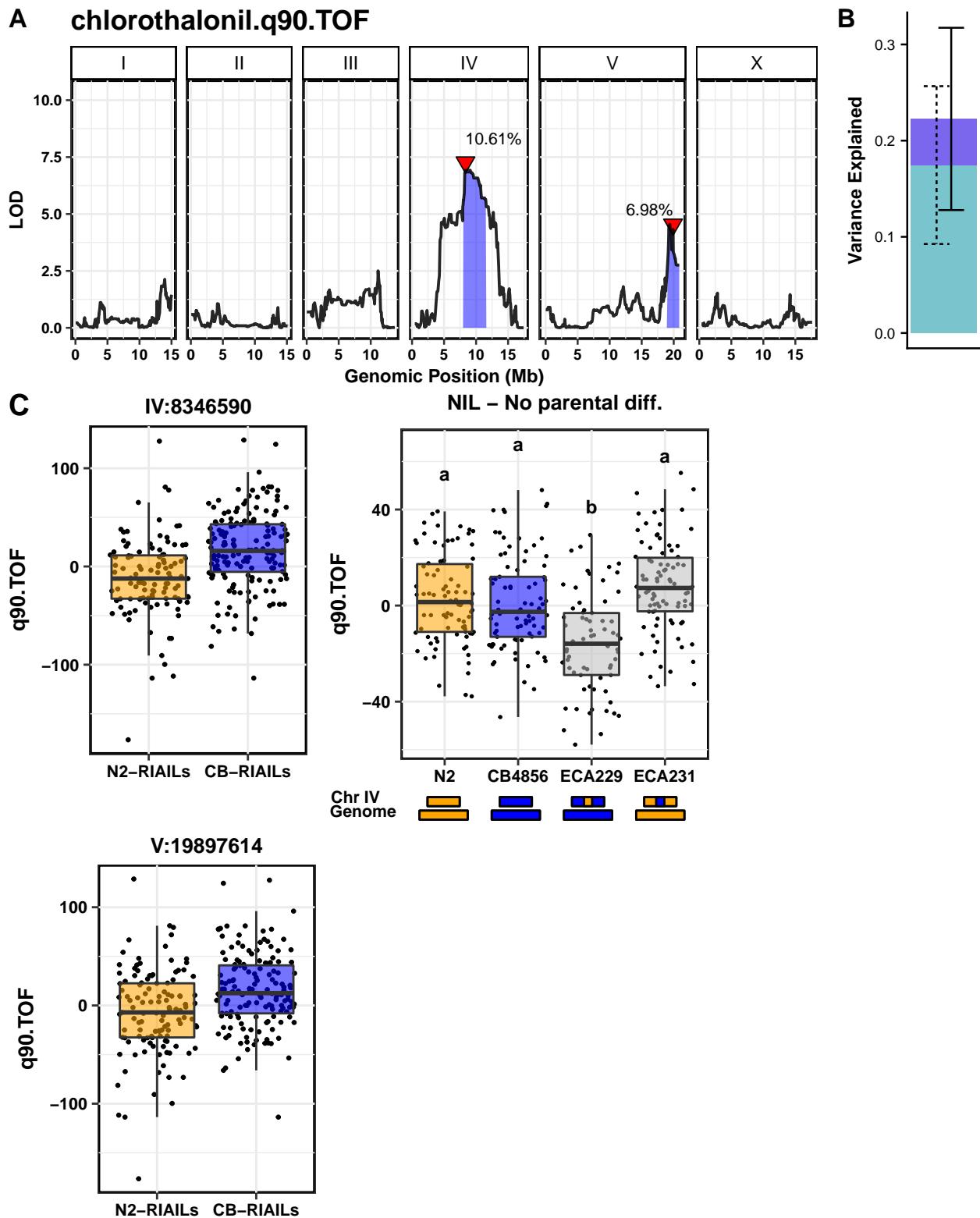


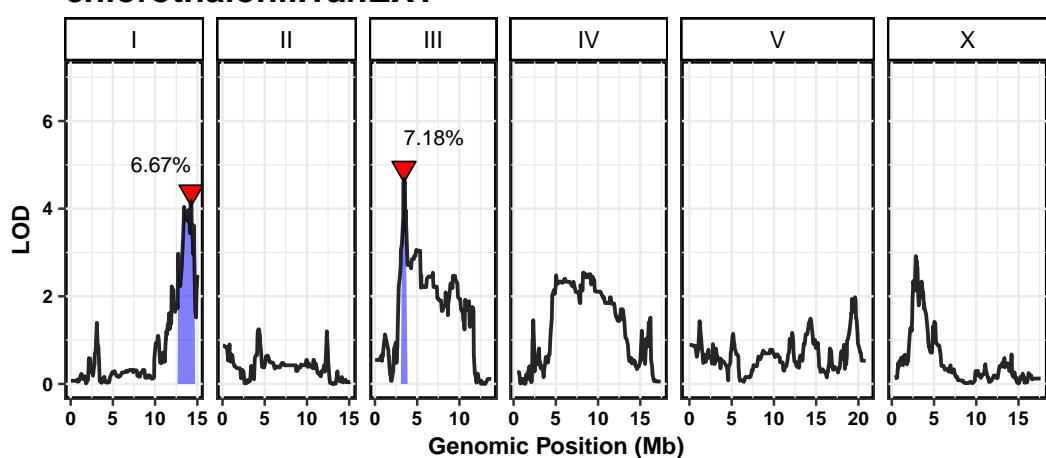
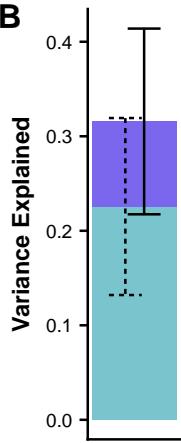
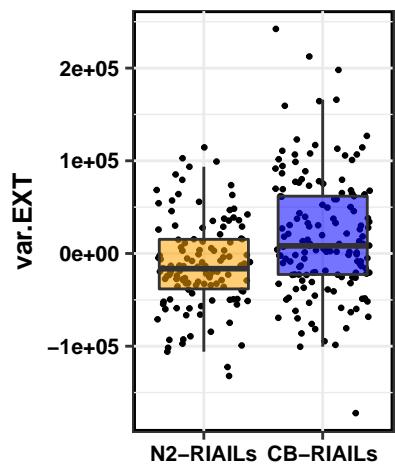
C I:14155589



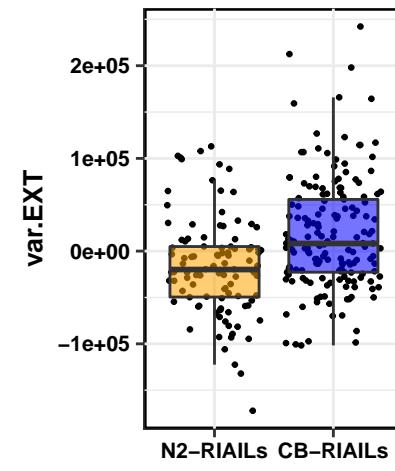
III:5150289



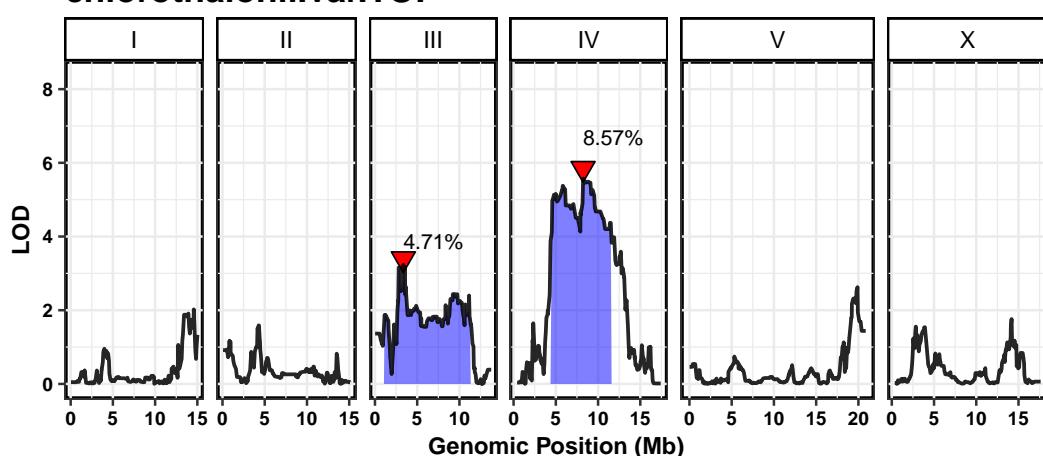


A chlorothalonil.var.EXT**B****C** I:14266541

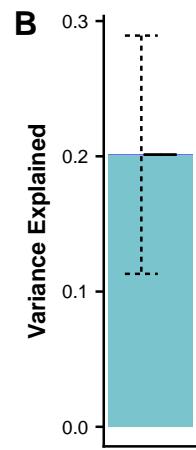
III:3435060



A chlorothalonil.var.TOF

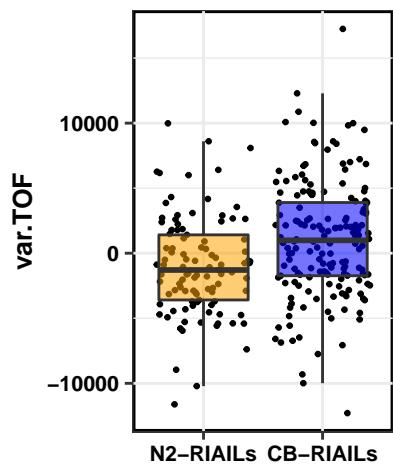


B

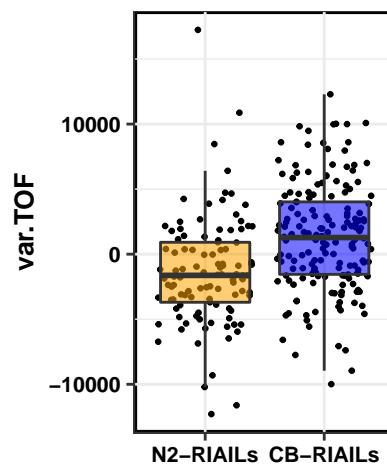


C

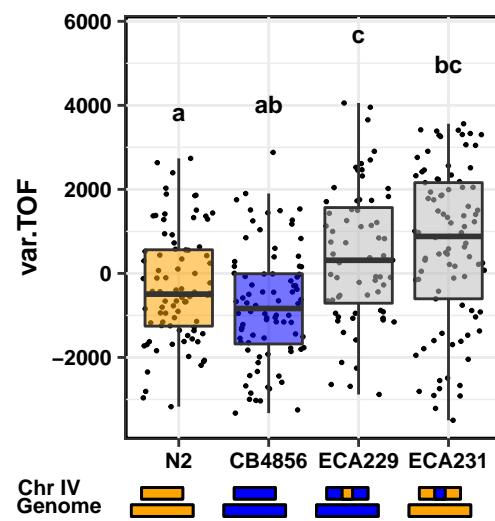
III:3359043



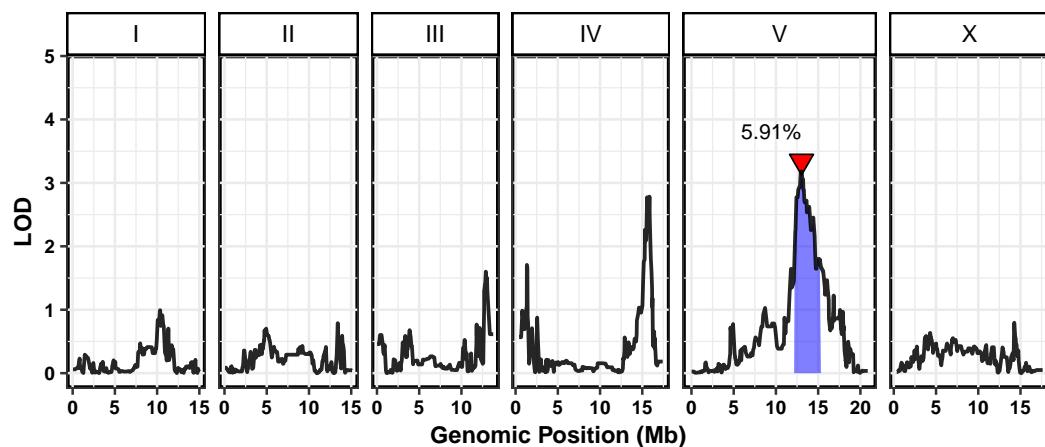
IV:8228724



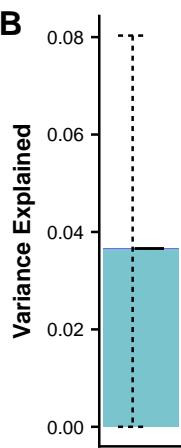
NIL – No parental diff.



A chlorpyrifos.cv.TOF

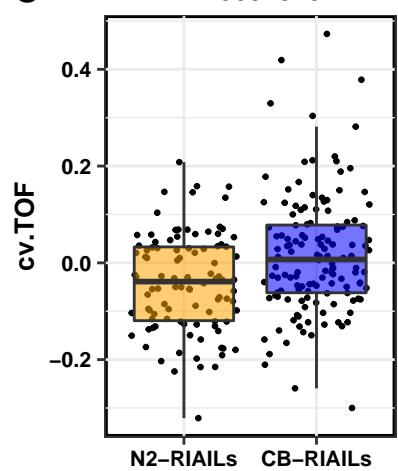


B

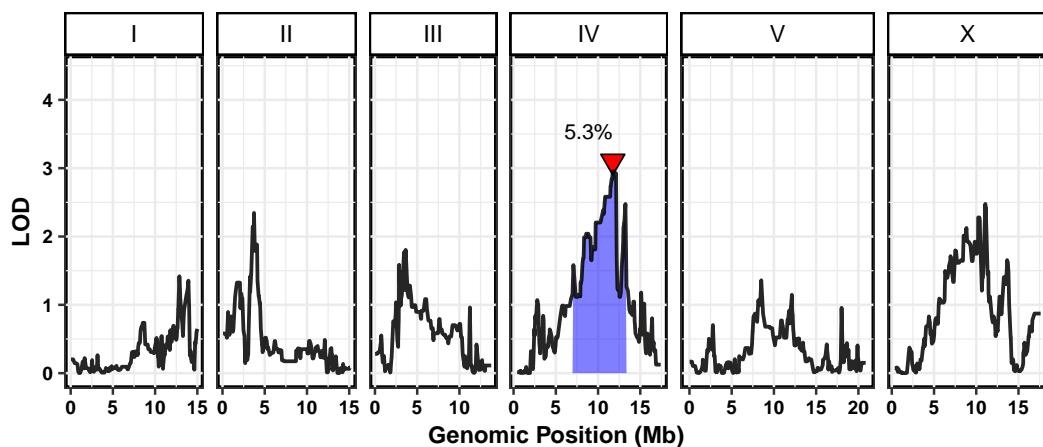


C

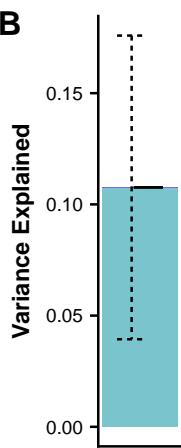
V:13031375



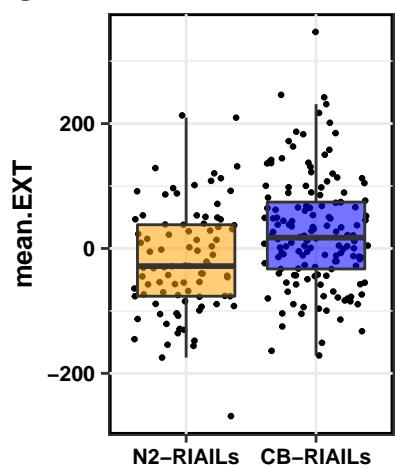
A chlorpyrifos.mean.EXT



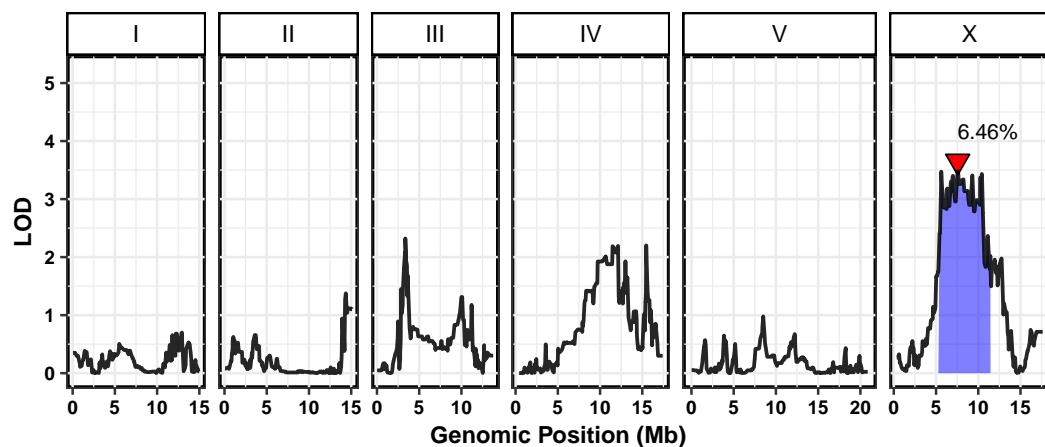
B



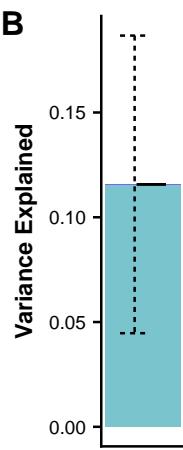
C IV:11747270



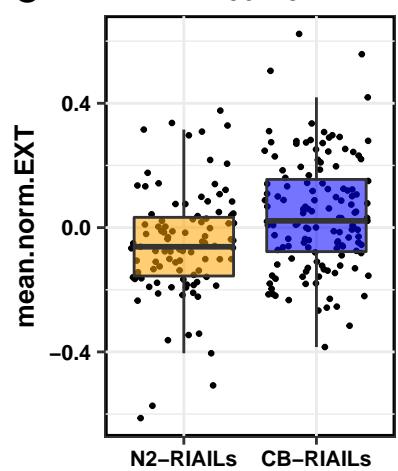
A chlorpyrifos.mean.norm.EXT



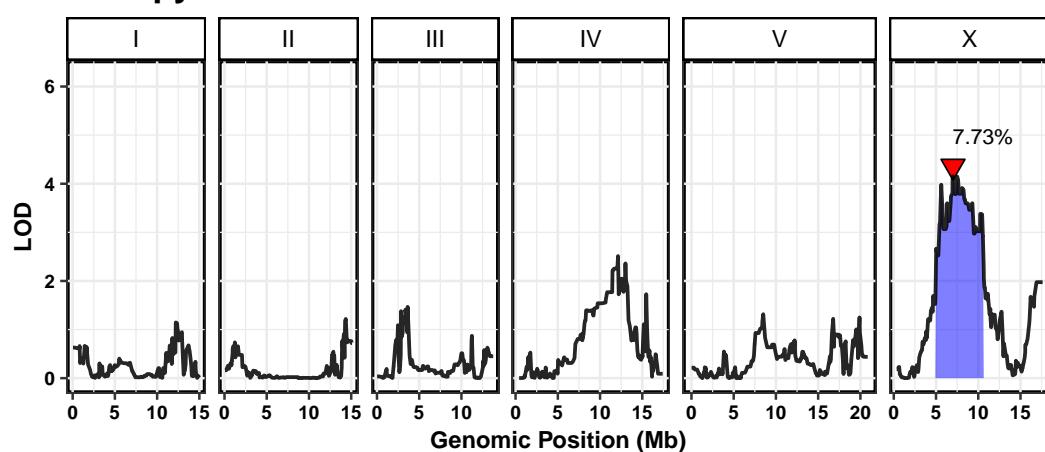
B



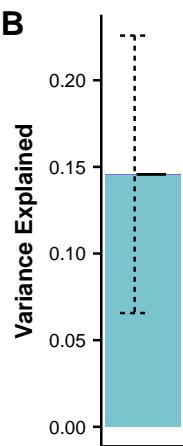
C X:7564252



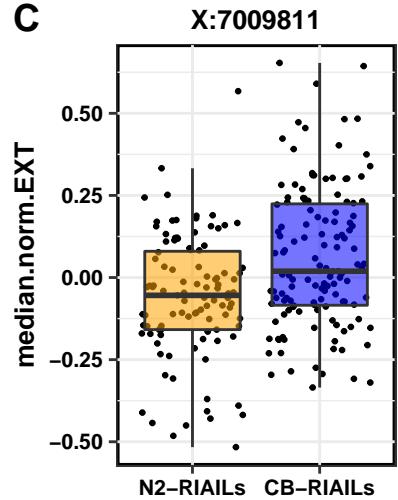
A chlorpyrifos.median.norm.EXT



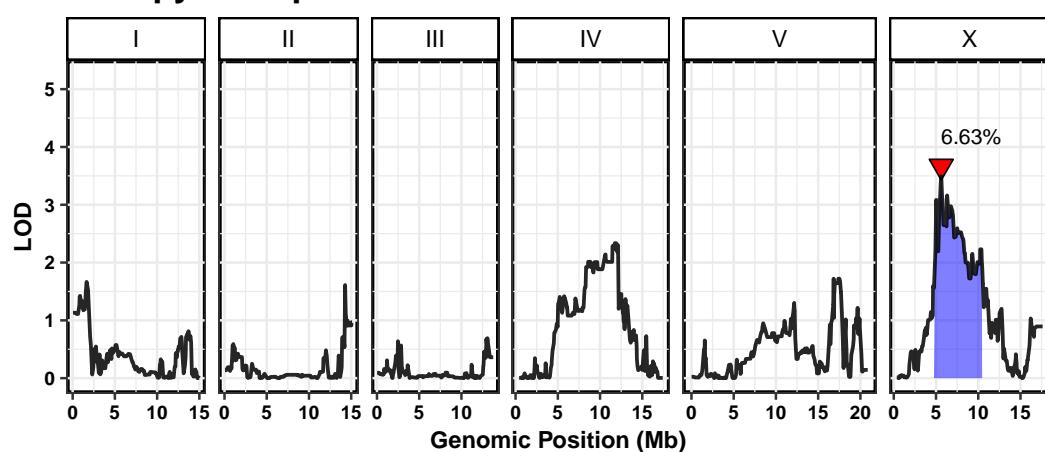
B



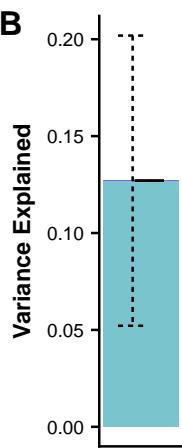
C



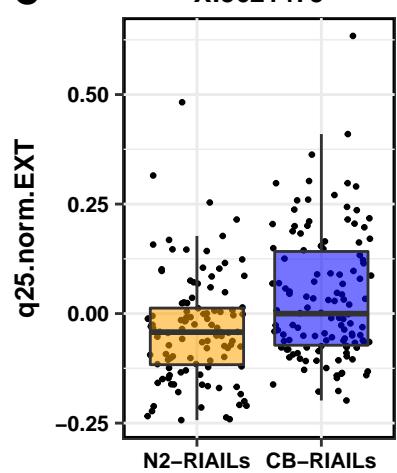
A chlorpyrifos.q25.norm.EXT



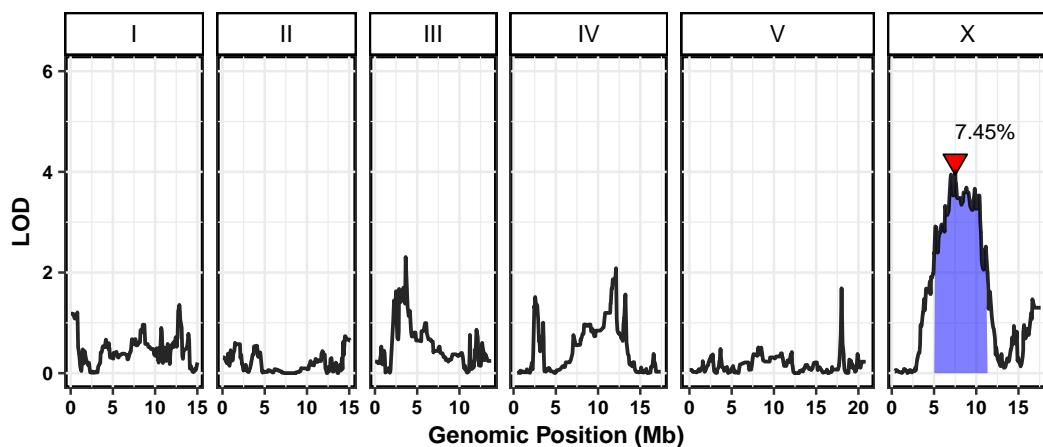
B



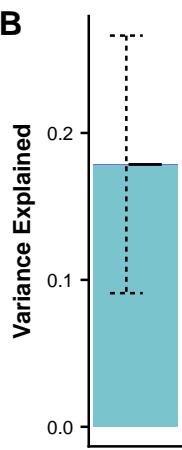
C X:5621475



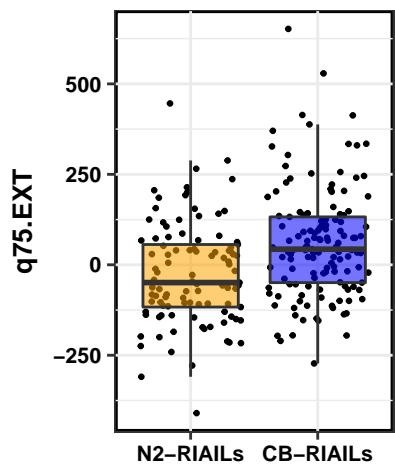
A chlorpyrifos.q75.EXT



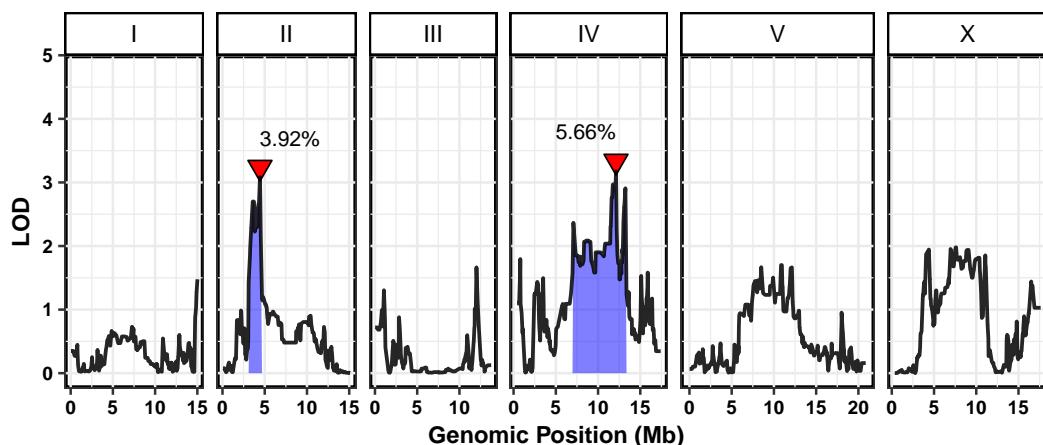
B



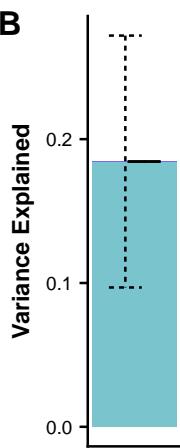
C X:7513586



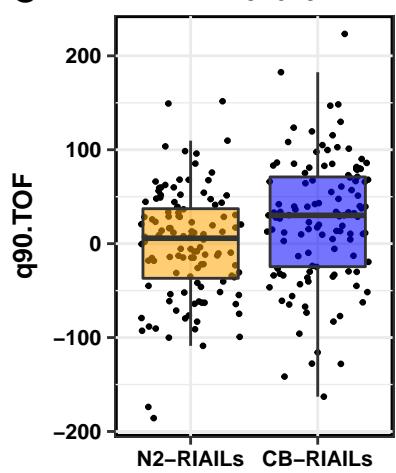
A chlorpyrifos.q90.TOF



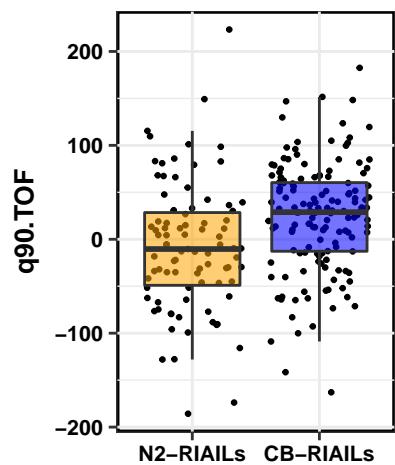
B



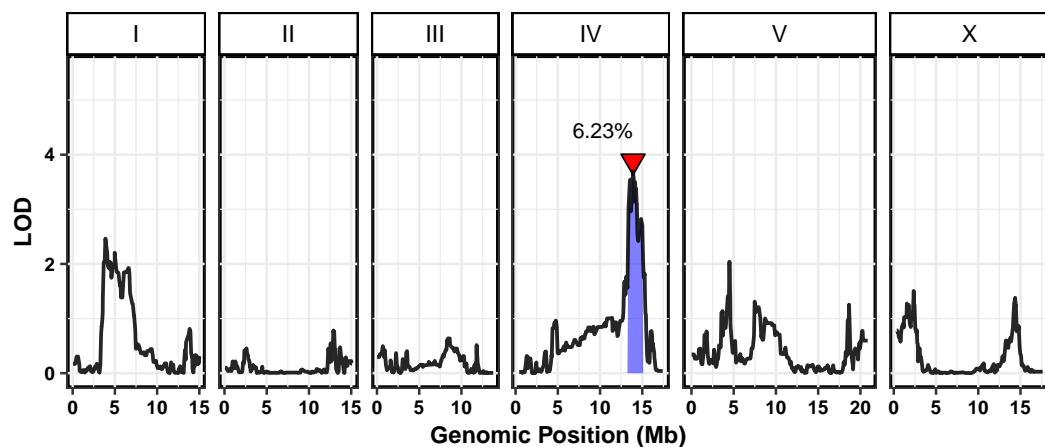
C II:4434620



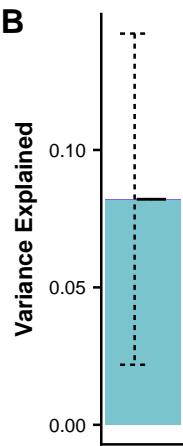
IV:12124893



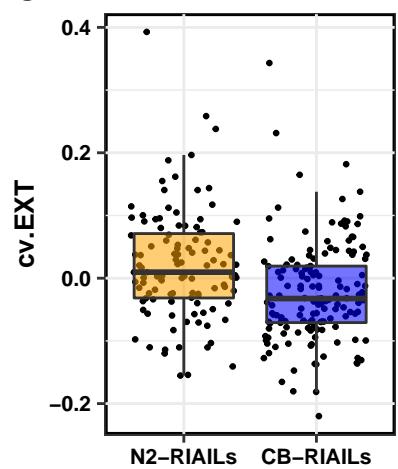
A cisplatin.cv.EXT



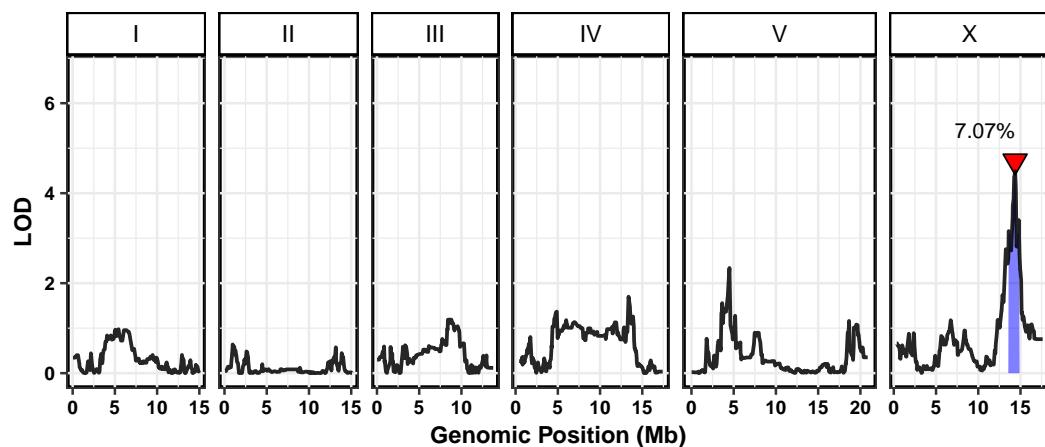
B



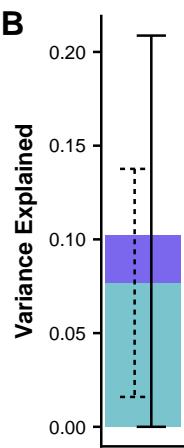
C IV:13904356



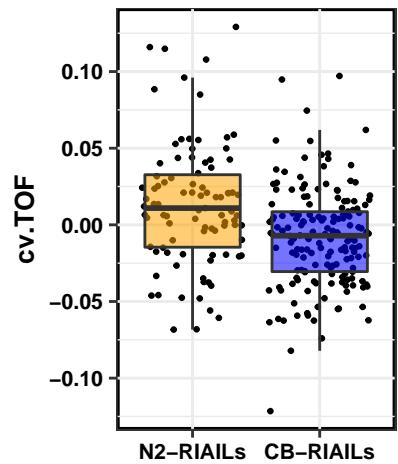
A cisplatin.cv.TOF

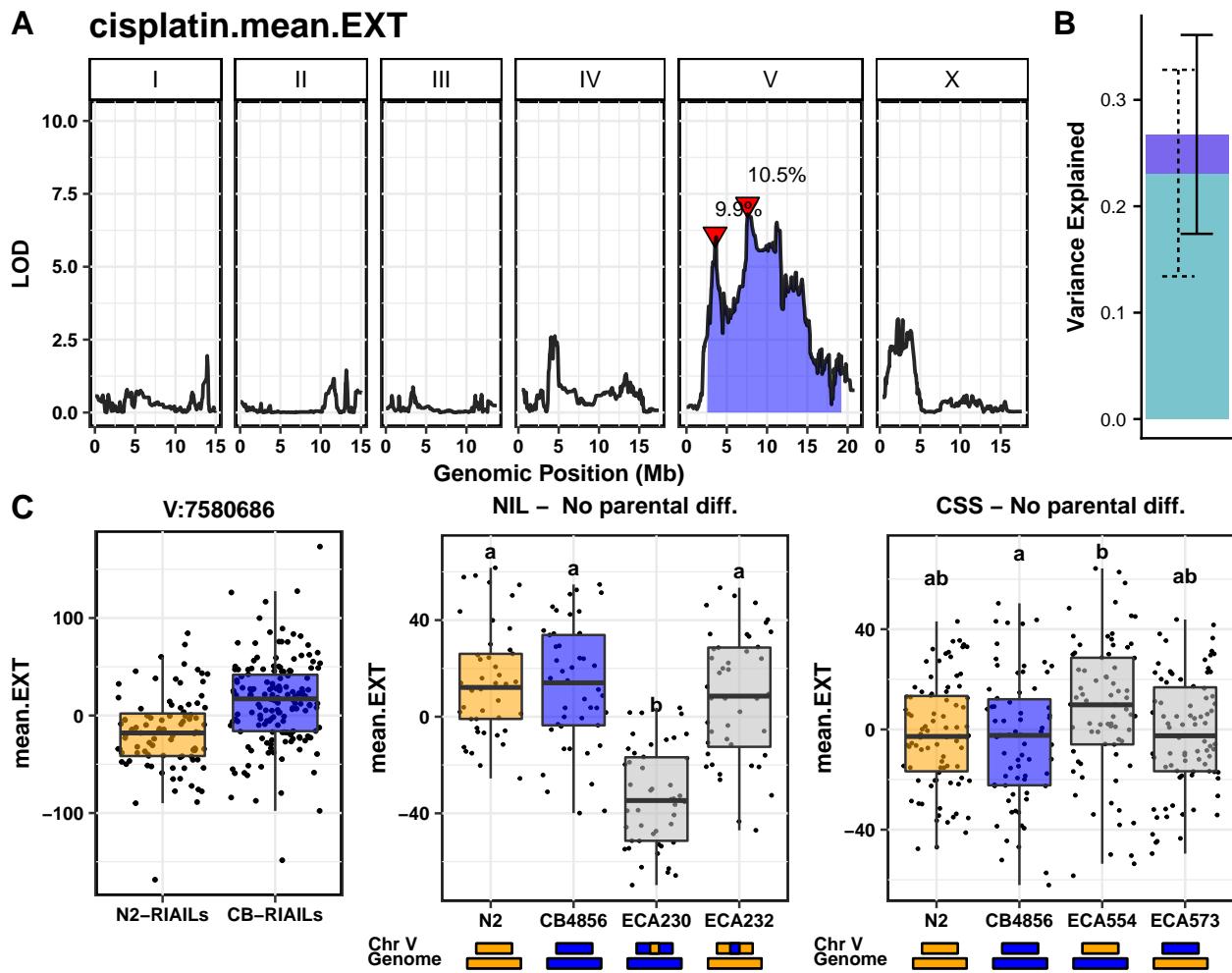


B

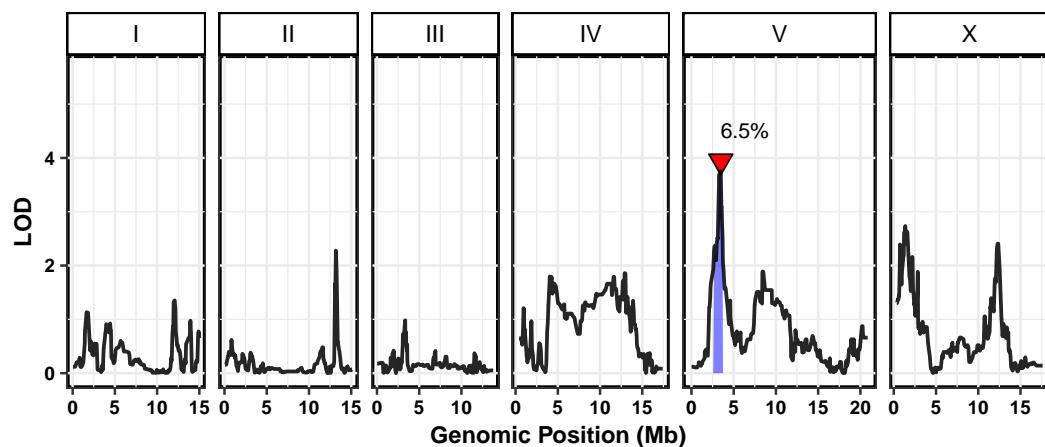


C X:14364921

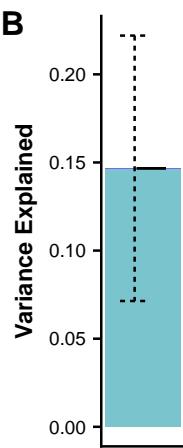




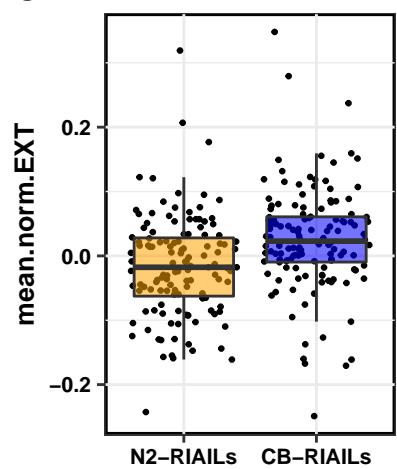
A cisplatin.mean.norm.EXT



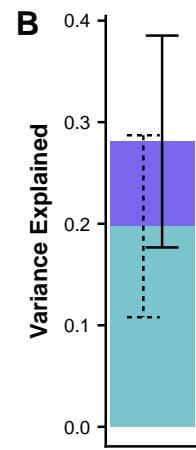
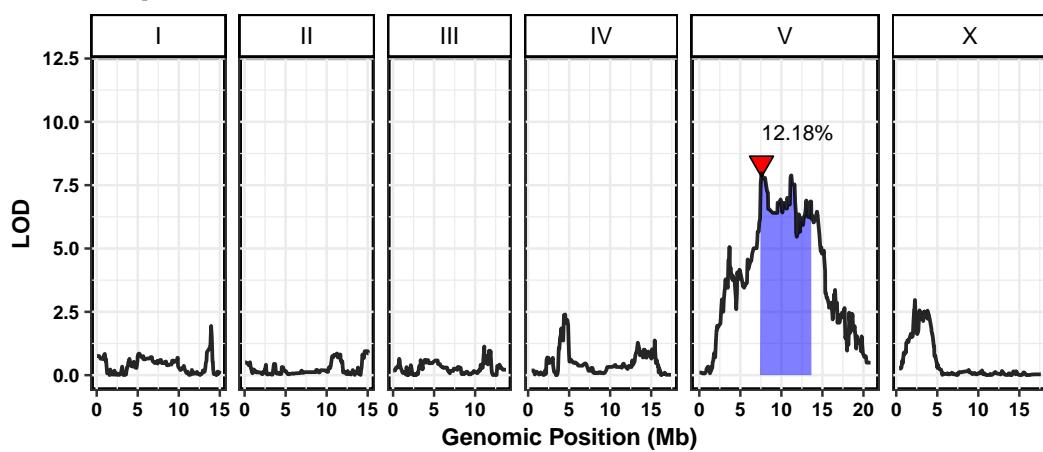
B



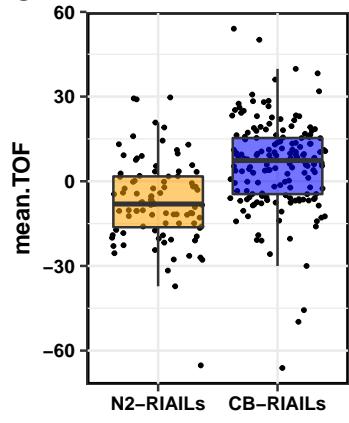
C V:3473275



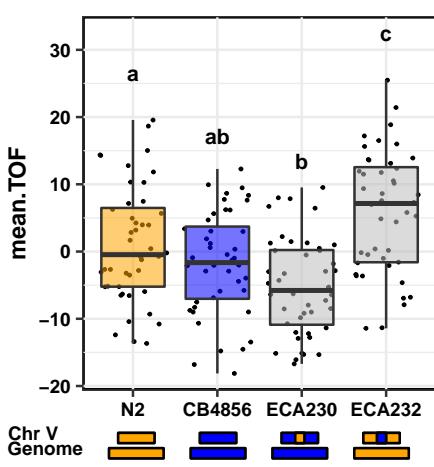
A cisplatin.mean.TOF



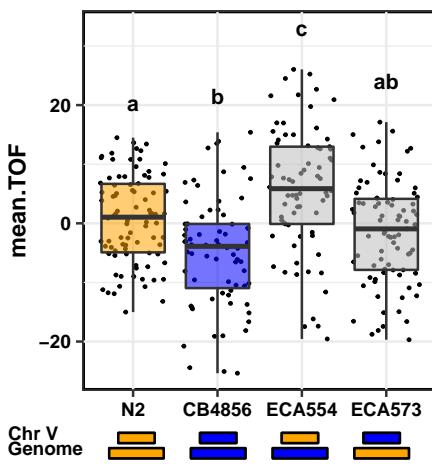
C V:7580686



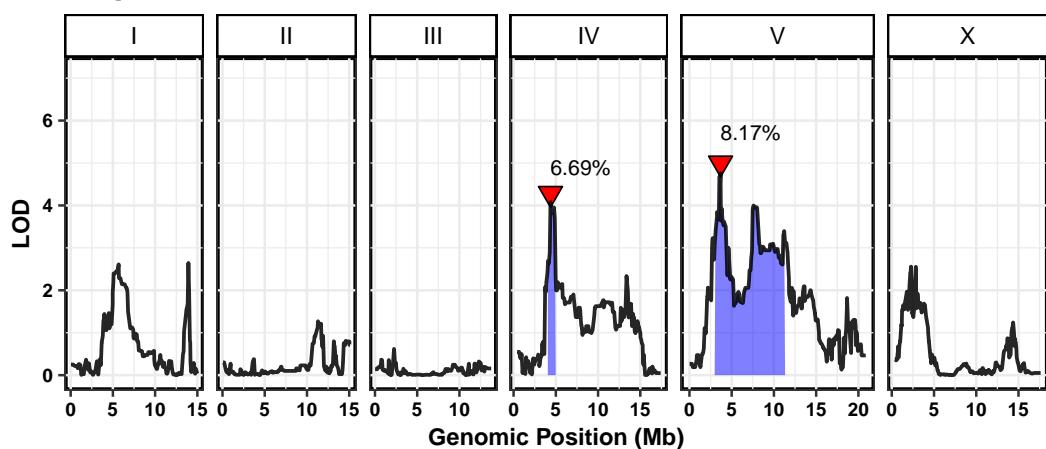
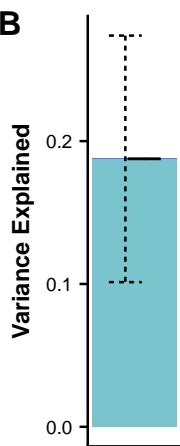
NIL – No parental diff.



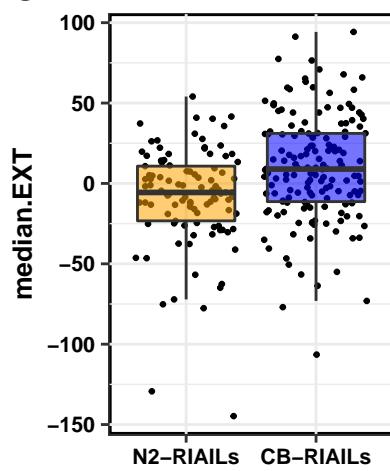
CSS – Unidirectional



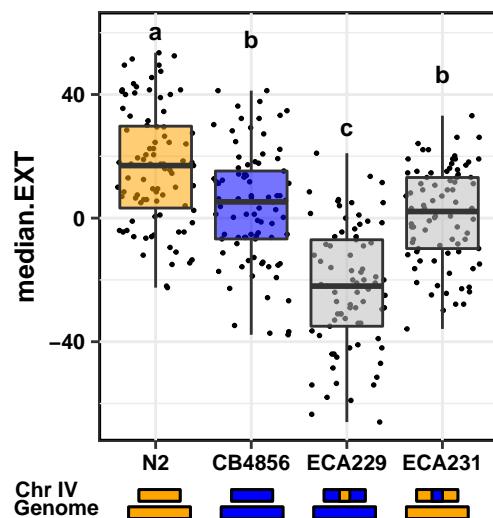
A cisplatin.median.EXT


B


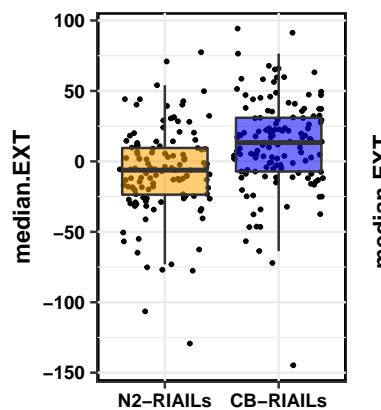
C IV:4369098



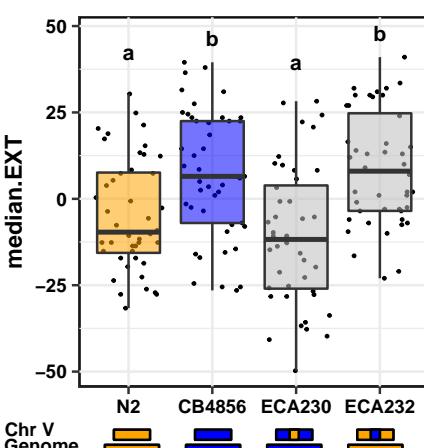
NIL – Unidirectional



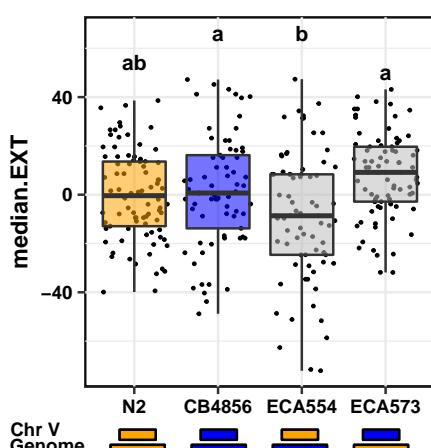
V:3682108



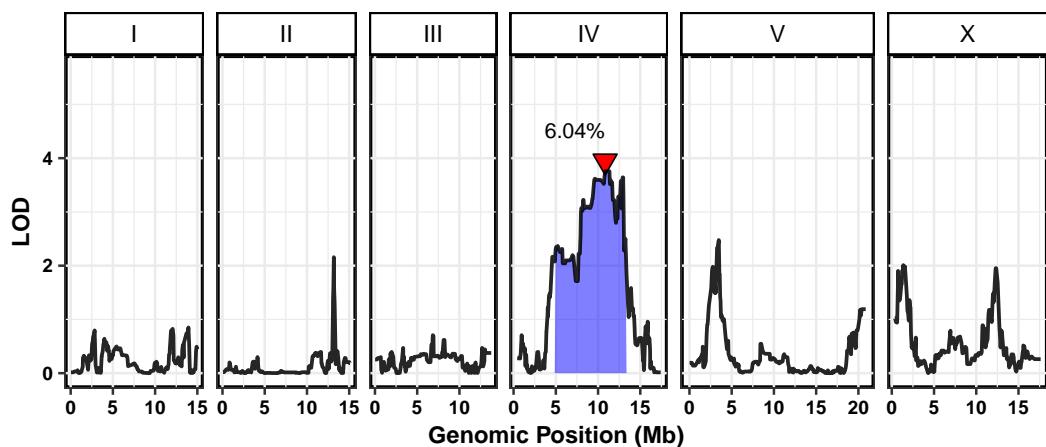
NIL – Recapitulation



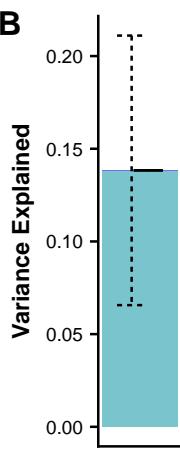
CSS – No parental diff.



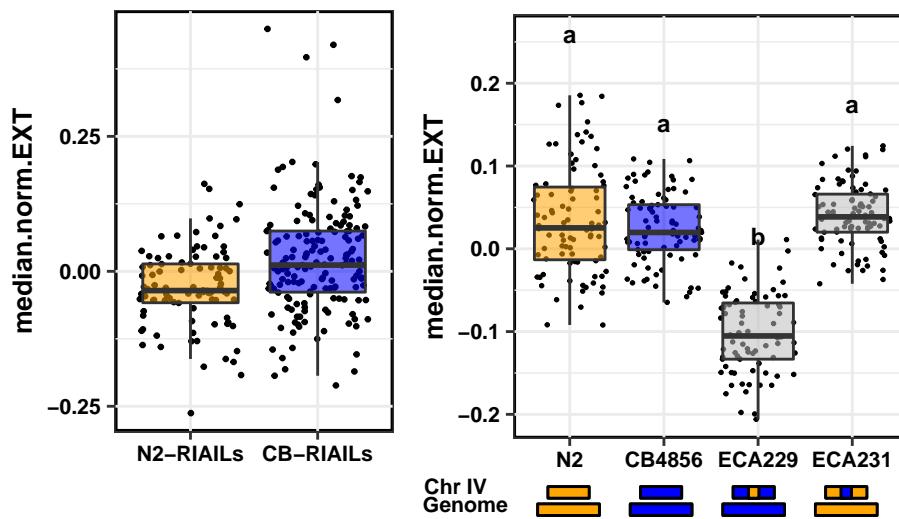
A cisplatin.median.norm.EXT



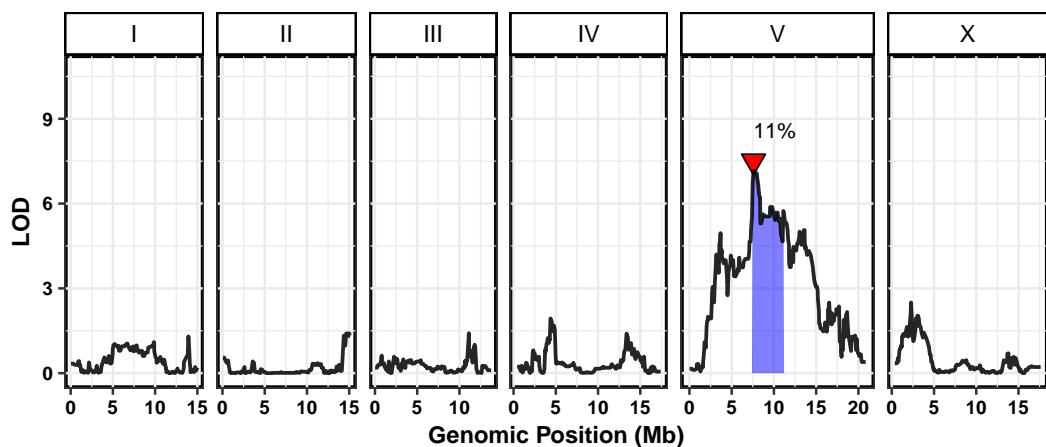
B



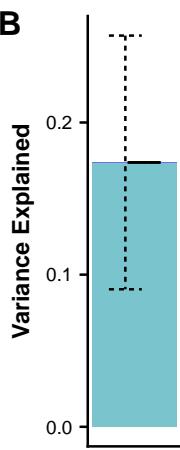
C IV:10835807



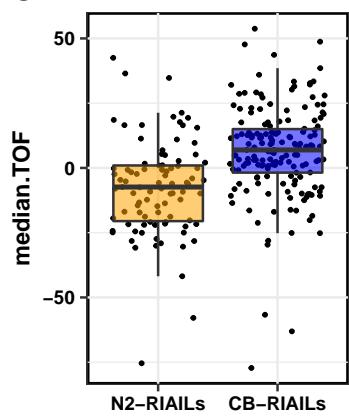
A cisplatin.median.TOF



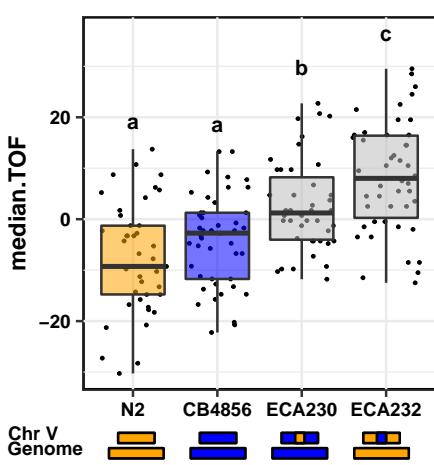
B



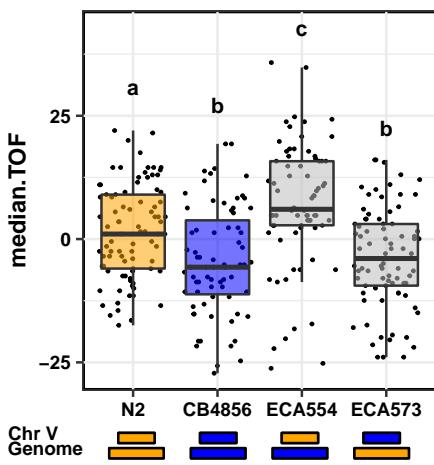
C V:7580686



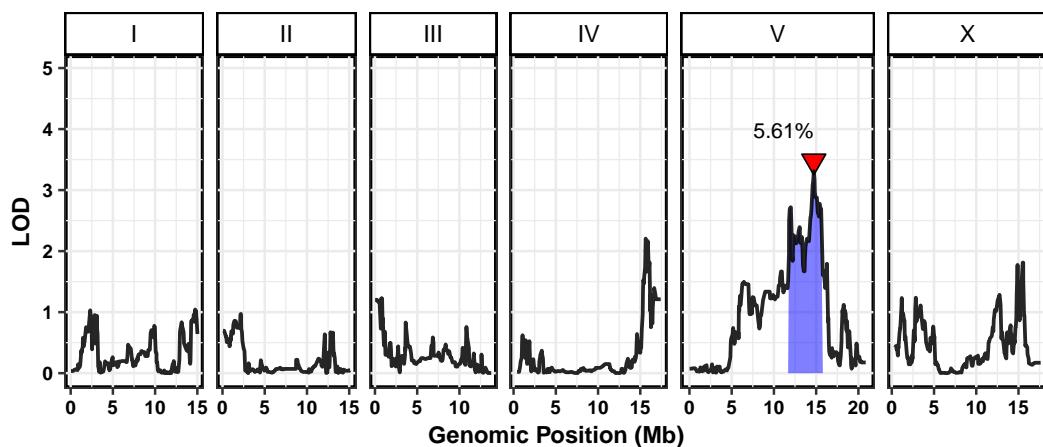
NIL – No parental diff.



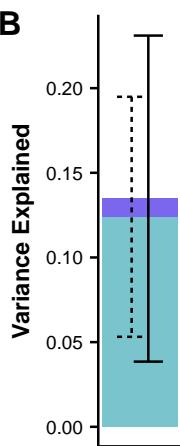
CSS – Unidirectional



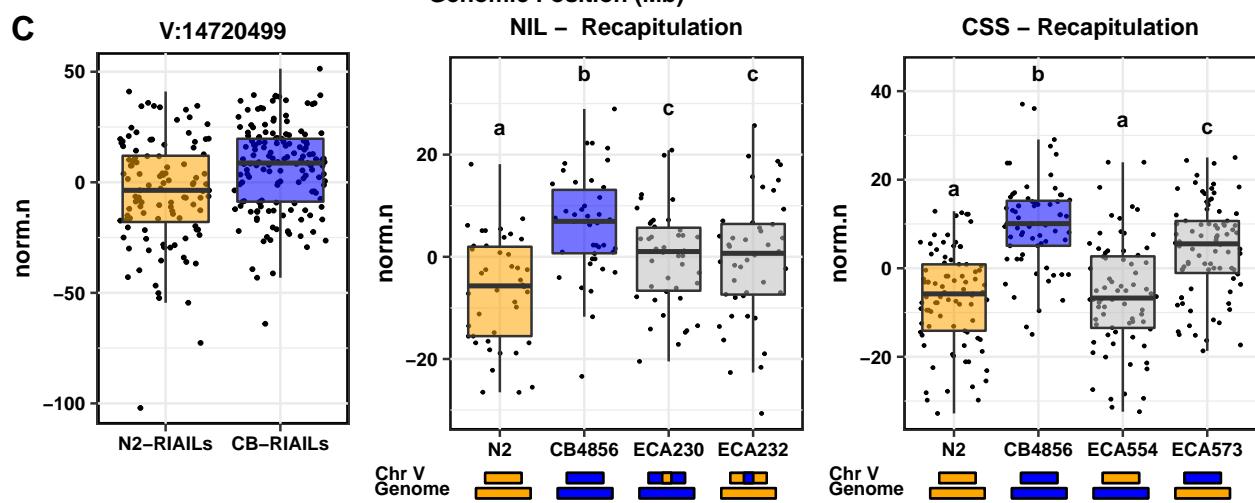
A cisplatin.norm.n



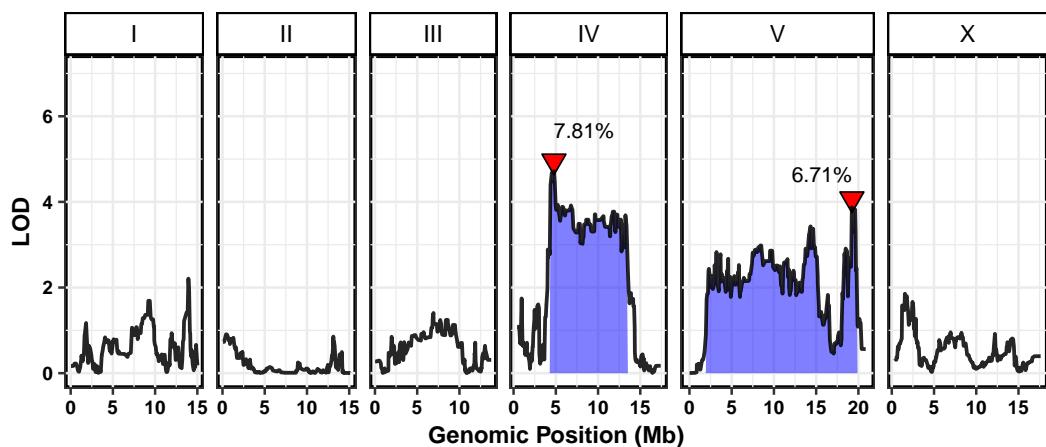
B



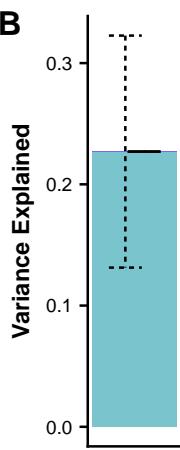
C



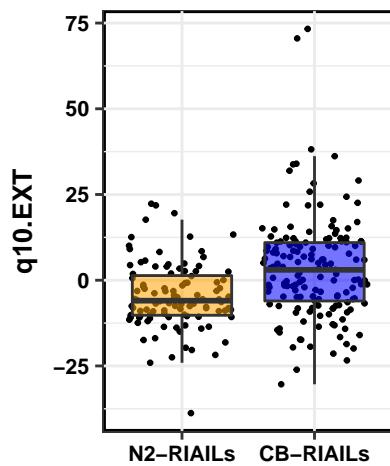
A cisplatin.q10.EXT



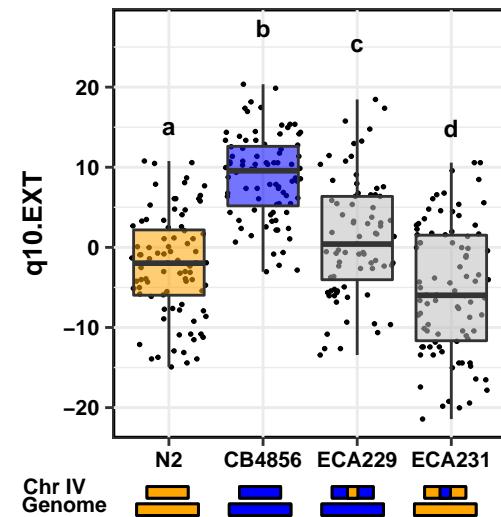
B



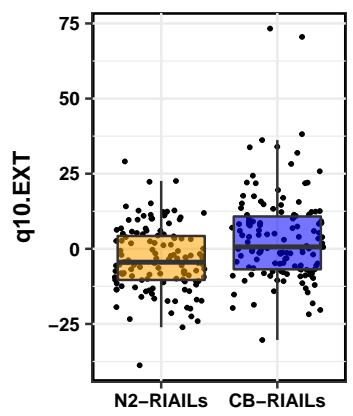
C IV:4779025



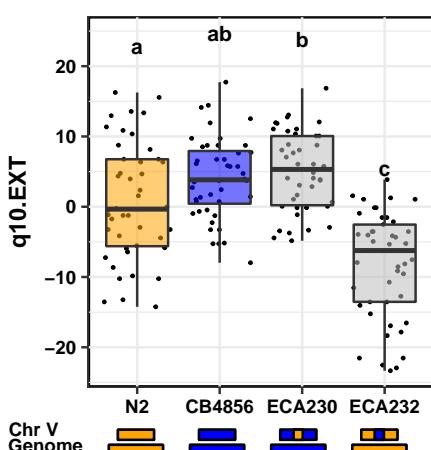
NIL – Unidirectional



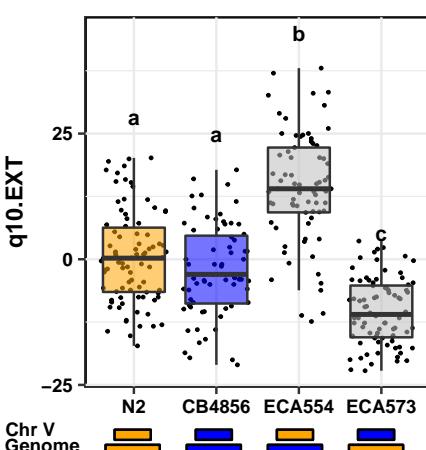
V:19231588



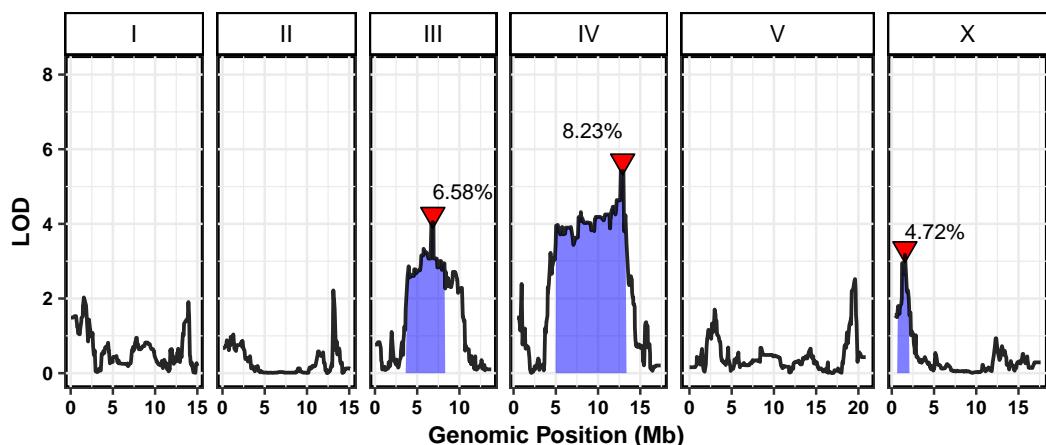
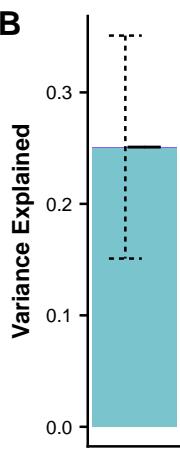
NIL – No parental diff.



CSS – No parental diff.

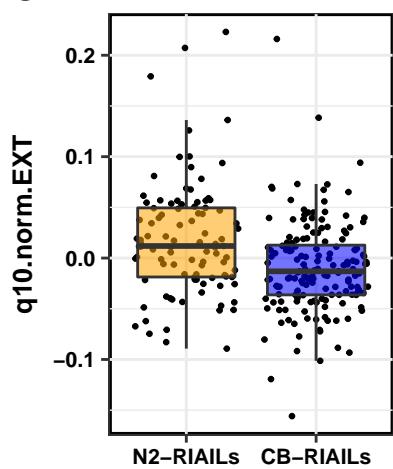


A cisplatin.q10.norm.EXT

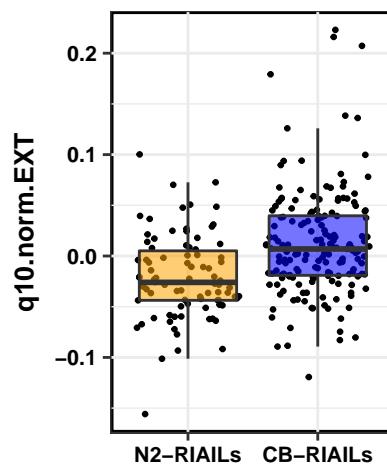

B


C

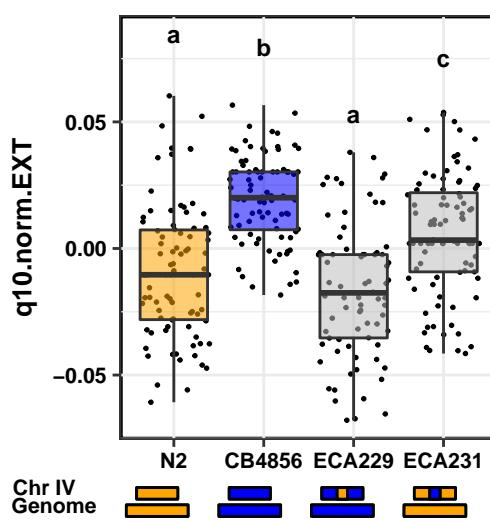
III:6847236

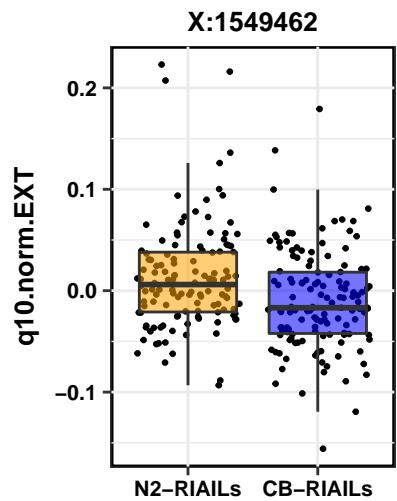


IV:12908590

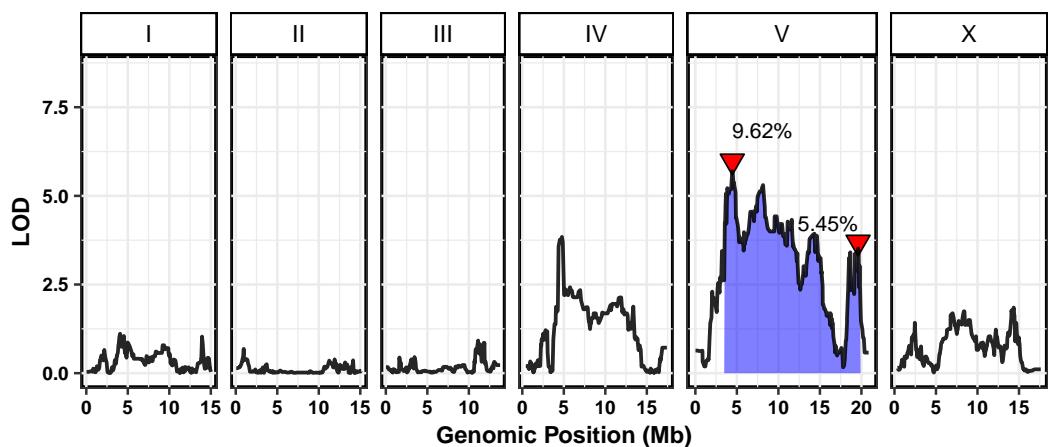


NIL – Recapitulation

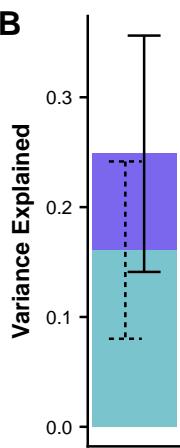




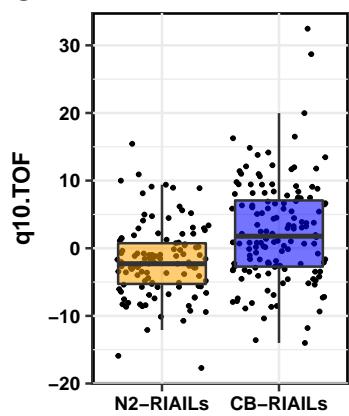
A cisplatin.q10.TOF



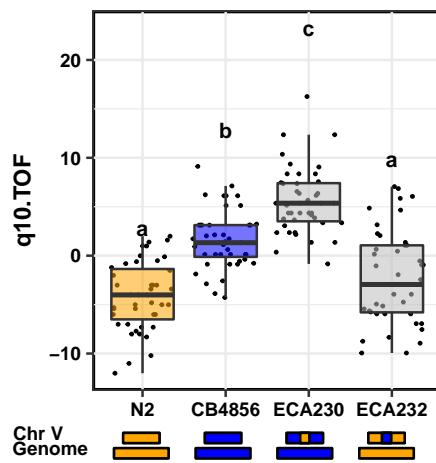
B



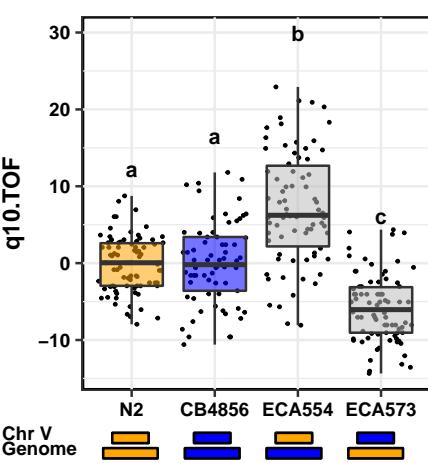
C V:4442141



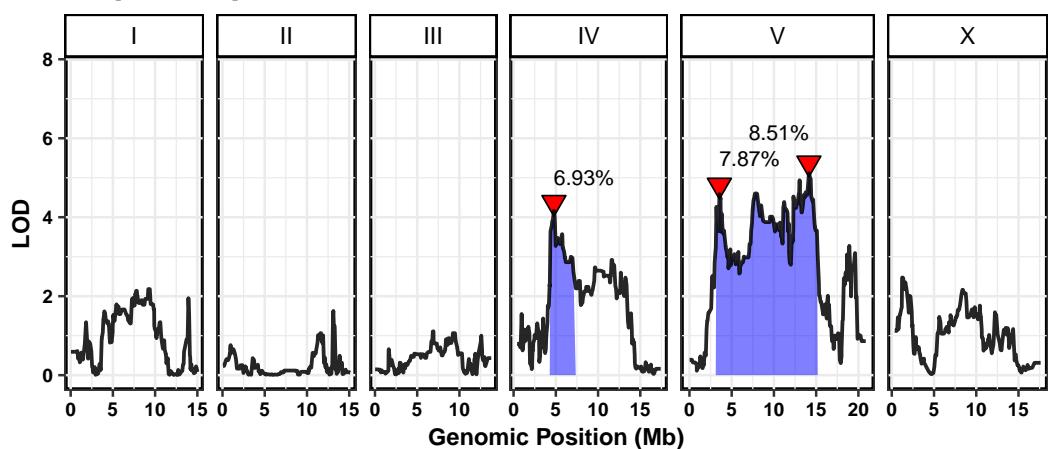
NIL – Unidirectional



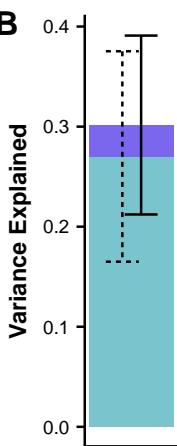
CSS – No parental diff.



A cisplatin.q25.EXT

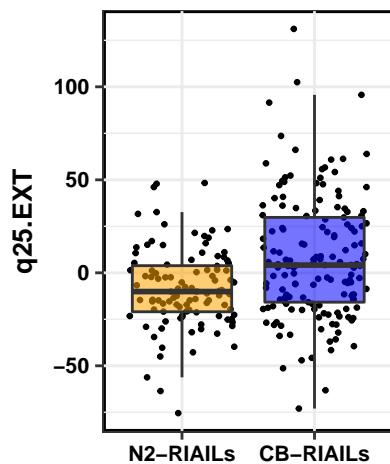


B

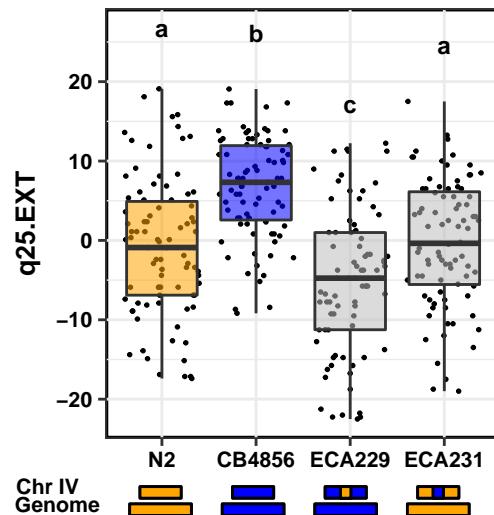


C

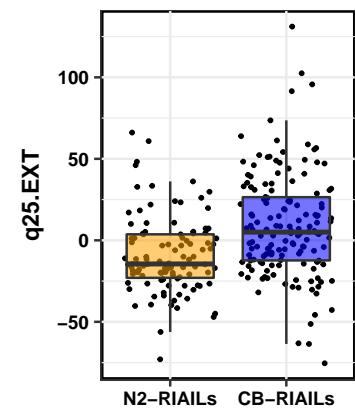
IV:4779025



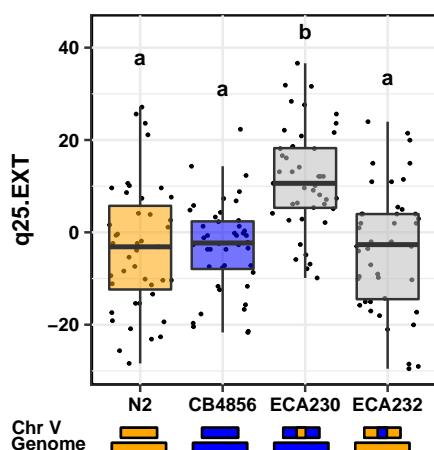
NIL – Unidirectional



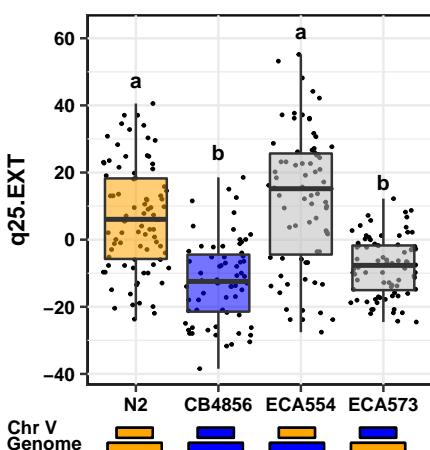
V:14140433



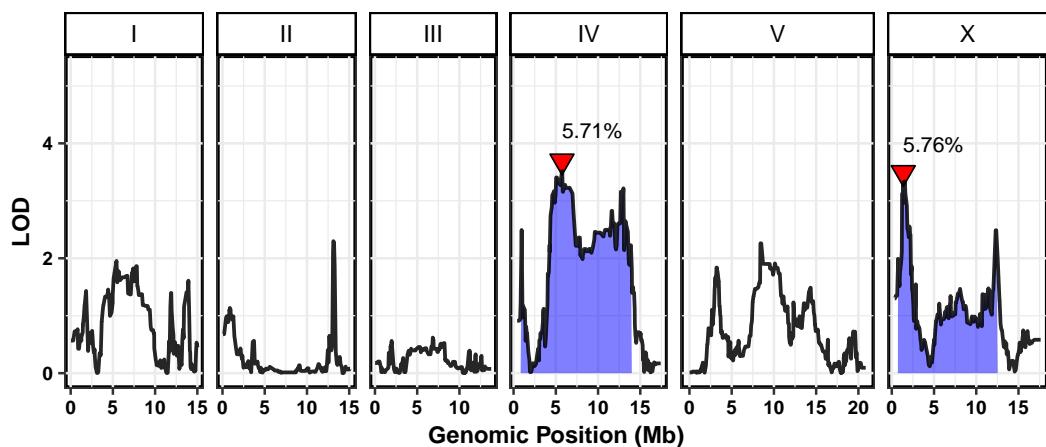
NIL – No parental diff.



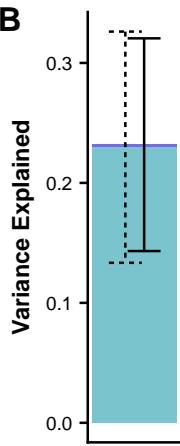
CSS – Recapitulation



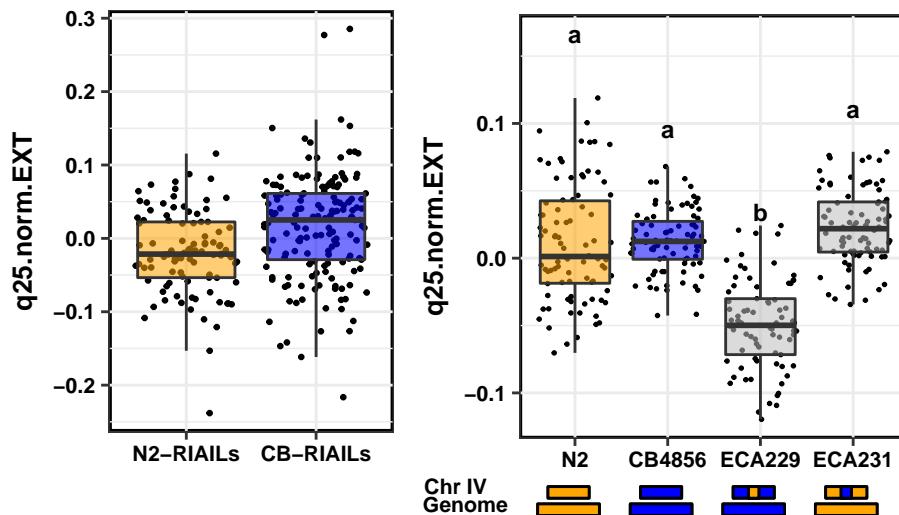
A cisplatin.q25.norm.EXT



B

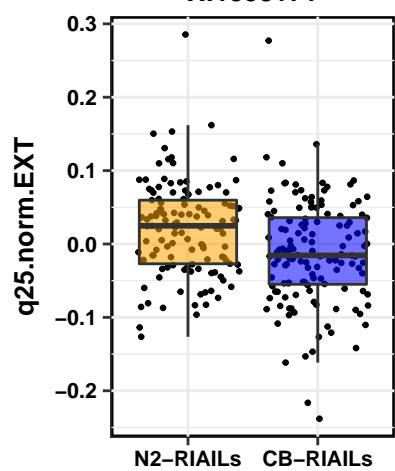


C IV:5732338

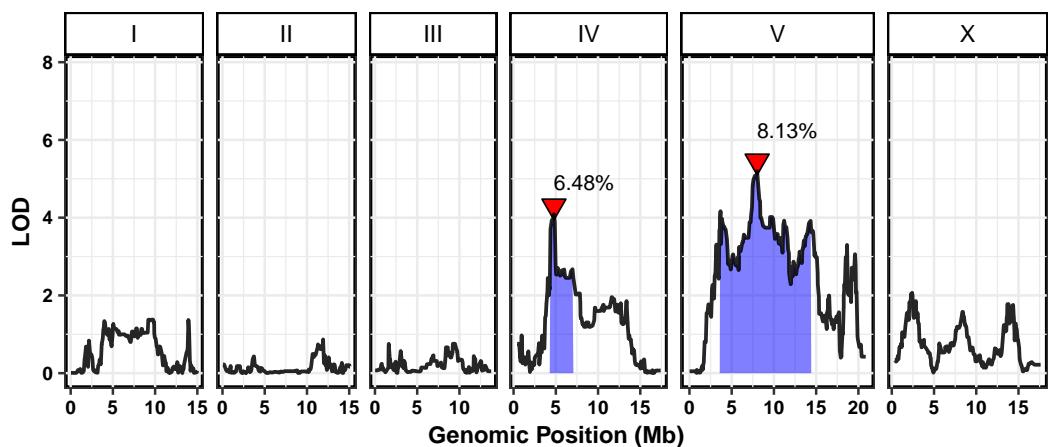


NIL – No parental diff.

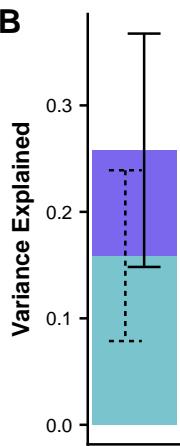
X:1358171



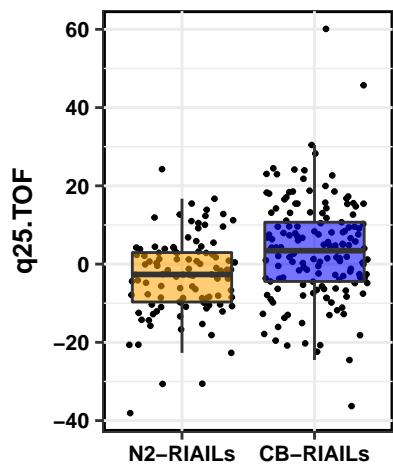
A cisplatin.q25.TOF



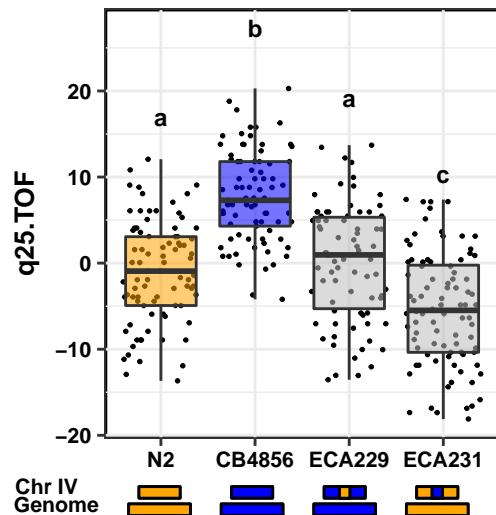
B



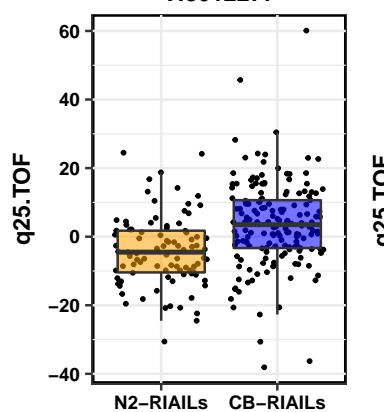
C IV:4779025



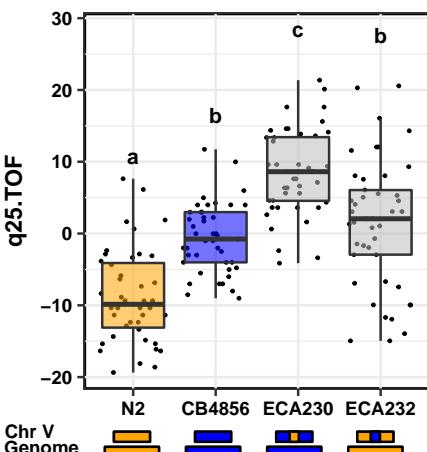
NIL – Unidirectional



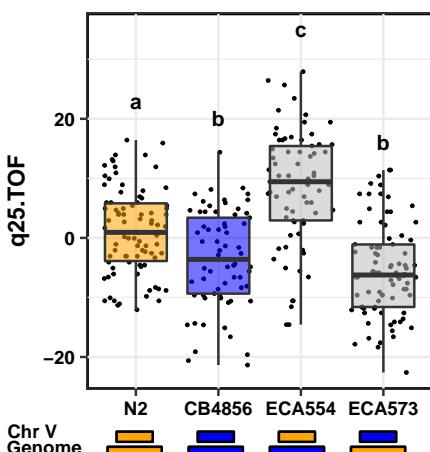
V:8012277



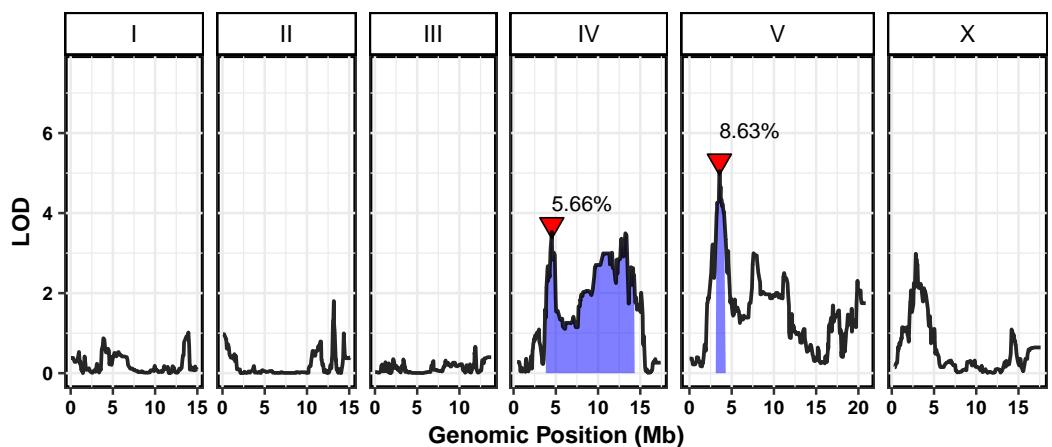
NIL – Unidirectional



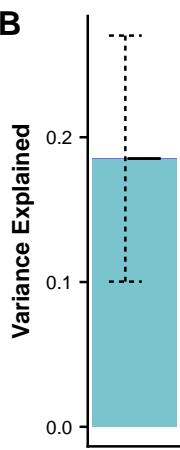
CSS – Unidirectional



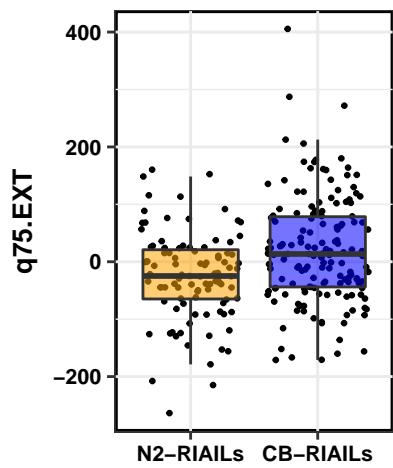
A cisplatin.q75.EXT



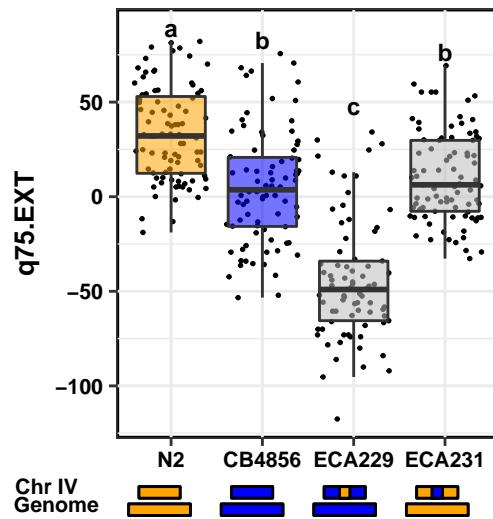
B



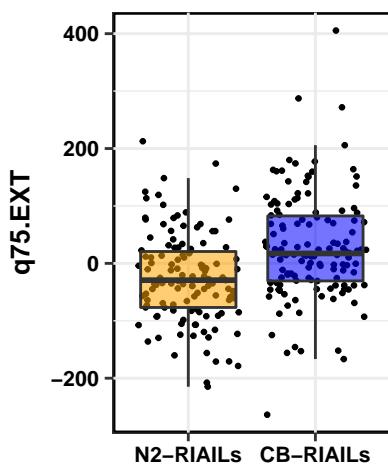
C IV:4526752



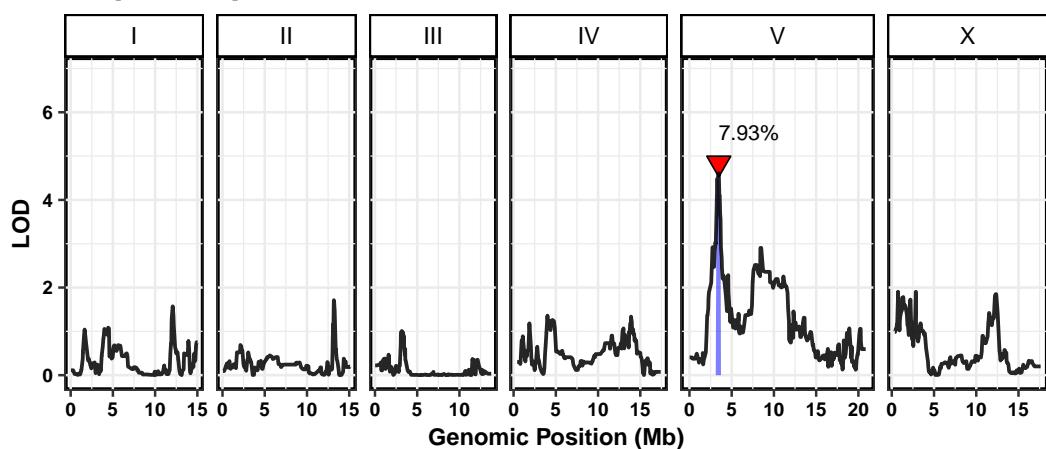
NIL – Unidirectional



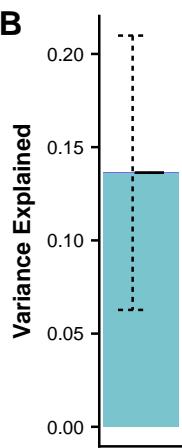
V:3545006



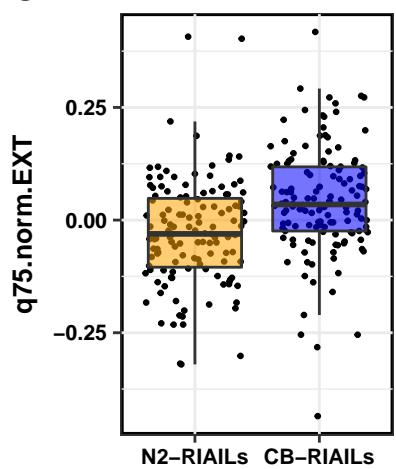
A cisplatin.q75.norm.EXT



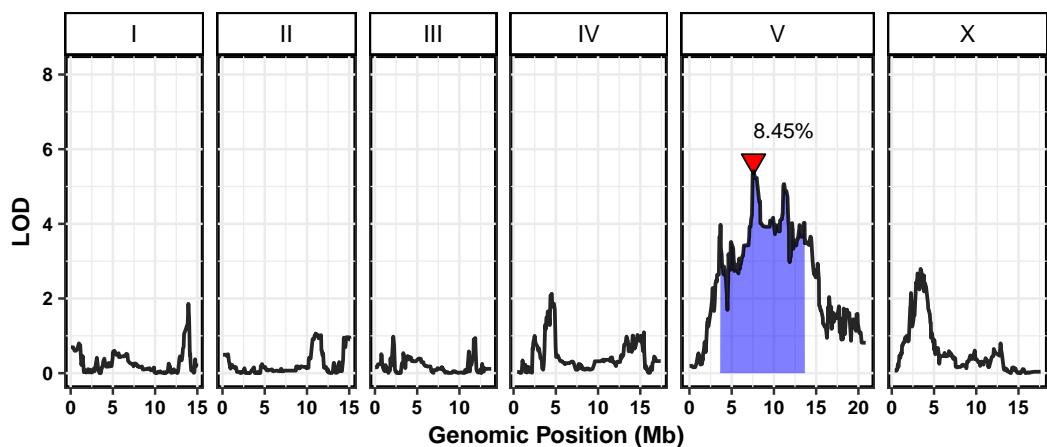
B



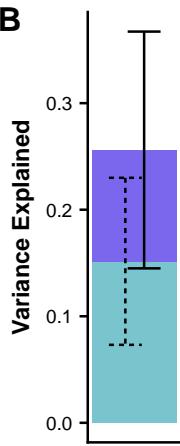
C V:3473275



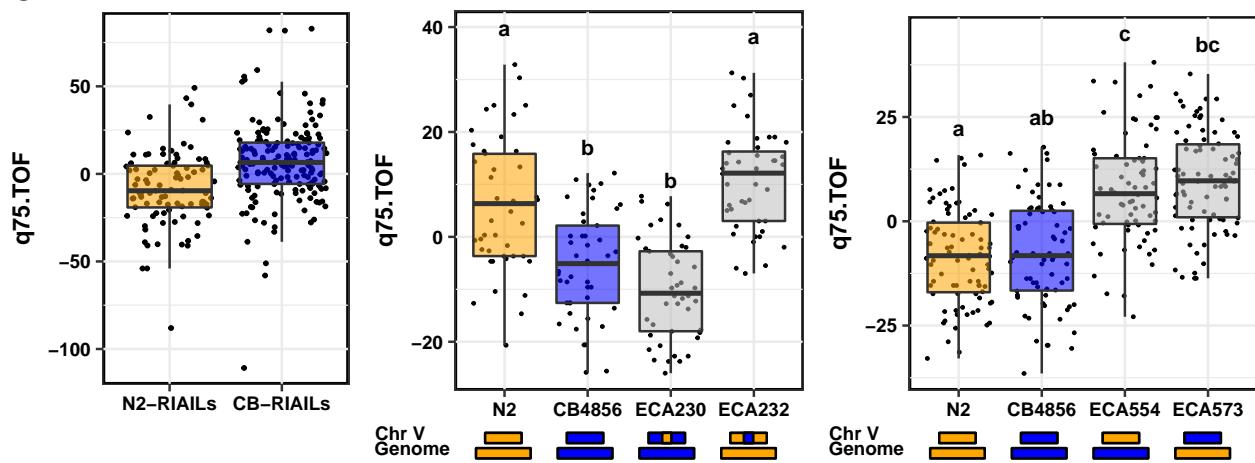
A cisplatin.q75.TOF



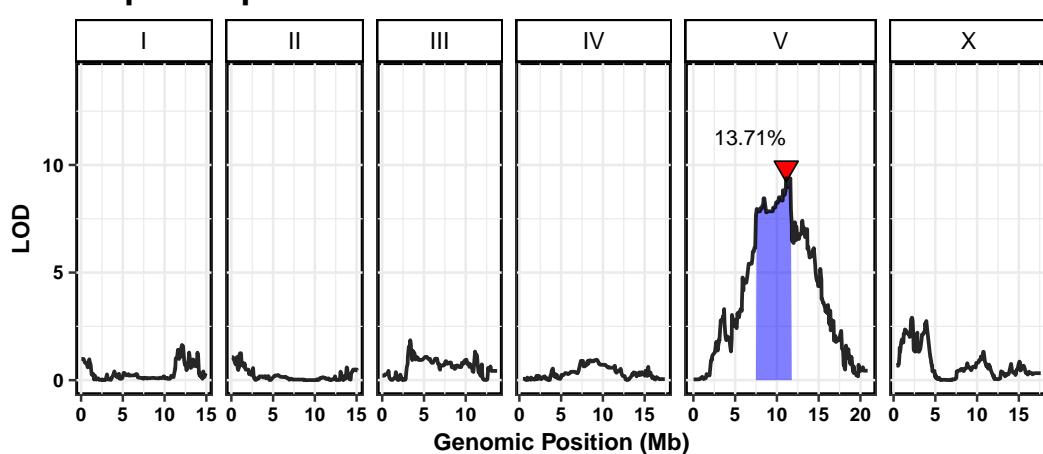
B



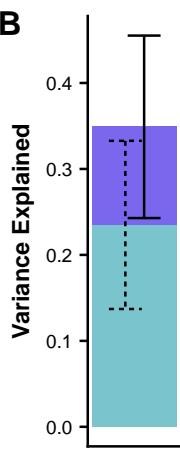
C V:7580686



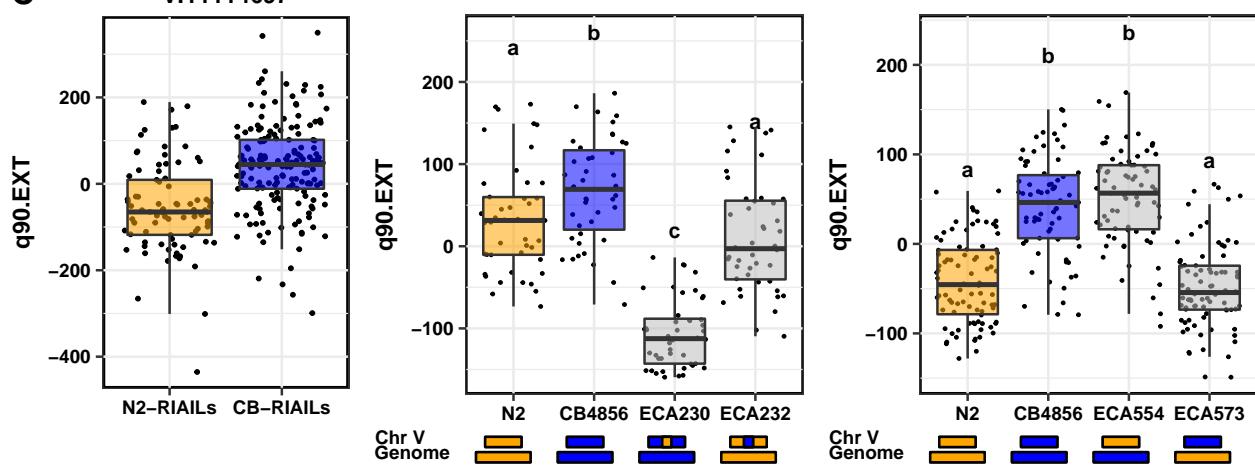
A cisplatin.q90.EXT



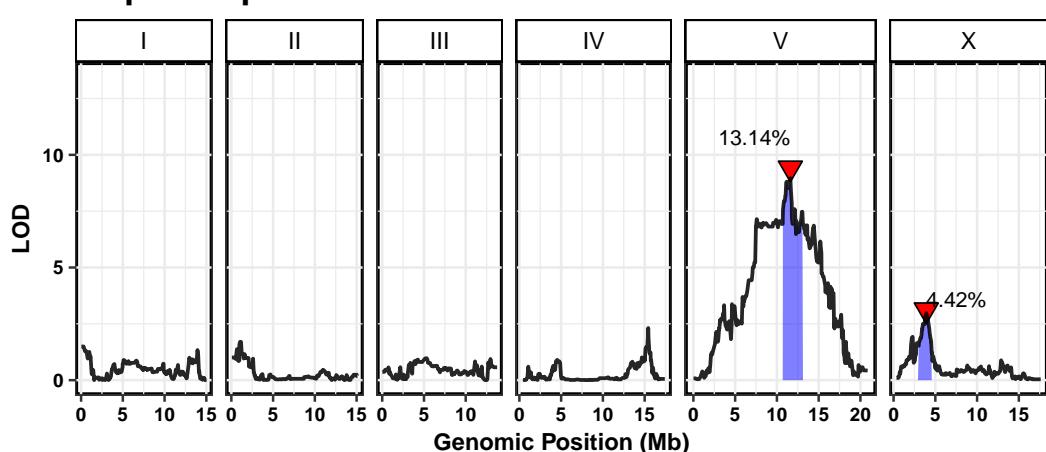
B



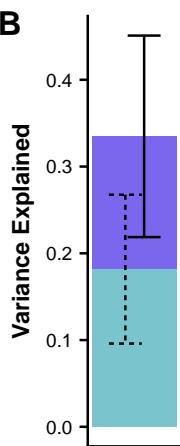
C V:11114697



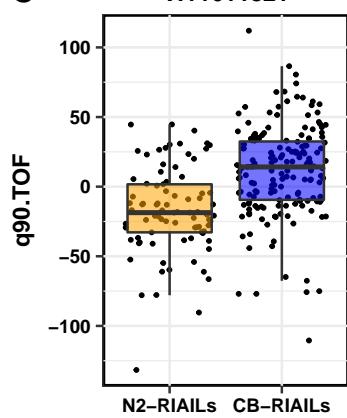
A cisplatin.q90.TOF



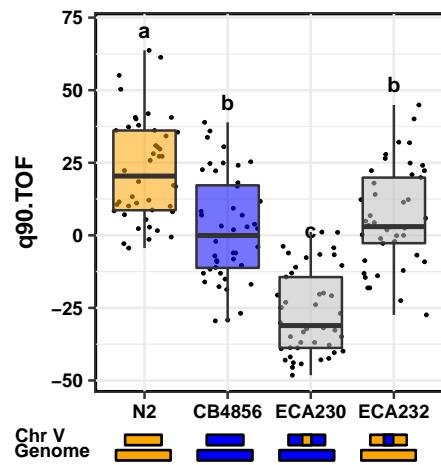
B



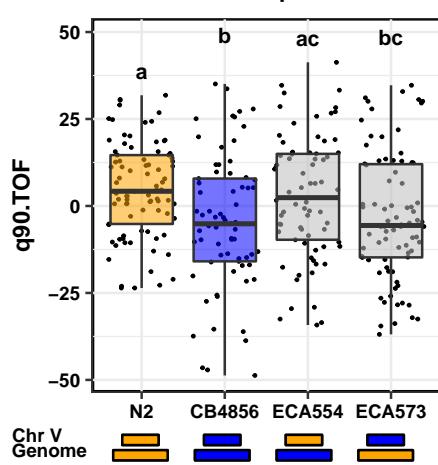
C V:116111821



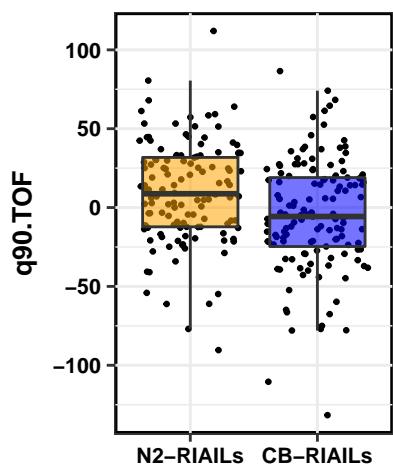
NIL – Unidirectional



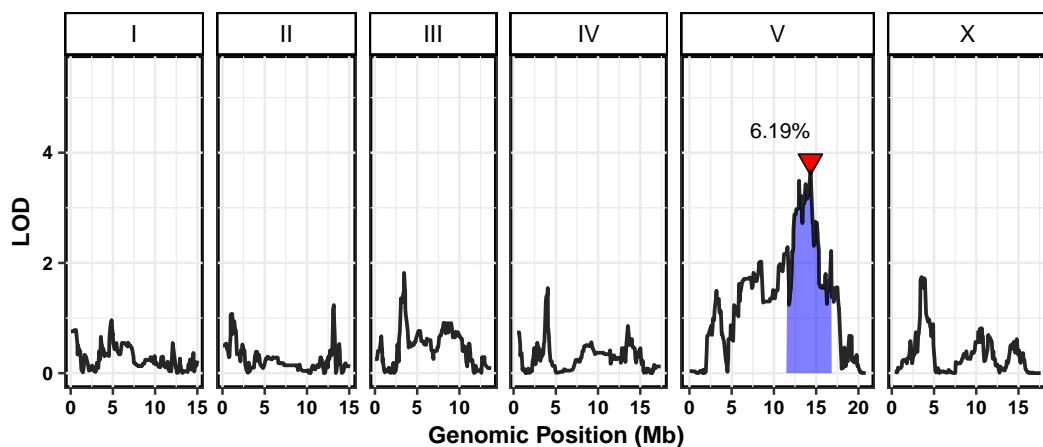
CSS – Recapitulation



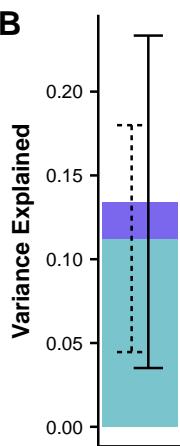
X:3921103



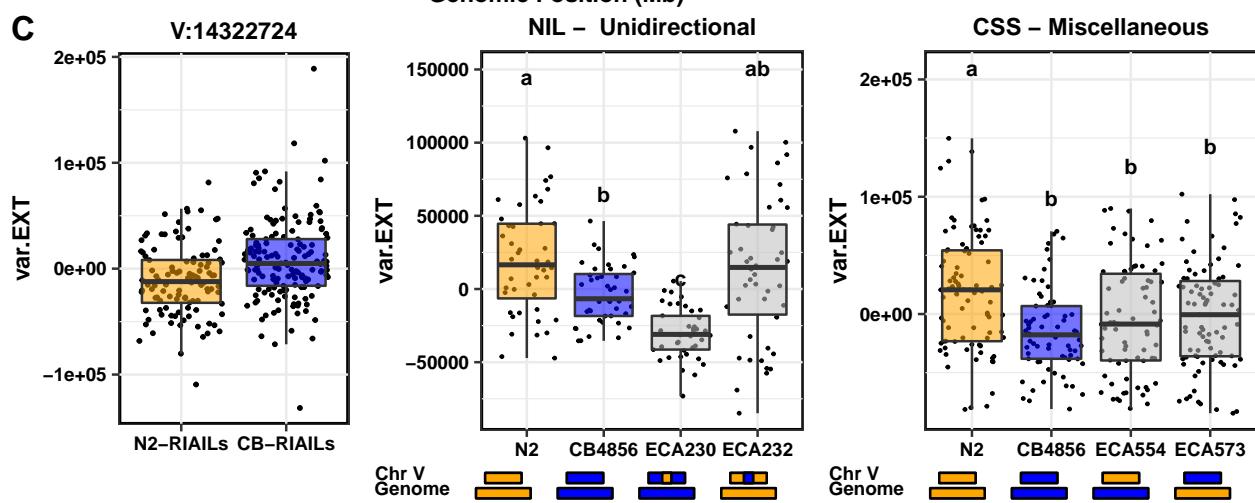
A cisplatin.var.EXT



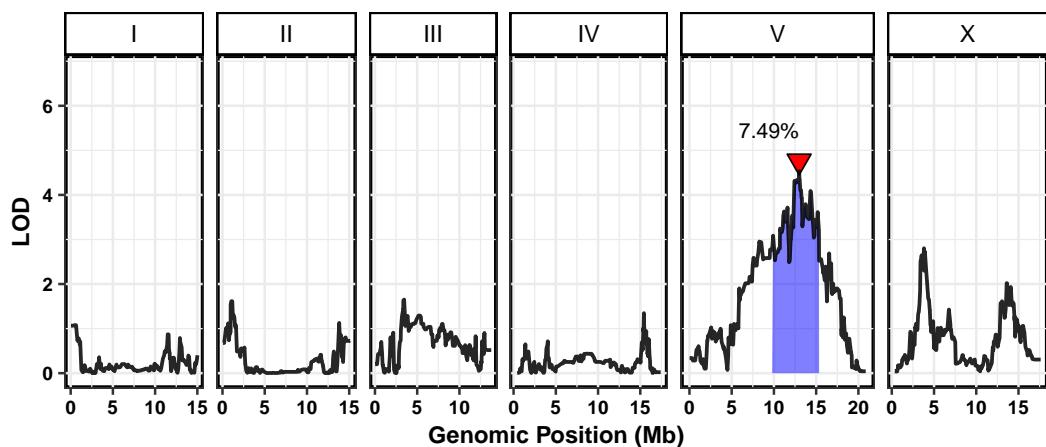
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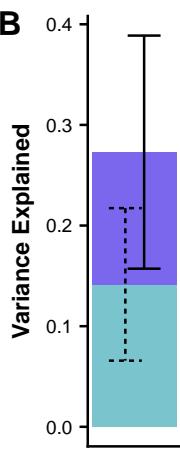
C



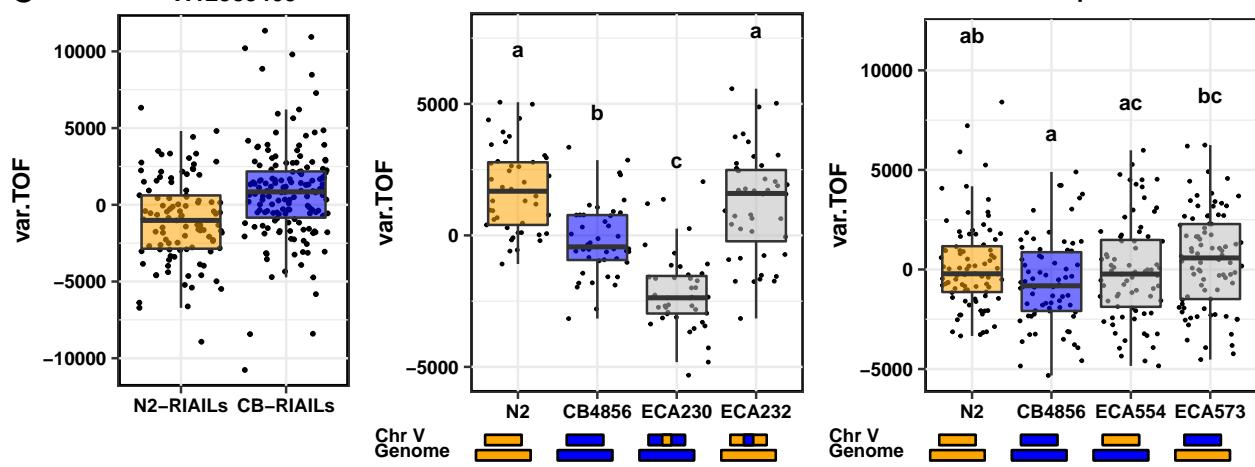
A cisplatin.var.TOF



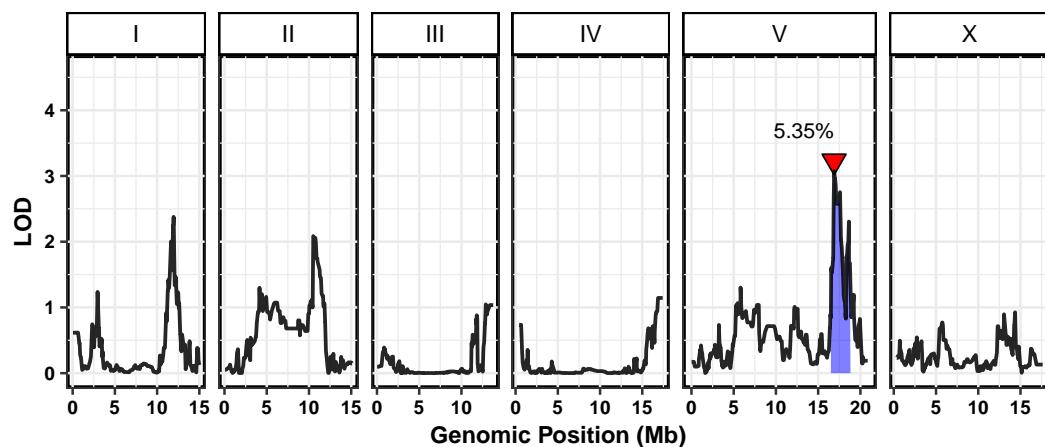
B



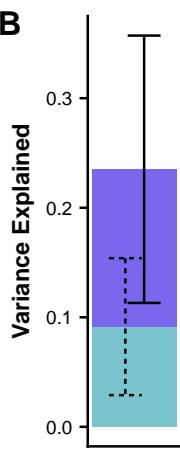
C V:12985405



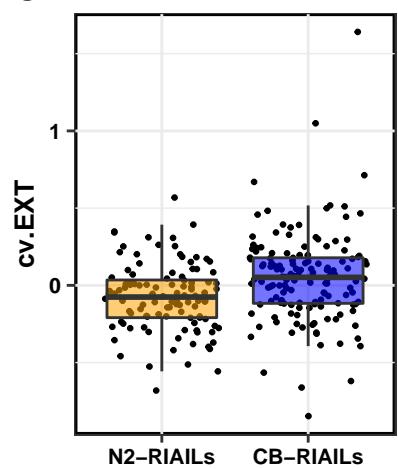
A copper.cv.EXT



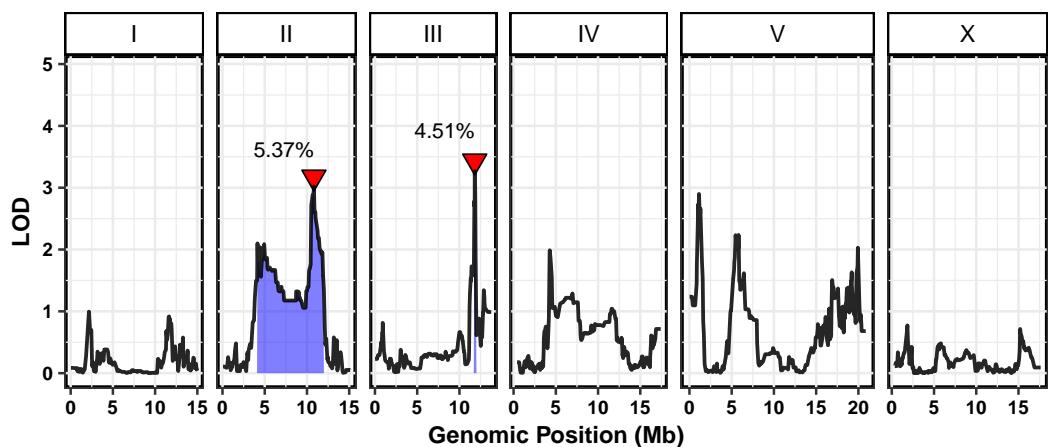
B



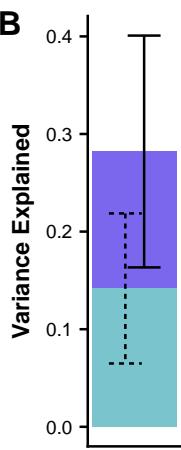
C V:16888417



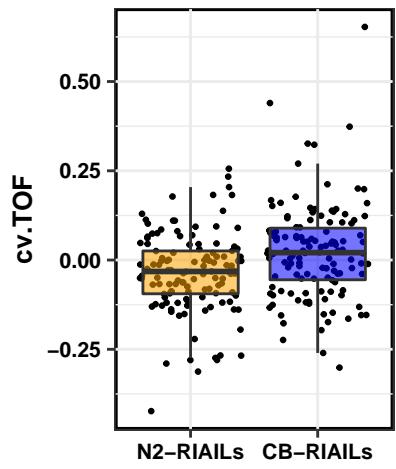
A copper.cv.TOF



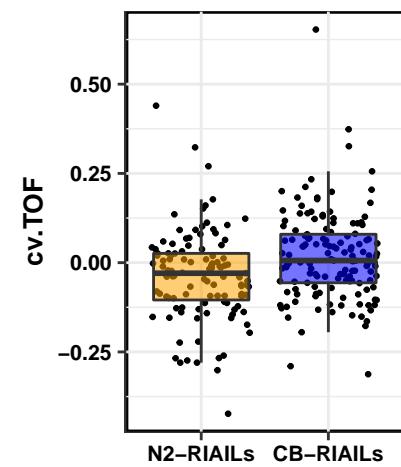
B



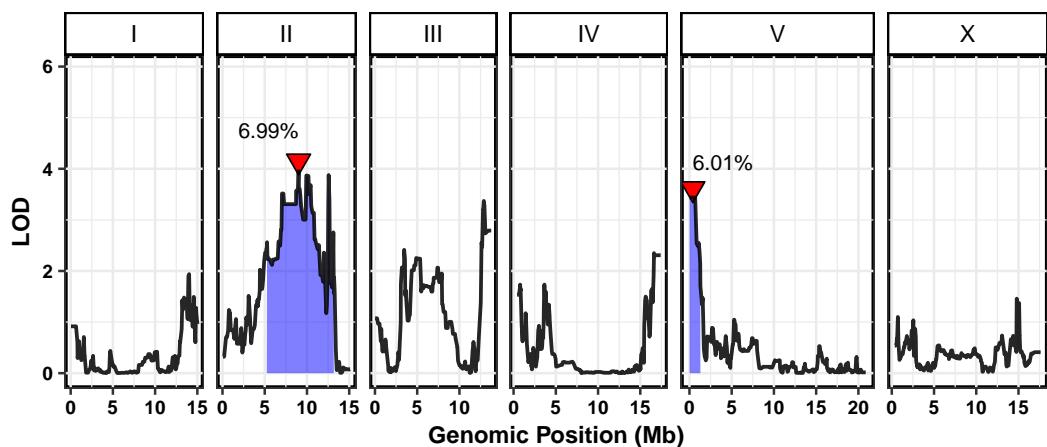
C II:10821883



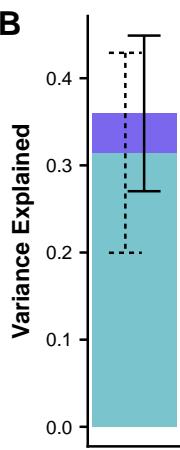
III:11810541



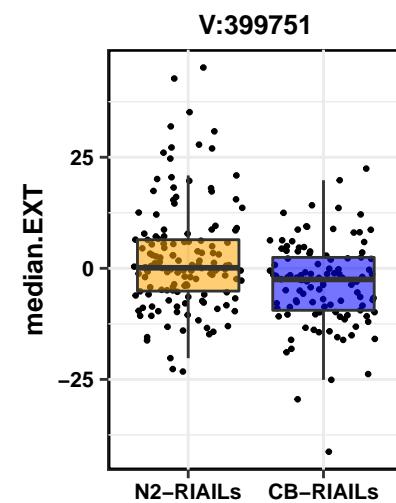
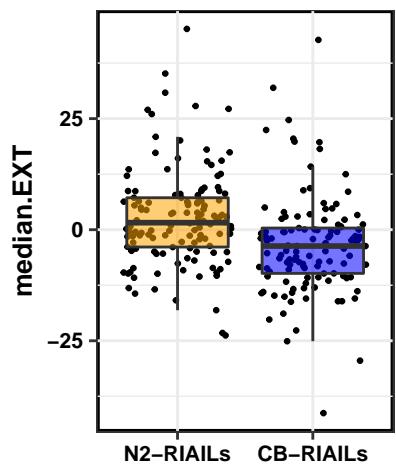
A copper.median.EXT



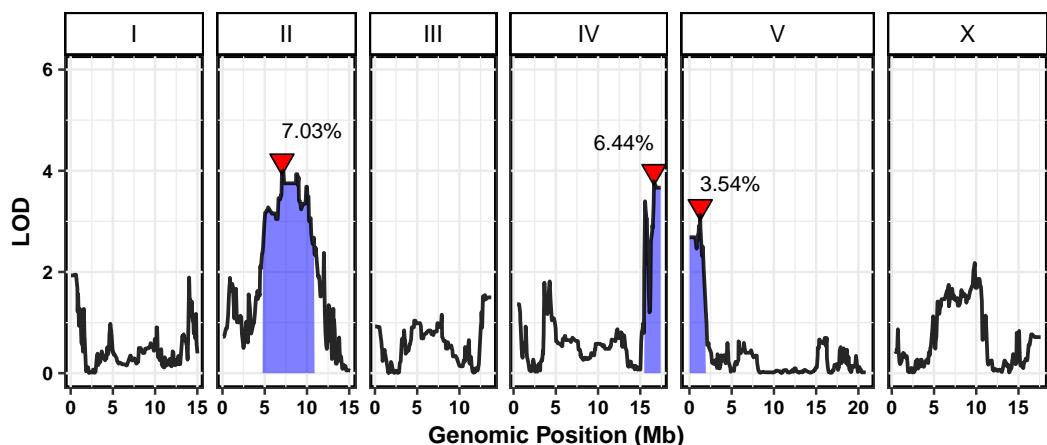
B



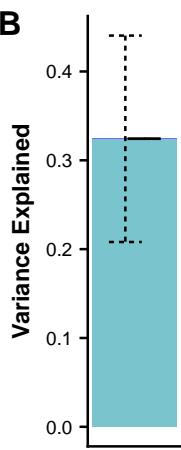
C



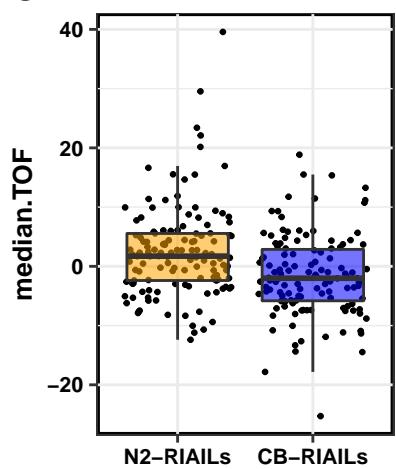
A copper.median.TOF



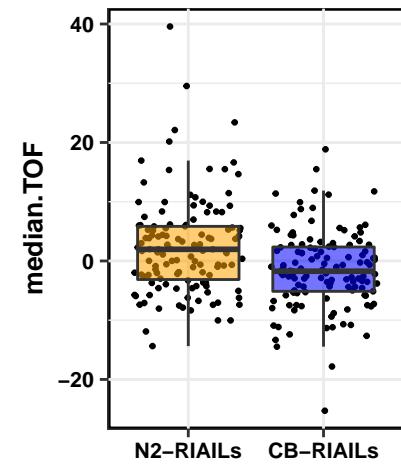
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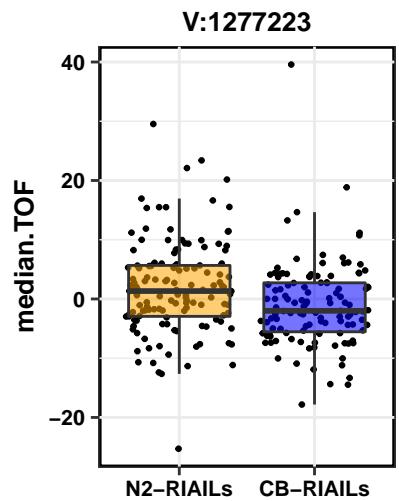


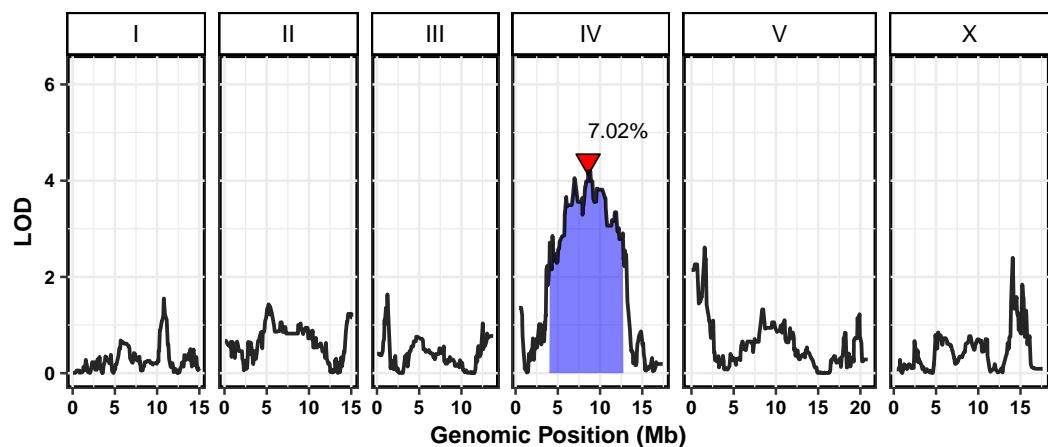
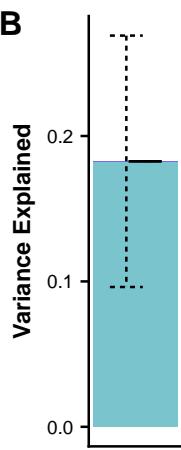
C II:7041451



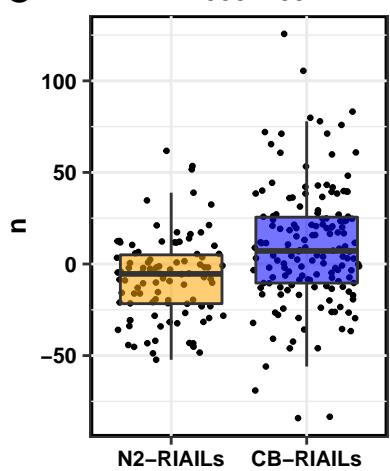
IV:16624582

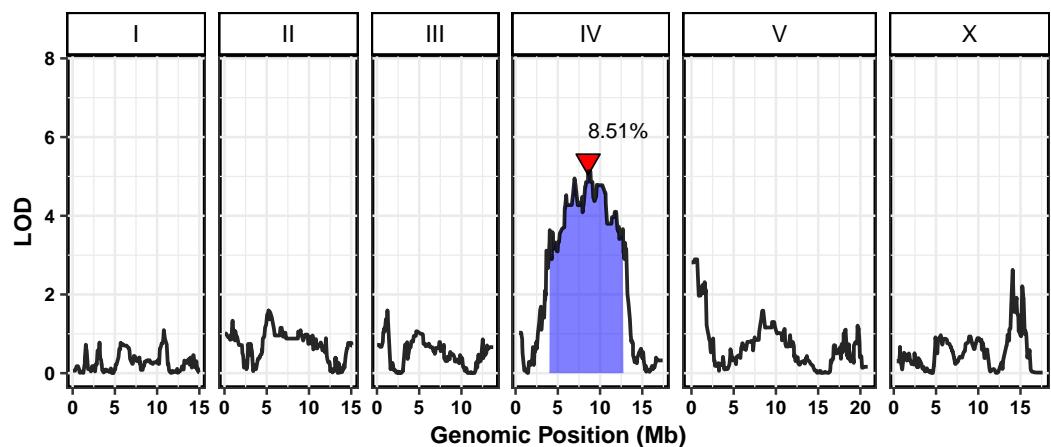
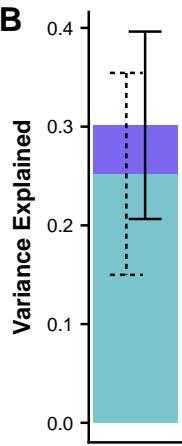
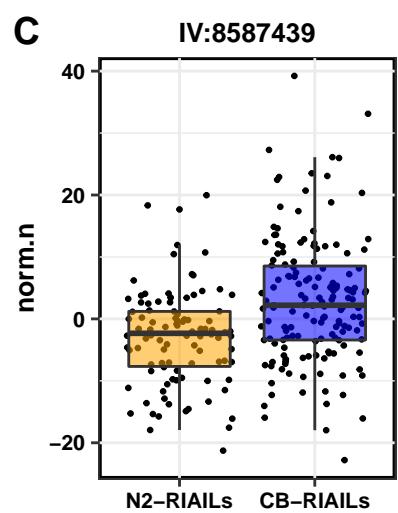


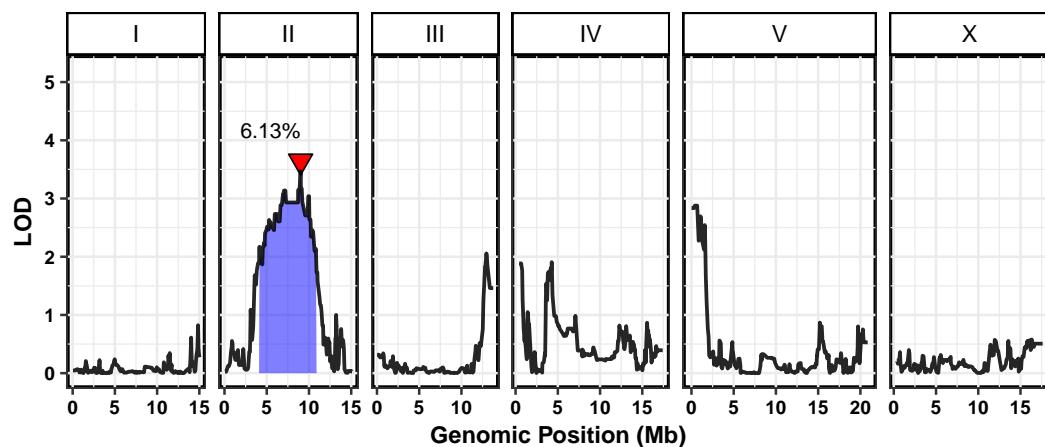
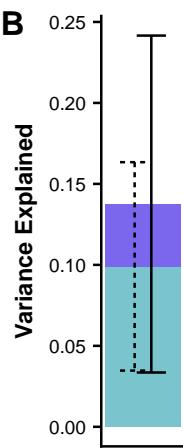
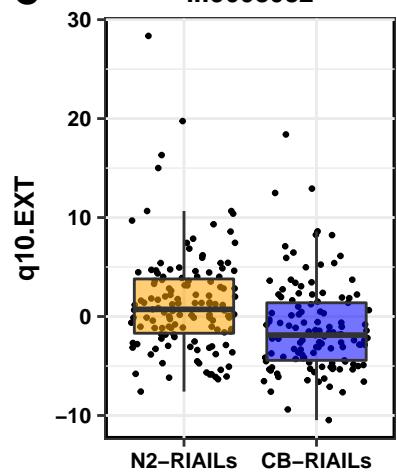


A copper.n**B****C**

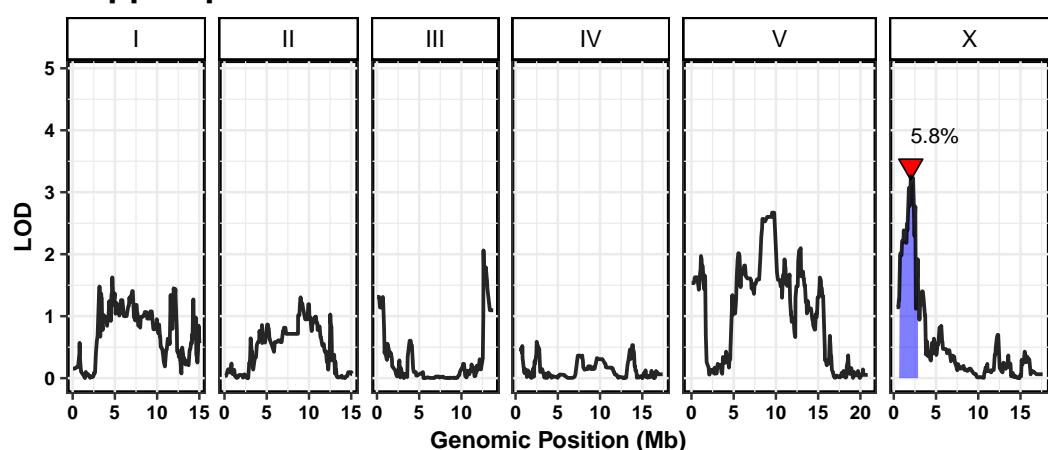
IV:8587439



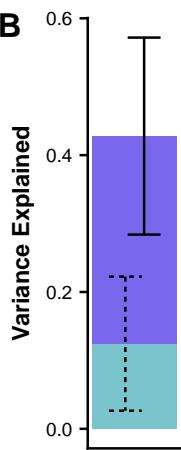
A copper.norm.n**B****C**

A copper.q10.EXT**B****C II:9008082**

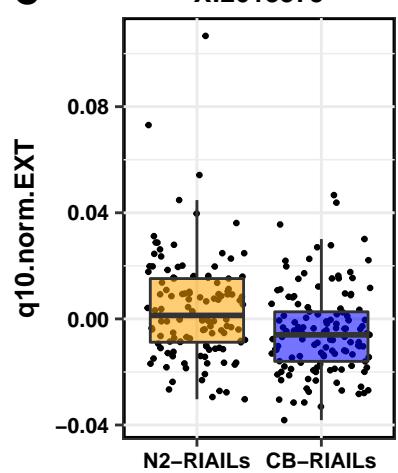
A copper.q10.norm.EXT



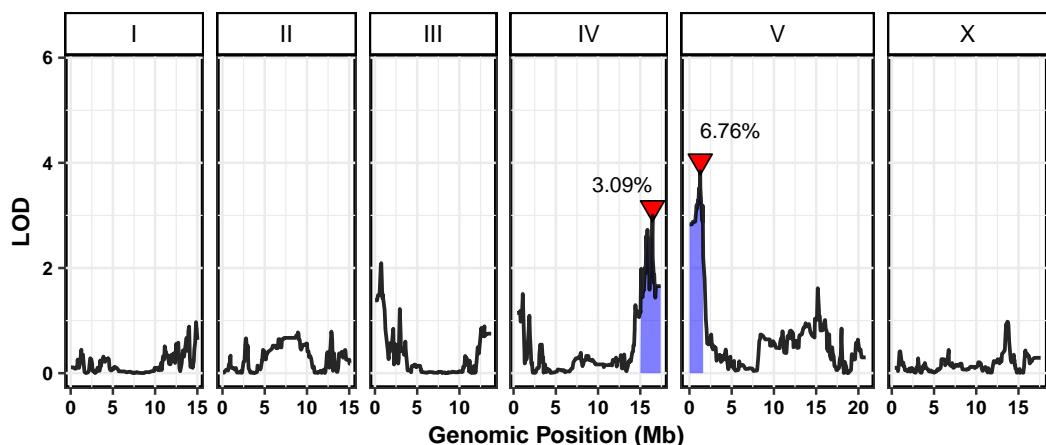
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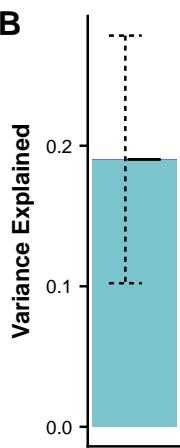
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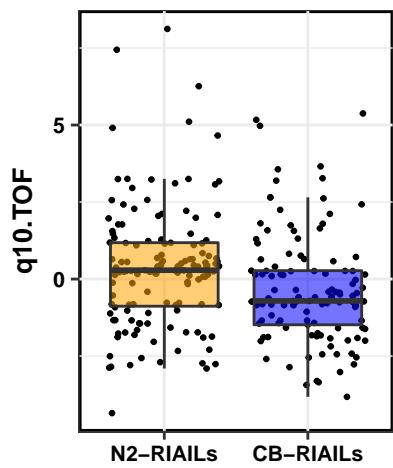
A copper.q10.TOF



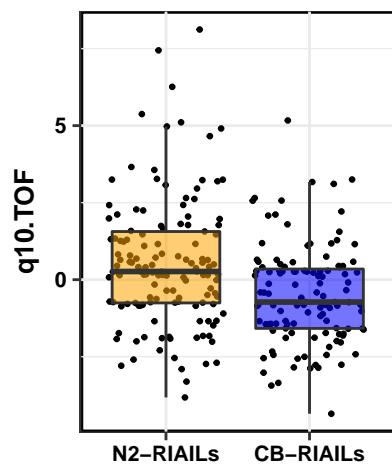
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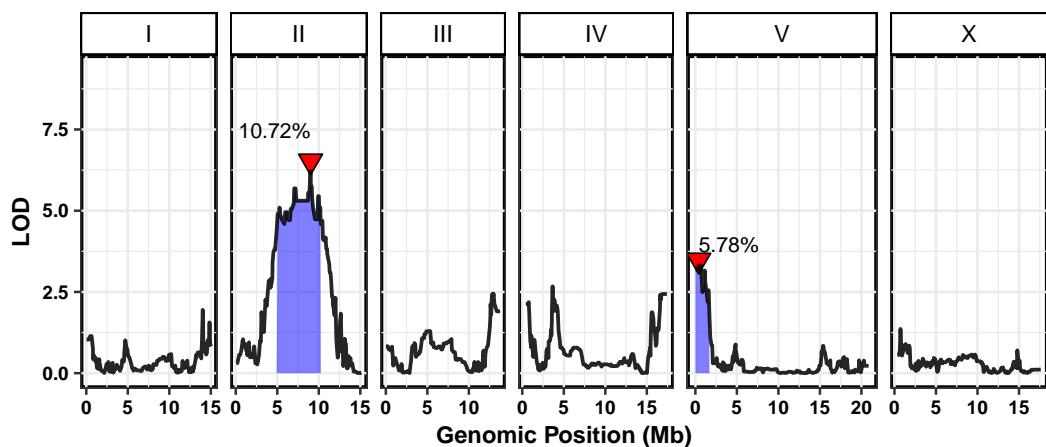
C IV:16442619



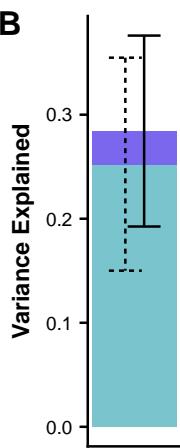
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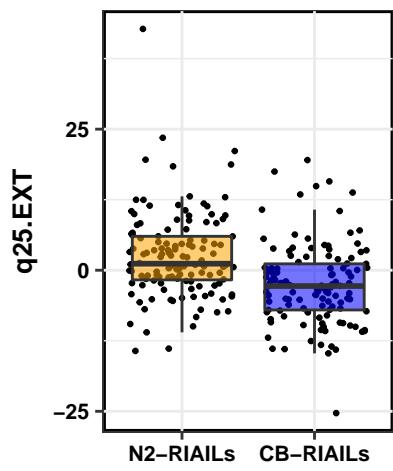
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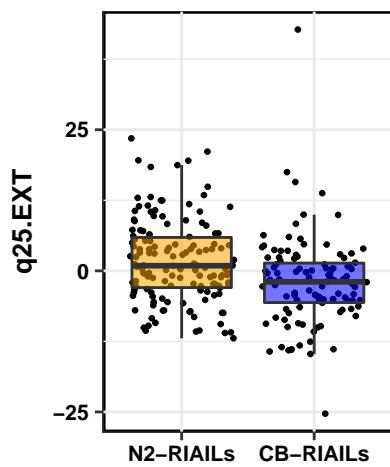
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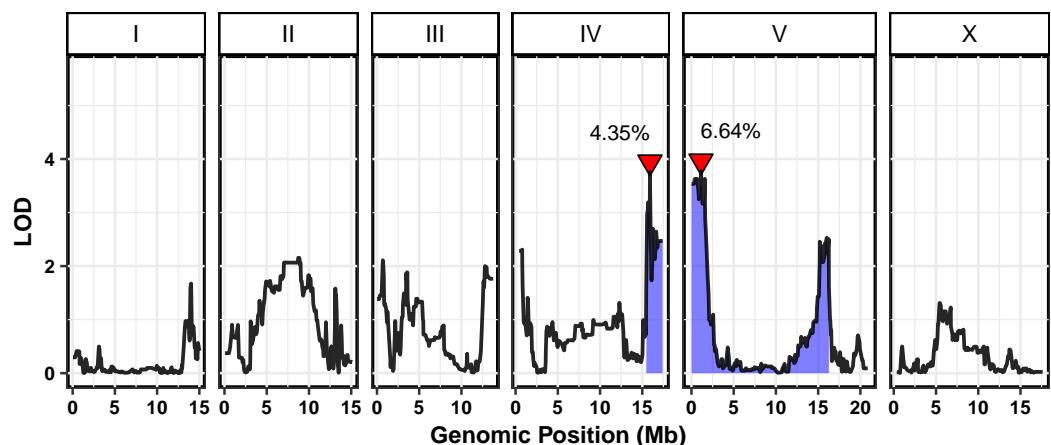
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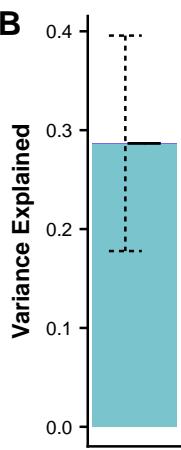
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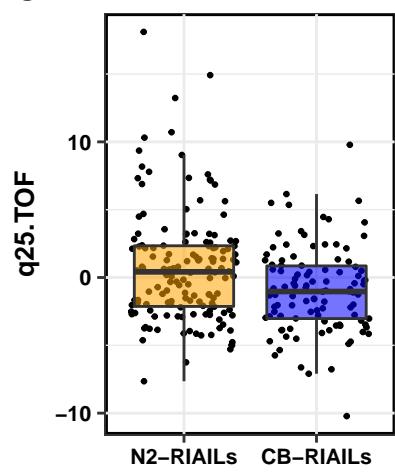
A copper.q25.TOF



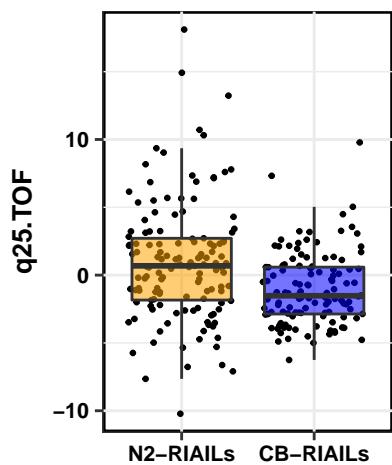
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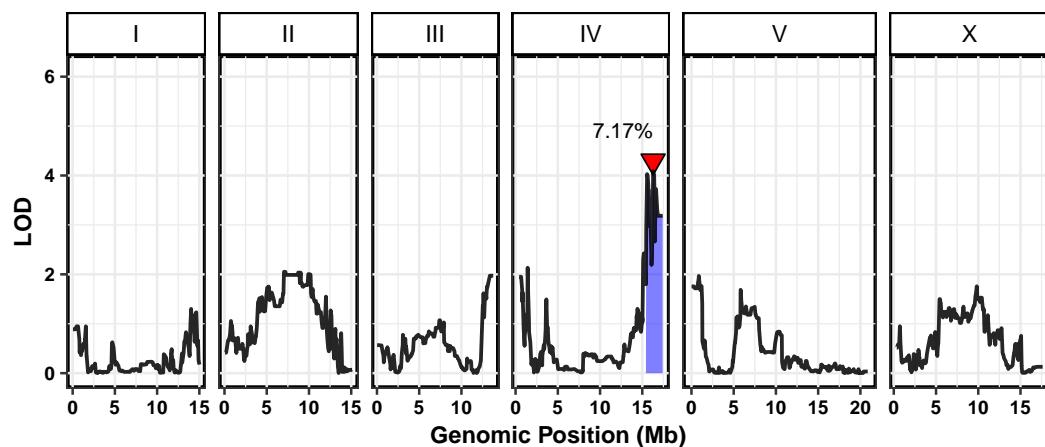
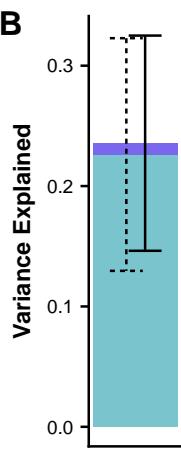
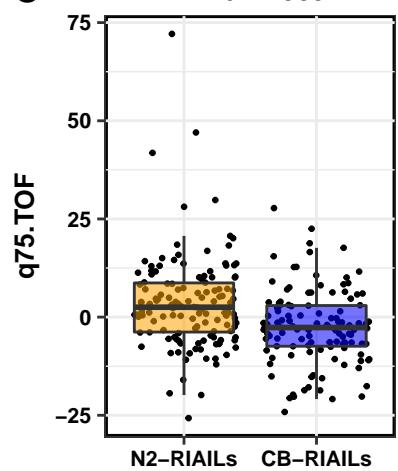


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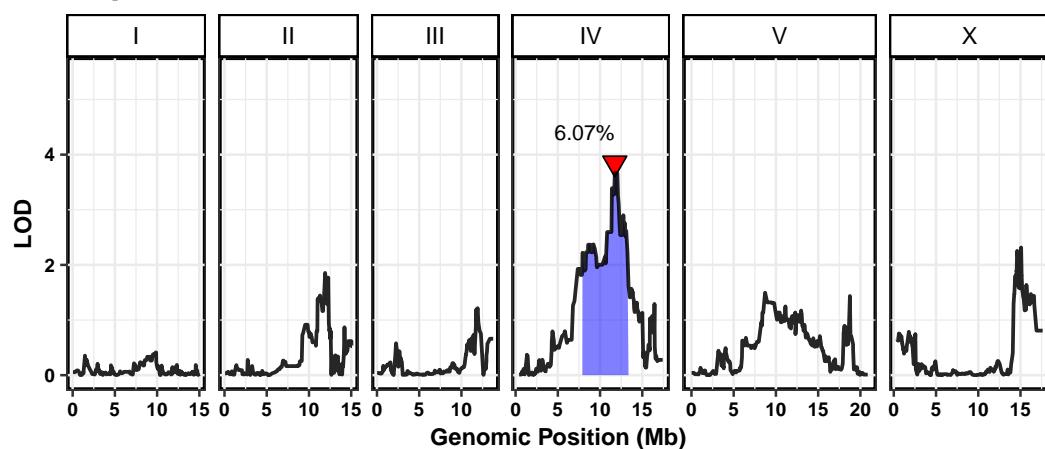


V:1129299

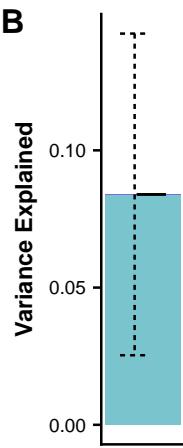


A copper.q75.TOF**B****C** IV:16277985

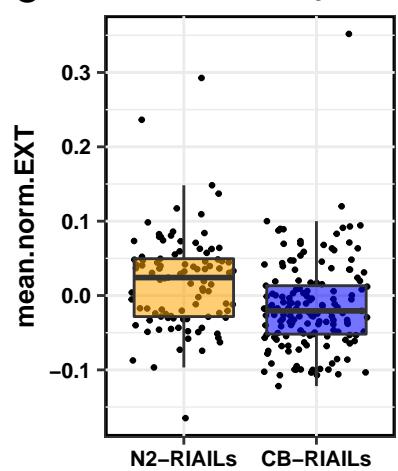
A diquat.mean.norm.EXT



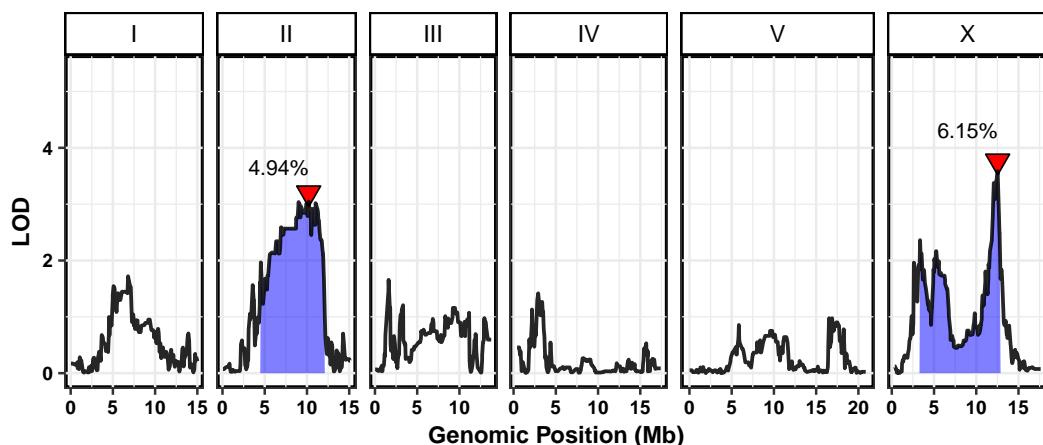
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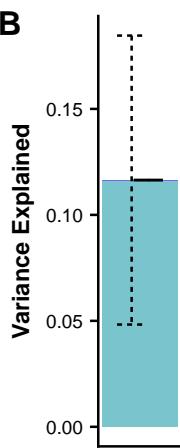
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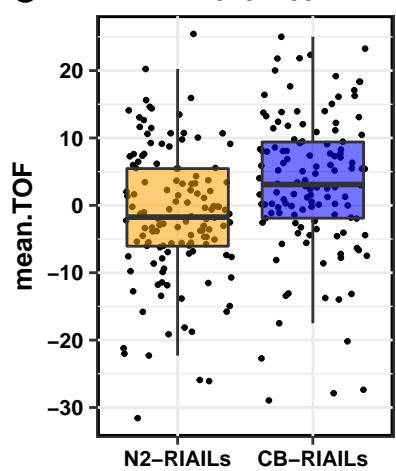
A diquat.mean.TOF



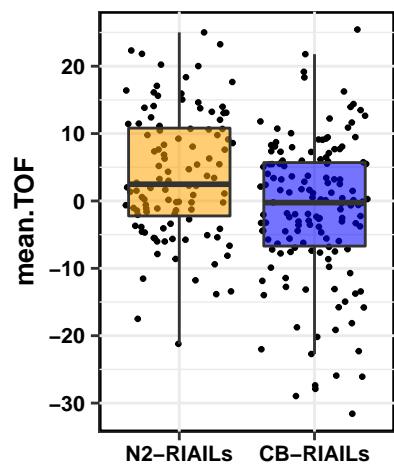
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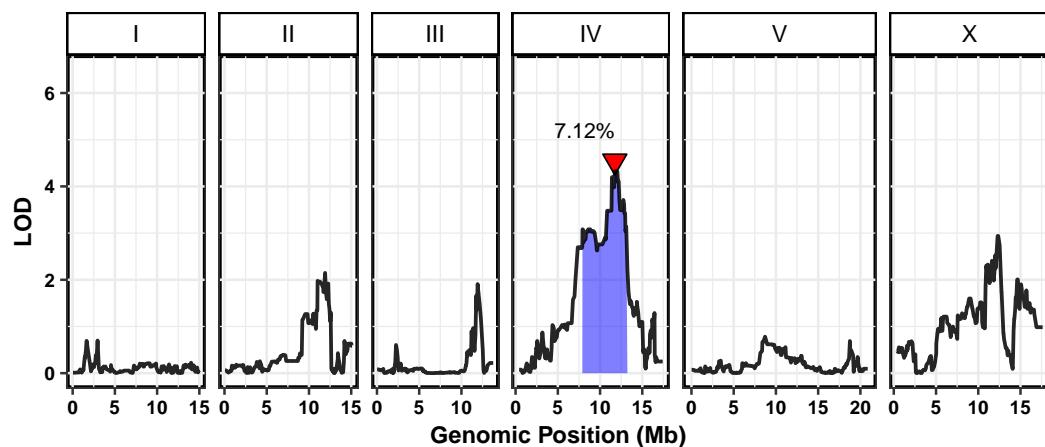
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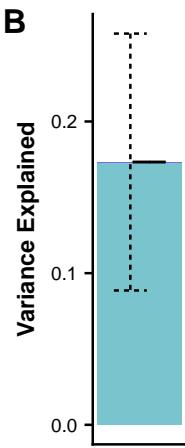
X:12533105



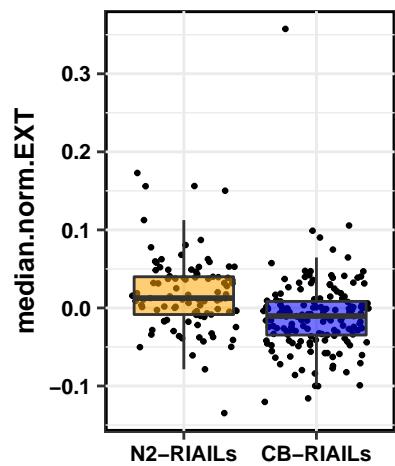
A diquat.median.norm.EXT



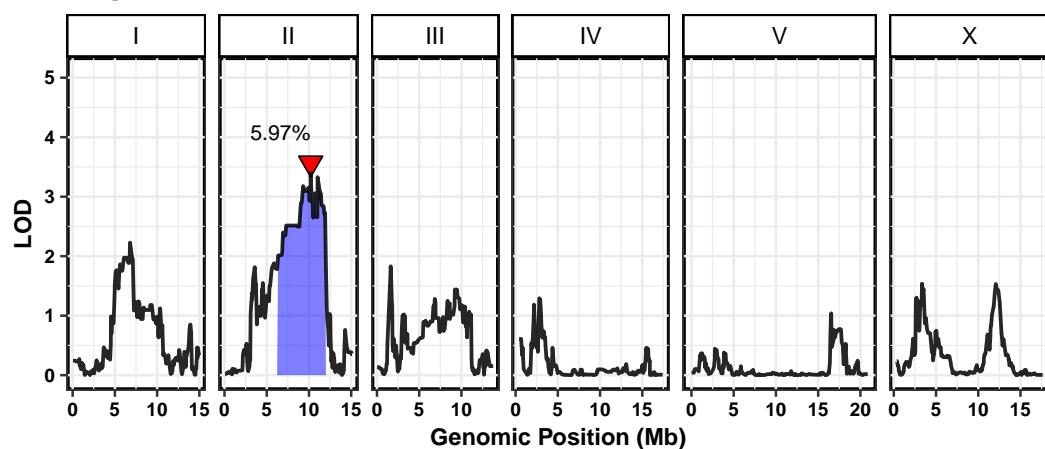
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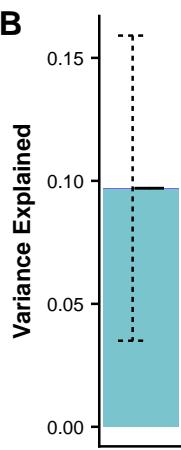
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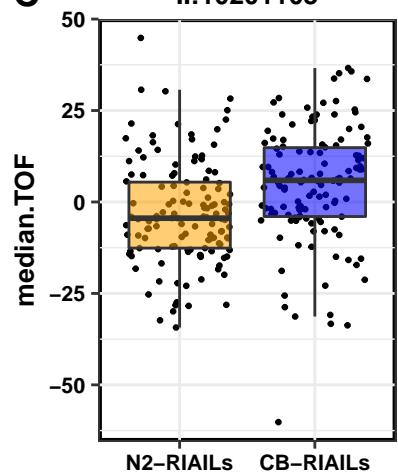
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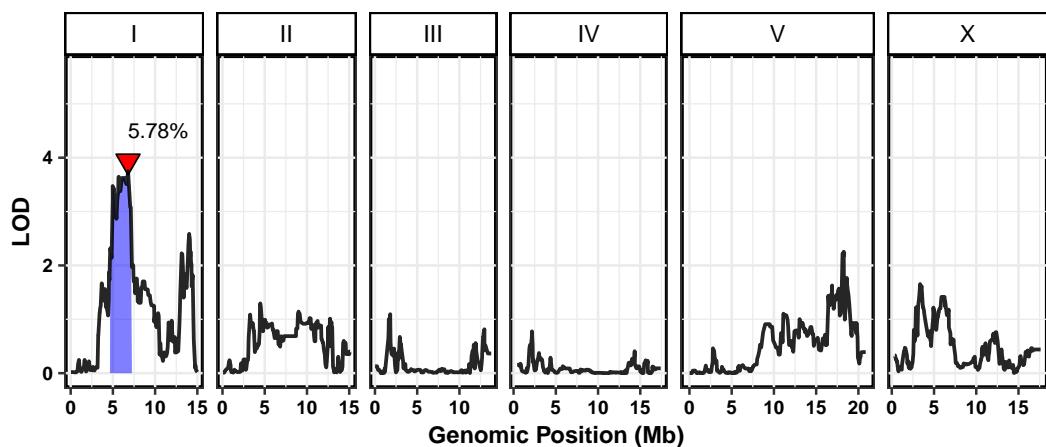
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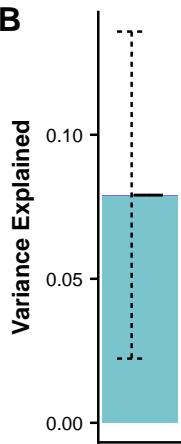
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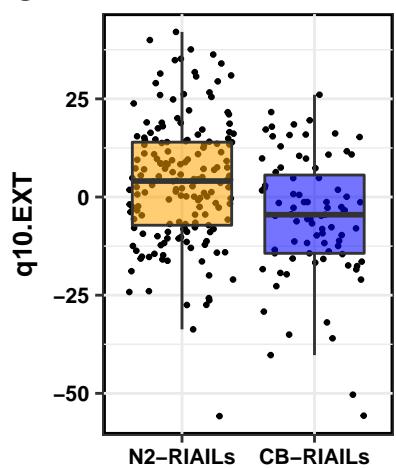
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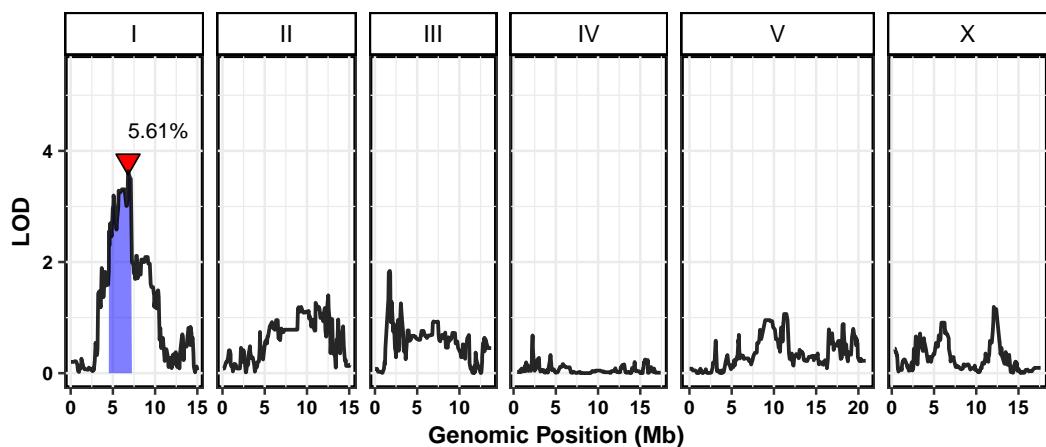
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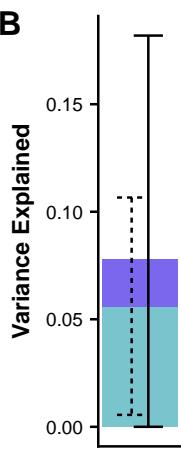
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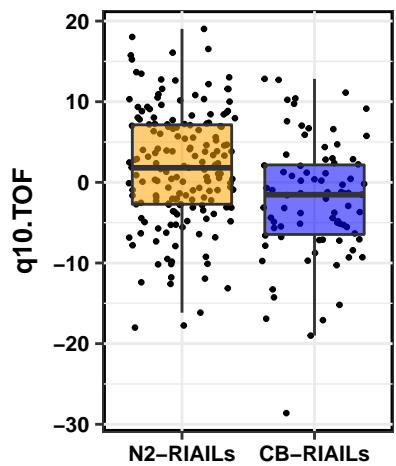
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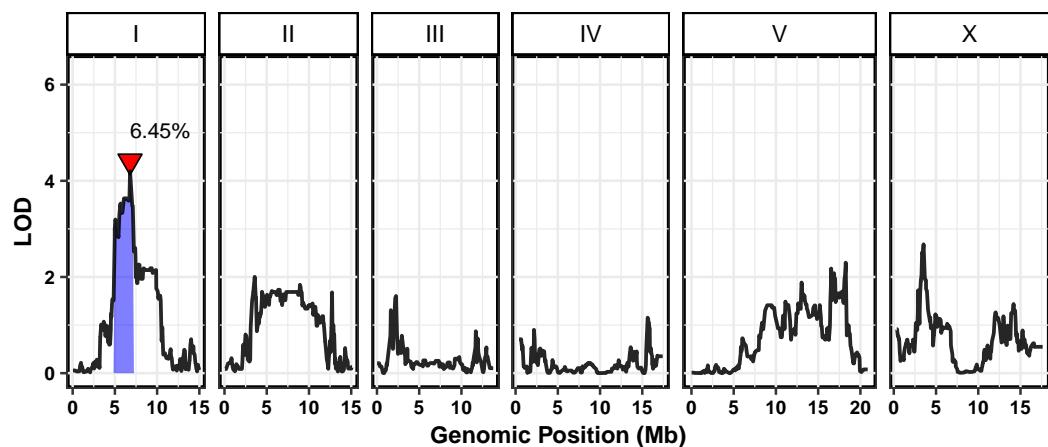
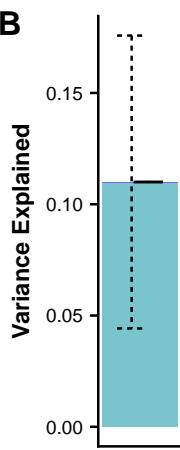
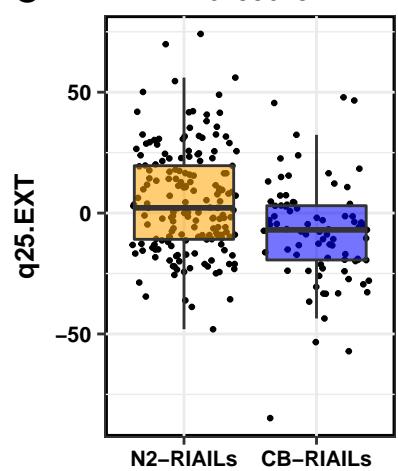


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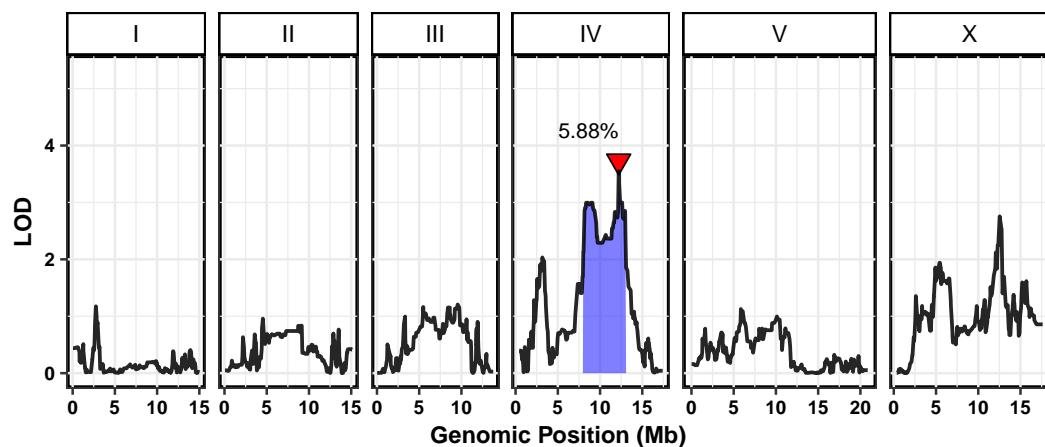


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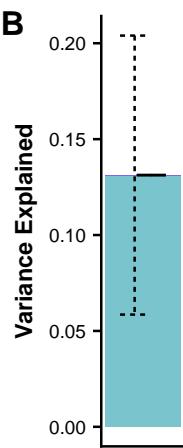


A diquat.q25.EXT**B****C I:6795673**

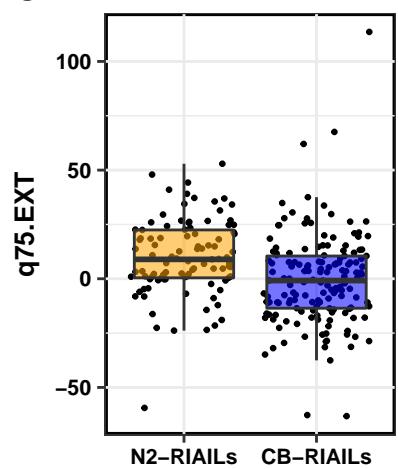
A diquat.q75.EXT



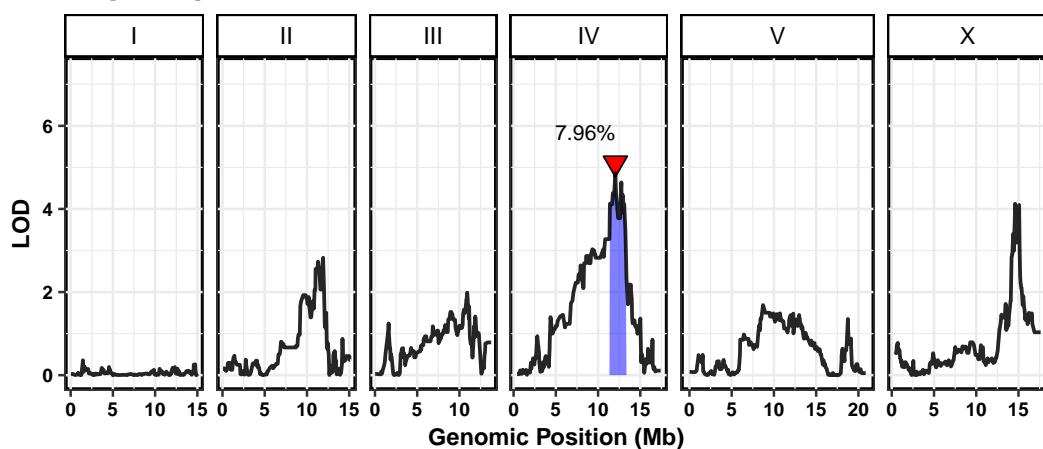
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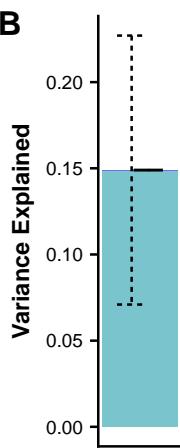
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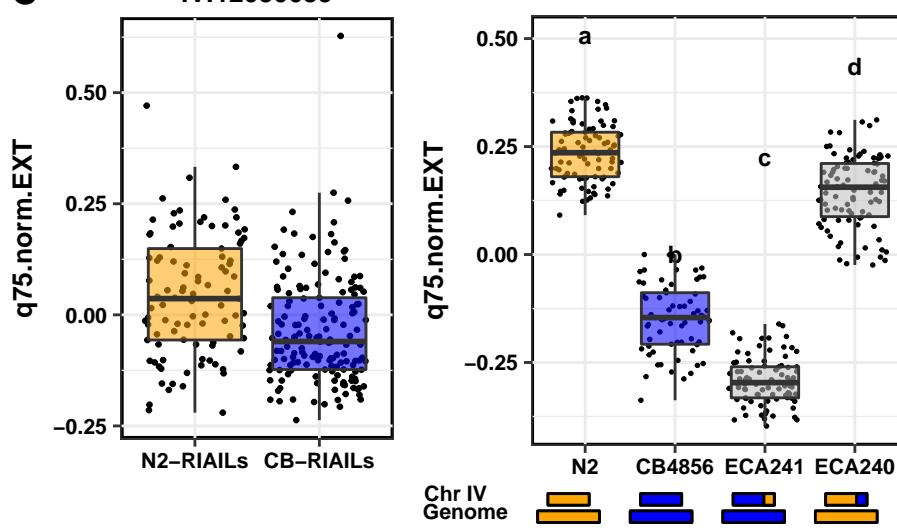
A diquat.q75.norm.EXT



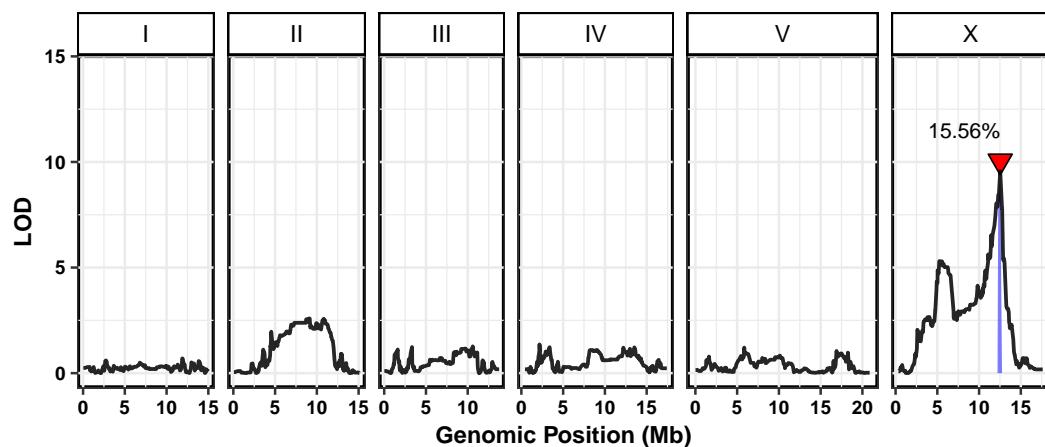
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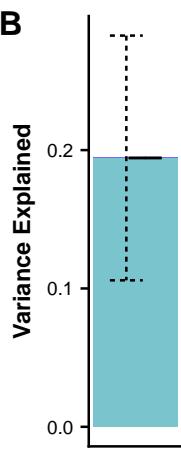
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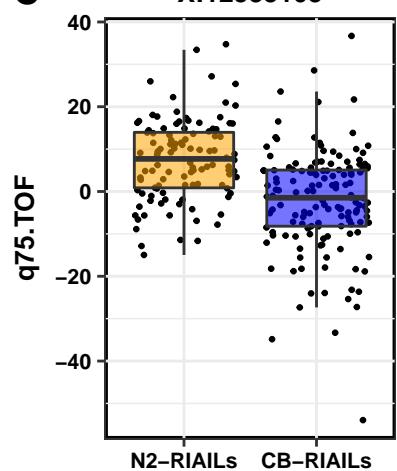
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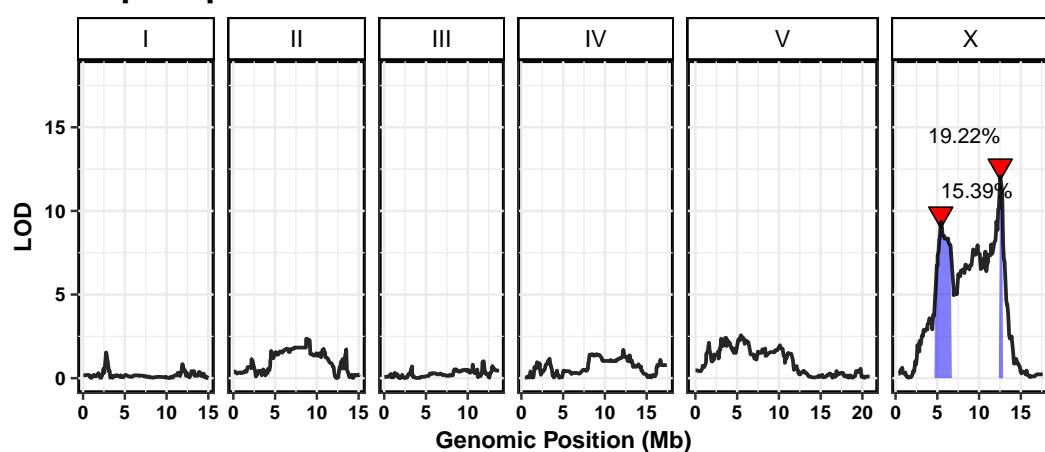
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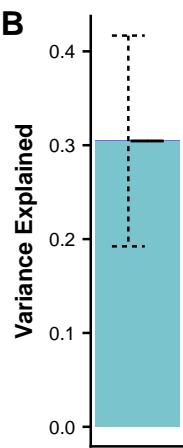
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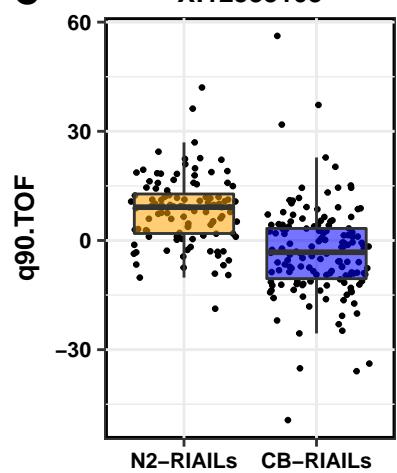
A diquat.q90.TOF

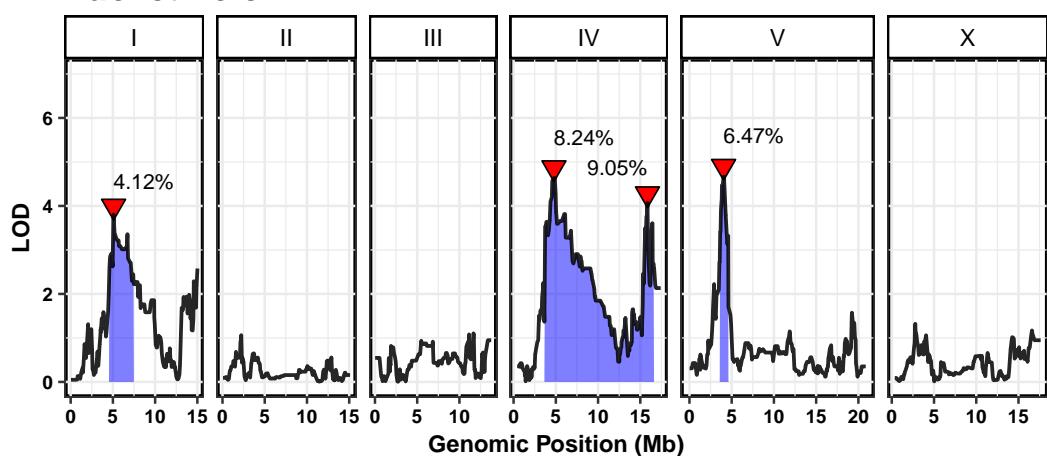
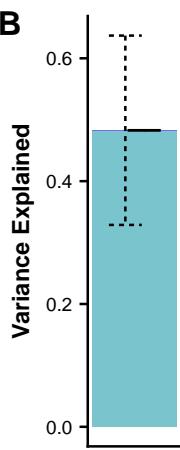
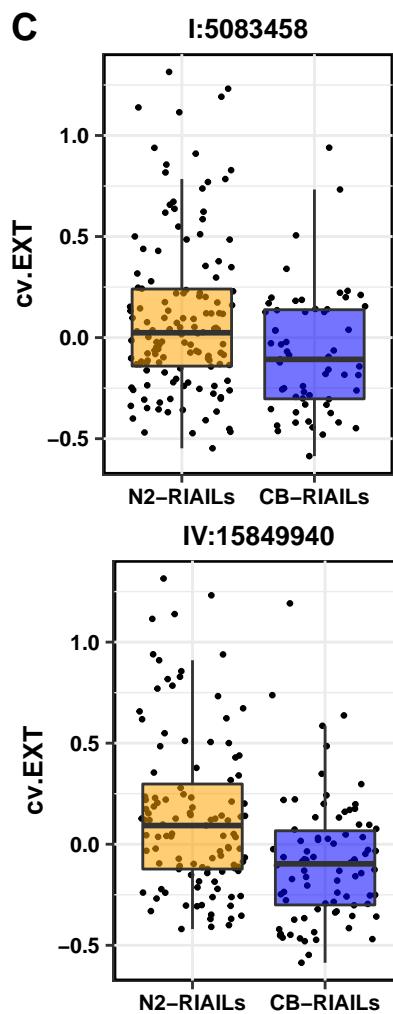


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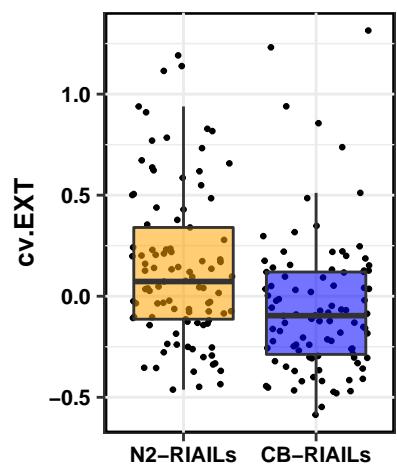


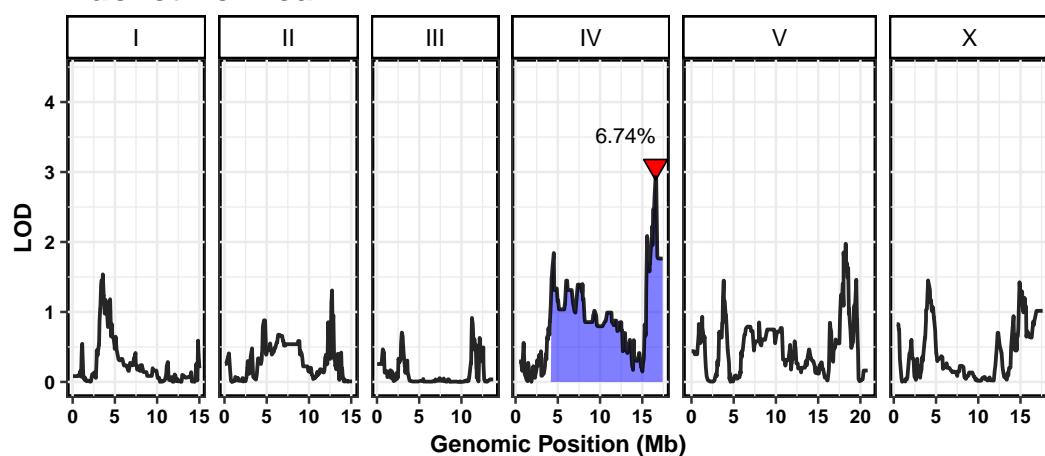
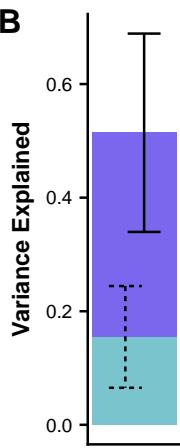
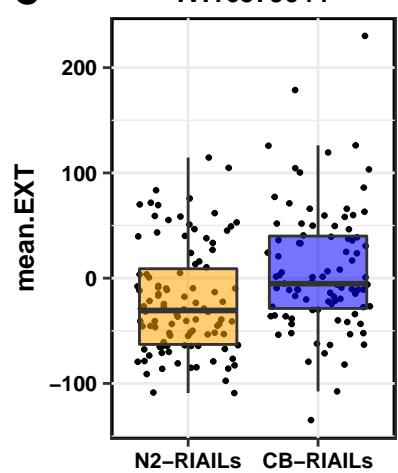
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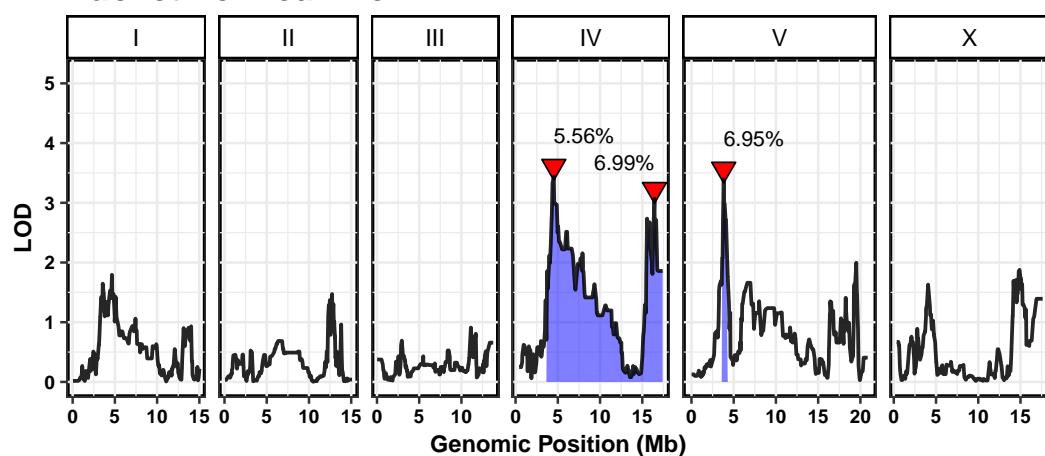
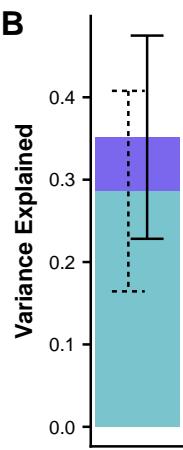
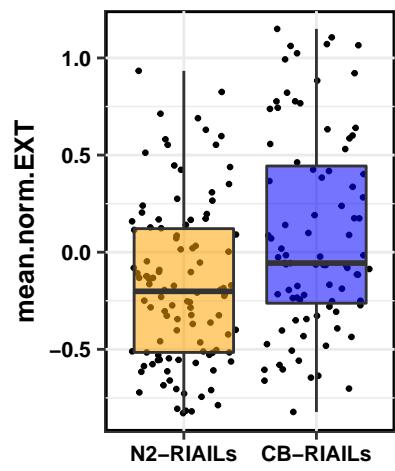
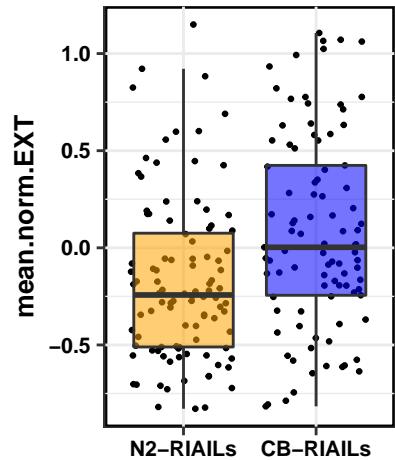


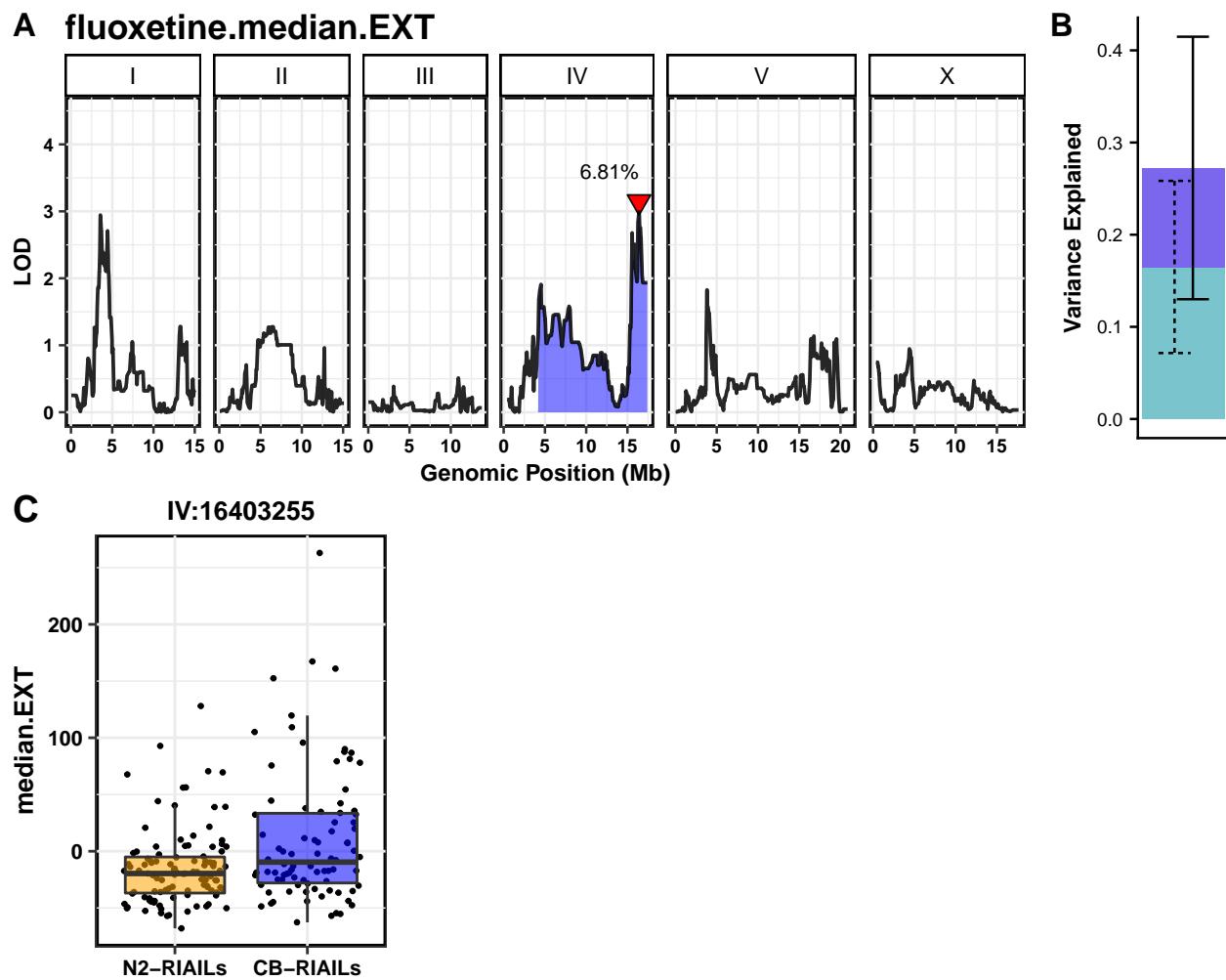
A fluoxetine.cv.EXT**B****C**

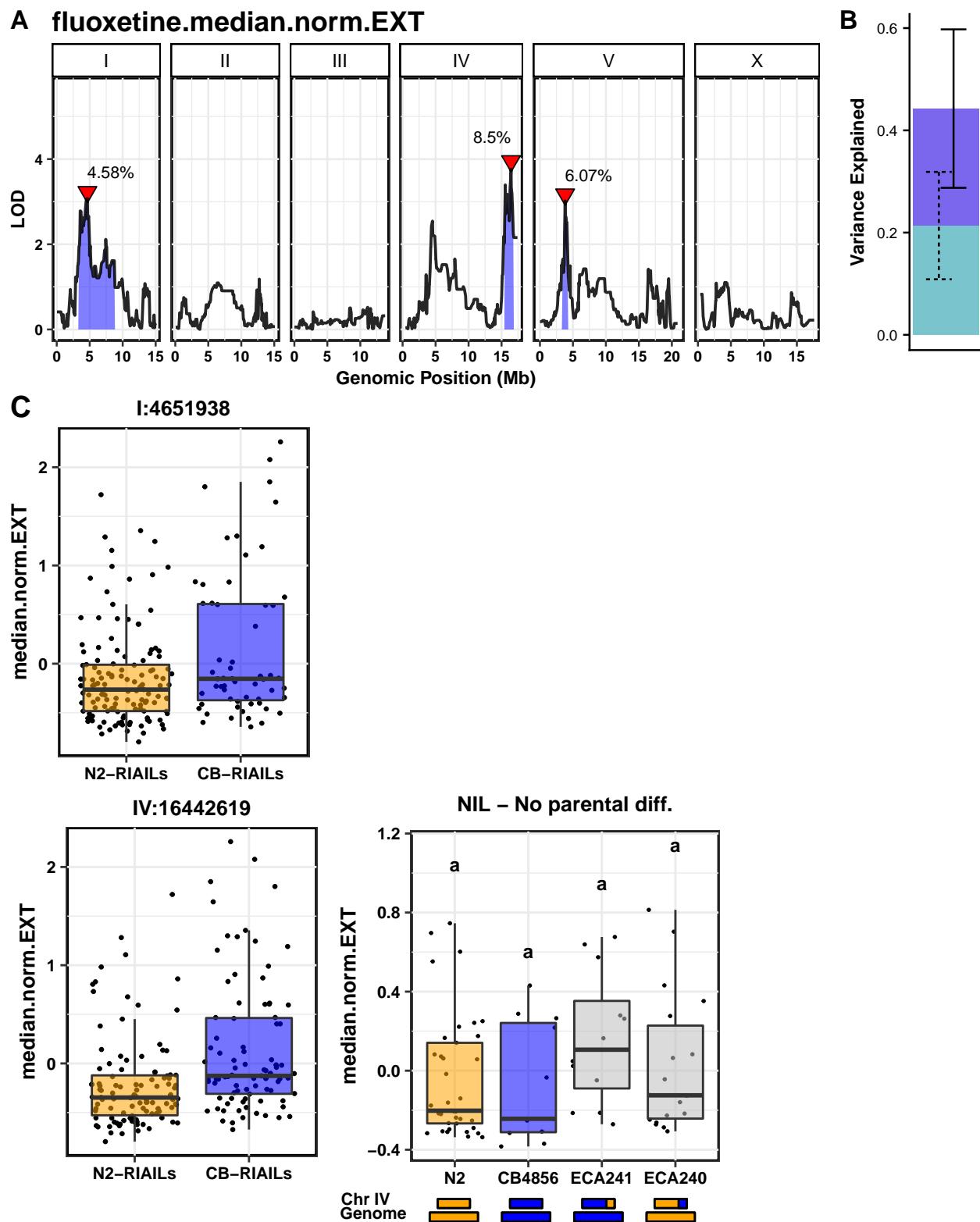
V:4043502



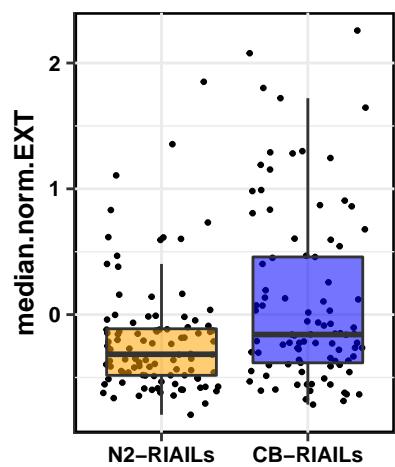
A fluoxetine.mean.EXT**B****C IV:16579044**

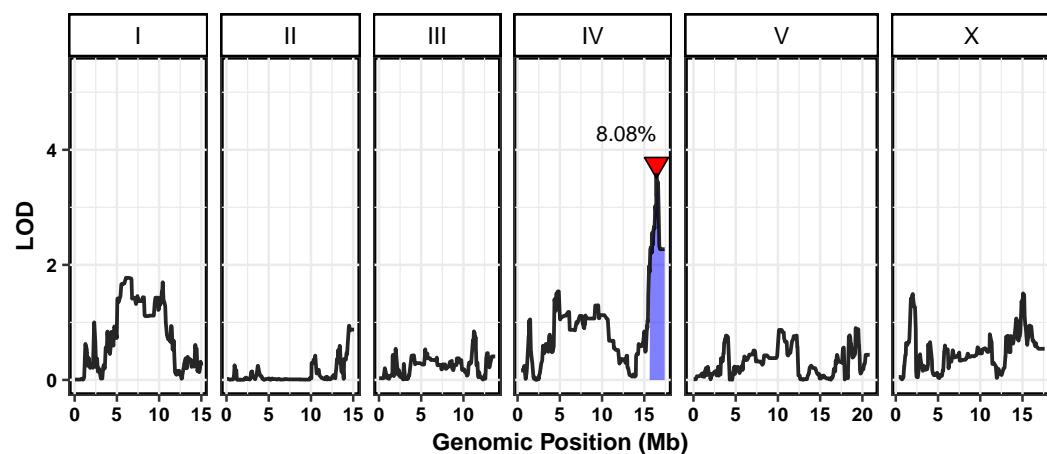
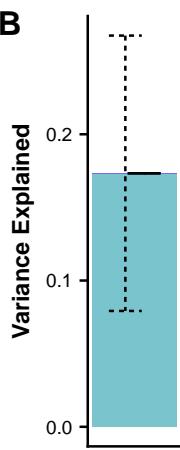
A fluoxetine.mean.norm.EXT**B****C IV:16442619****V:3819945**



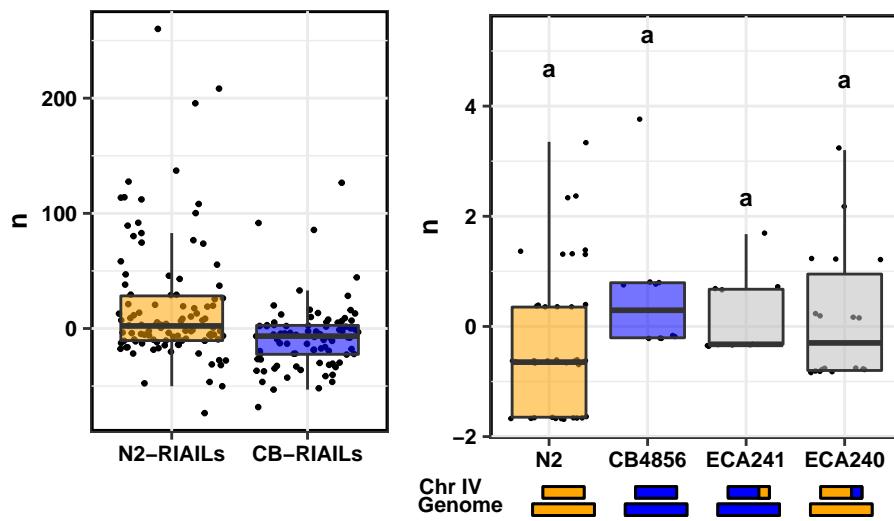


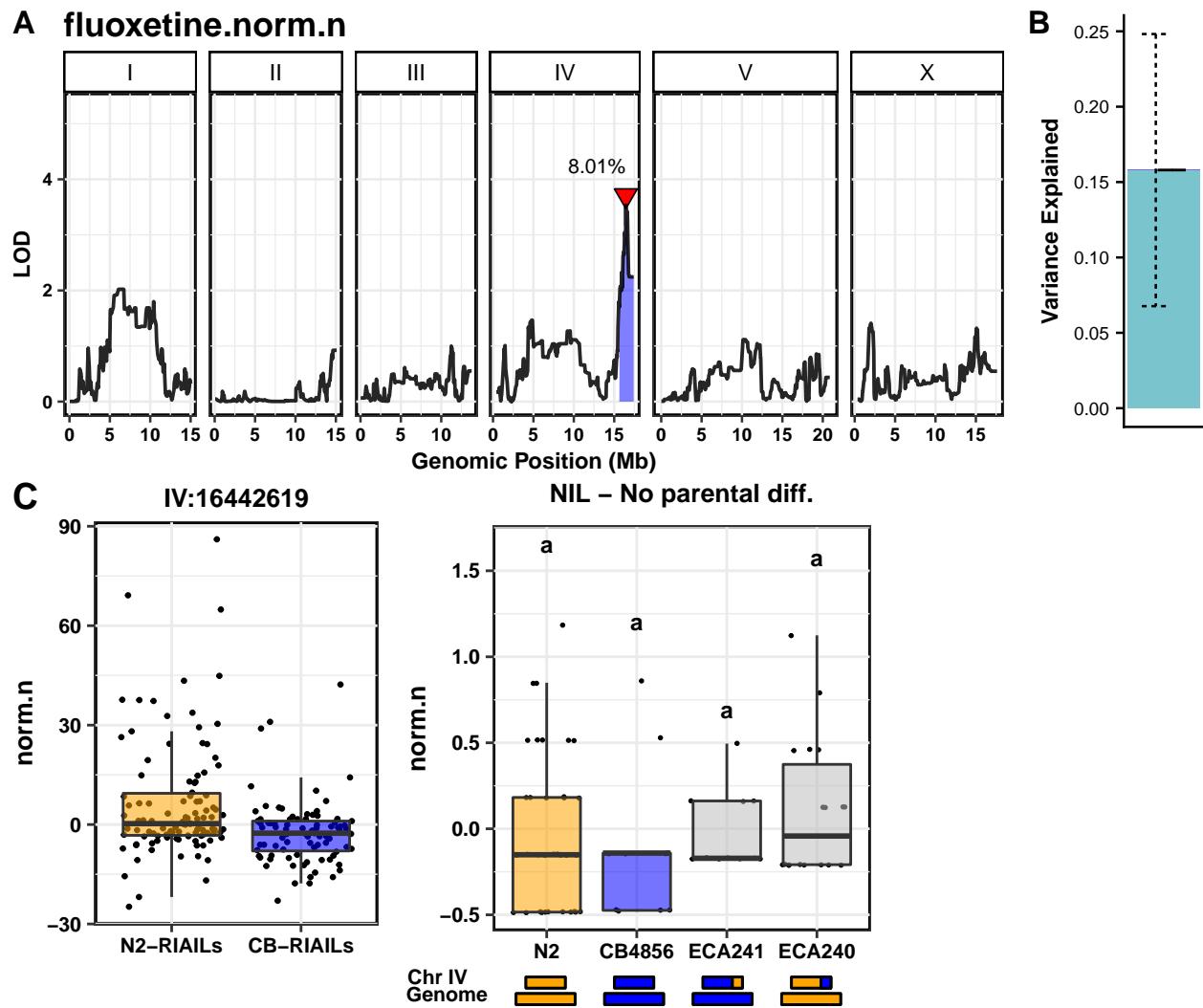
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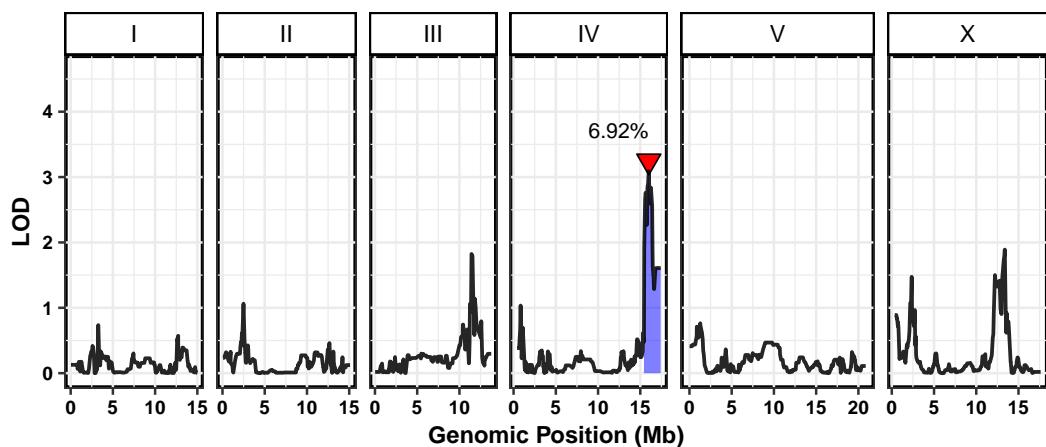
A fluoxetine.n**B****C IV:16442619**

NIL – No parental diff.

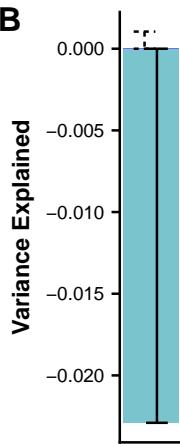




A fluoxetine.q10.EXT

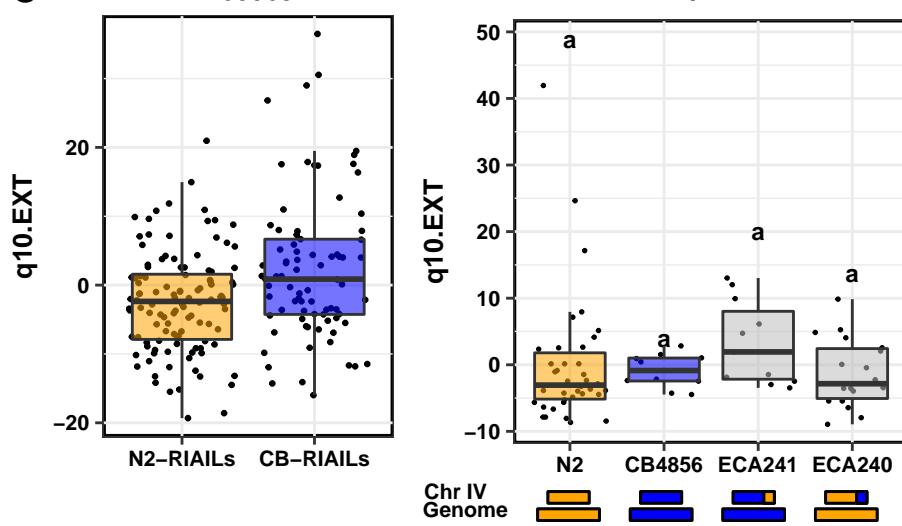


B

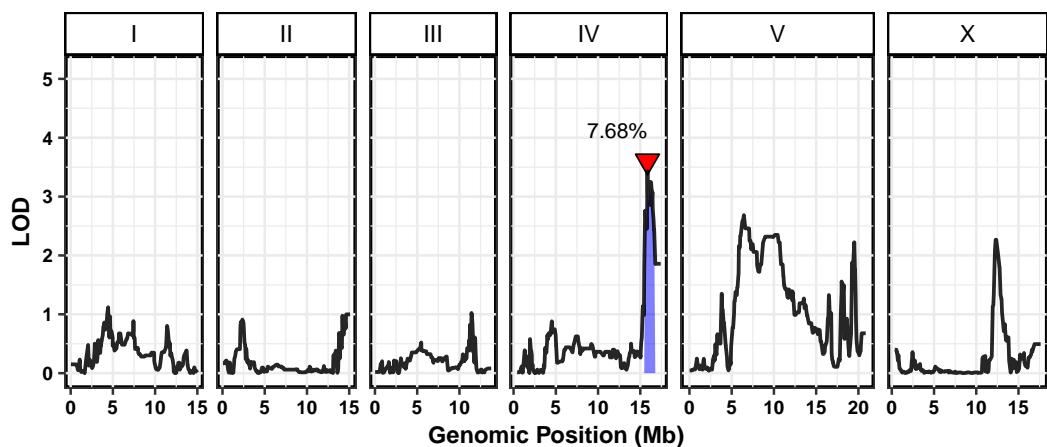


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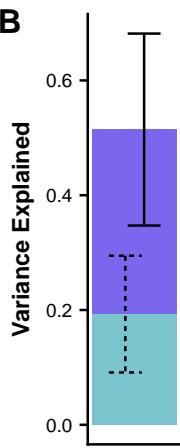
NIL – No parental diff.



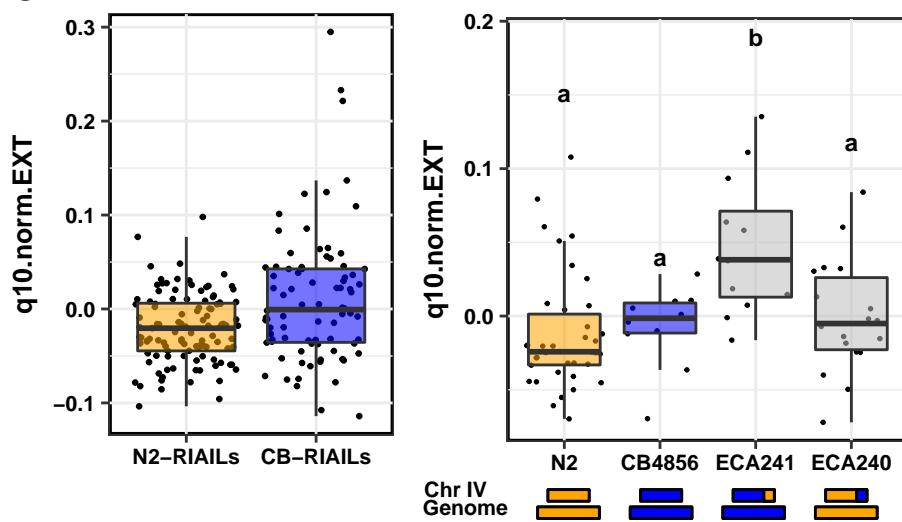
A fluoxetine.q10.norm.EXT



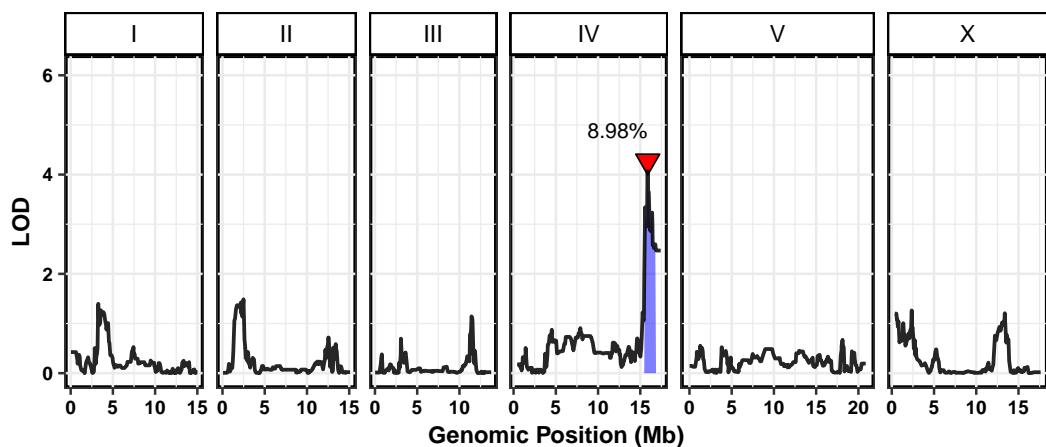
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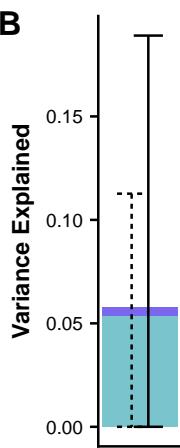
C IV:15849940



A fluoxetine.q25.EXT

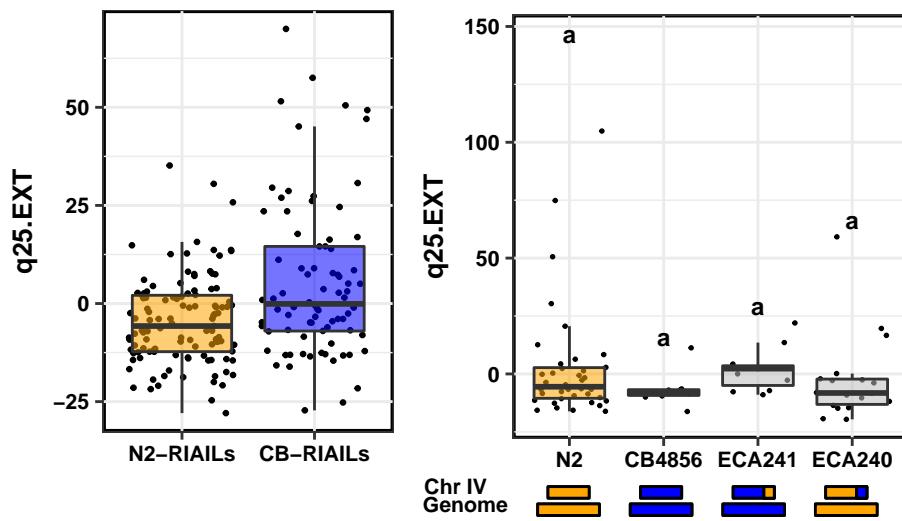


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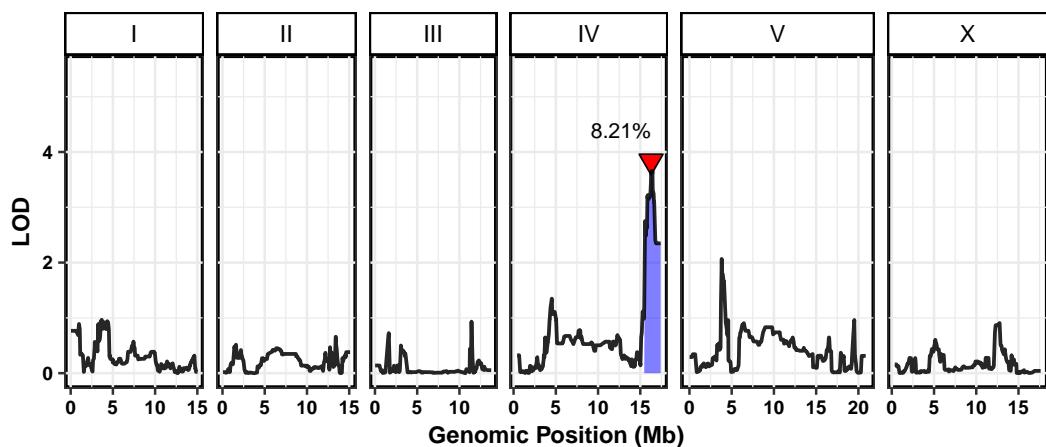


C IV:15879951

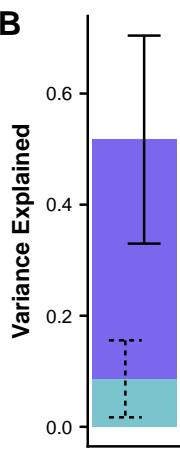
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A fluoxetine.q25.norm.EXT

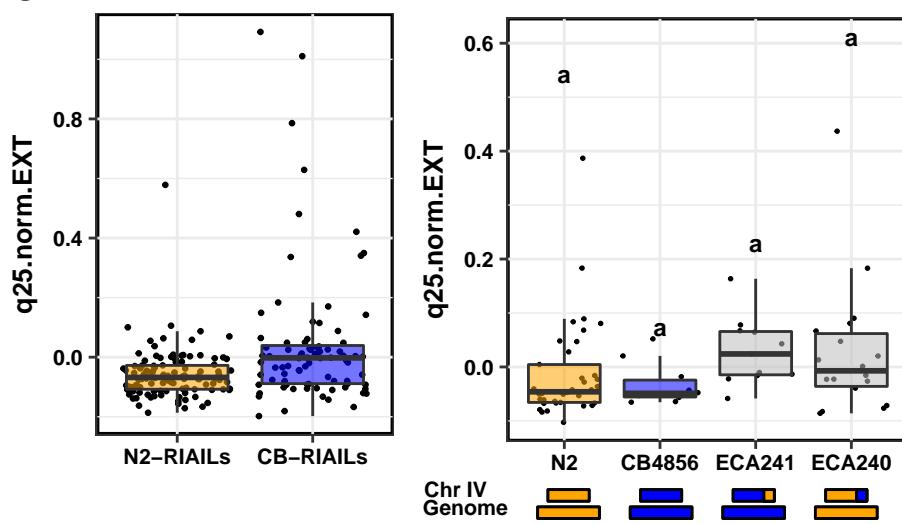


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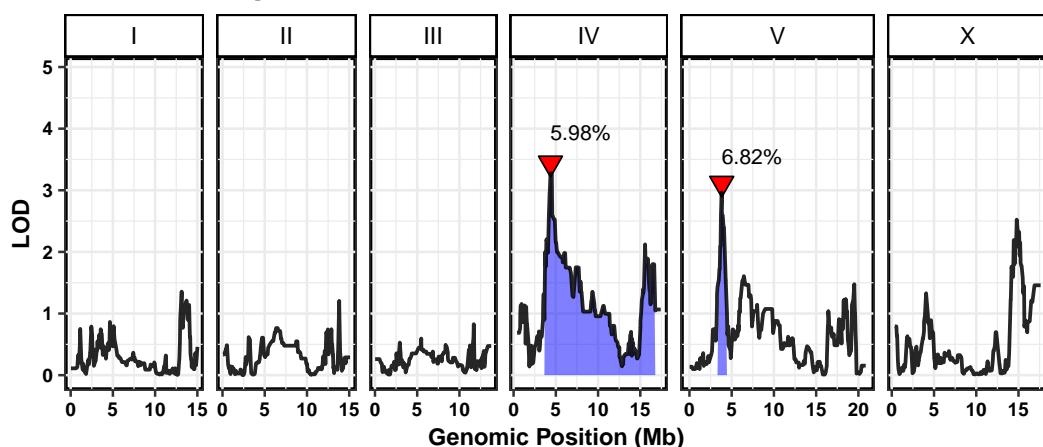


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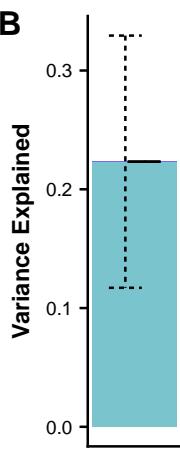
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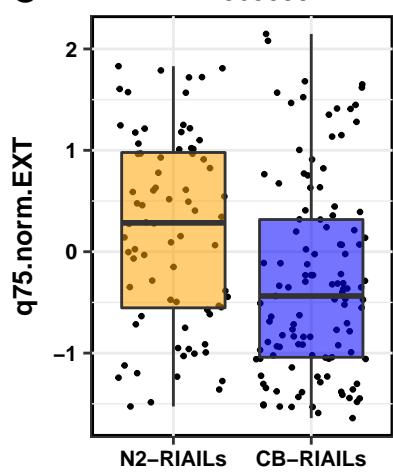
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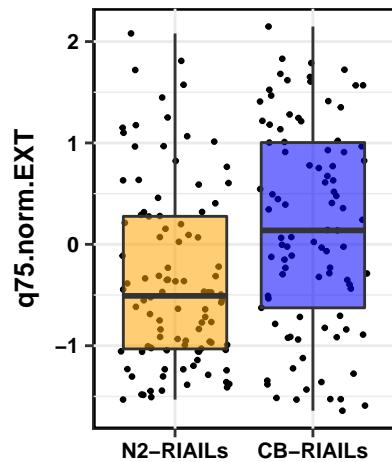
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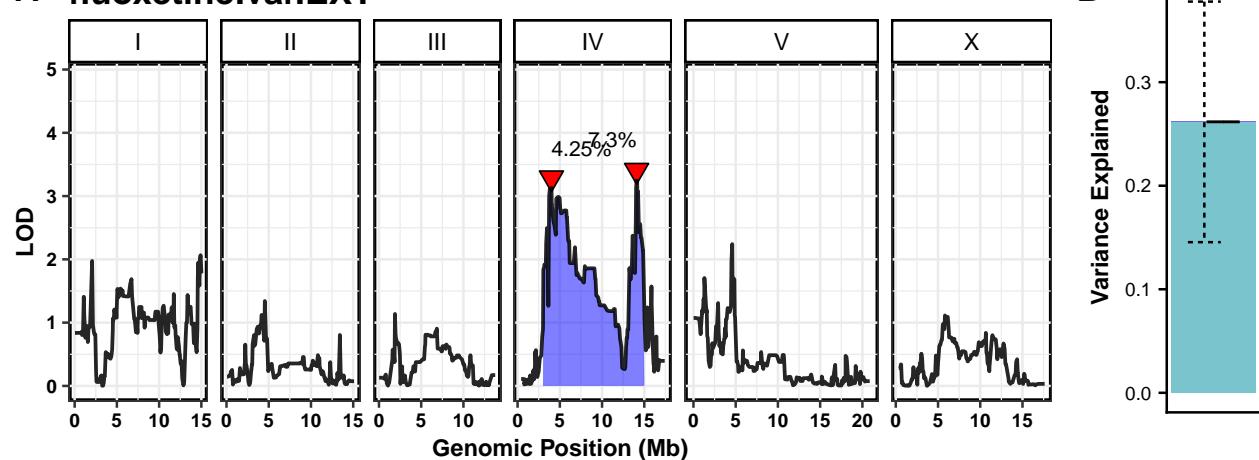
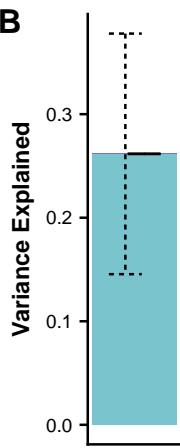
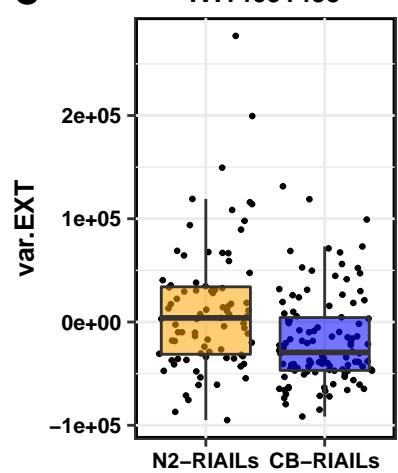


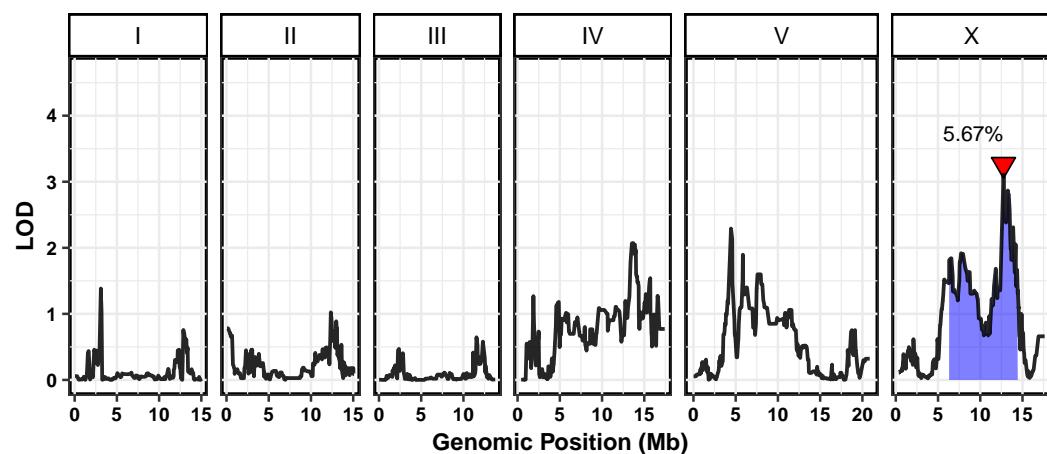
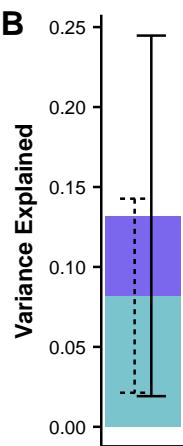
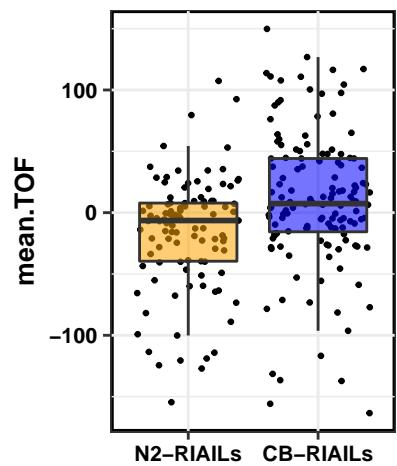
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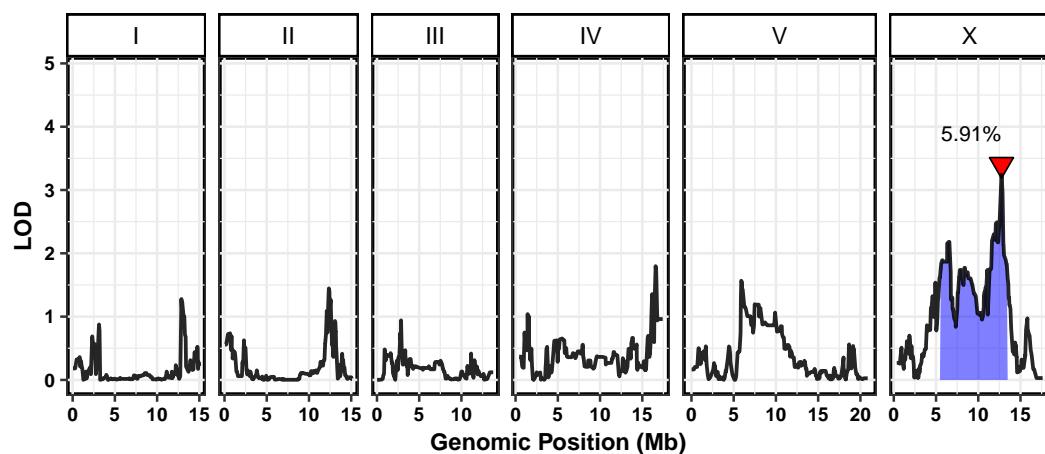
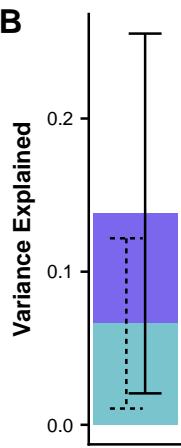
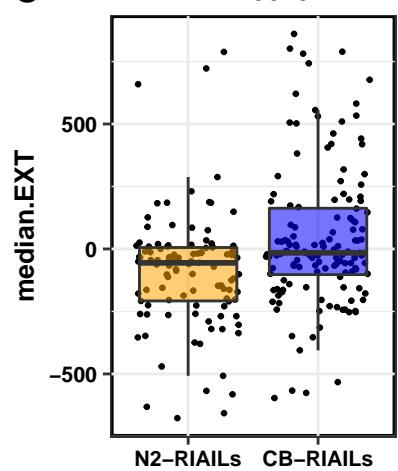


V:3819945

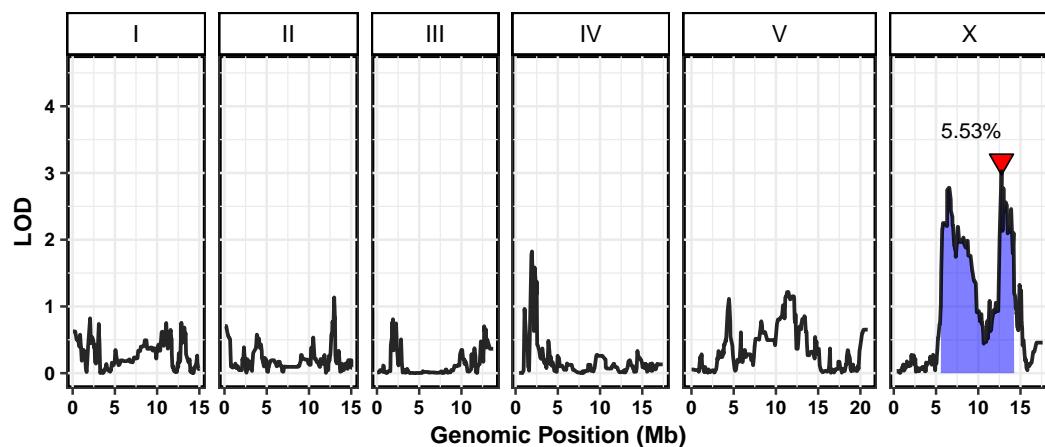


A fluoxetine.var.EXT**B****C IV:14091495**

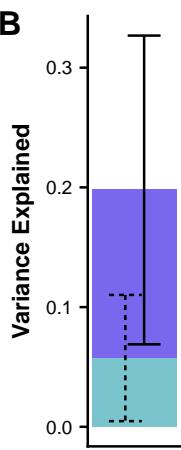
A FUdR.mean.TOF**B****C X:12750794**

A FUdR.median.EXT**B****C X:12750794**

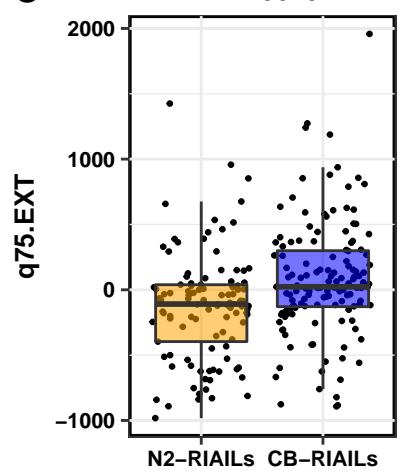
A FUdR.q75.EXT



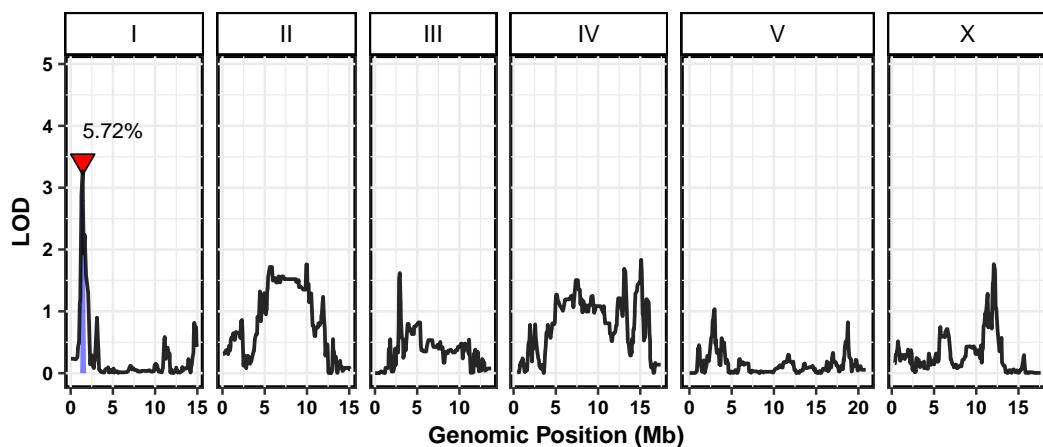
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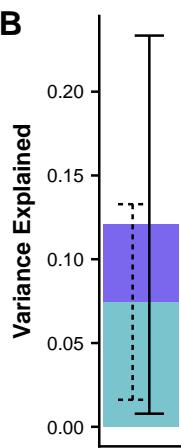
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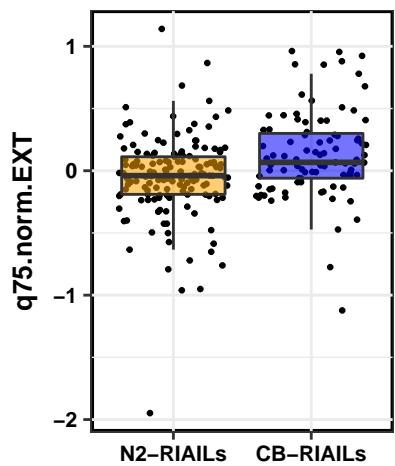
A FUdR.q75.norm.EXT



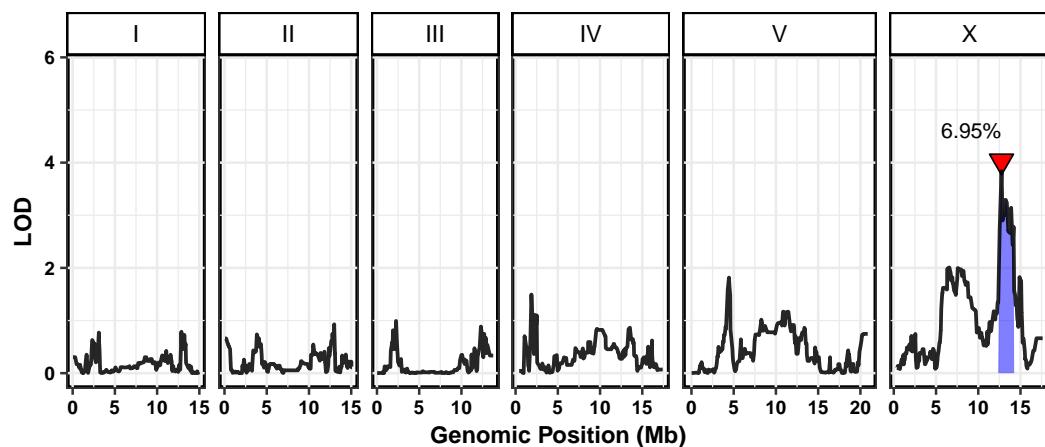
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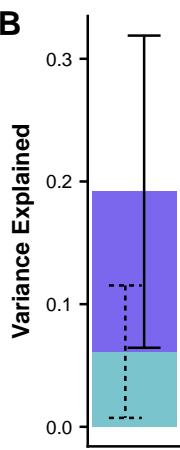
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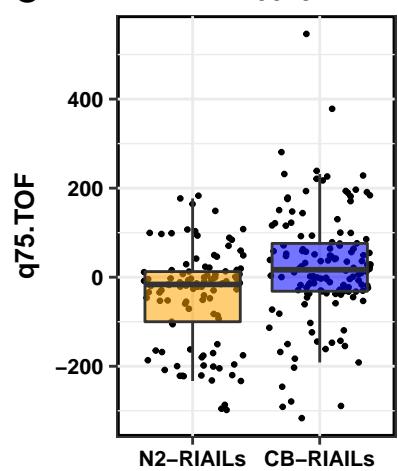
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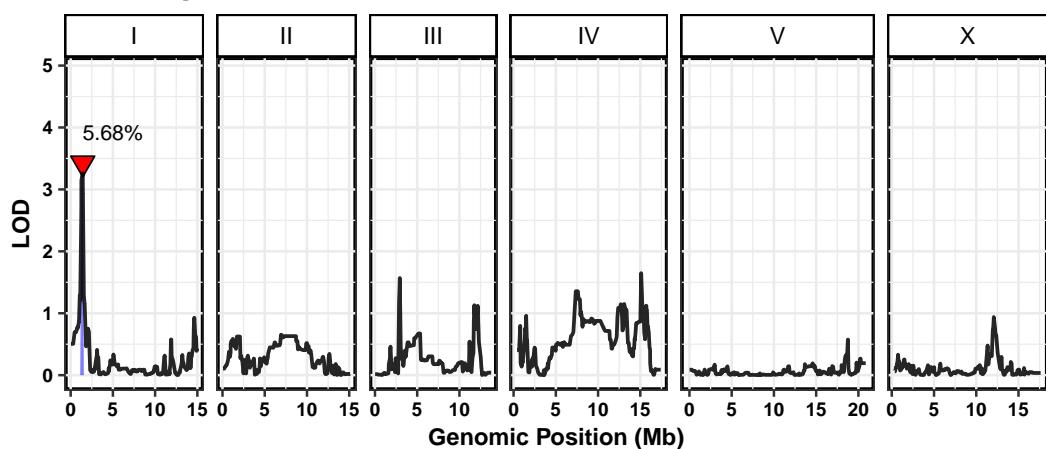
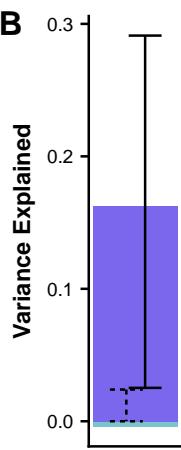
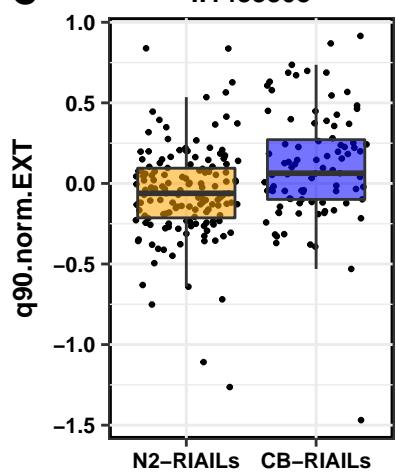


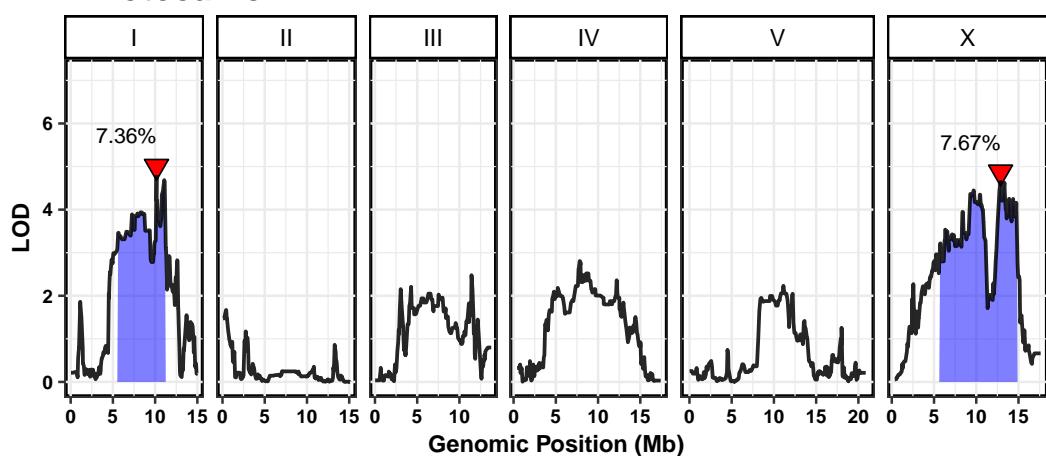
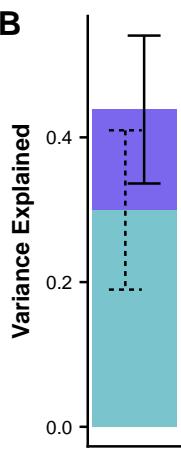
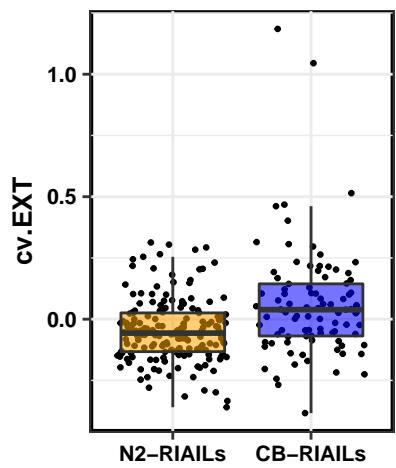
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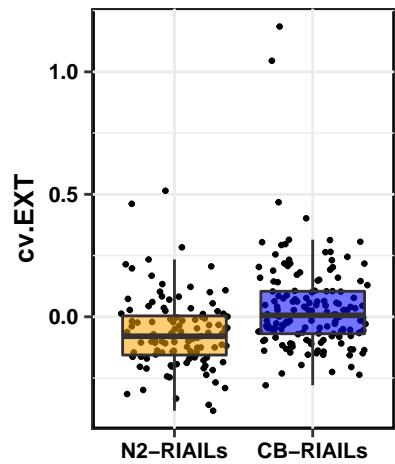
C X:12750794

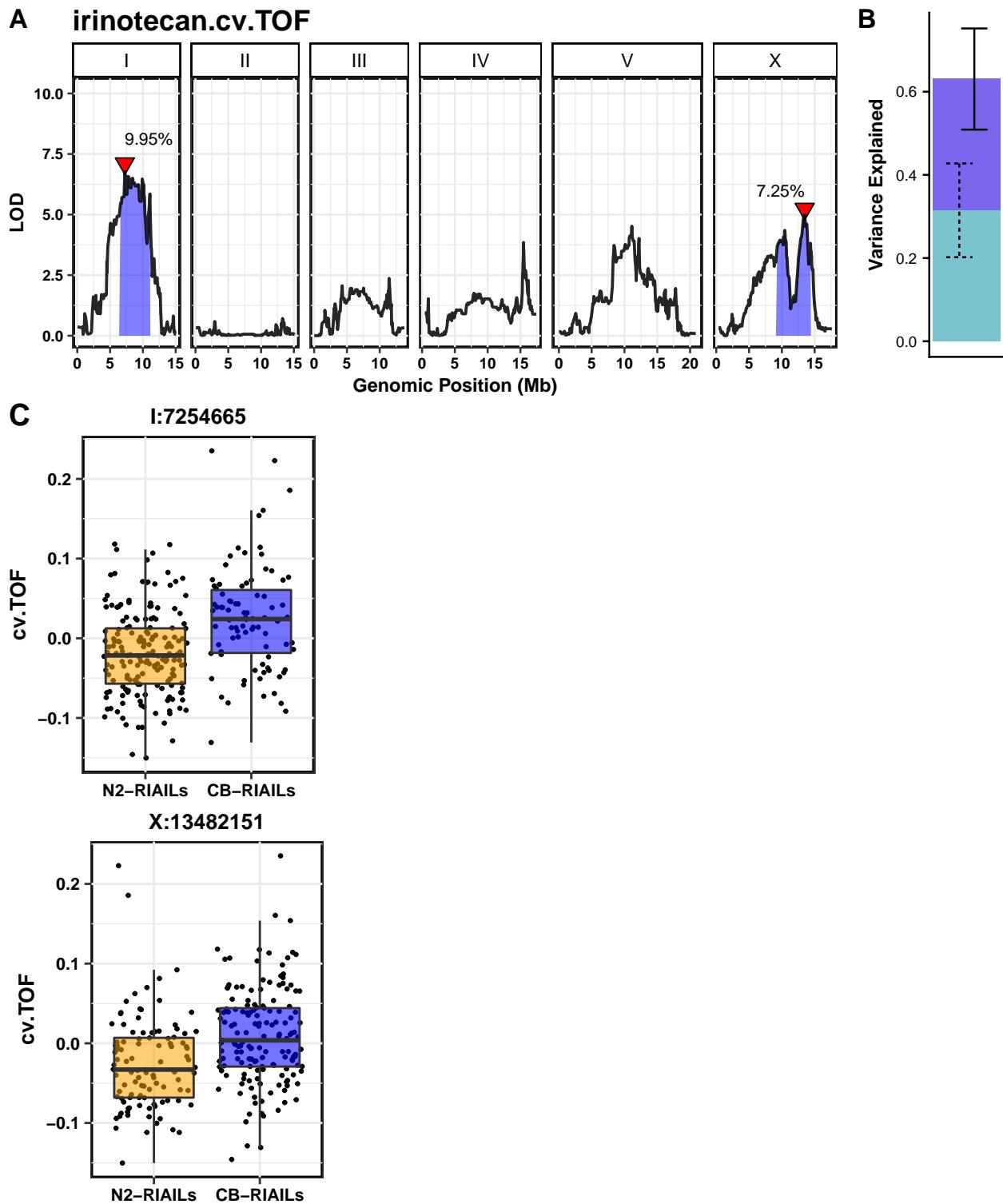


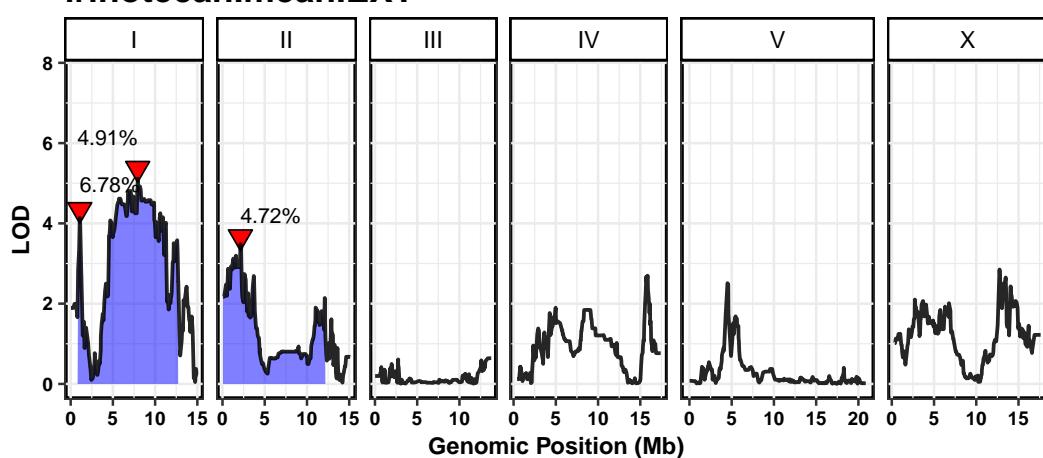
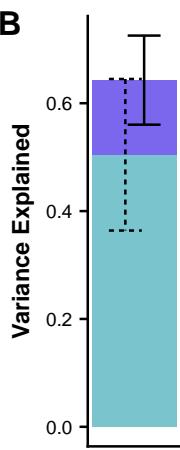
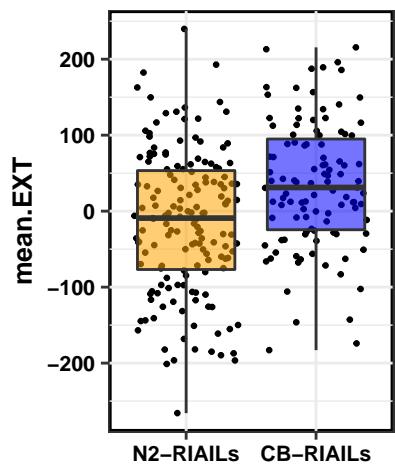
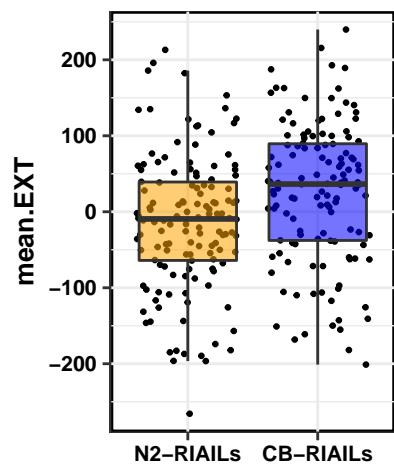
A FUdR.q90.norm.EXT**B****C I:1433303**

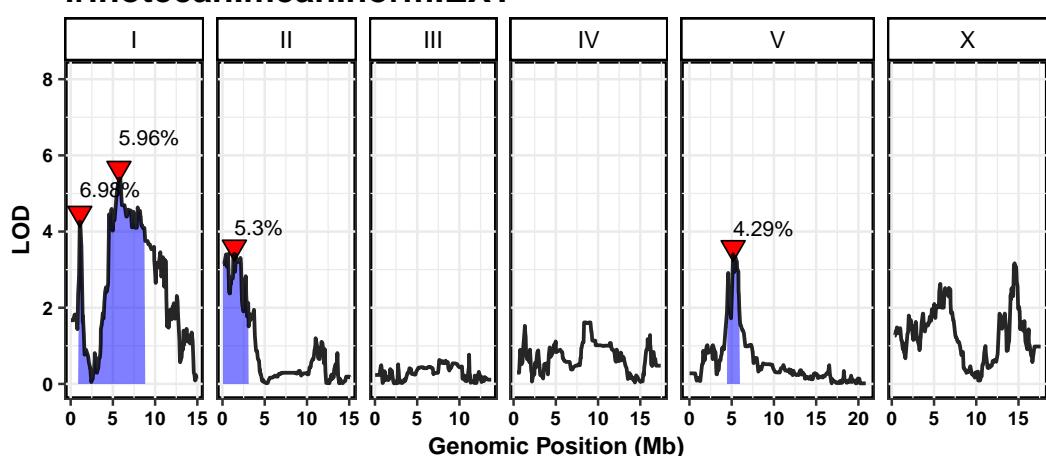
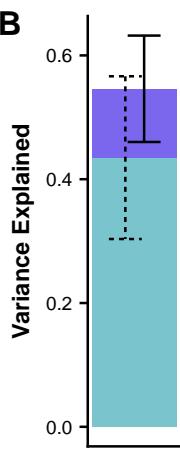
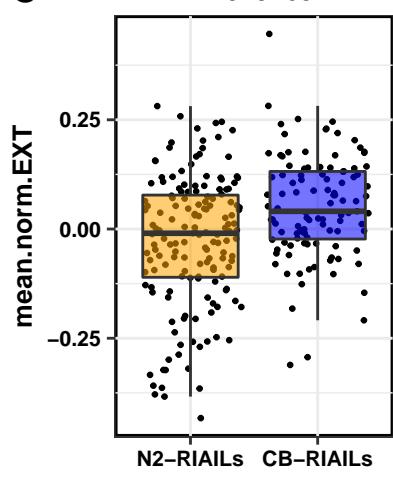
A irinotecan.cv.EXT**B****C** I:10163992

X:12878202

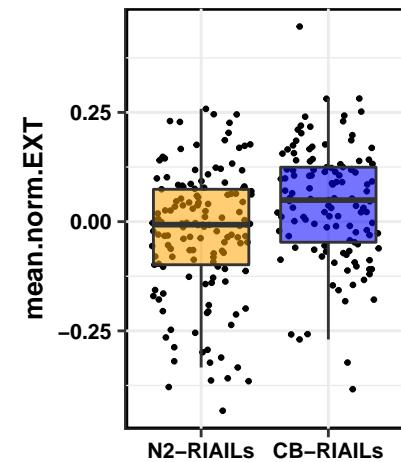




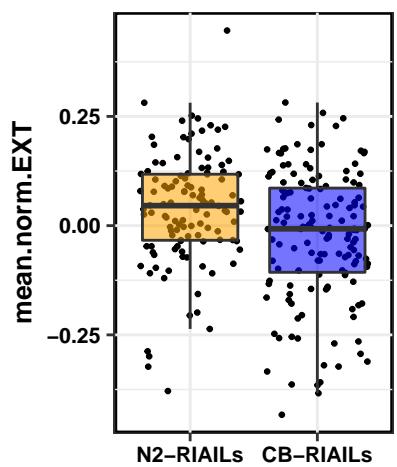
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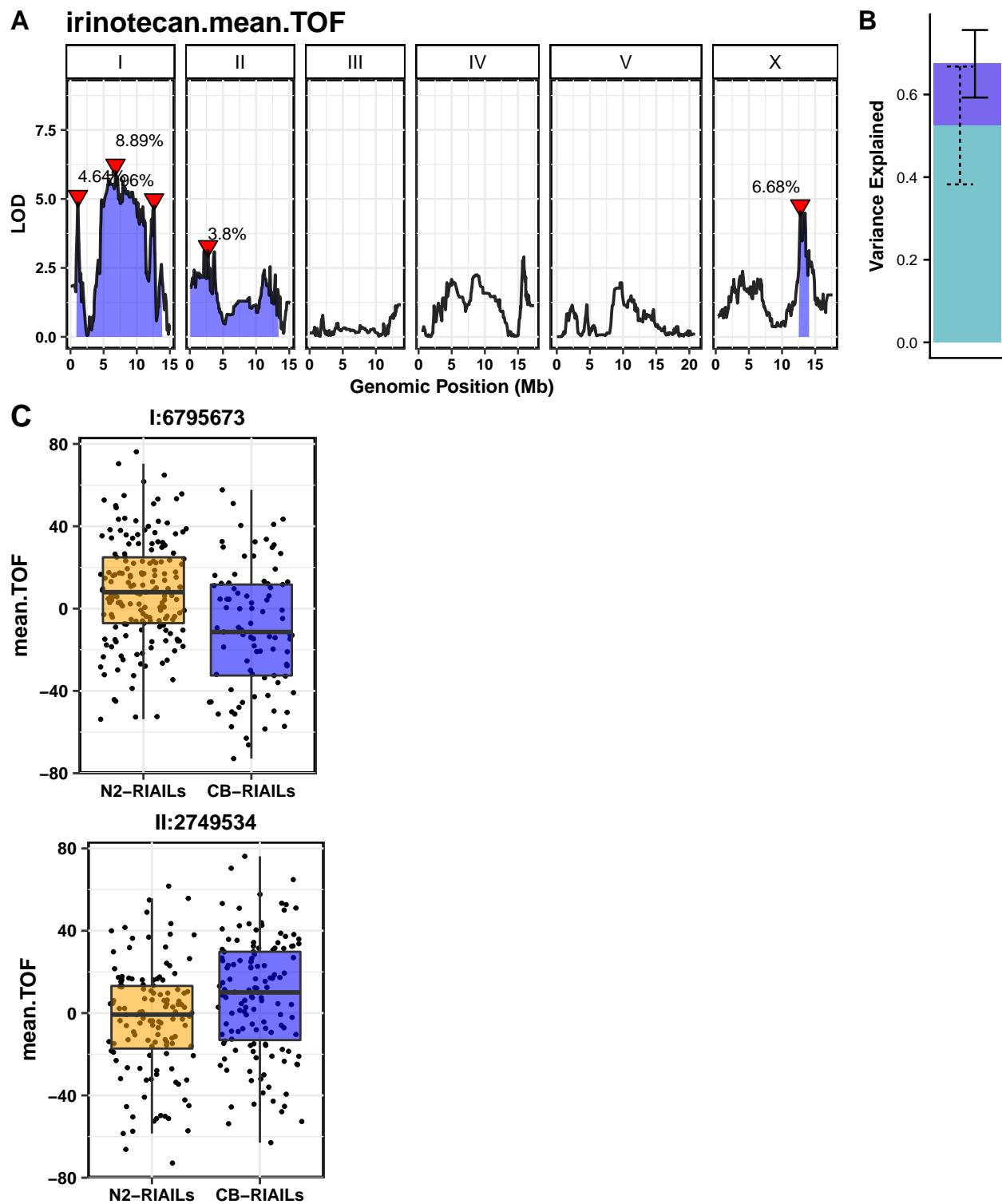
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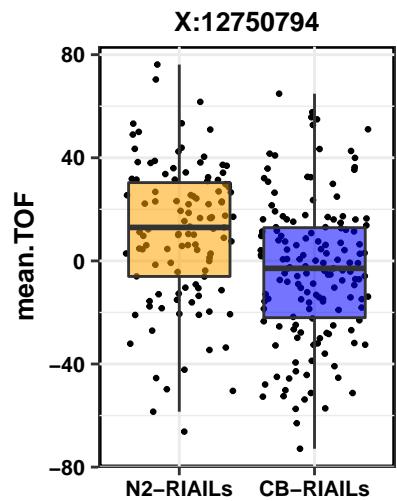
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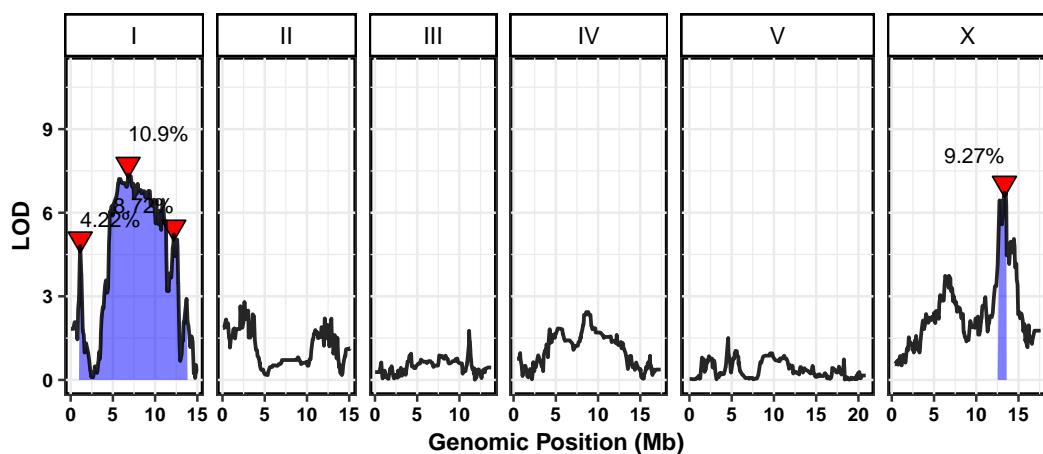
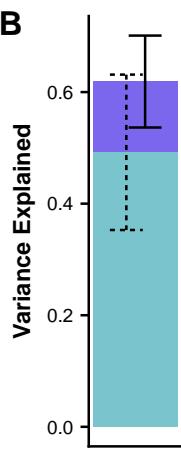
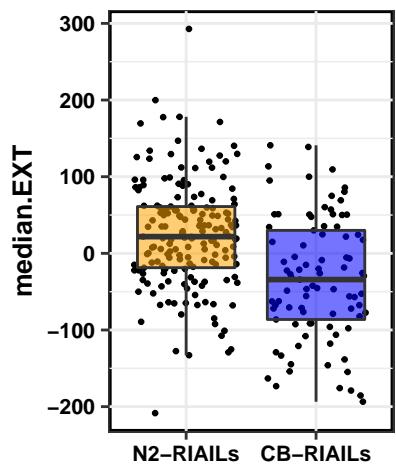


V:5173502

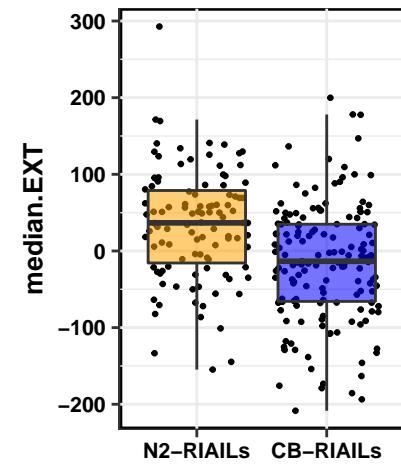


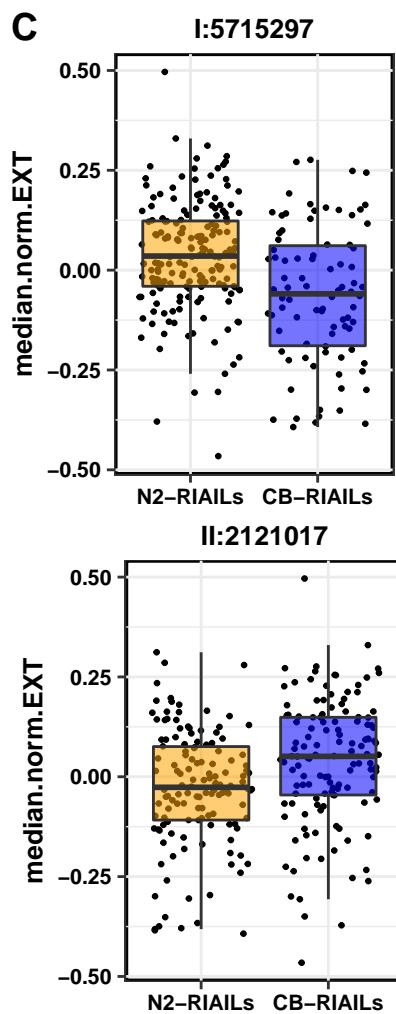
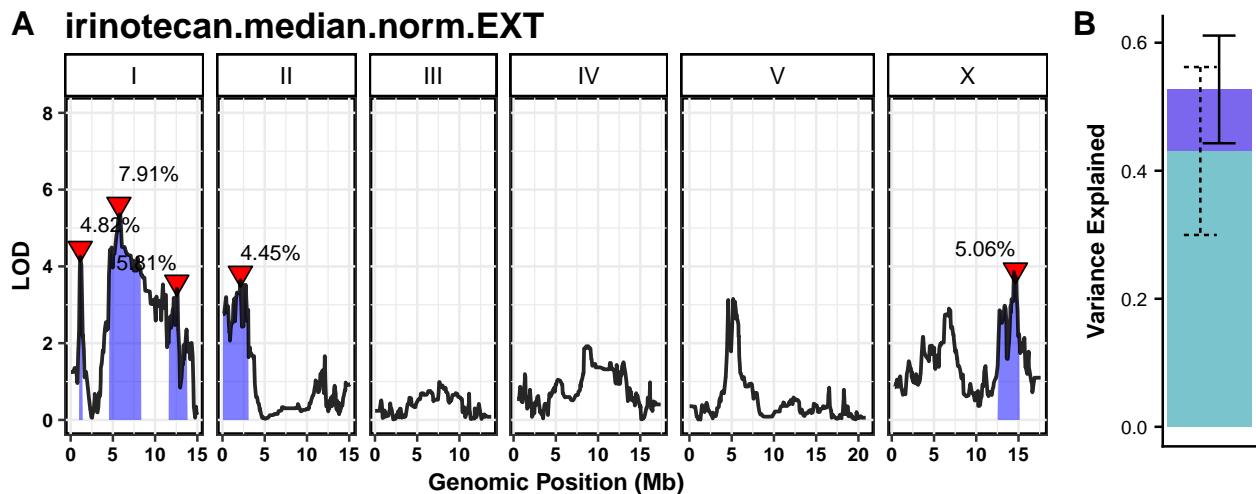


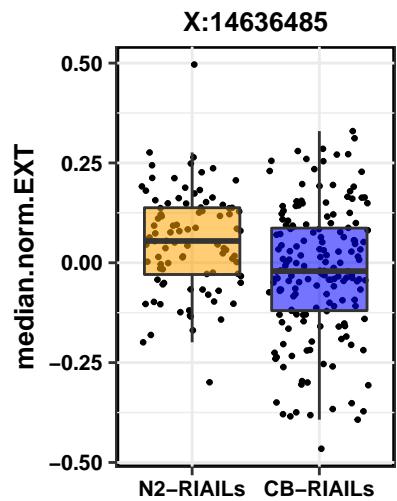


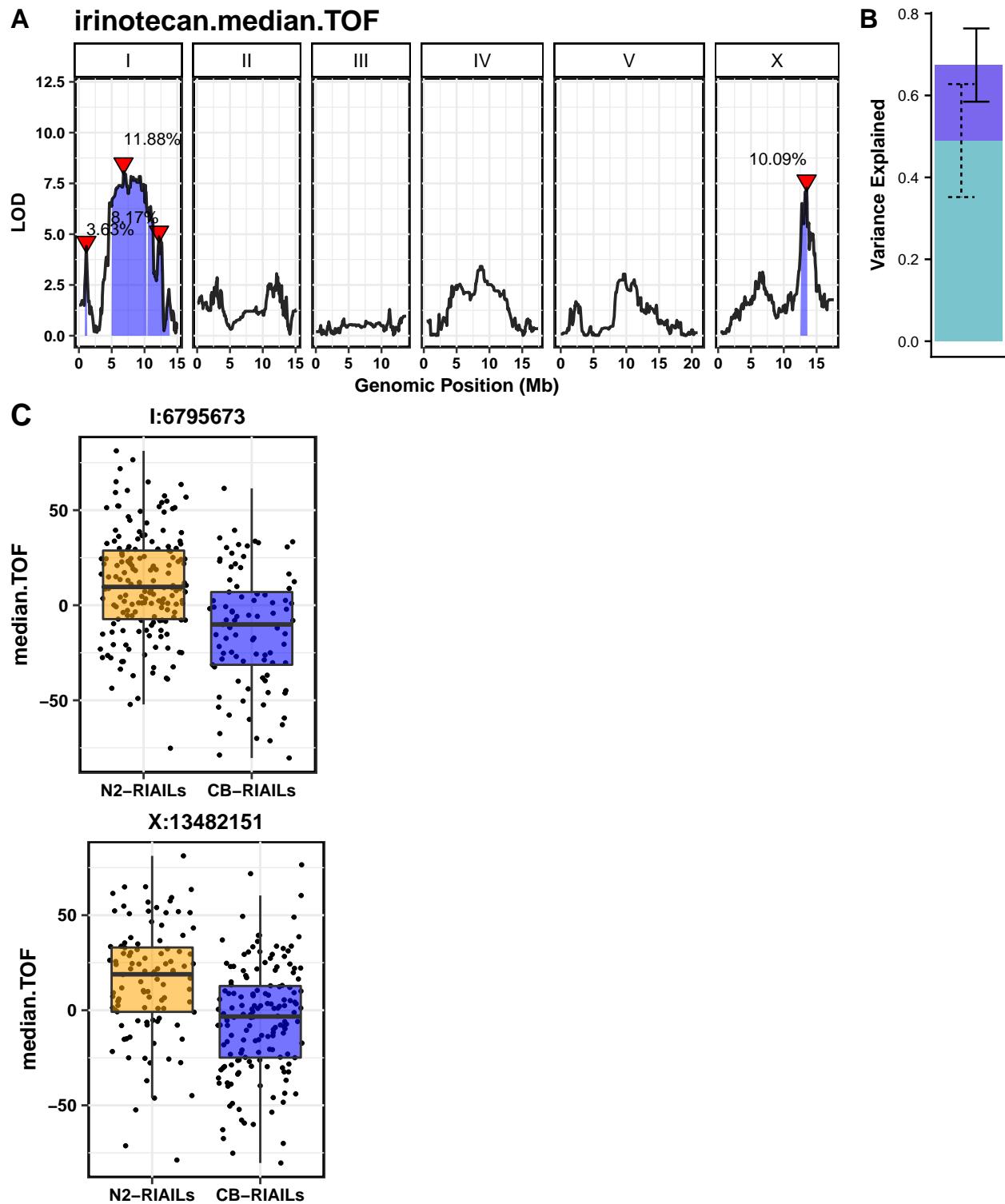
A irinotecan.median.EXT**B****C** I:6795673

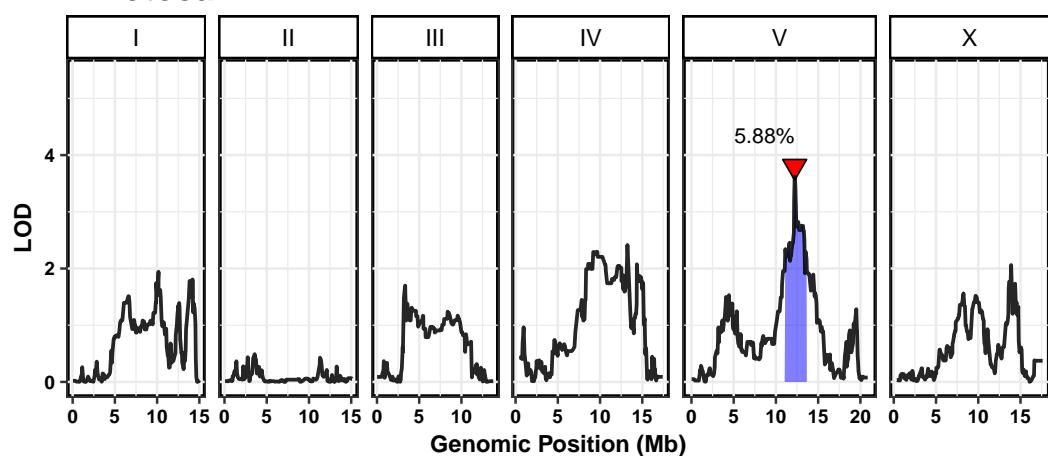
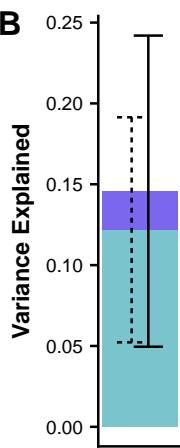
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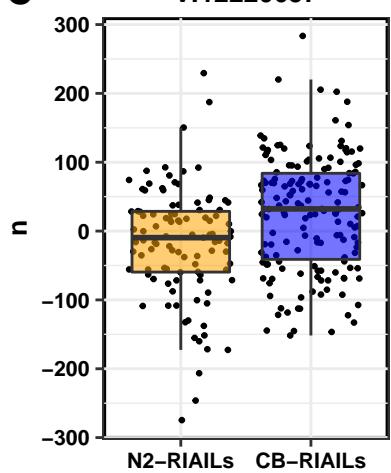


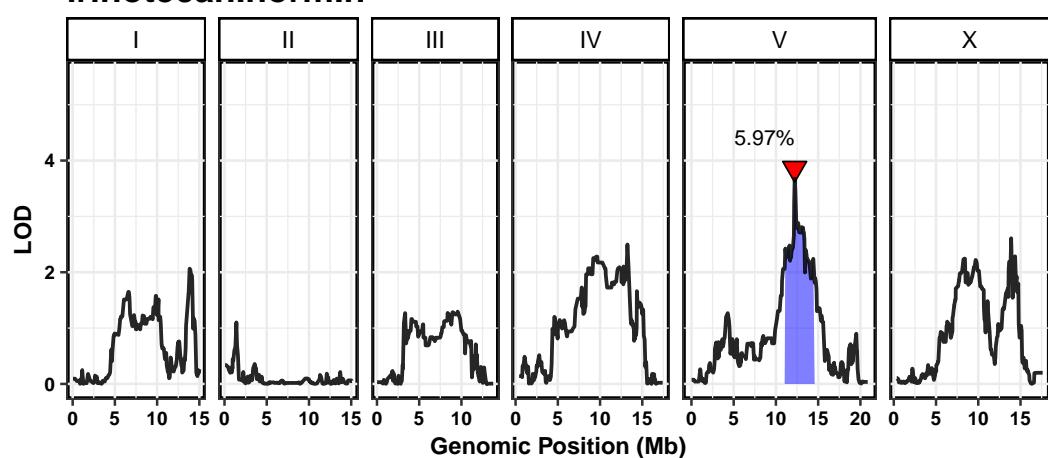
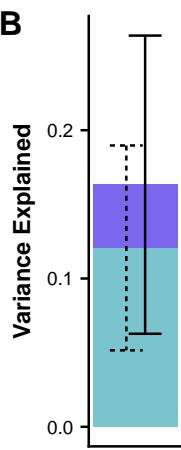
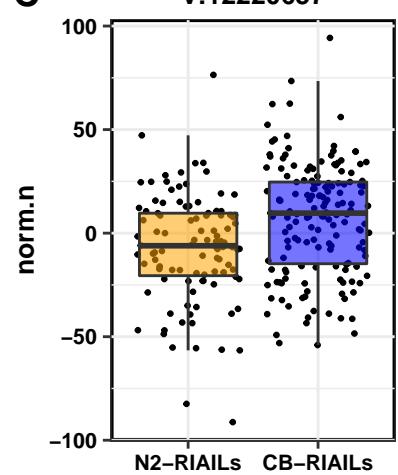




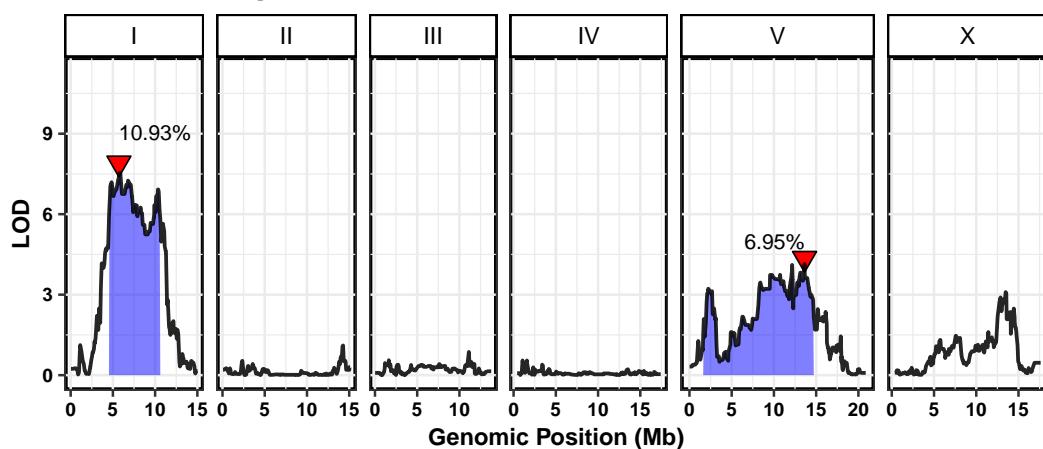
A irinotecan.n**B****C**

V:12220657

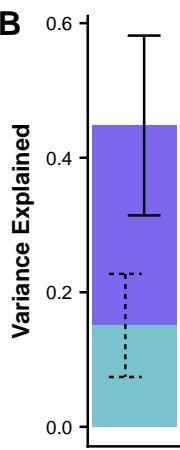


A irinotecan.norm.n**B****C V:12220657**

A irinotecan.q10.EXT

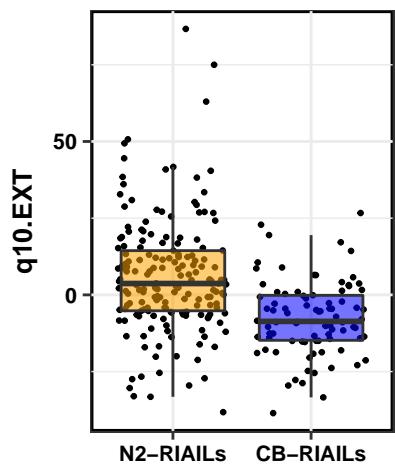


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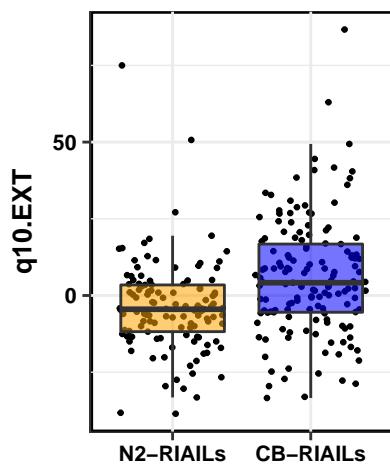


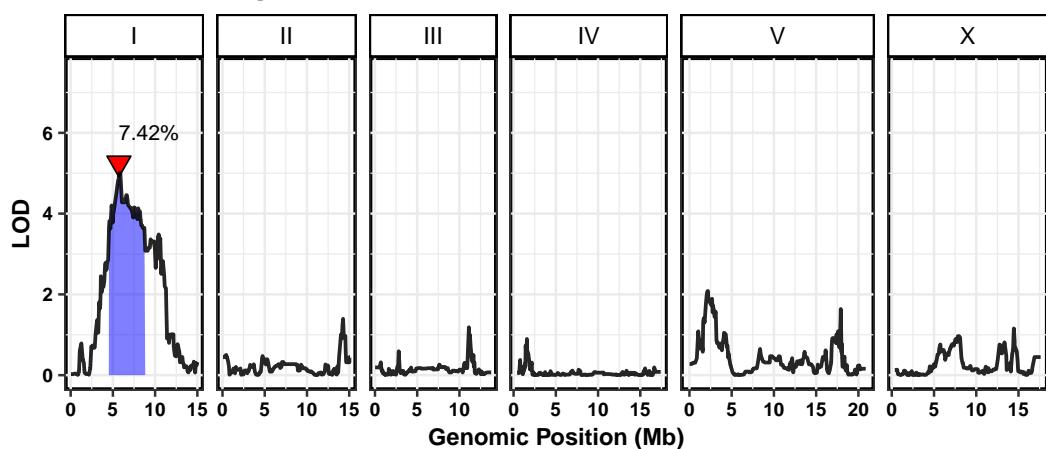
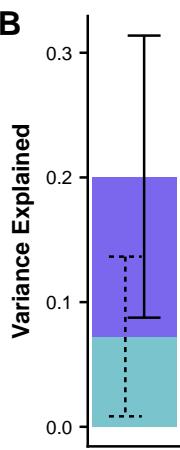
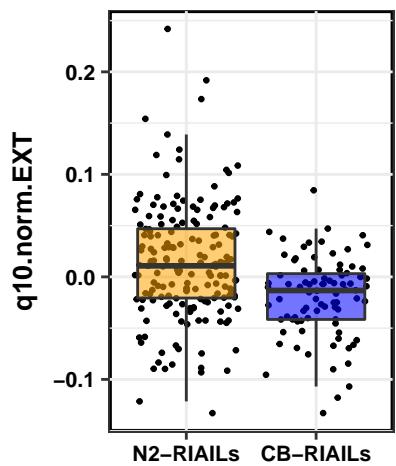
C

I:5715297

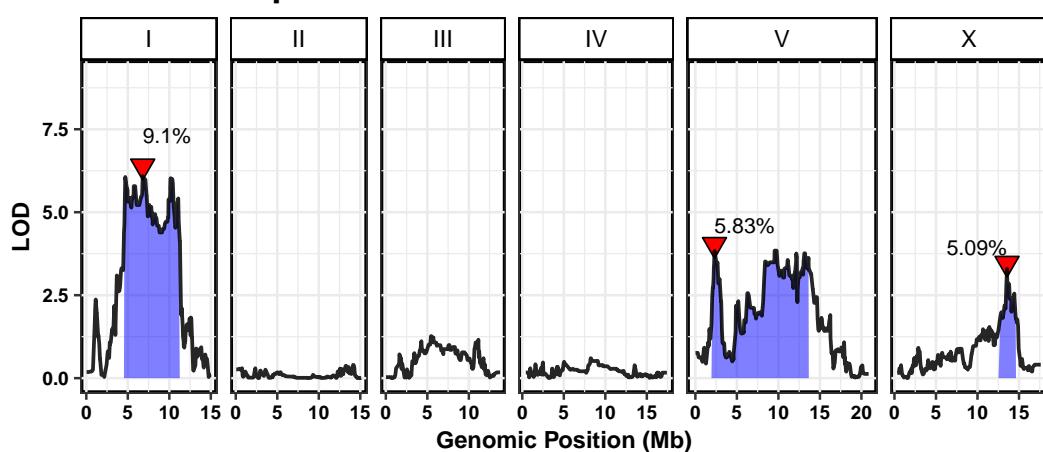


V:13628670

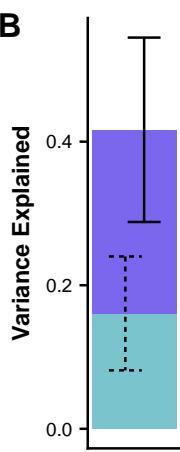


A irinotecan.q10.norm.EXT**B****C I:5715297**

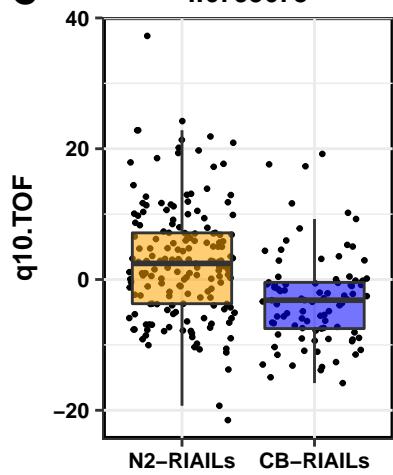
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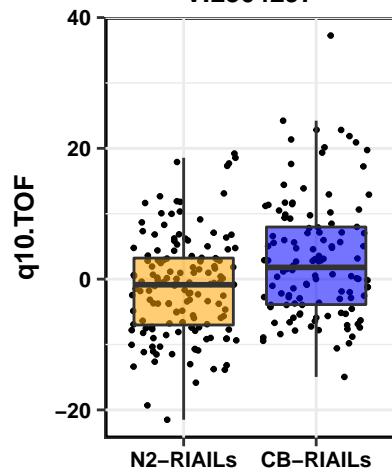
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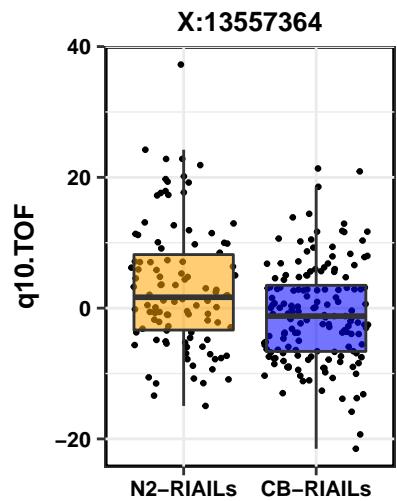


C I:6795673

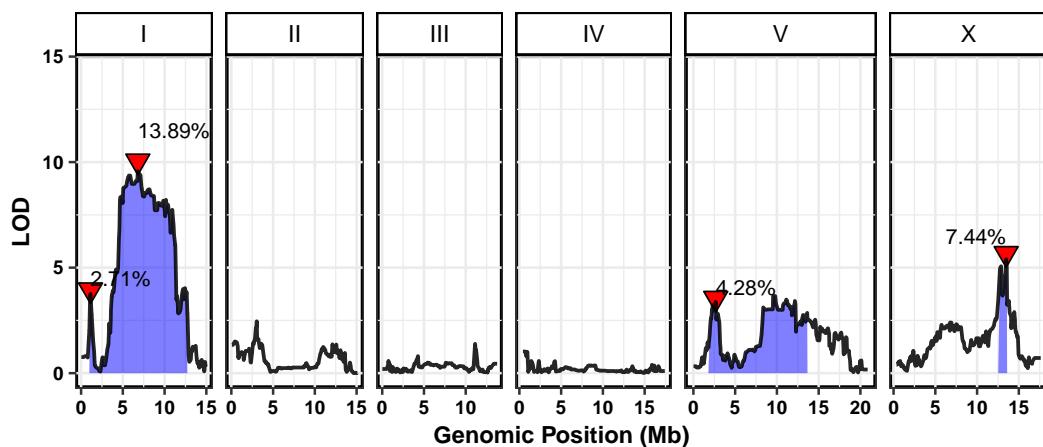


V:2304297

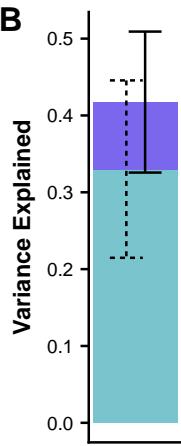




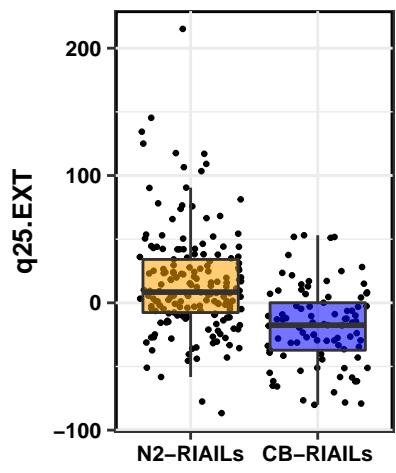
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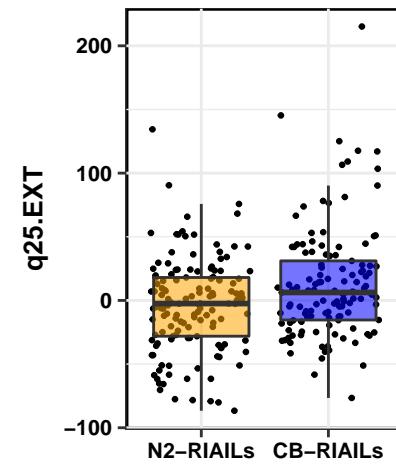
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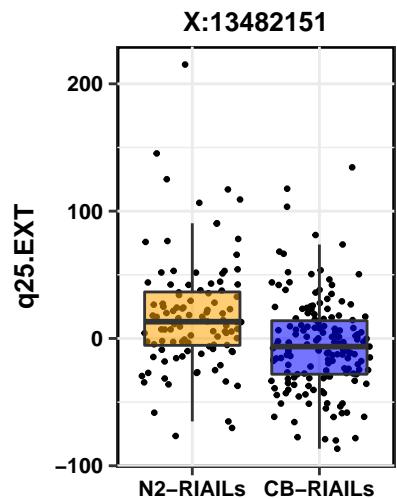


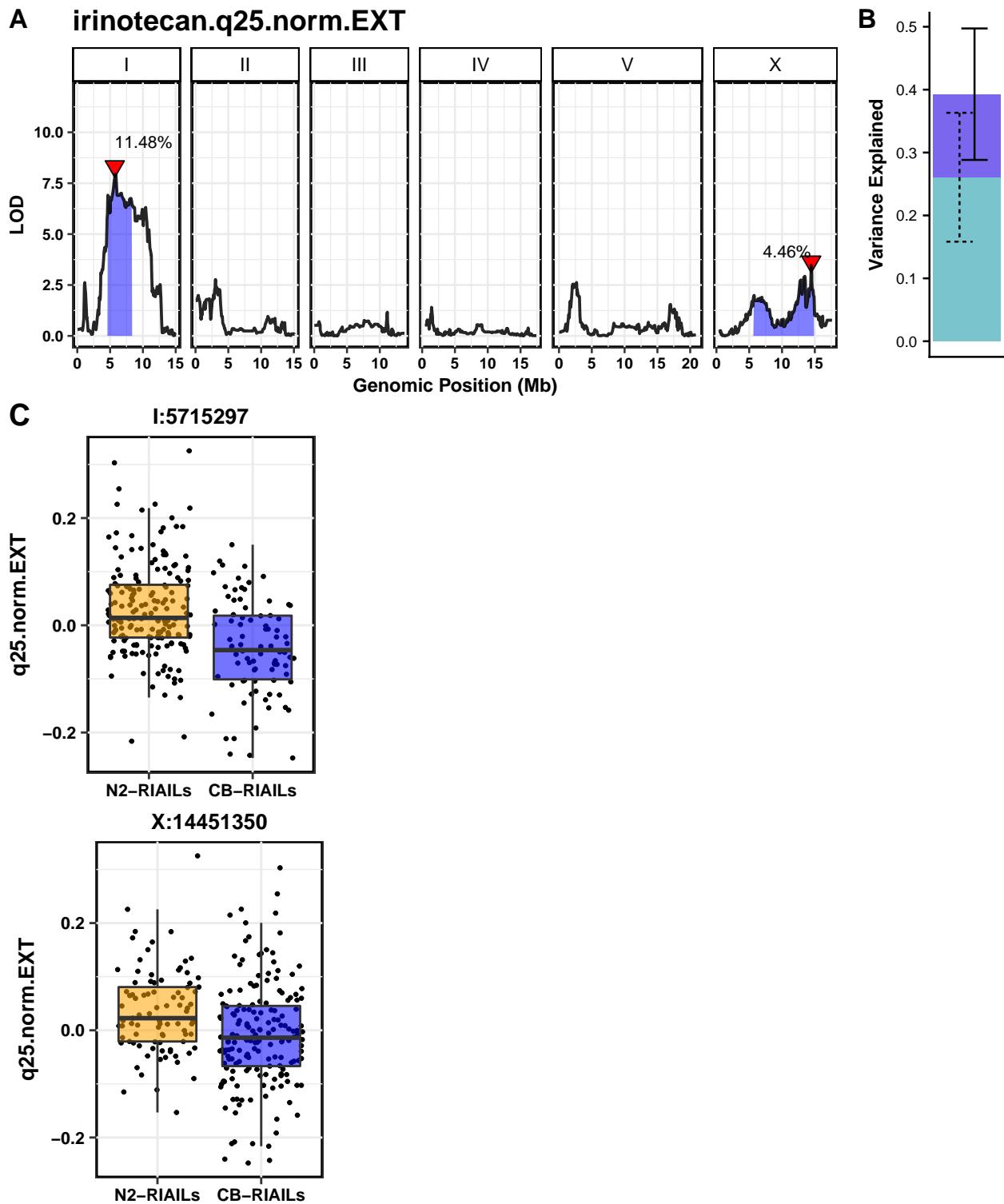
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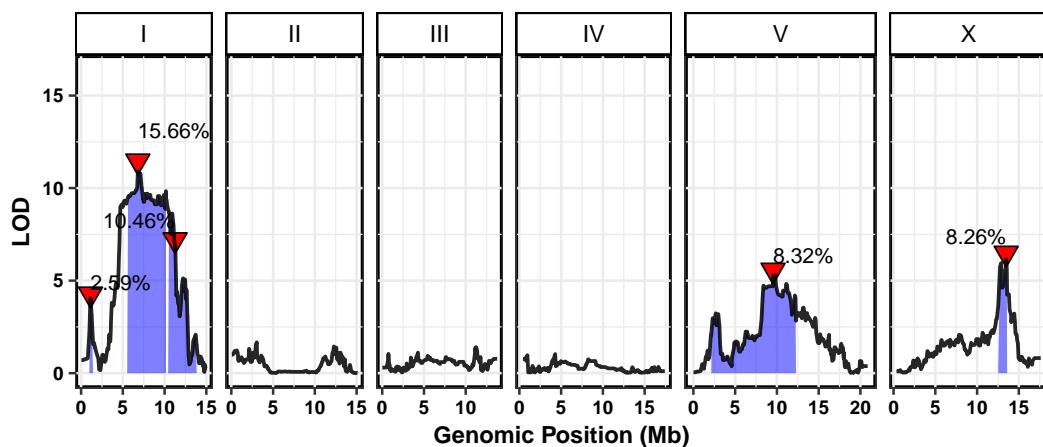
V:2675410



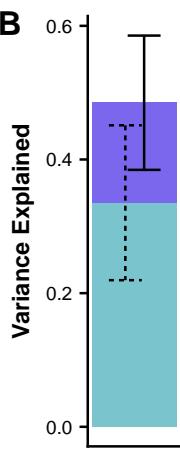




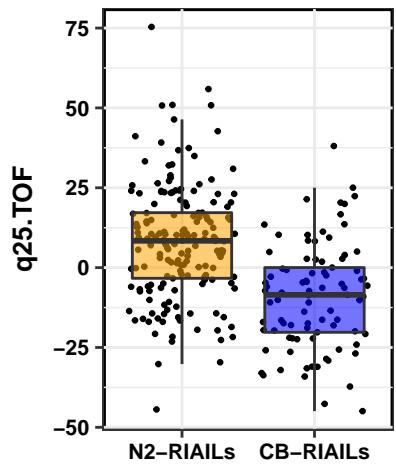
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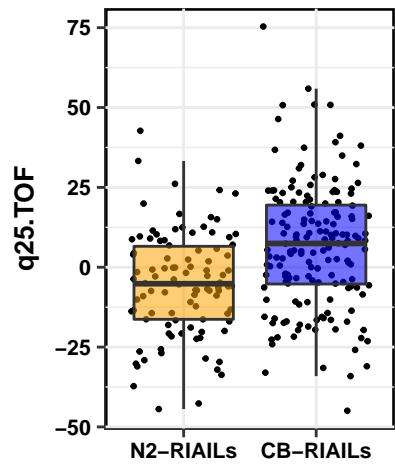
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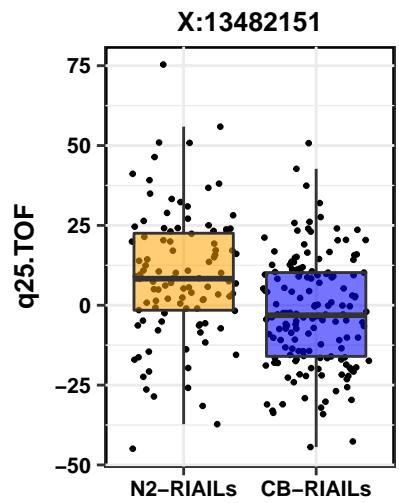


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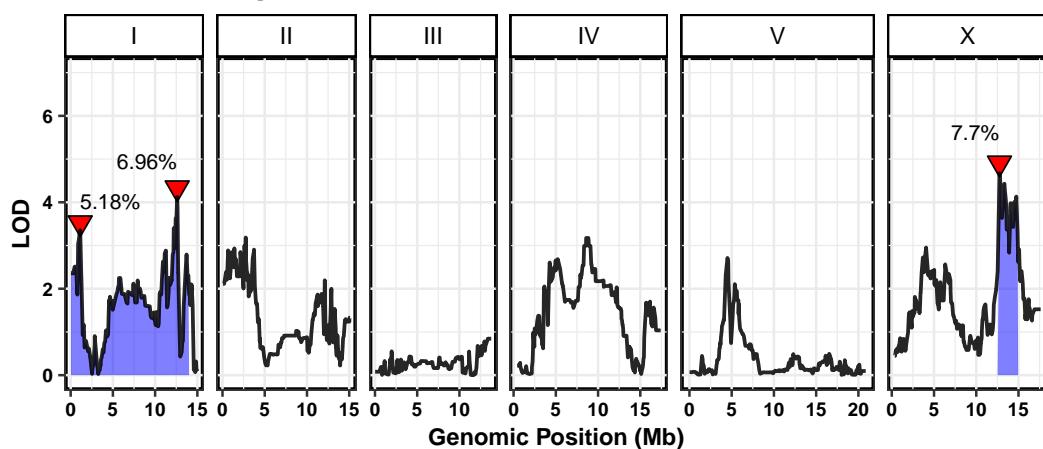
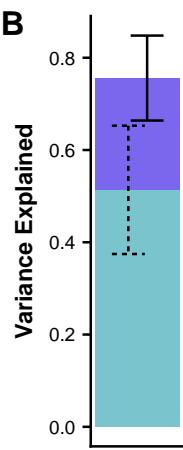


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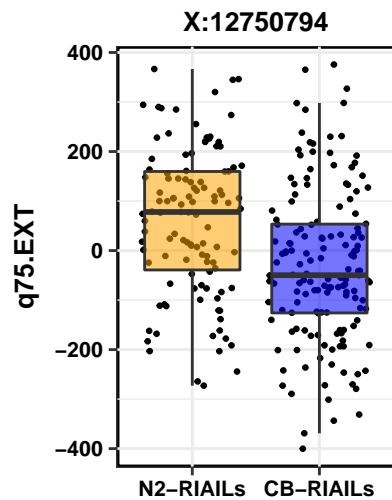
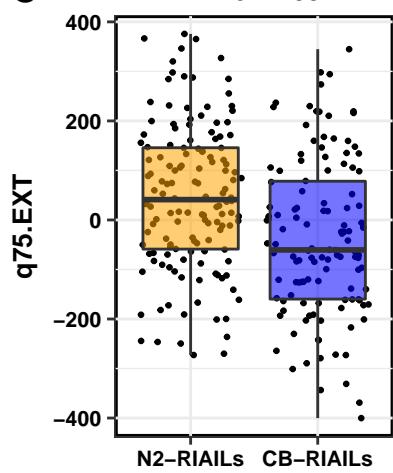




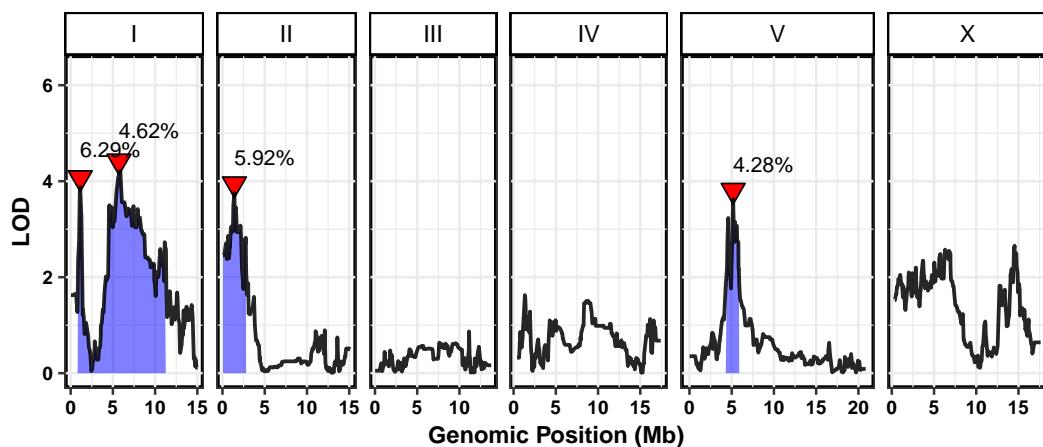
A irinotecan.q75.EXT

**B**

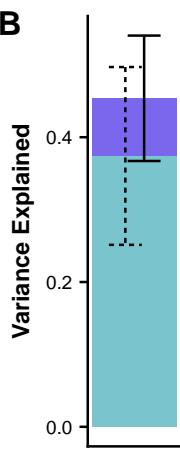
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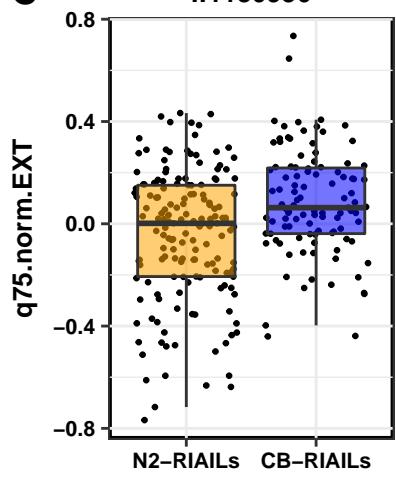
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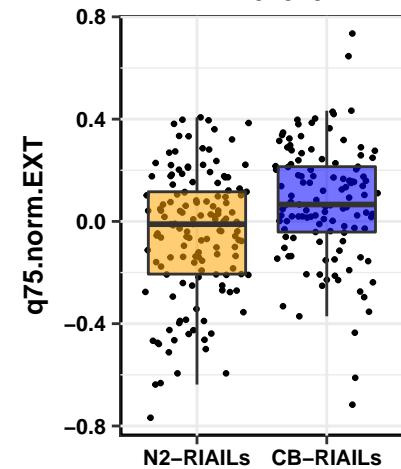
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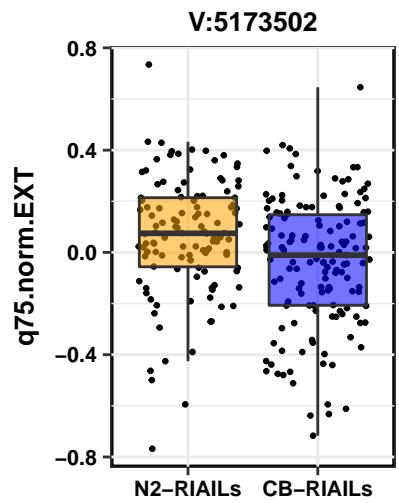


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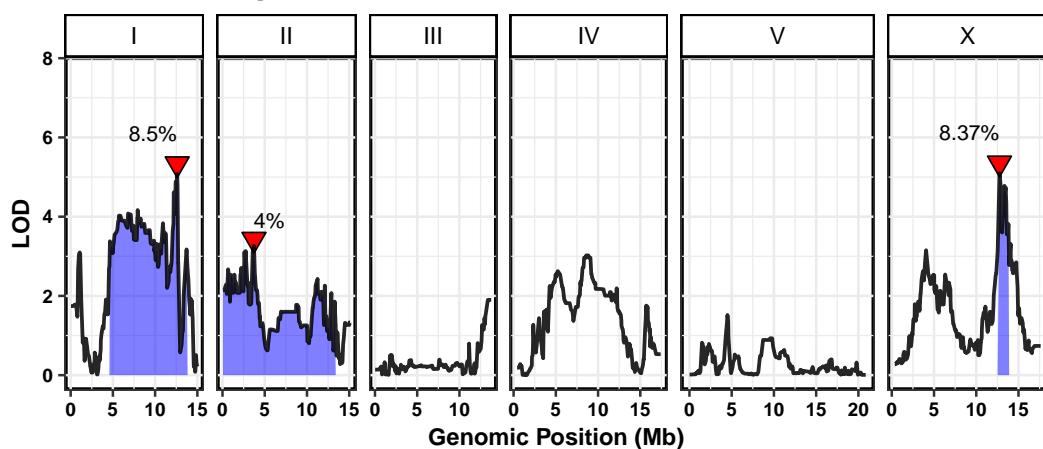


II:1407379

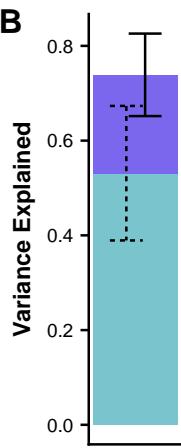




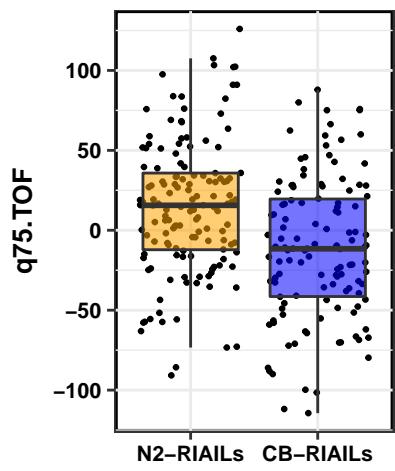
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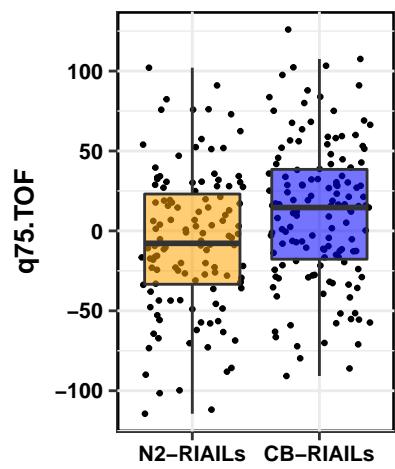
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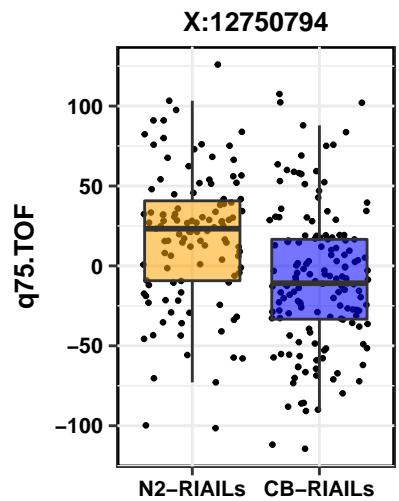


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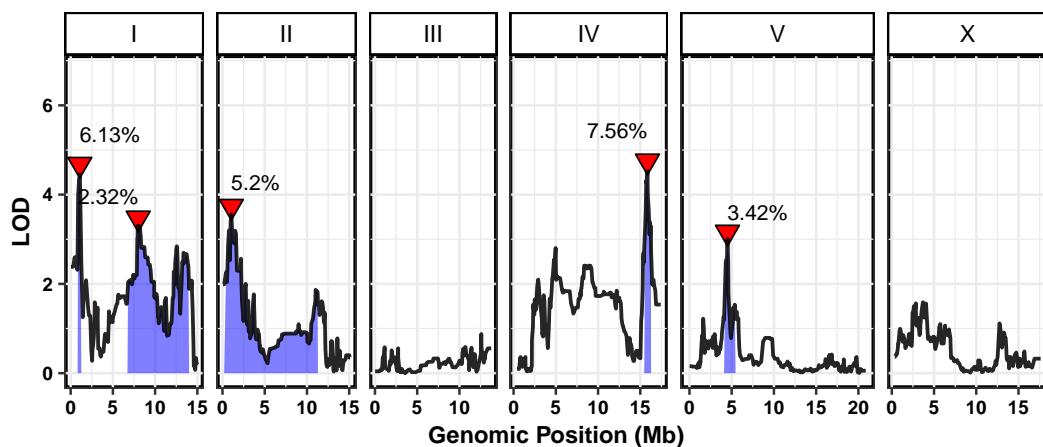


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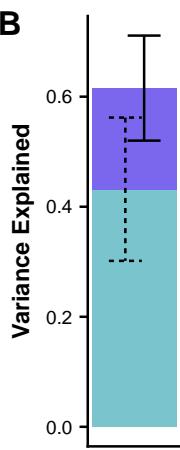




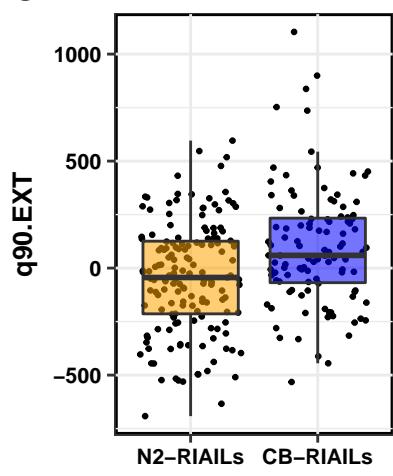
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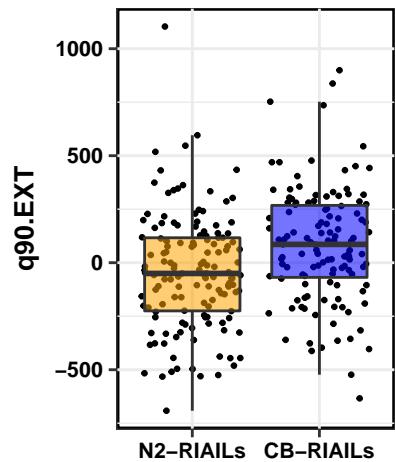
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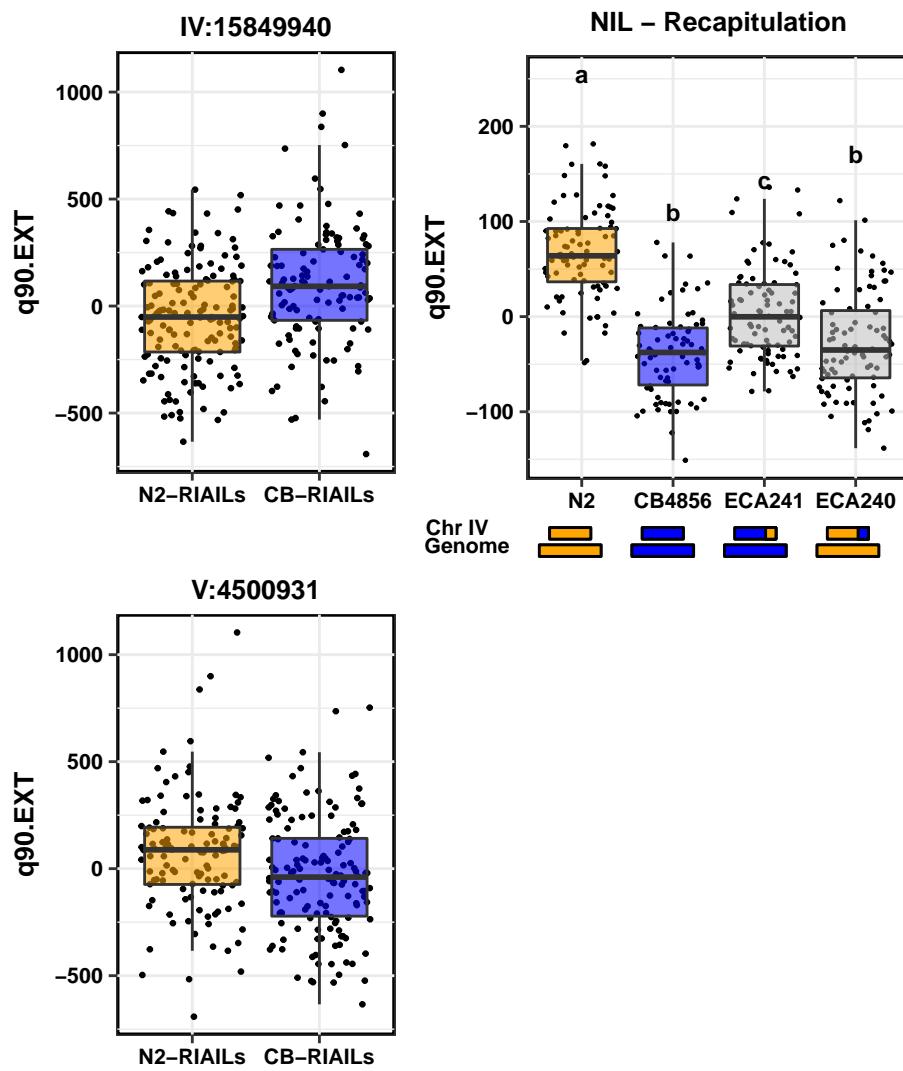


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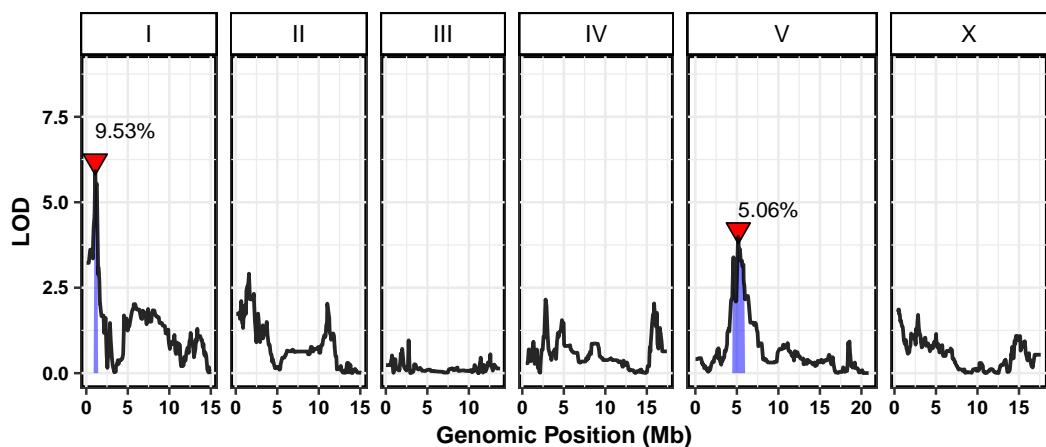


II:1043218

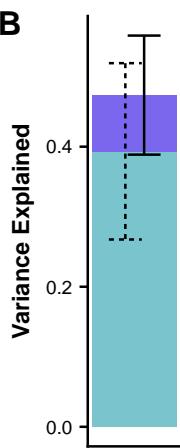




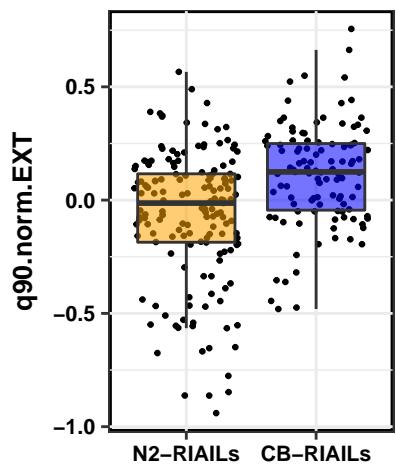
A irinotecan.q90.norm.EXT



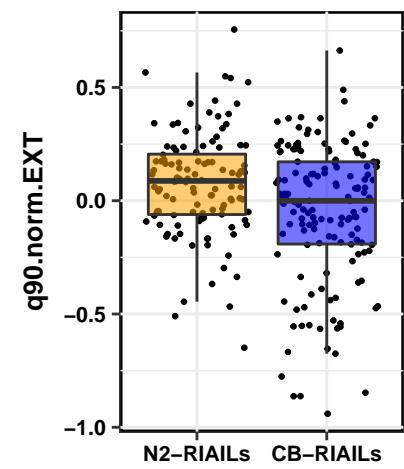
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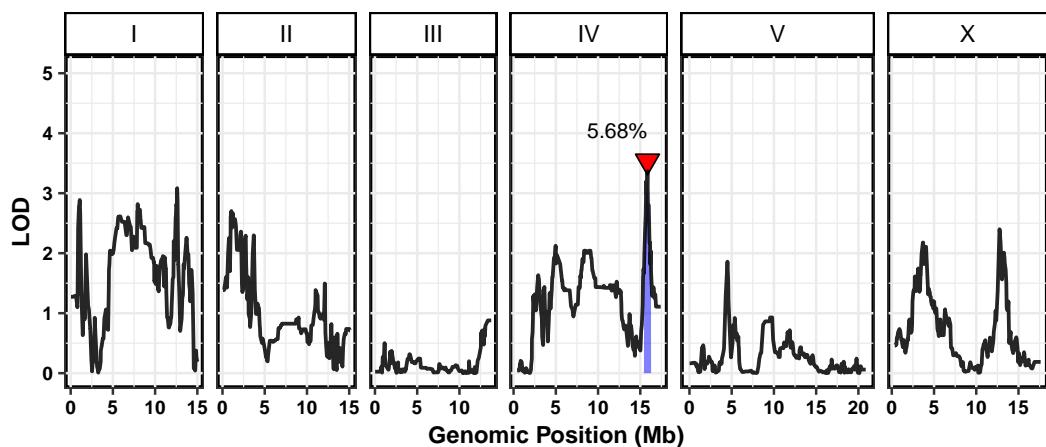
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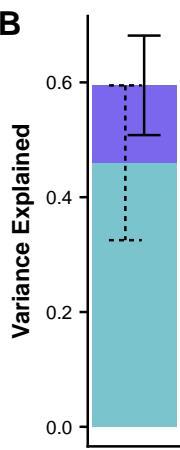
V:5173502



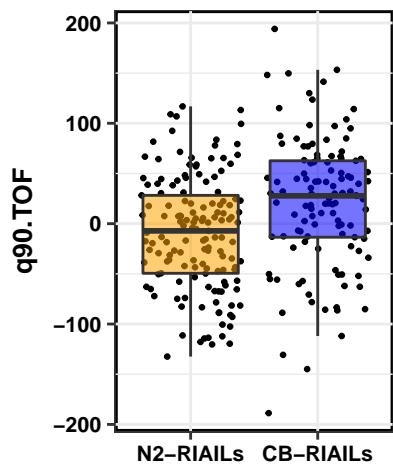
A irinotecan.q90.TOF



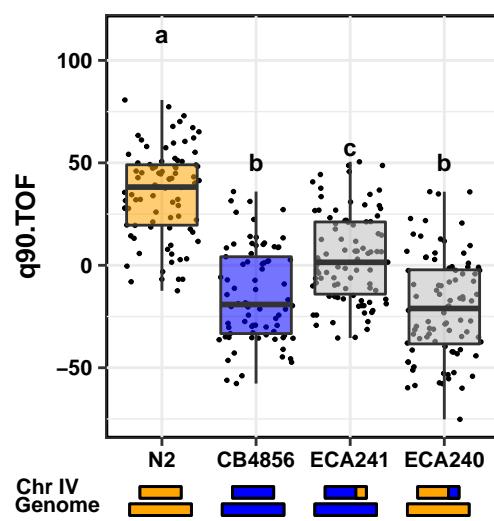
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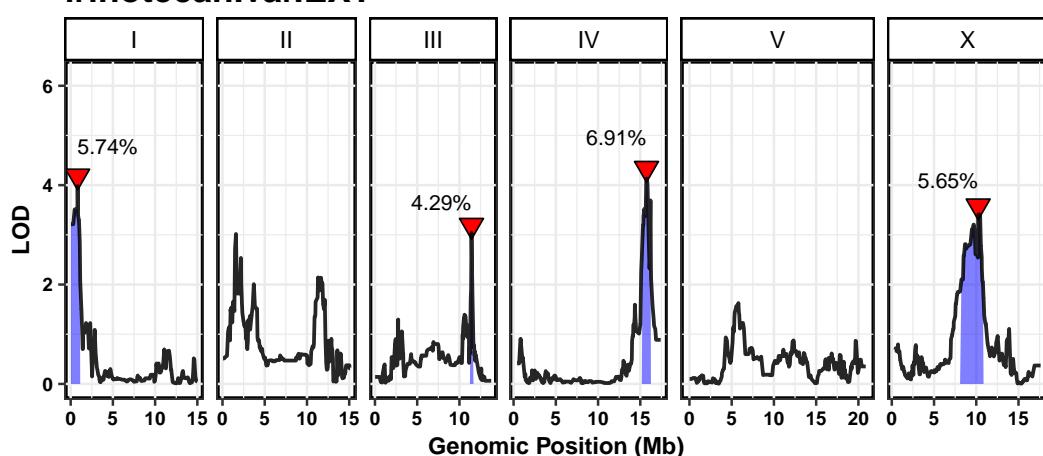
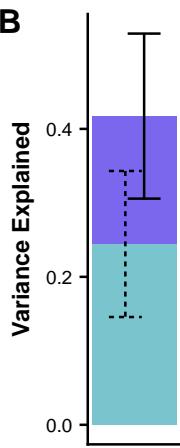
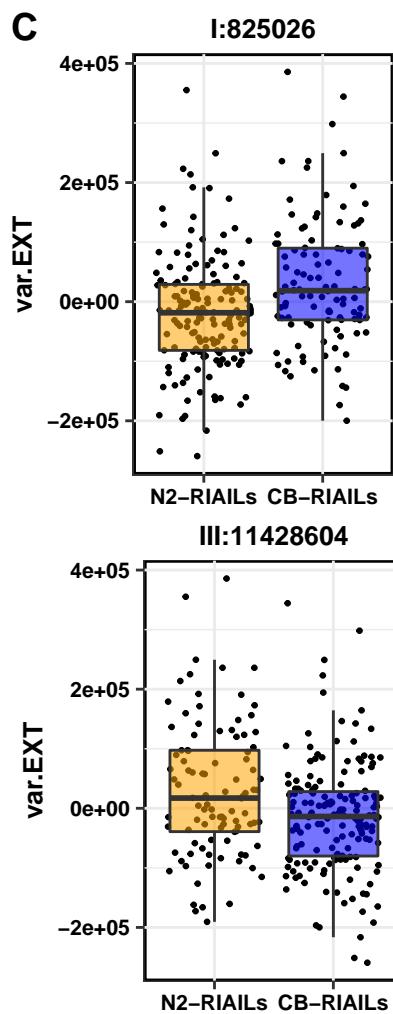


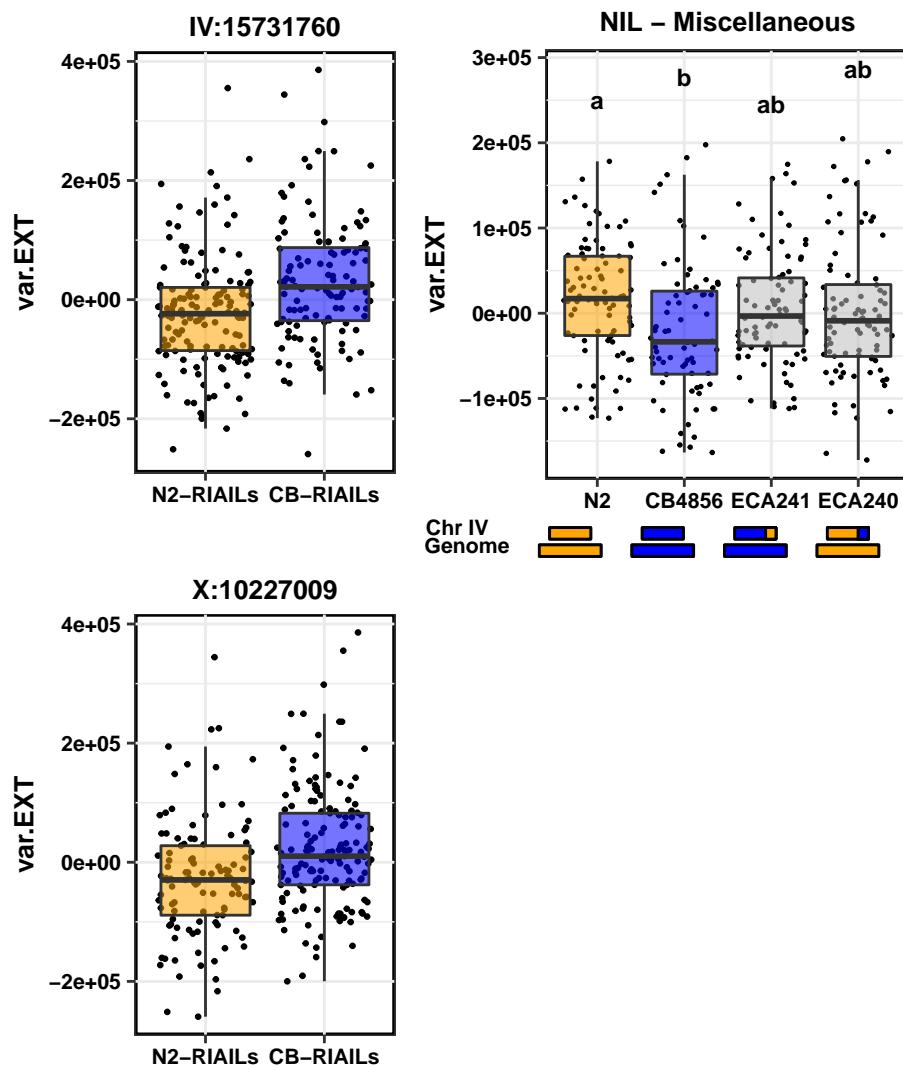
C IV:15849940

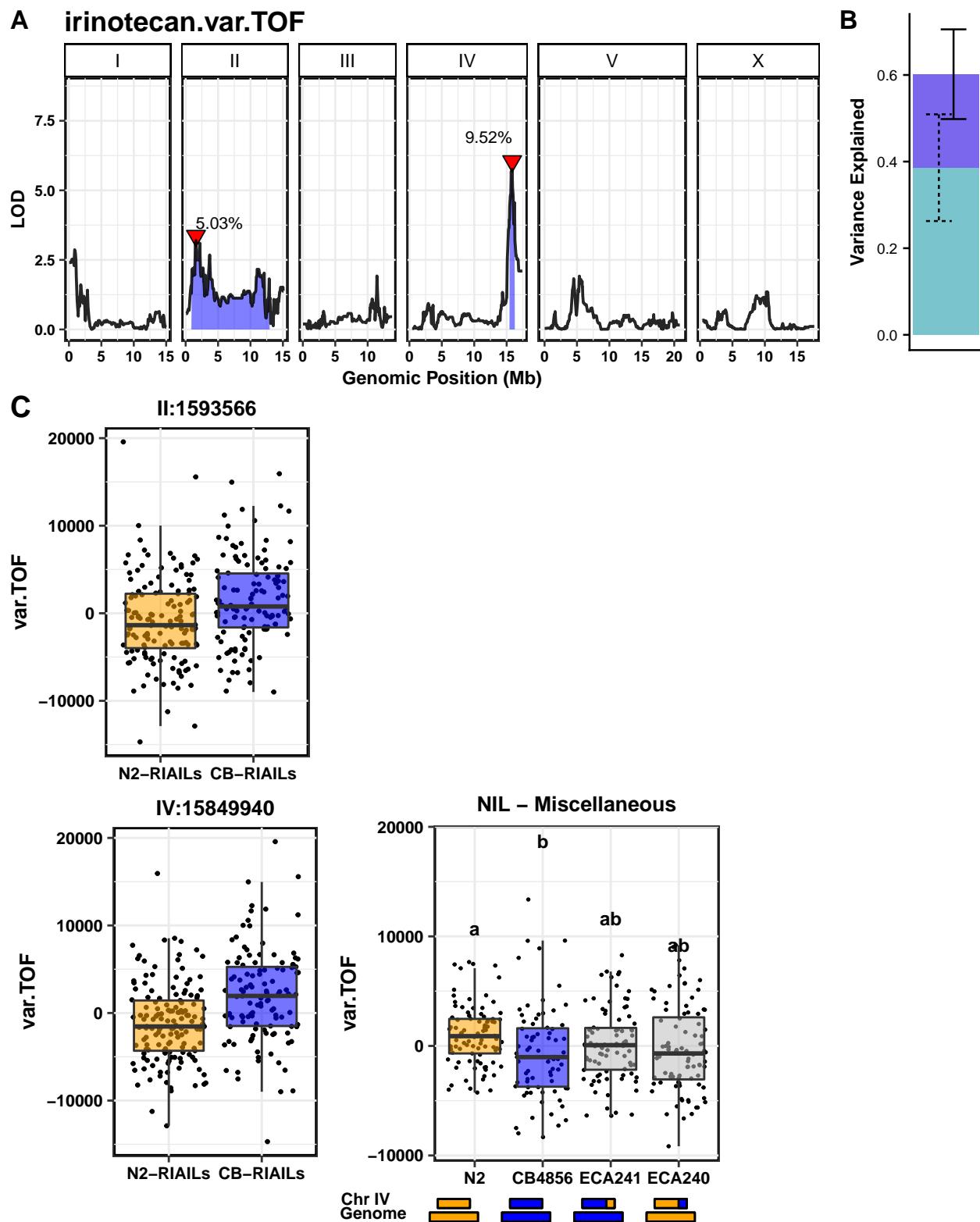


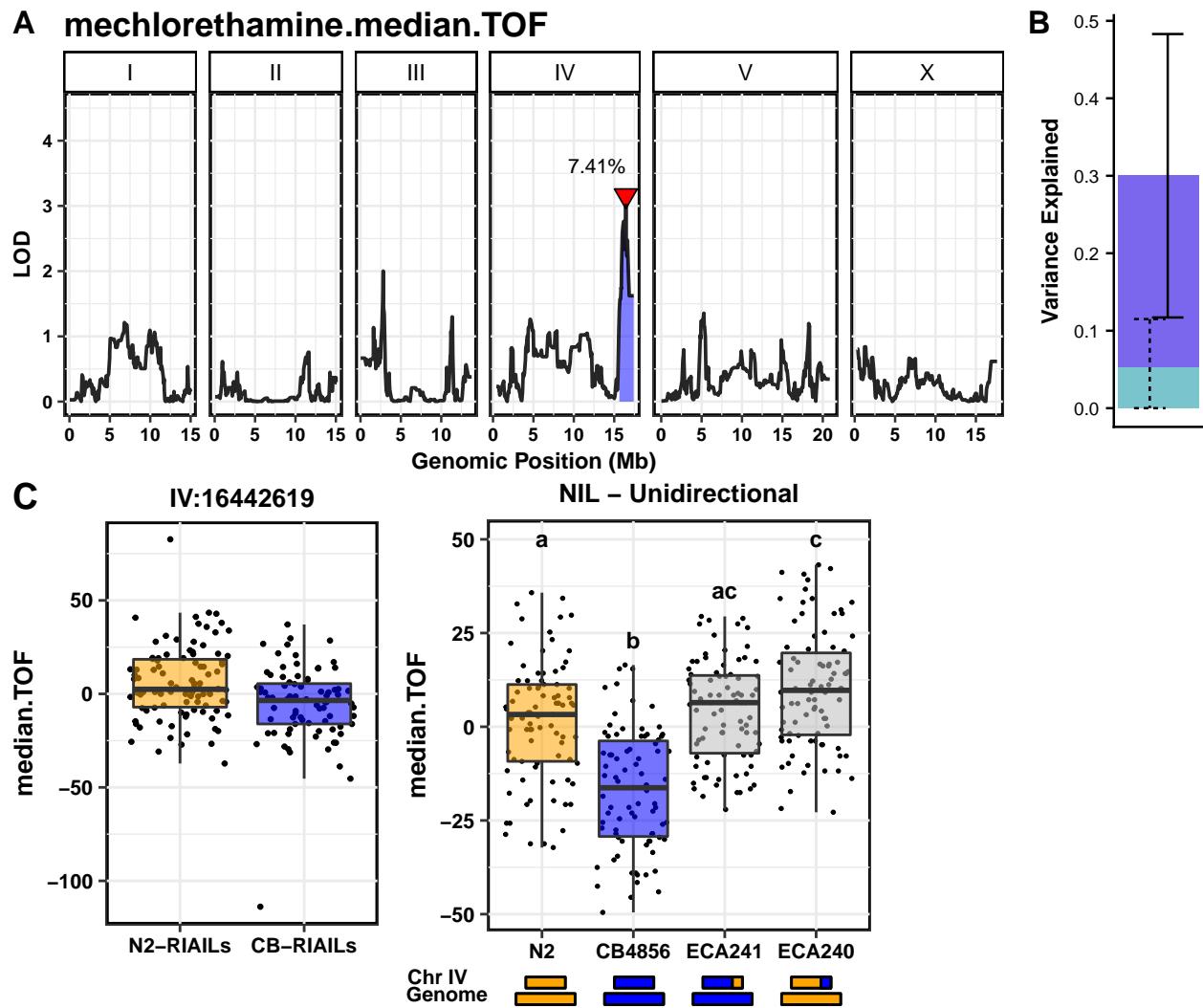
NIL – Recapitulation

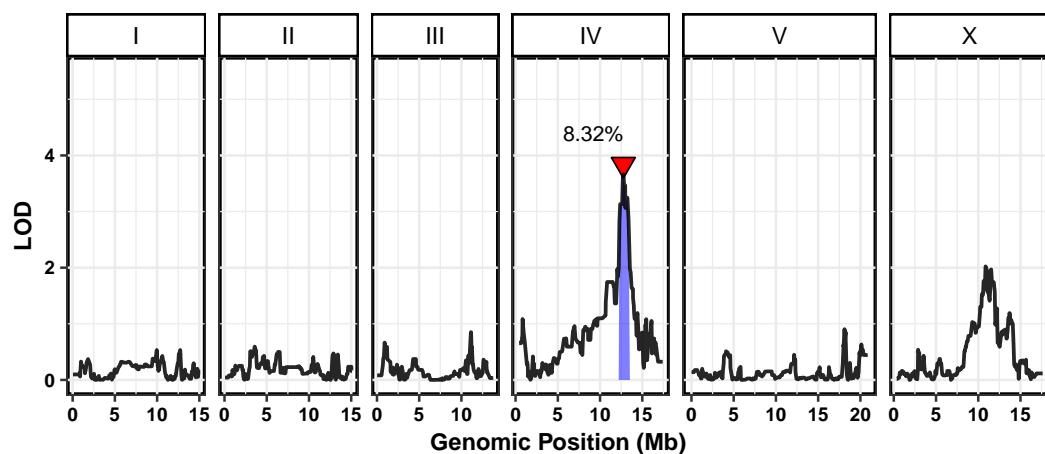
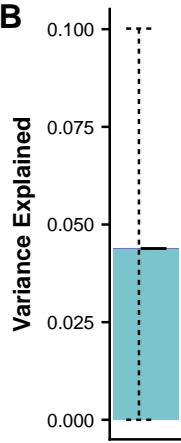
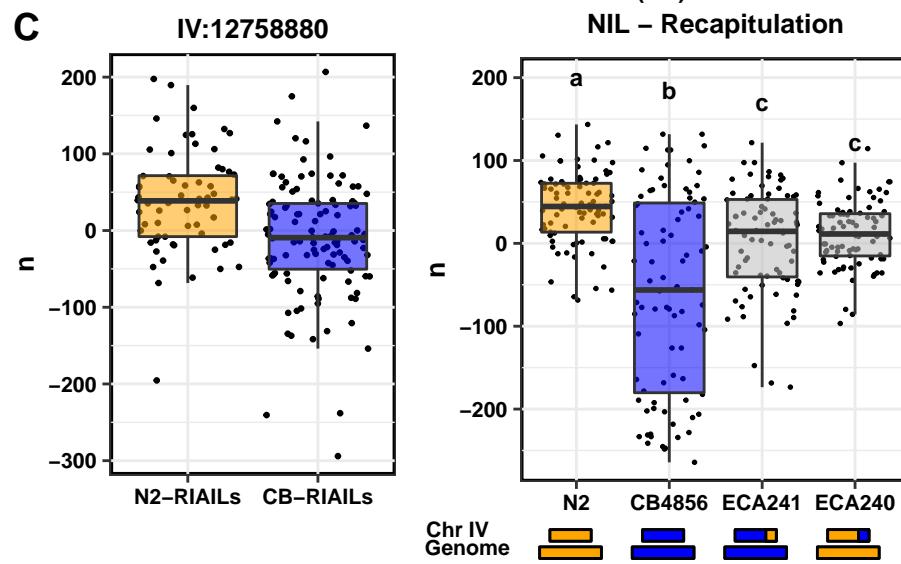


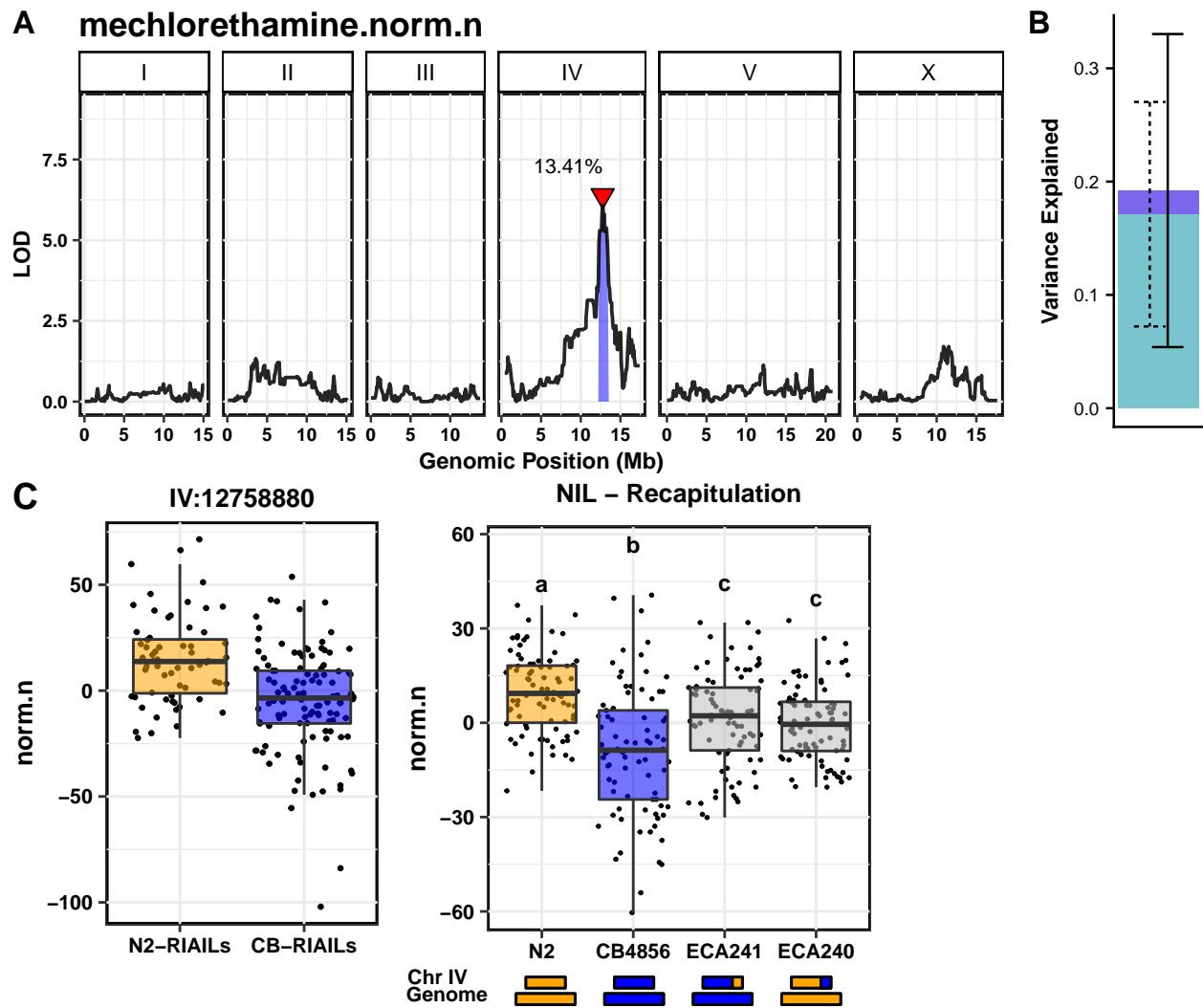
A irinotecan.var.EXT**B****C**



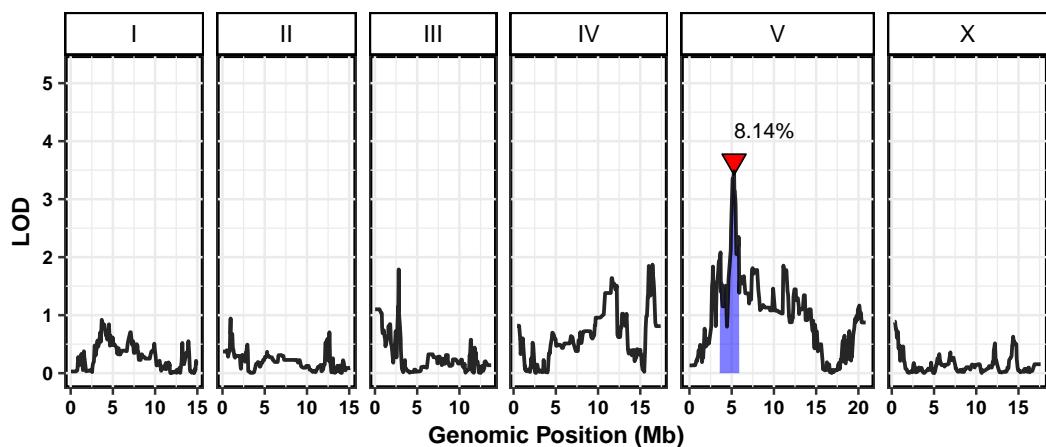




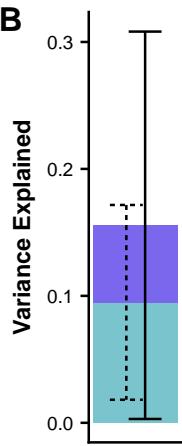
A mechlorethamine.n**B****C**



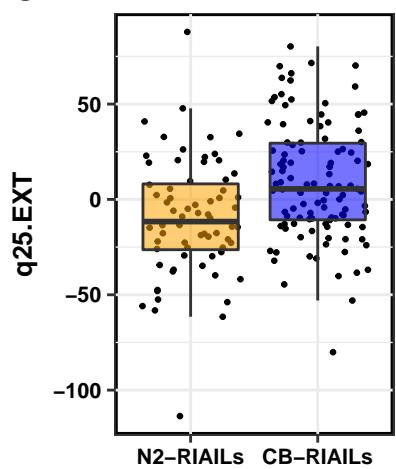
A mechlorethamine.q25.EXT



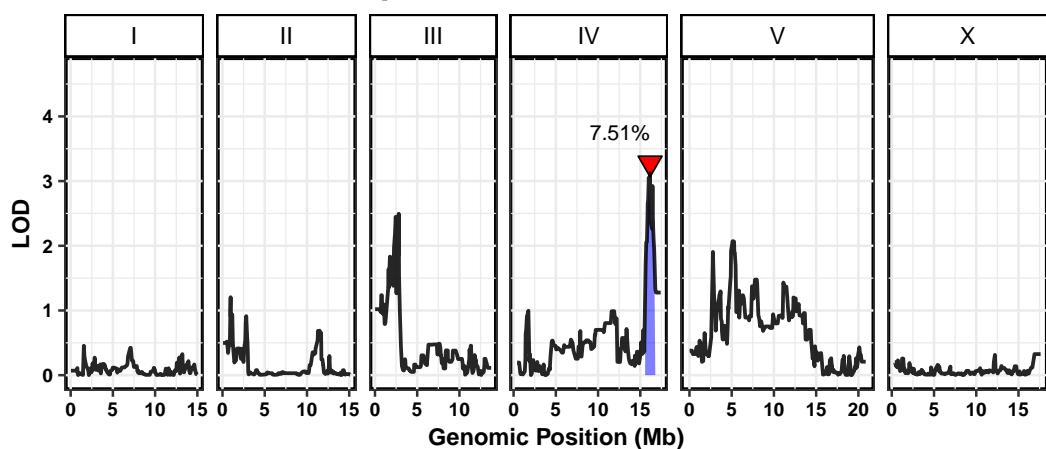
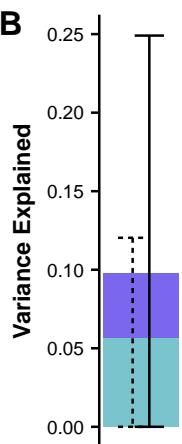
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C V:5281983

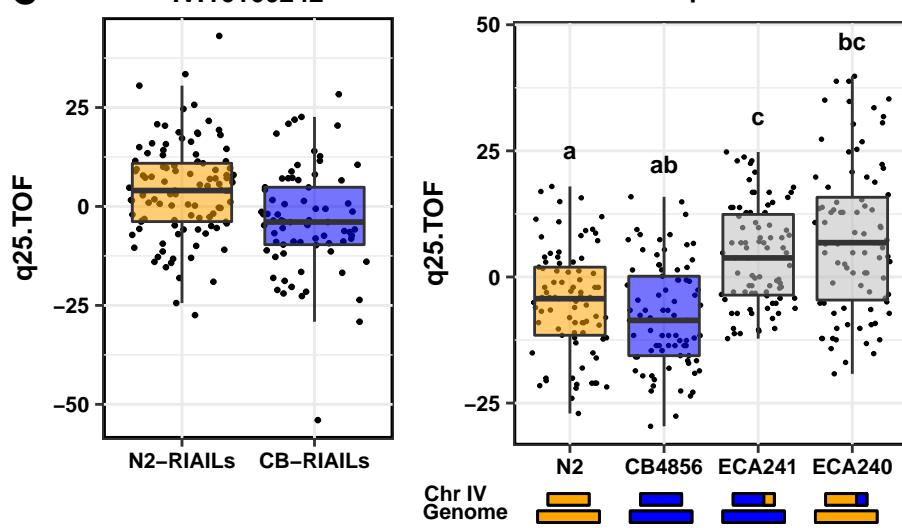


A mechlorethamine.q25.TOF

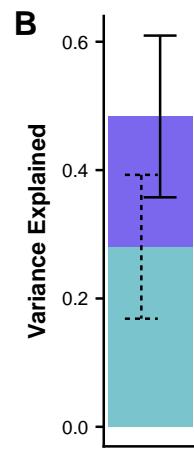
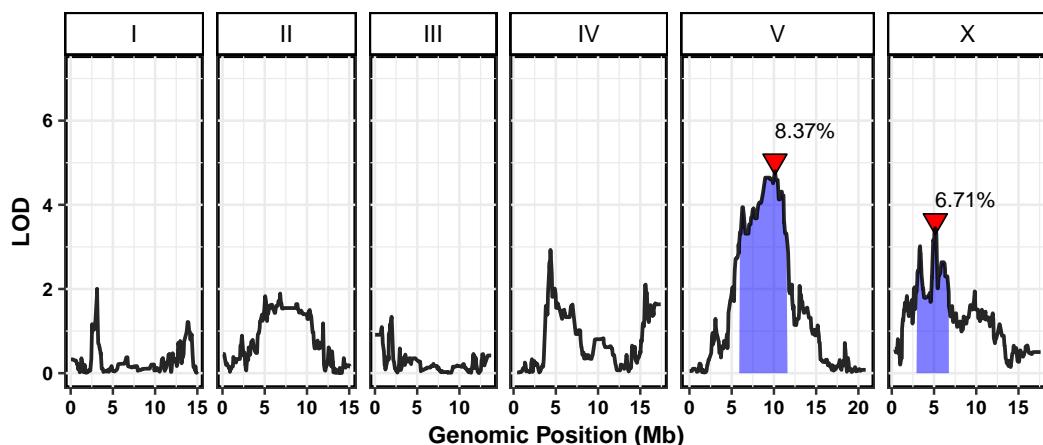
**B**

C IV:16160242

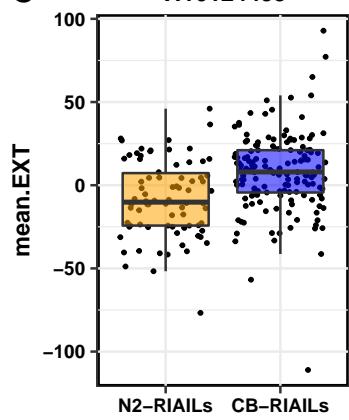
NIL – No parental diff.



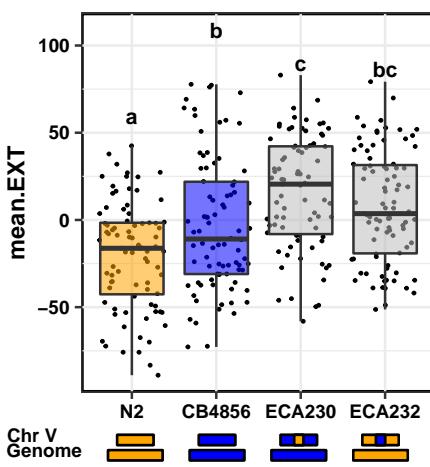
A paraquat.mean.EXT



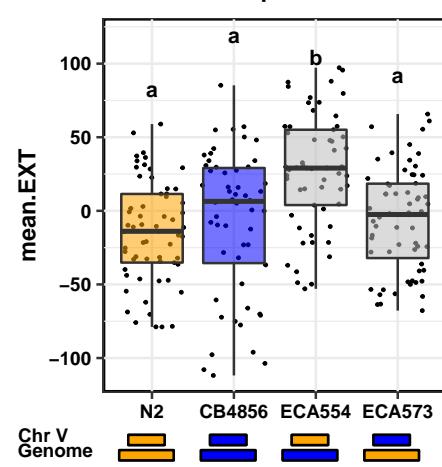
C V:10124453



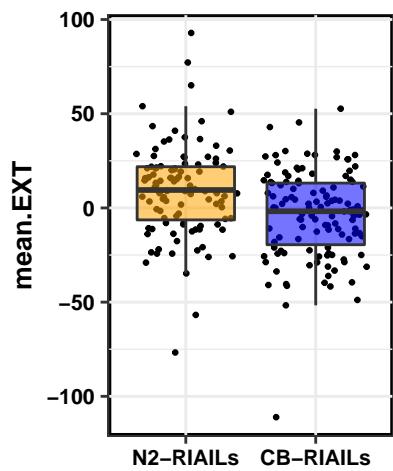
NIL – Unidirectional



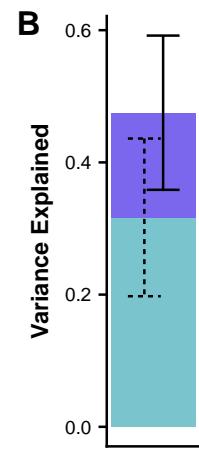
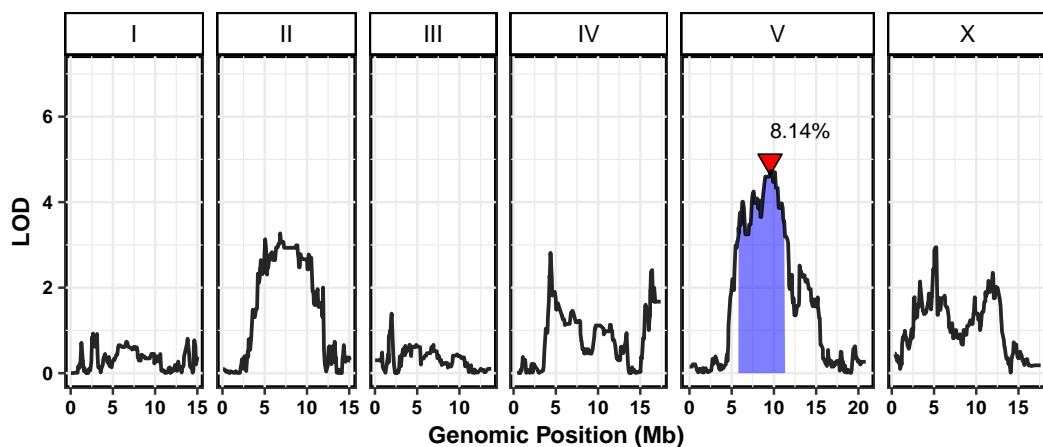
CSS – No parental diff.



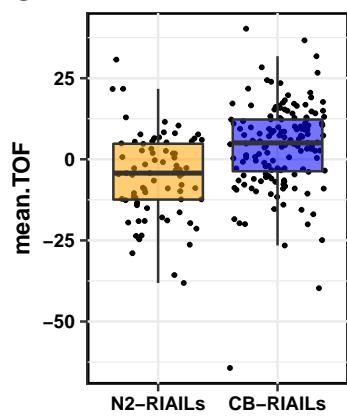
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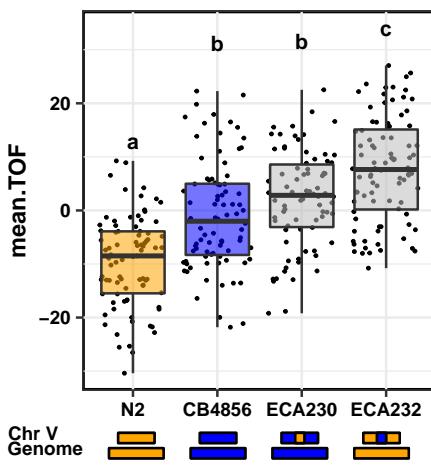
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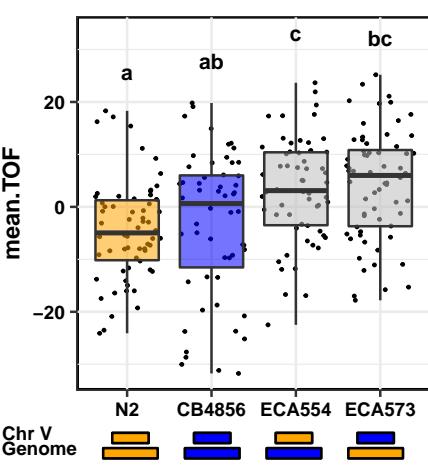
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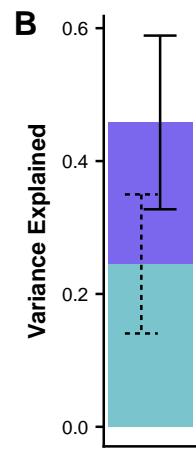
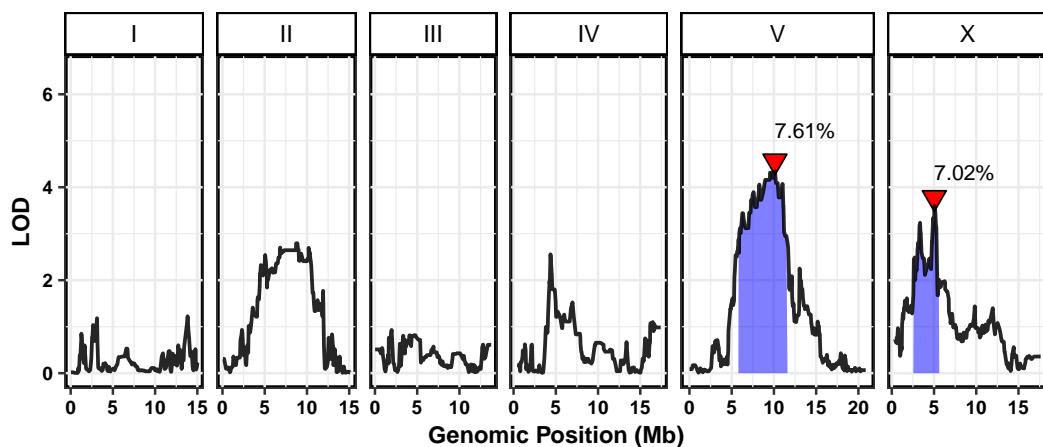
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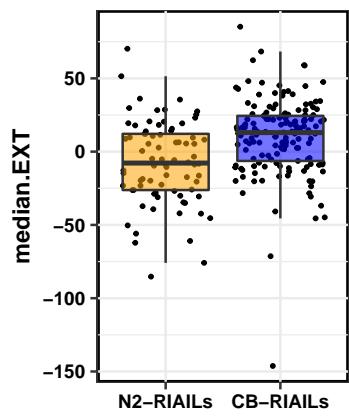
CSS – No parental diff.



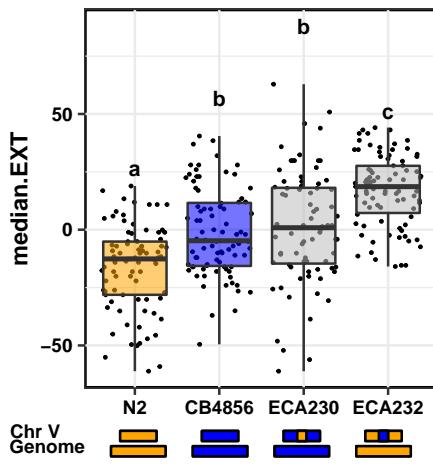
A paraquat.median.EXT



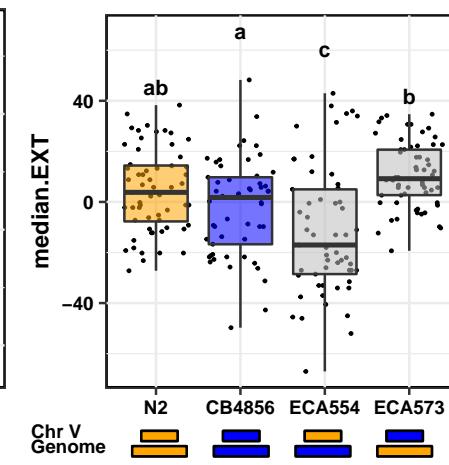
C V:10124453



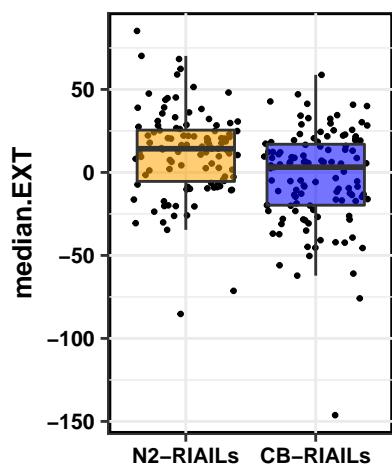
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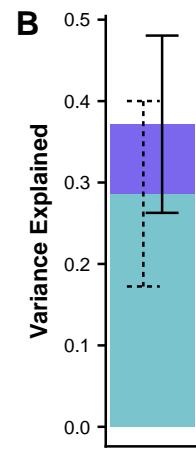
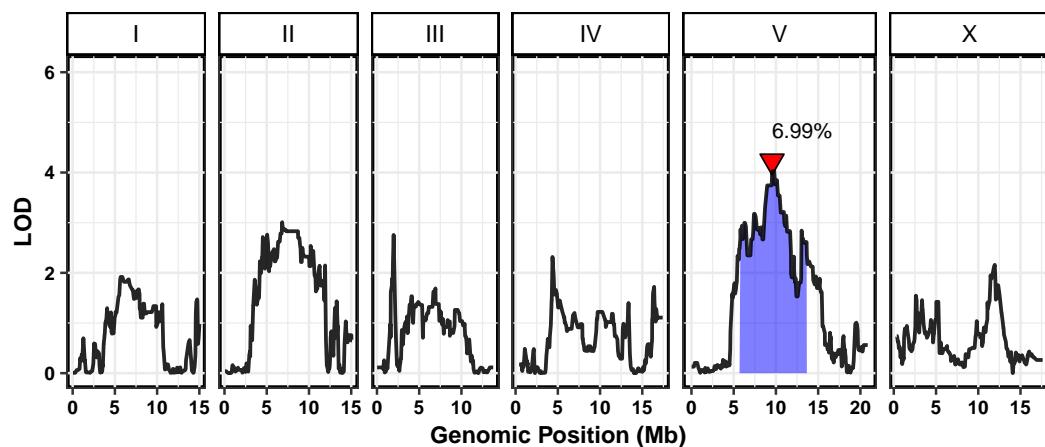
CSS – No parental diff.



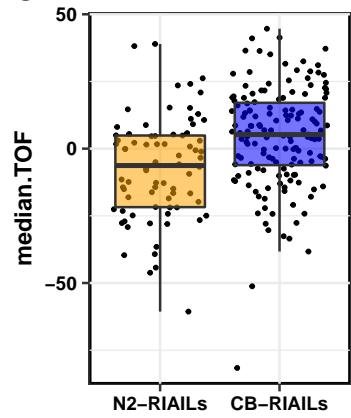
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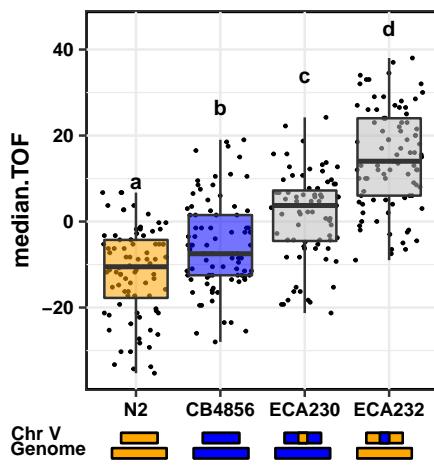
A paraquat.median.TOF



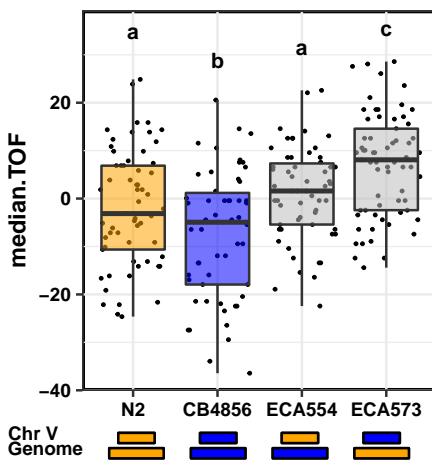
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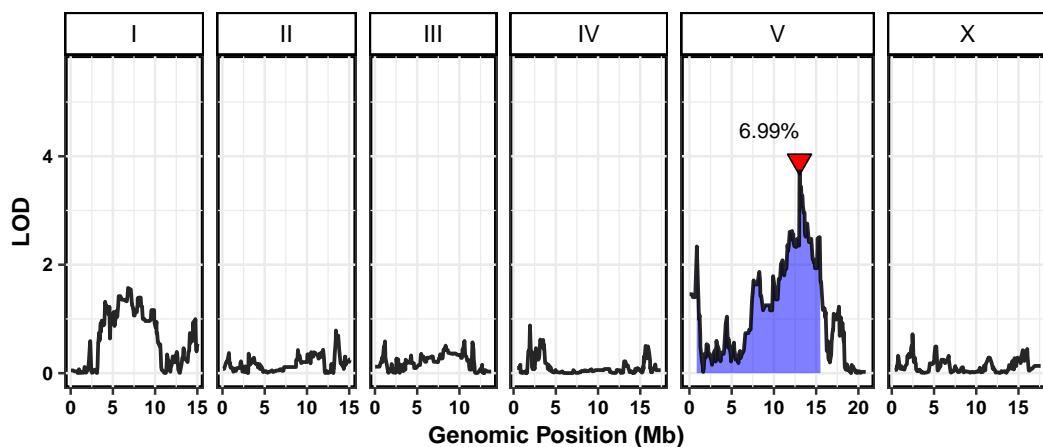
NIL – Bidirectional



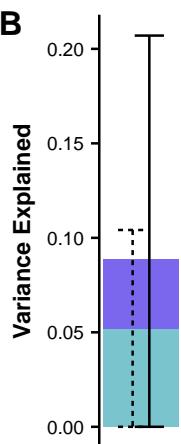
CSS – Unidirectional



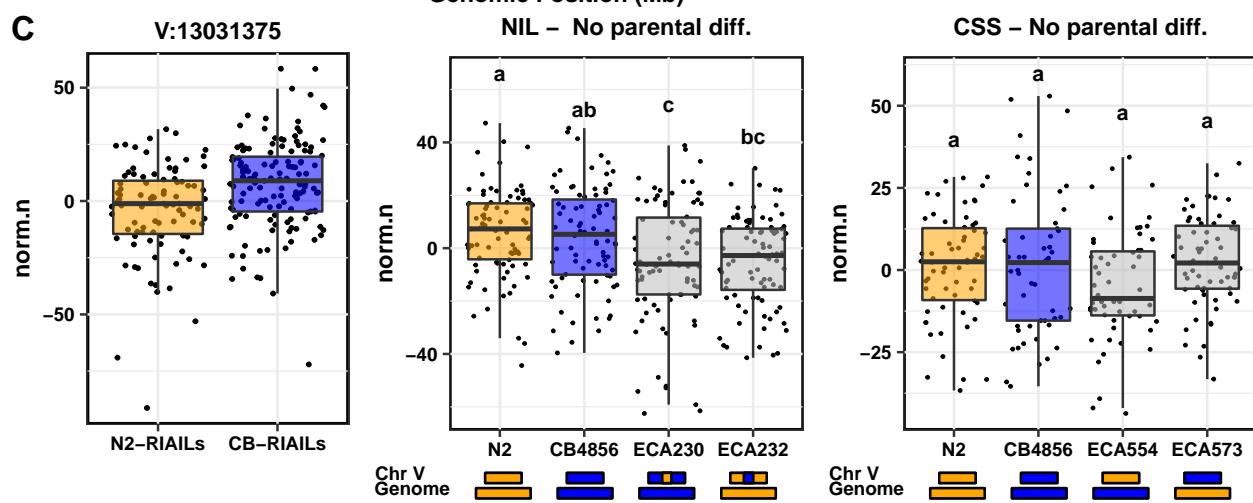
A paraquat.norm.n



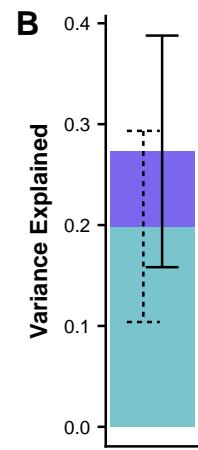
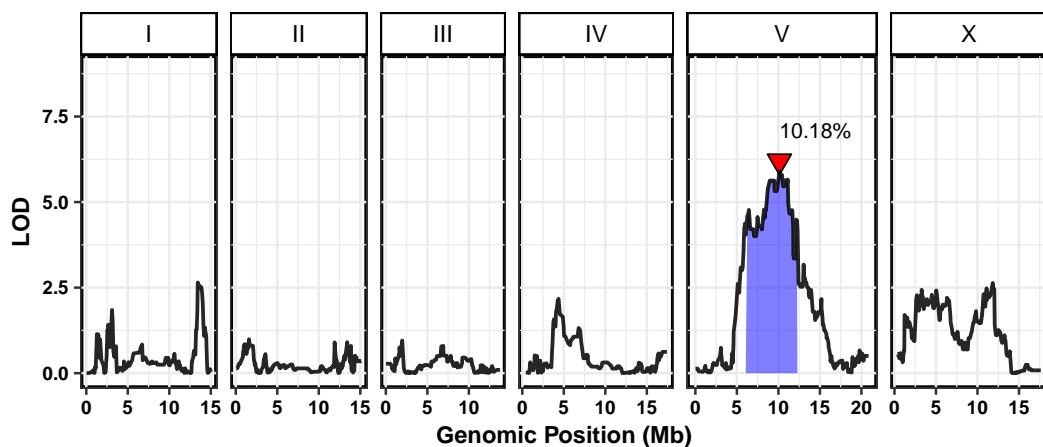
B



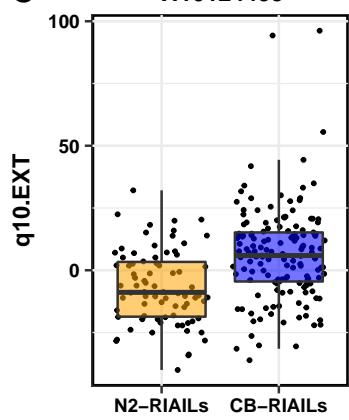
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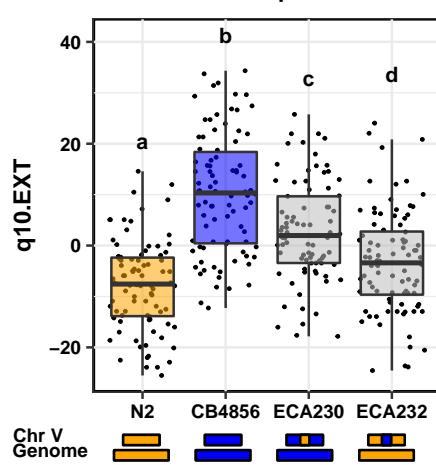
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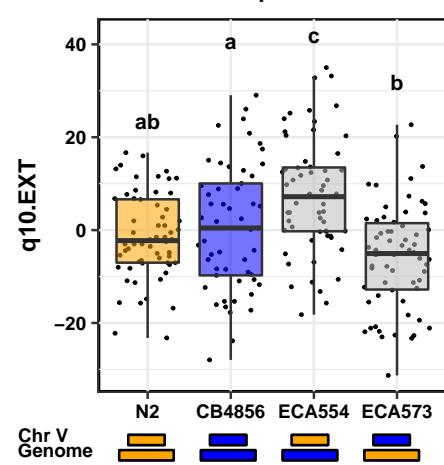
C V:10124453

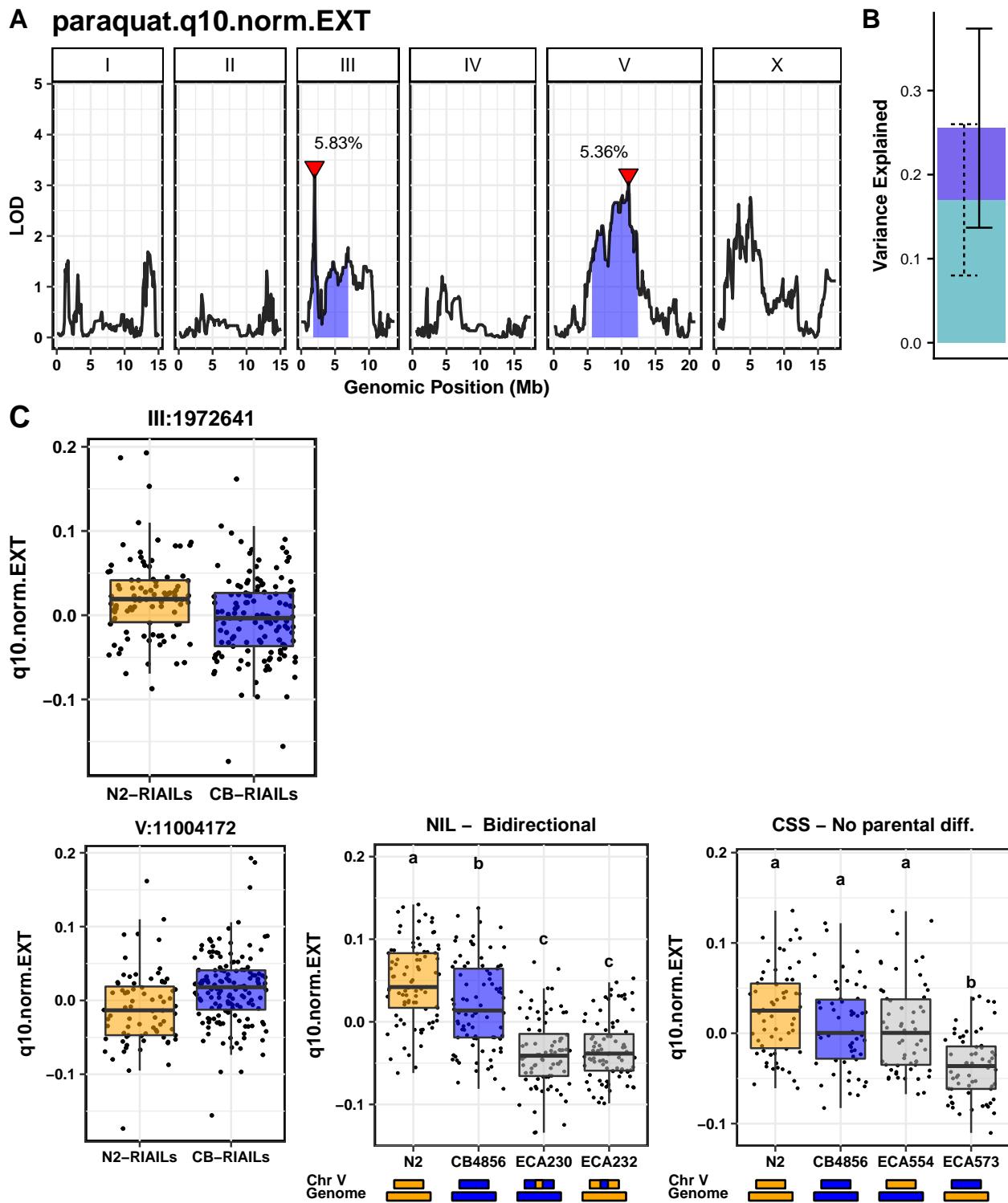


NIL – Recapitulation

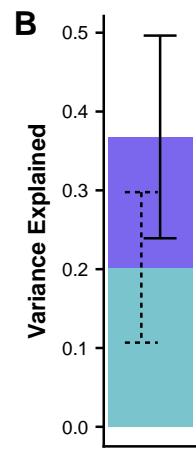
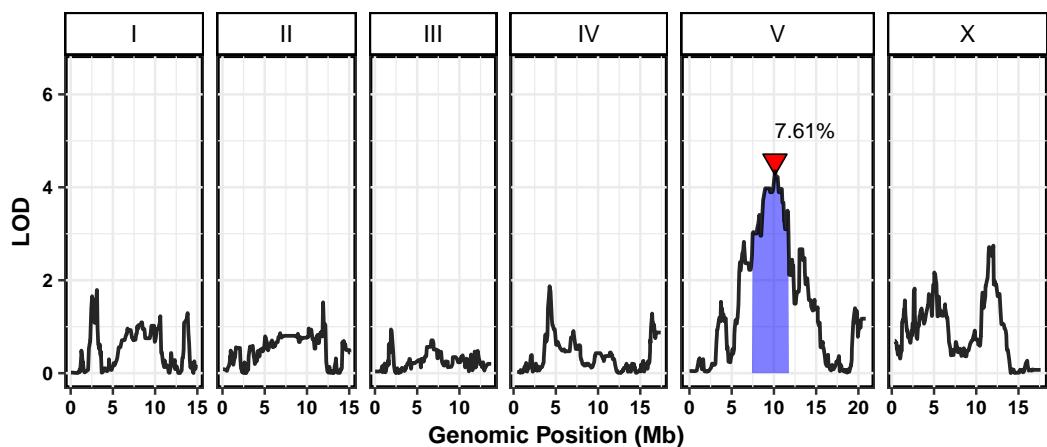


CSS – No parental diff.

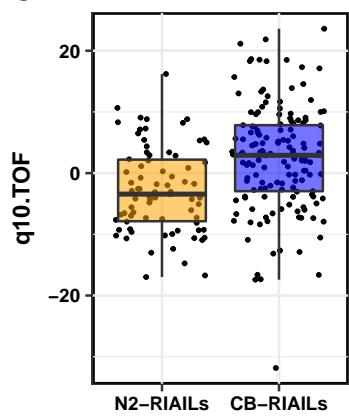




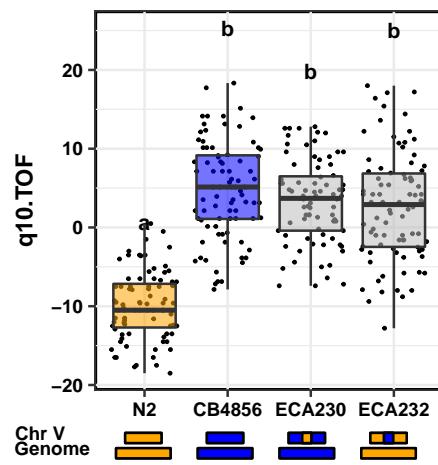
A paraquat.q10.TOF



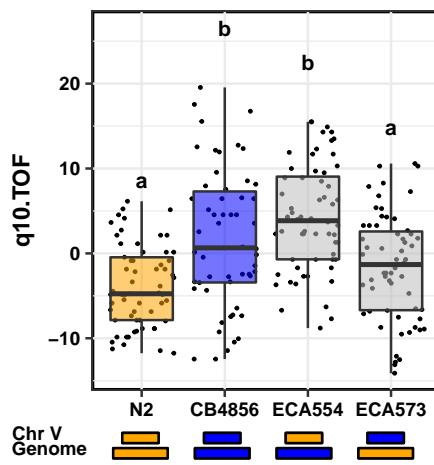
C V:10124453



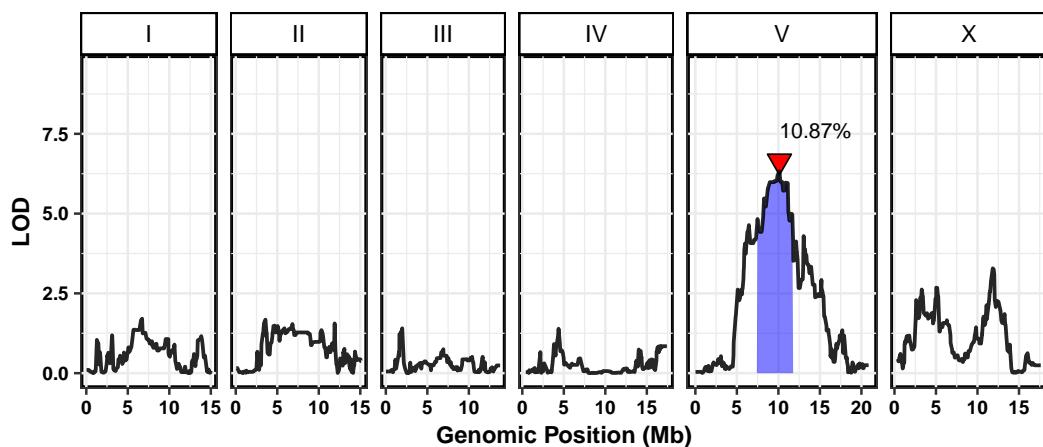
NIL – Miscellaneous



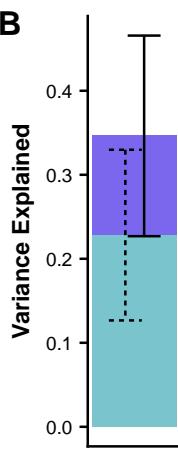
CSS – No effect



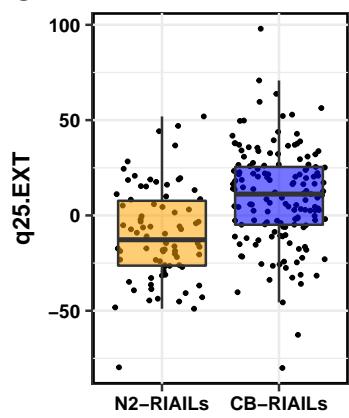
A paraquat.q25.EXT



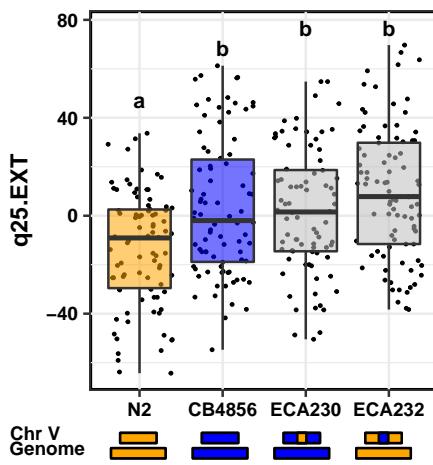
B



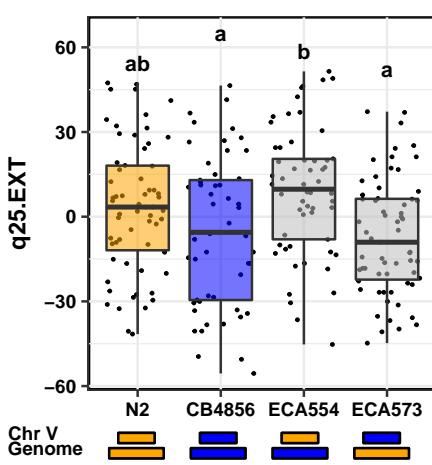
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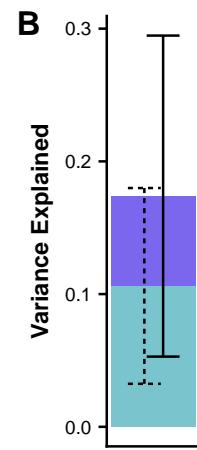
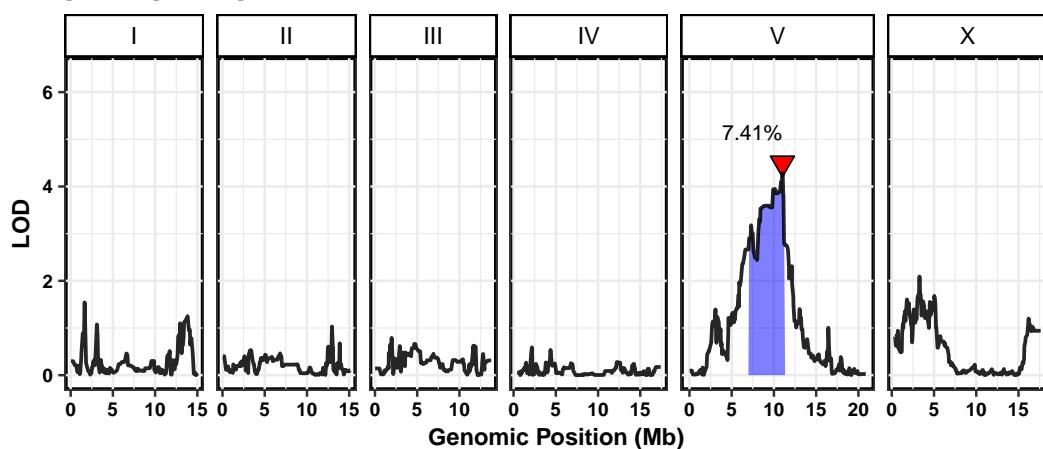
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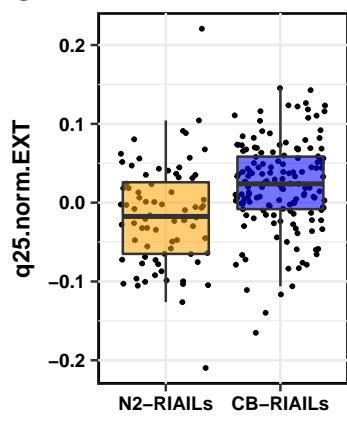
CSS – No parental diff.



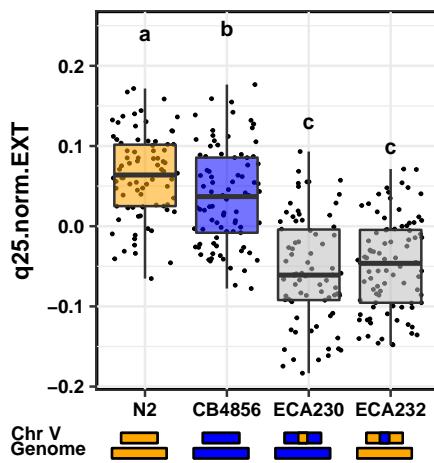
A paraquat.q25.norm.EXT



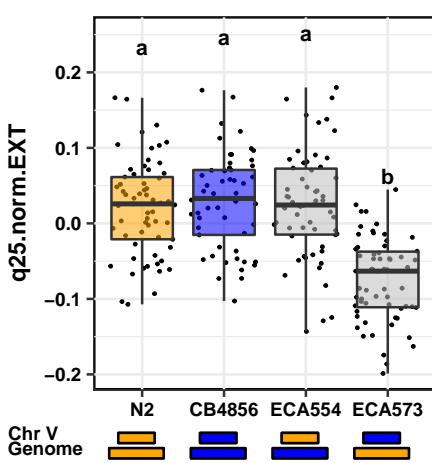
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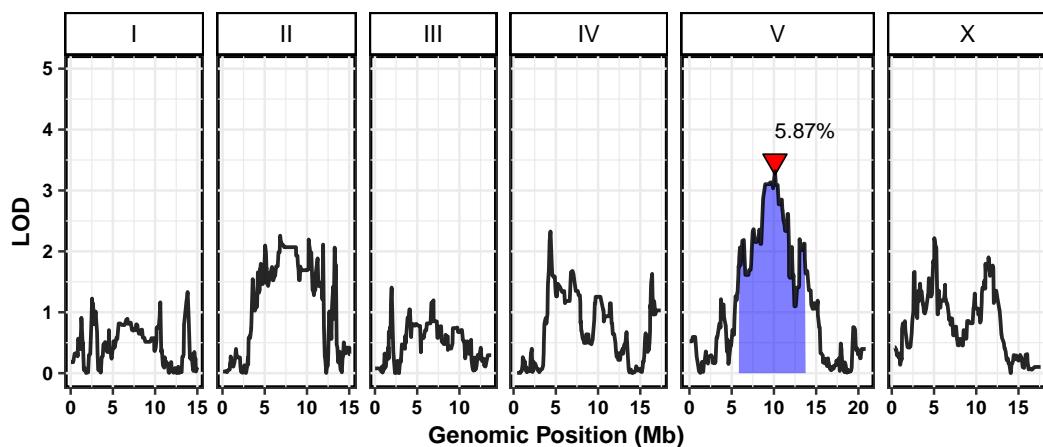
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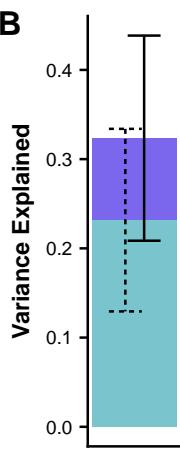
CSS – No parental diff.



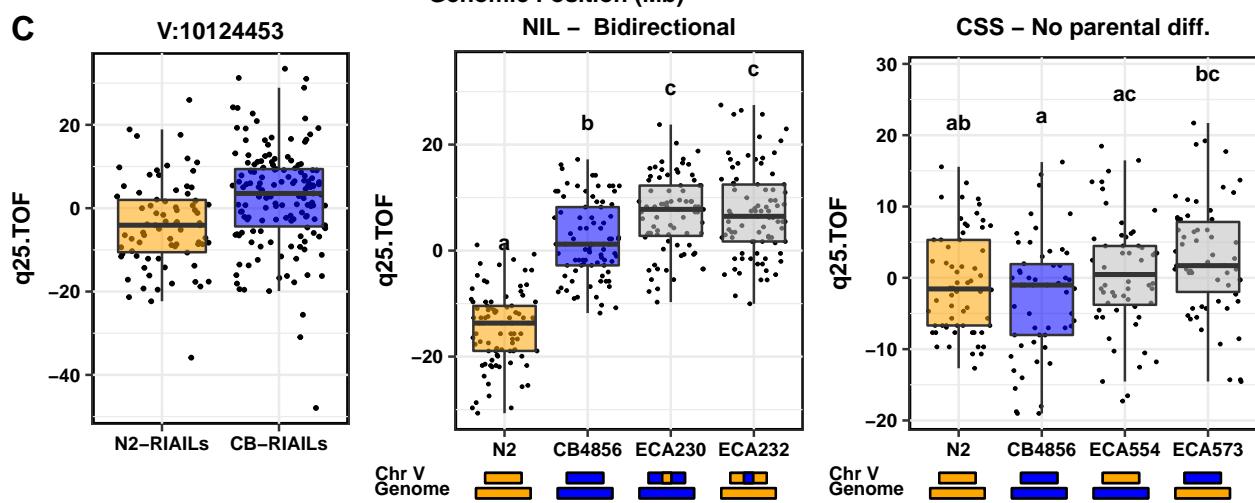
A paraquat.q25.TOF



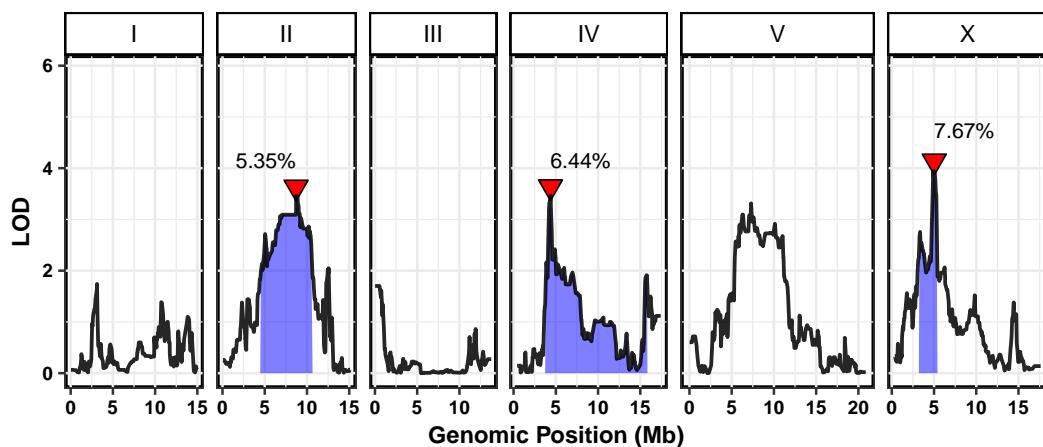
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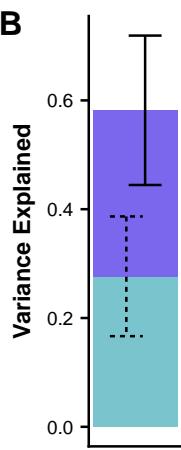
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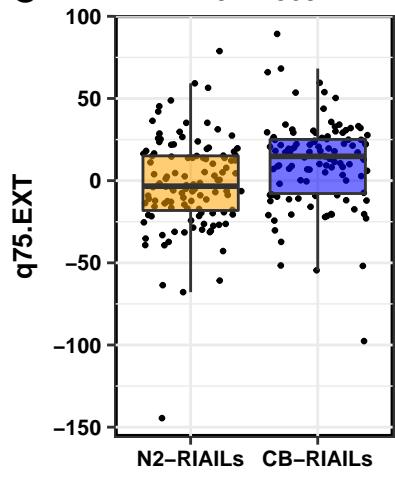
A paraquat.q75.EXT



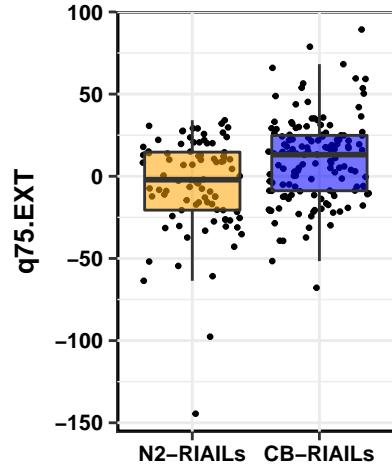
B

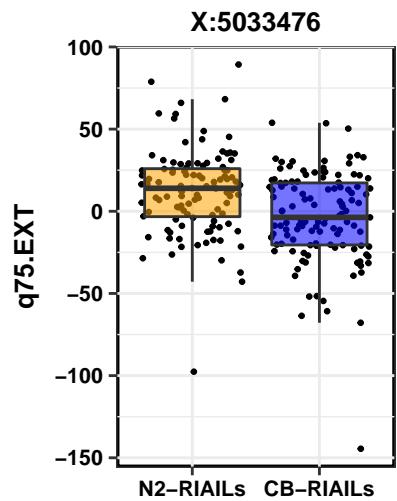


C II:8712868

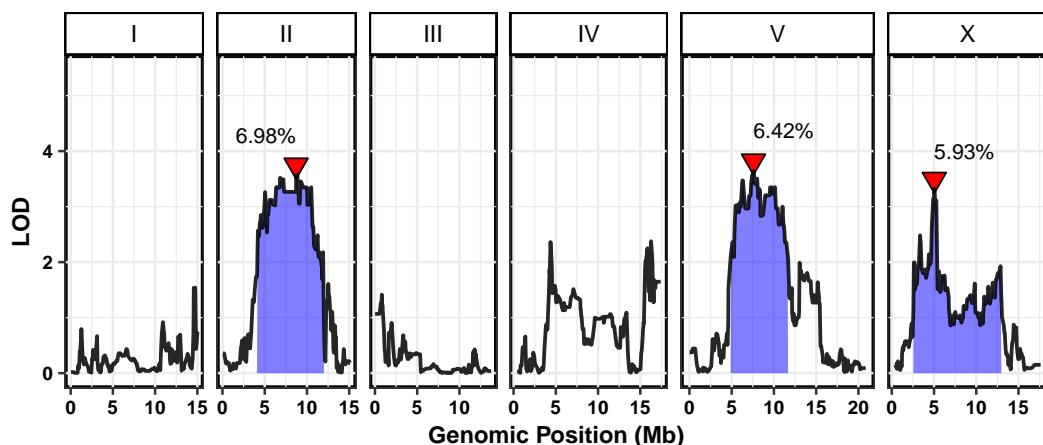
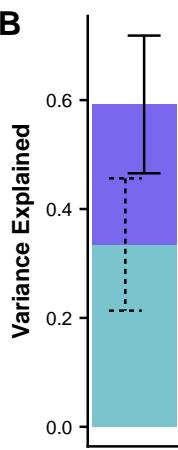


IV:4369098

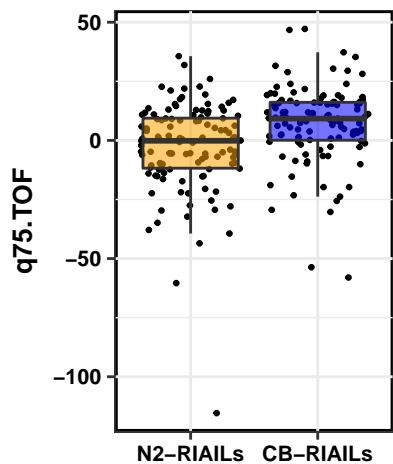




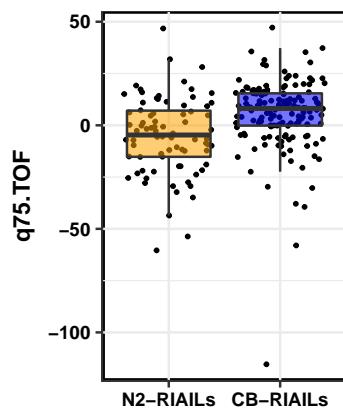
A paraquat.q75.TOF


B


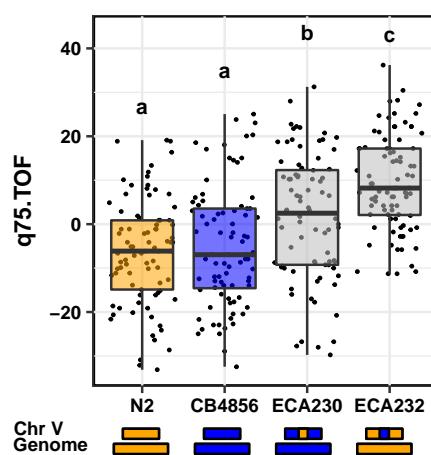
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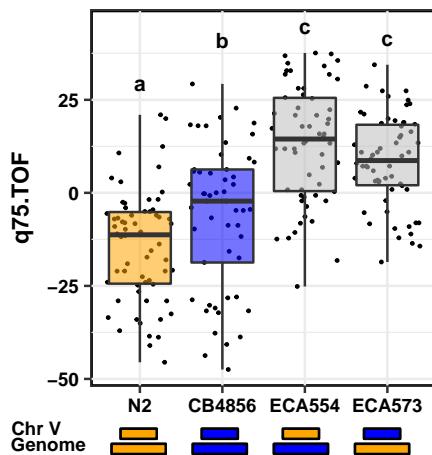
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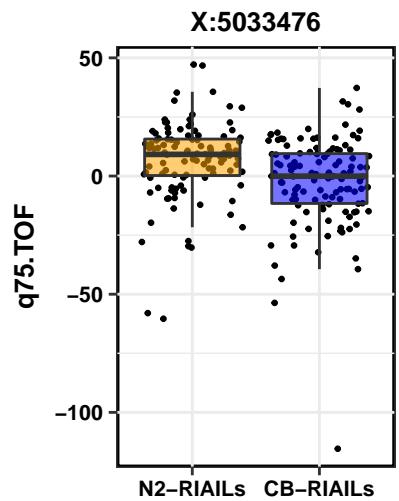


NIL – No parental diff.

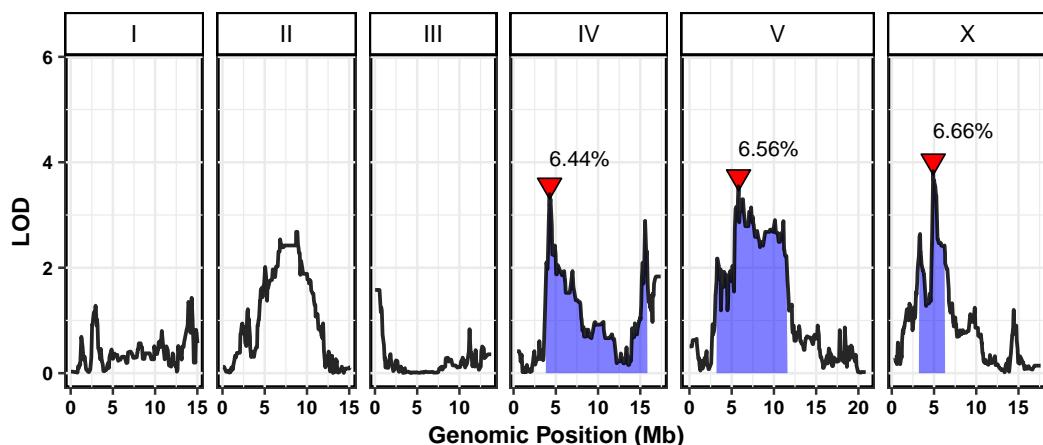


CSS – Bidirectional

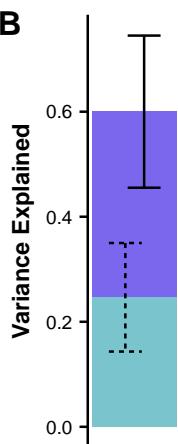




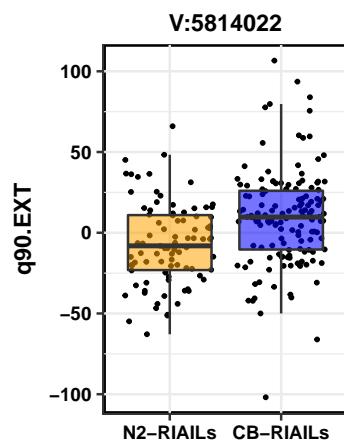
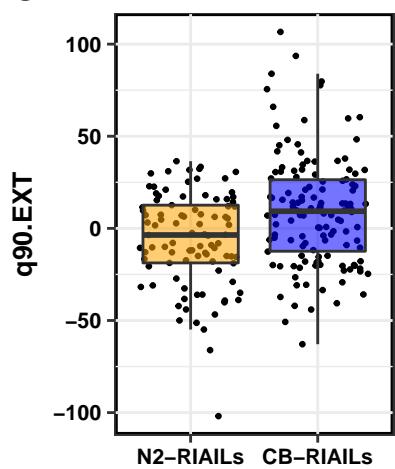
A paraquat.q90.EXT



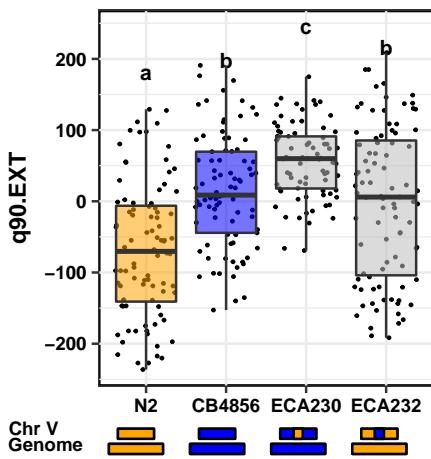
B



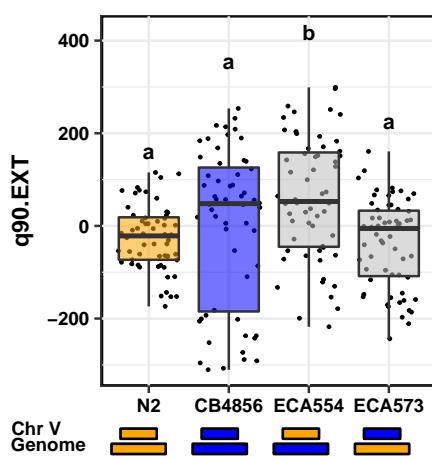
C IV:4265791

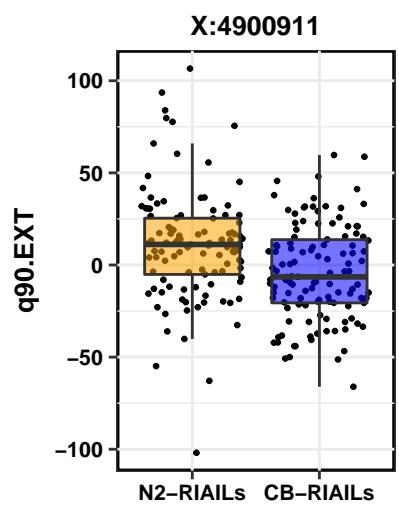


NIL – Unidirectional

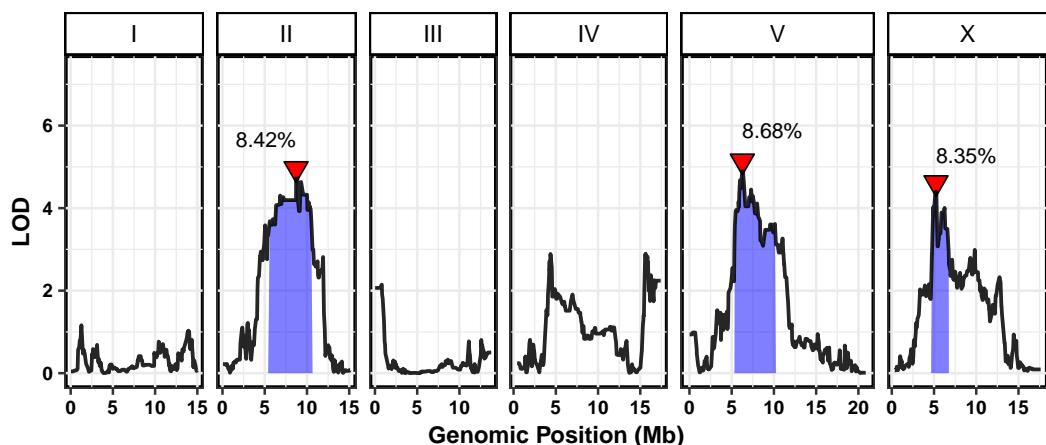


CSS – No parental diff.

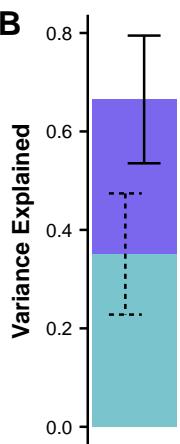




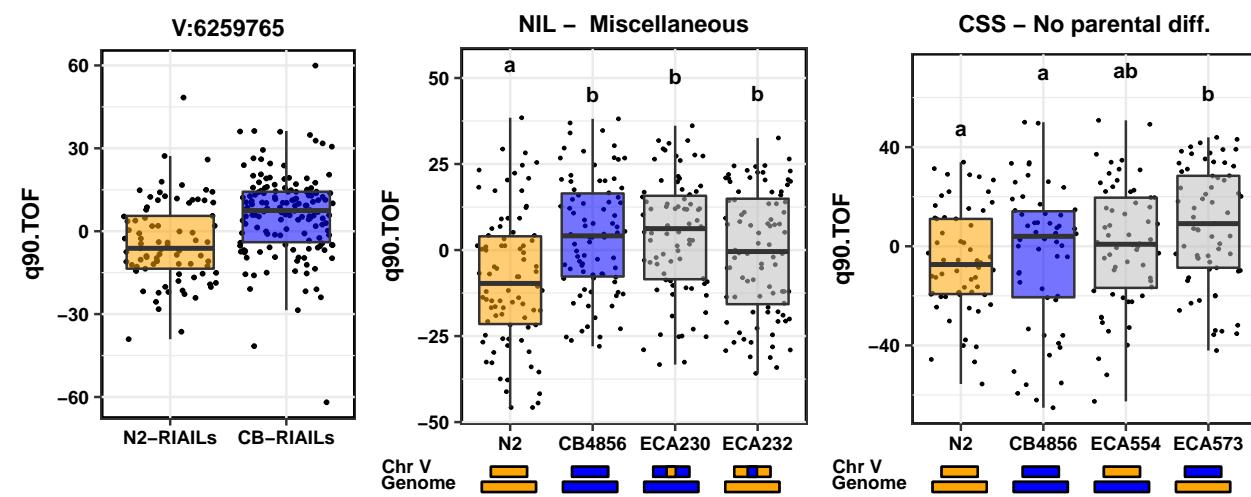
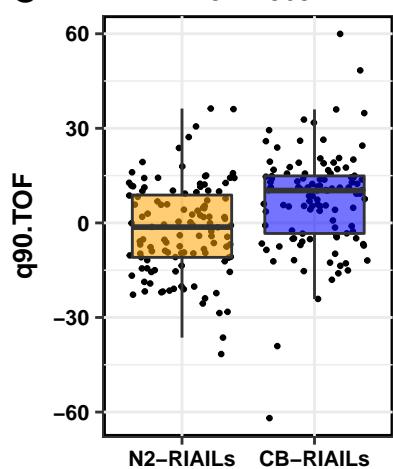
A paraquat.q90.TOF

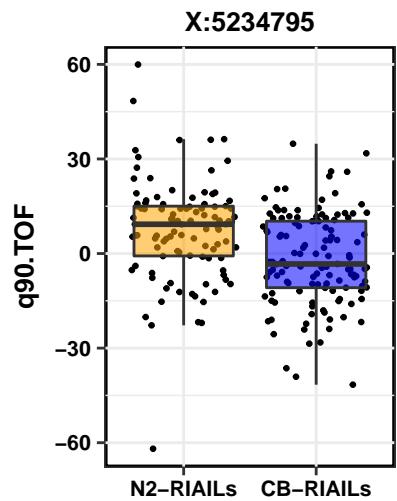


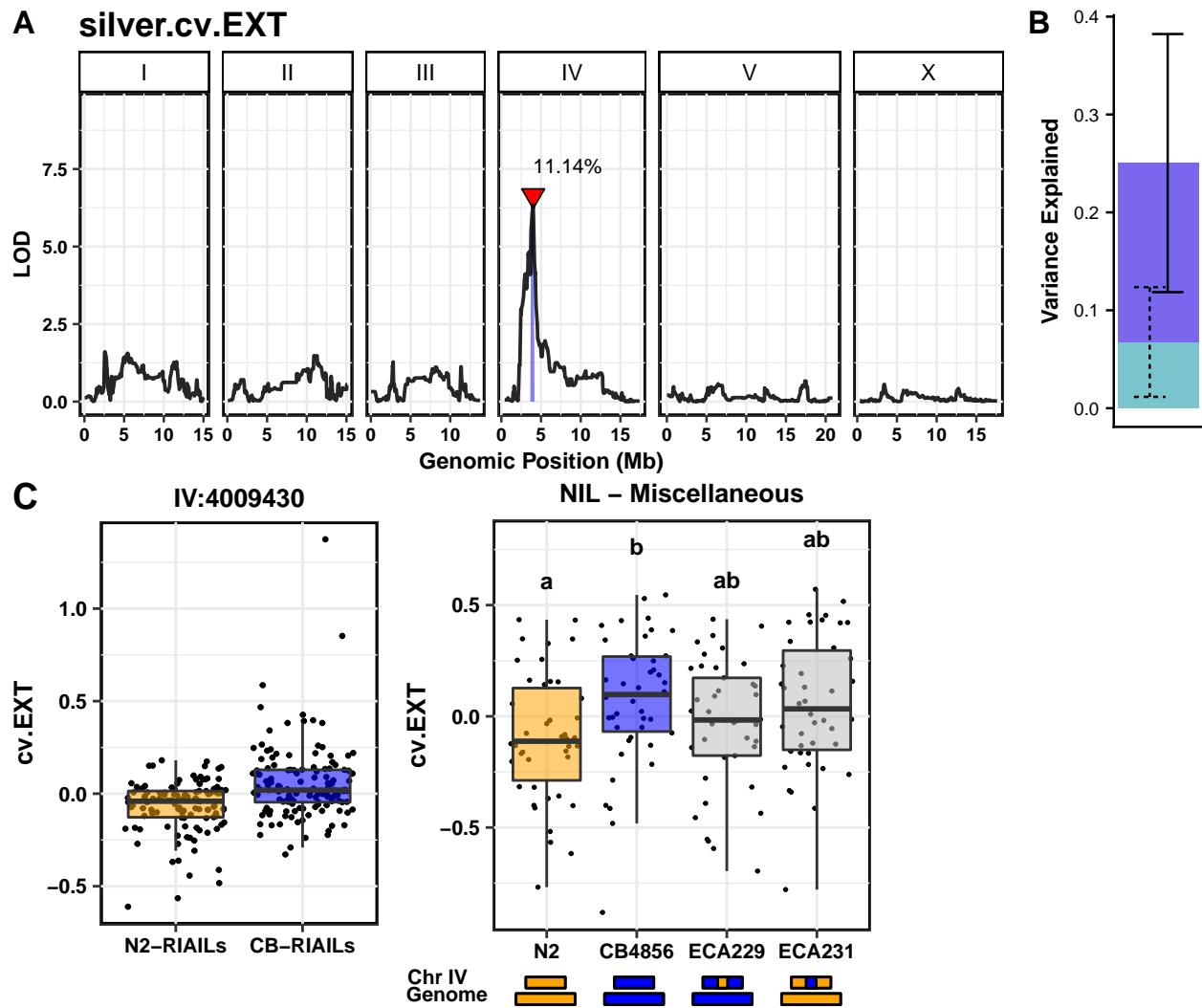
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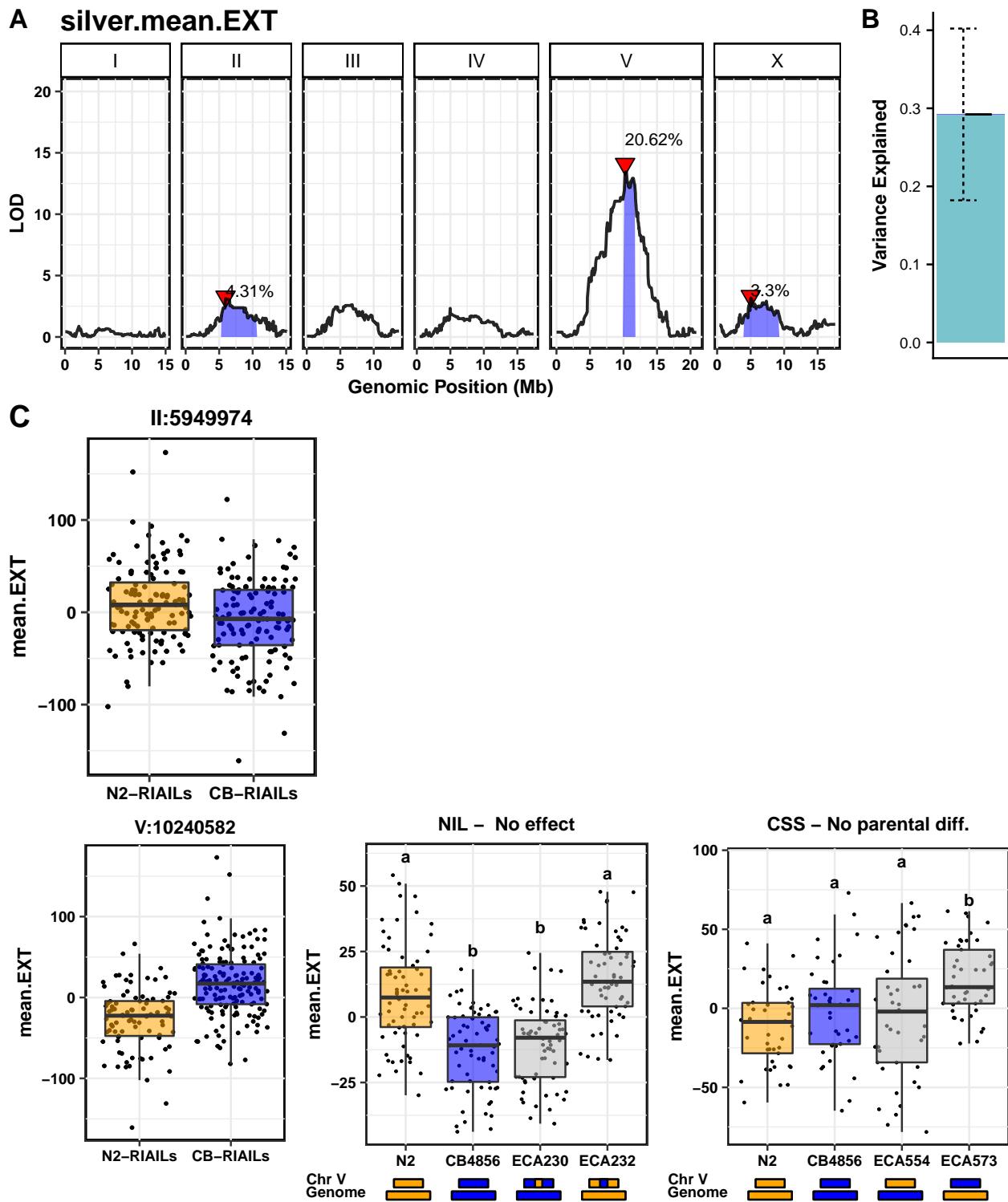


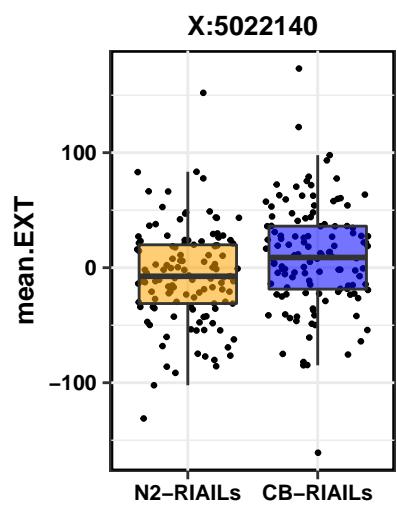
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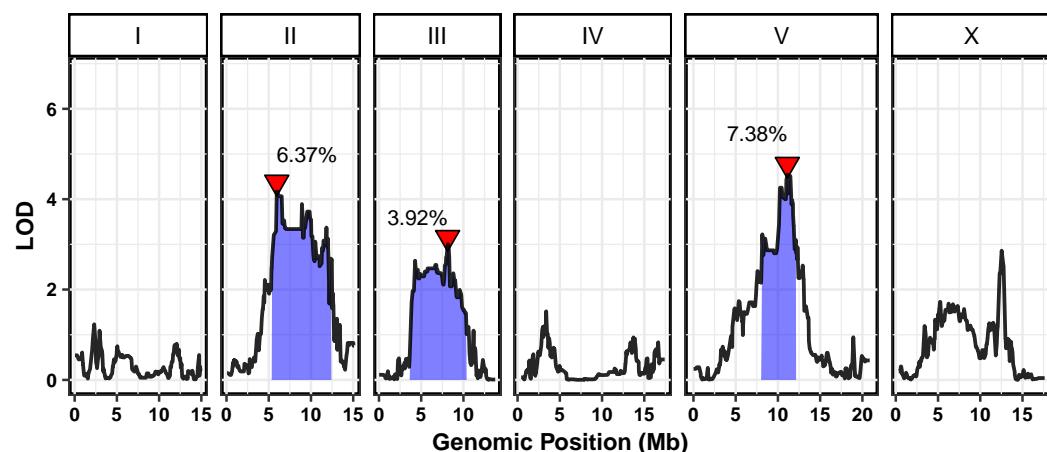
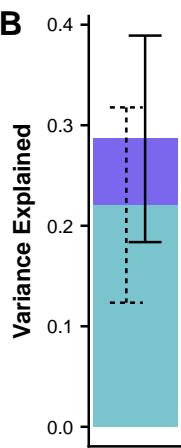
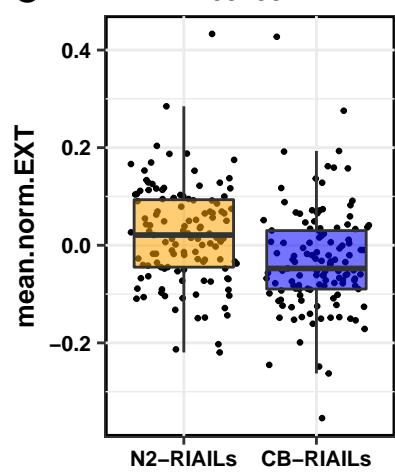




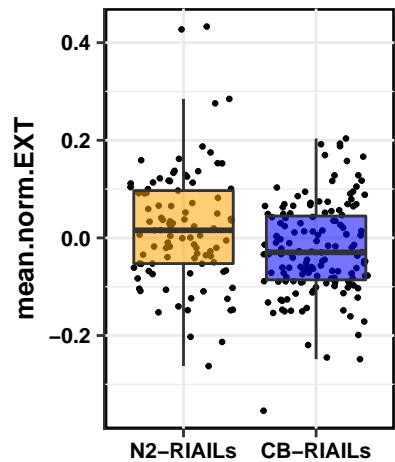


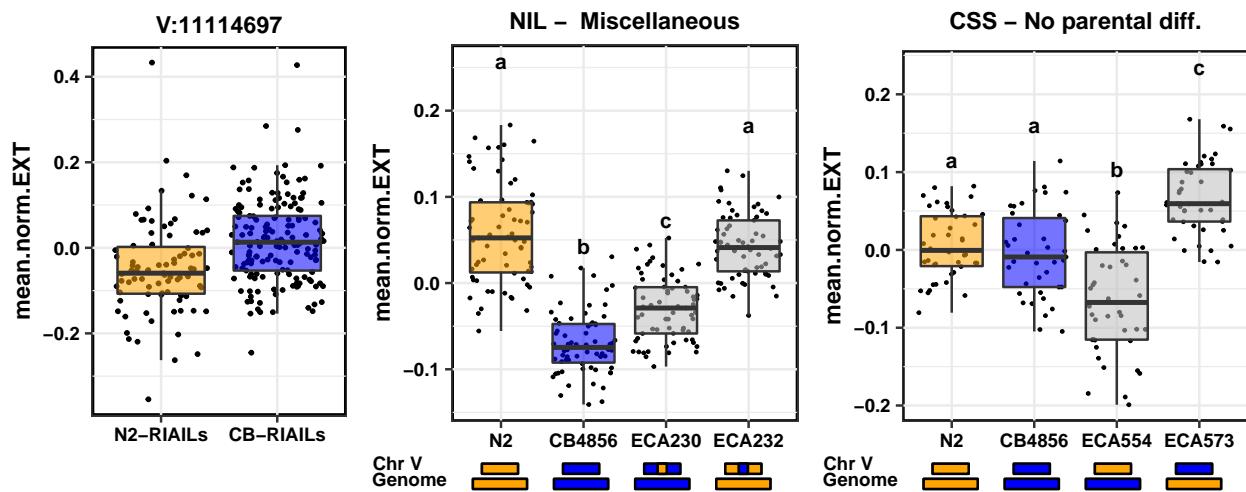


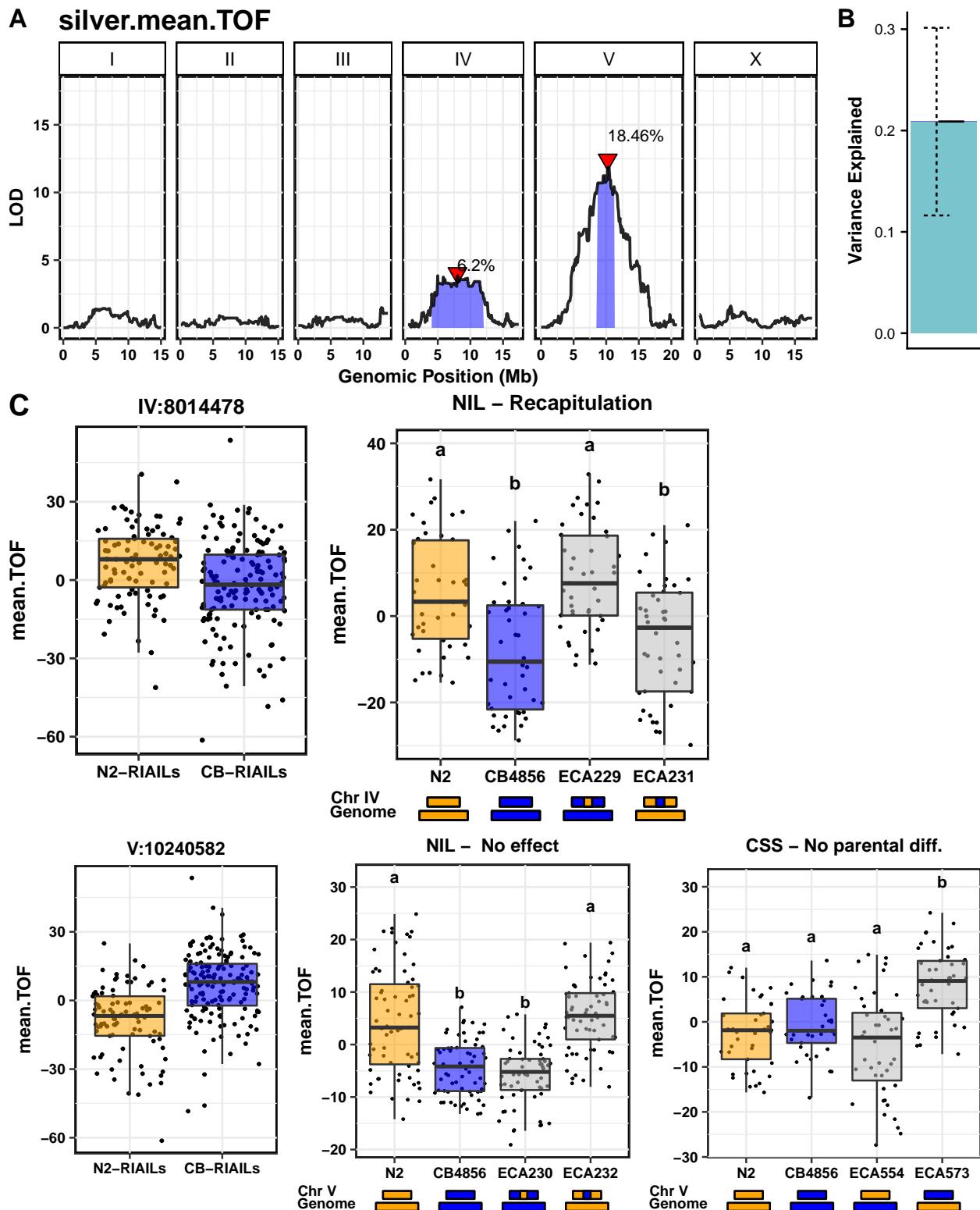


A silver.mean.norm.EXT**B****C** II:5949974

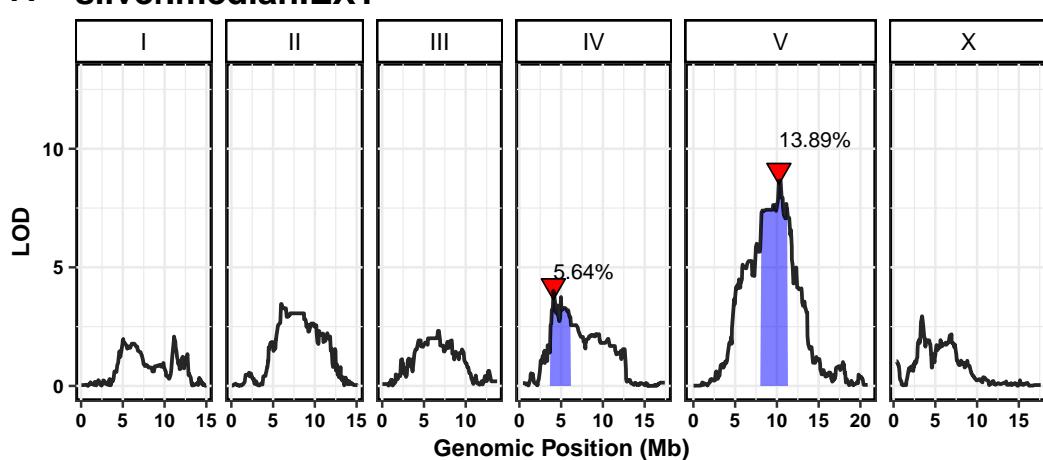
III:8126357



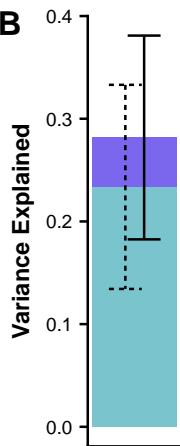




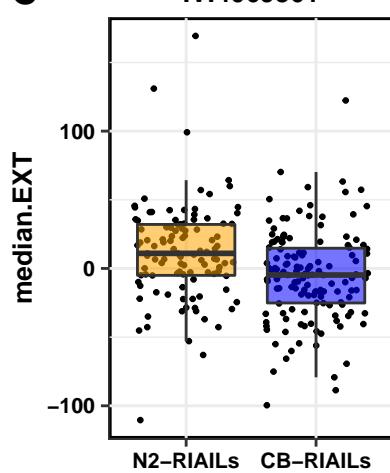
A silver.median.EXT



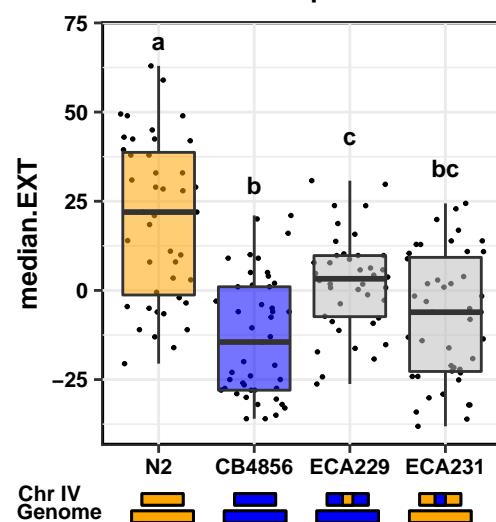
B



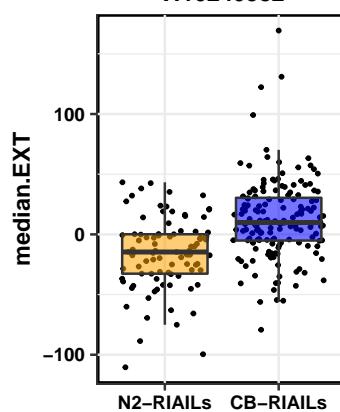
C IV:4069361



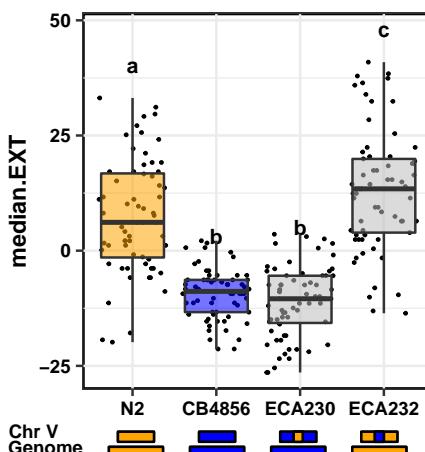
NIL – Recapitulation



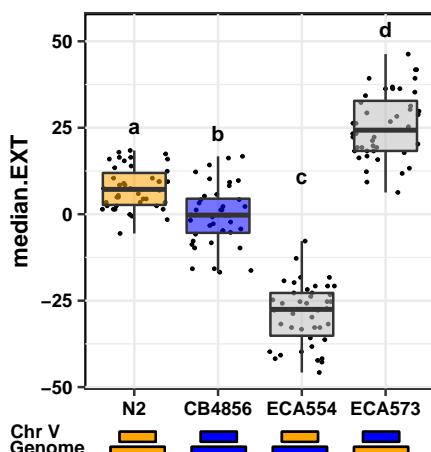
V:10240582

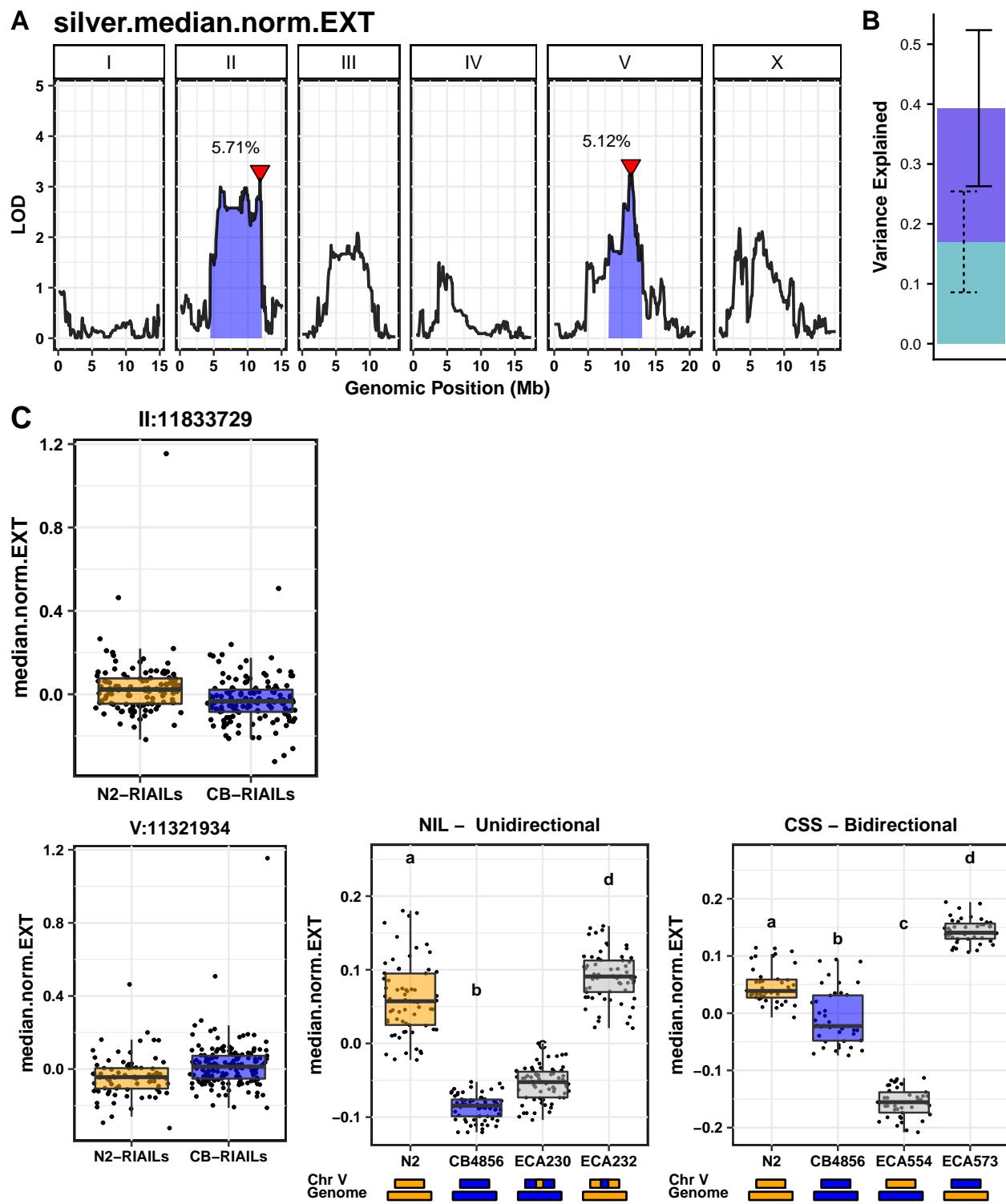


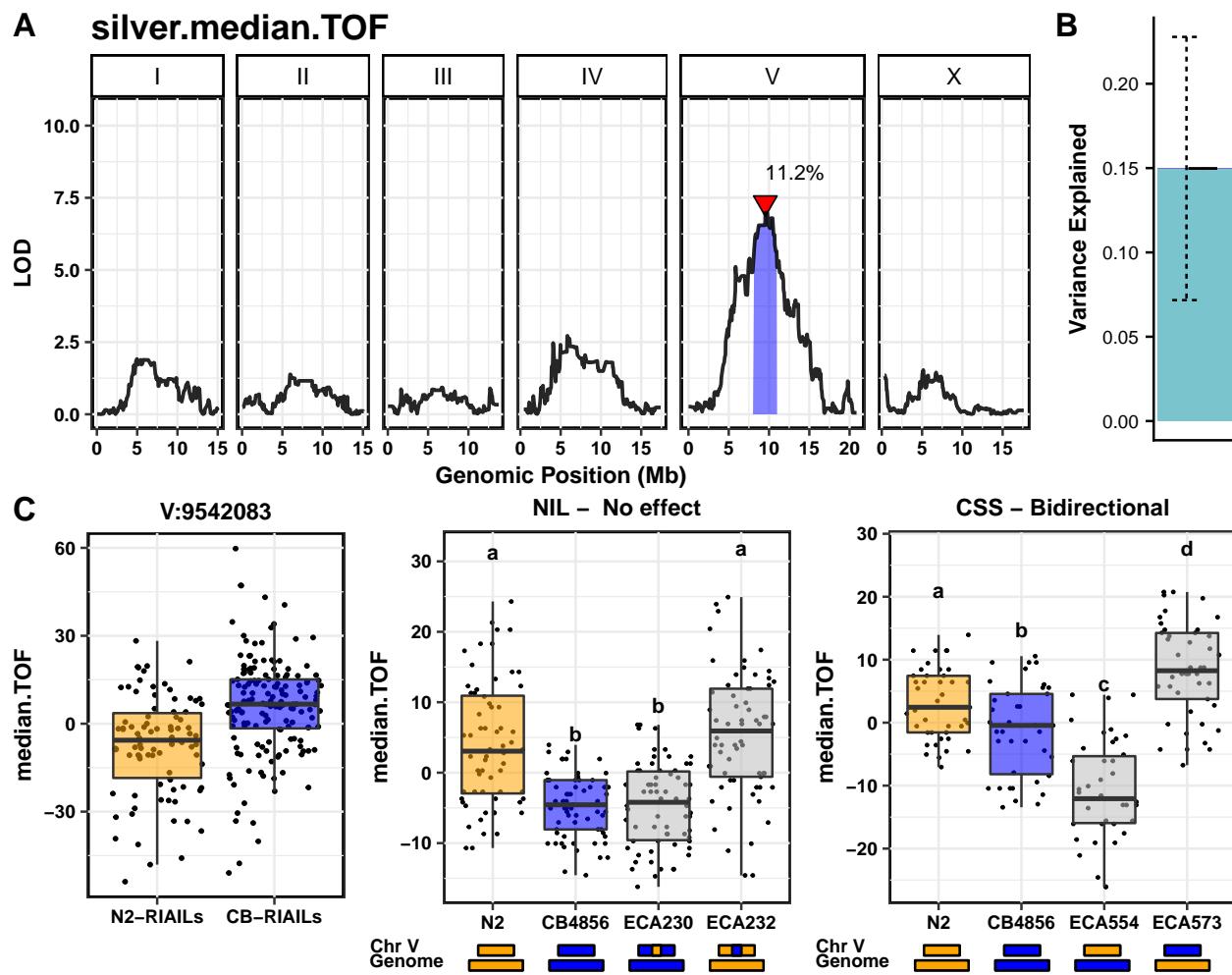
NIL – Unidirectional

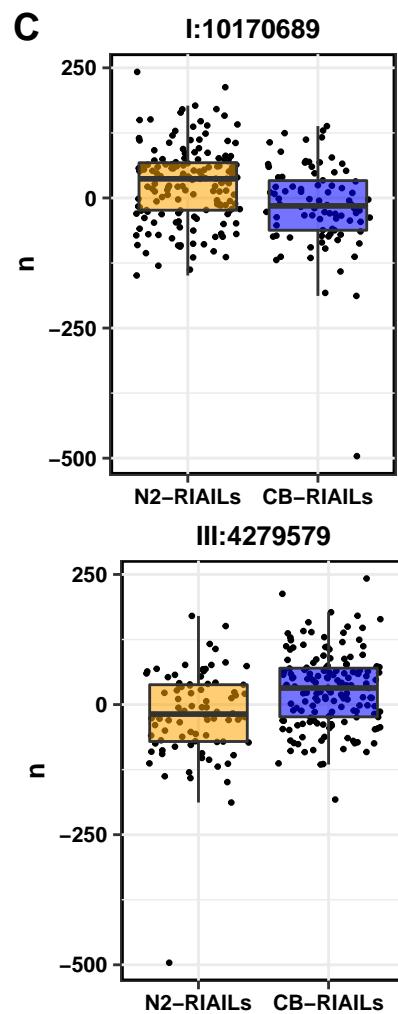
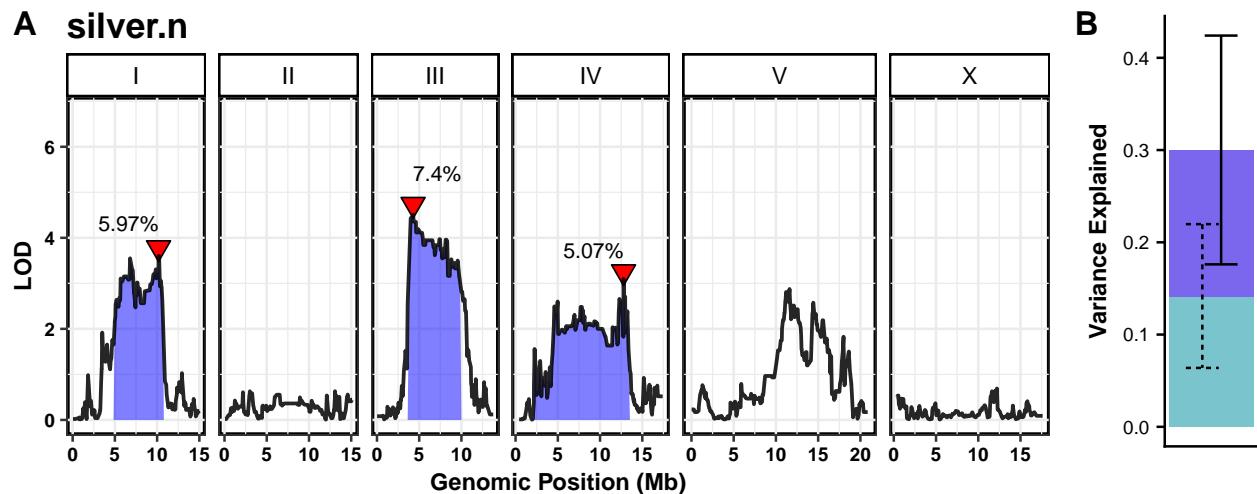


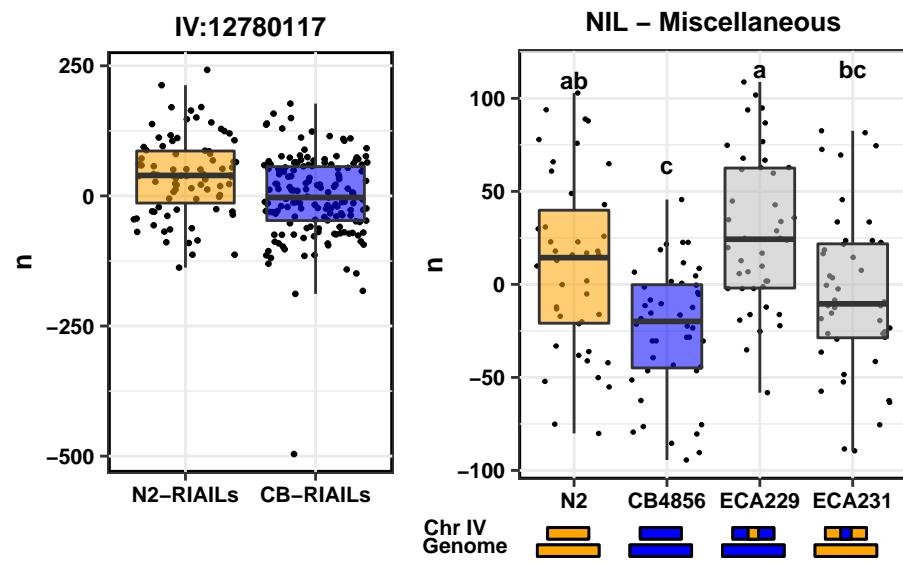
CSS – Bidirectional

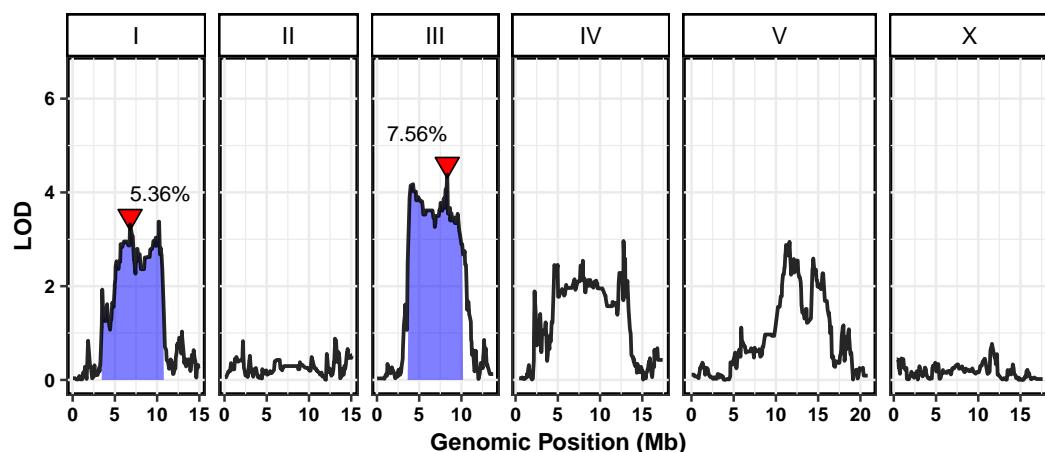
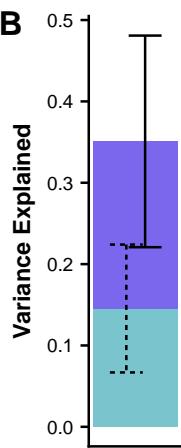
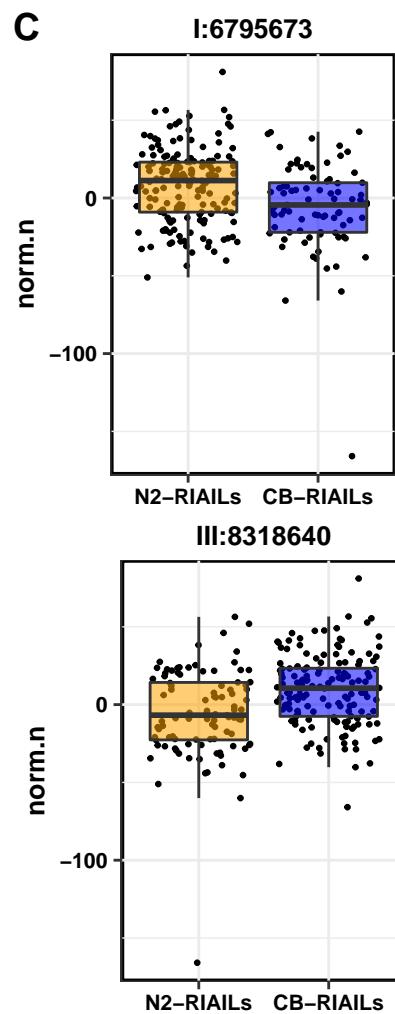




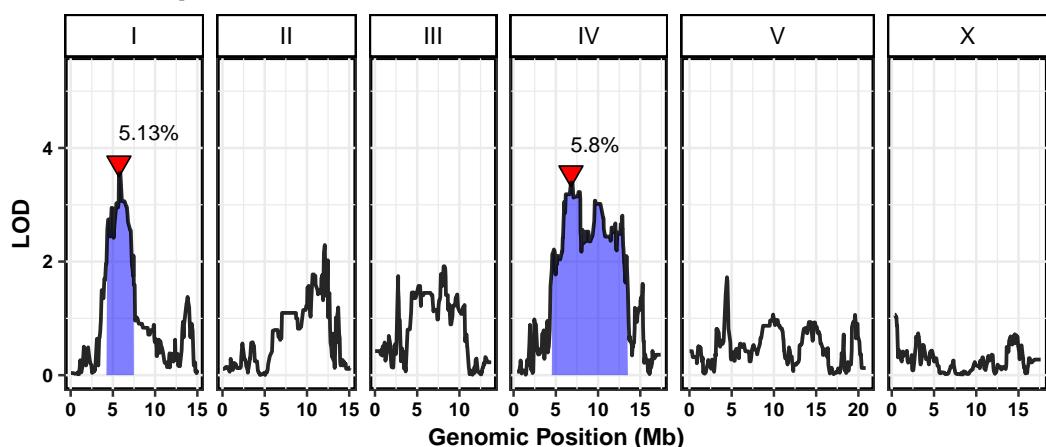




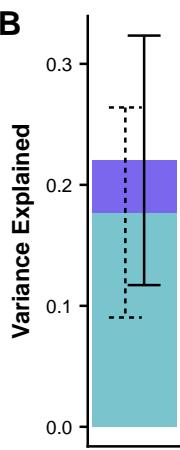


A silver.norm.n**B****C**

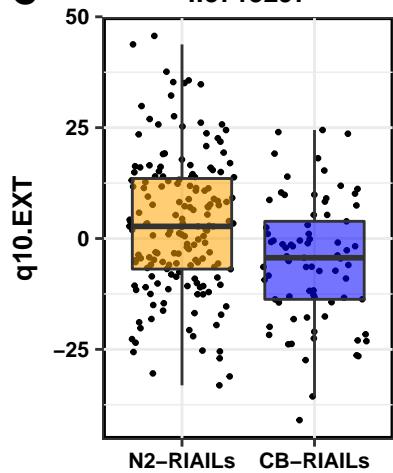
A silver.q10.EXT



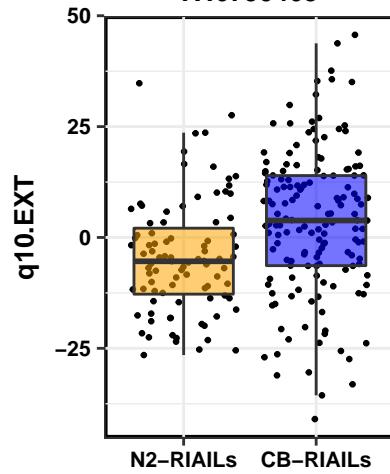
B



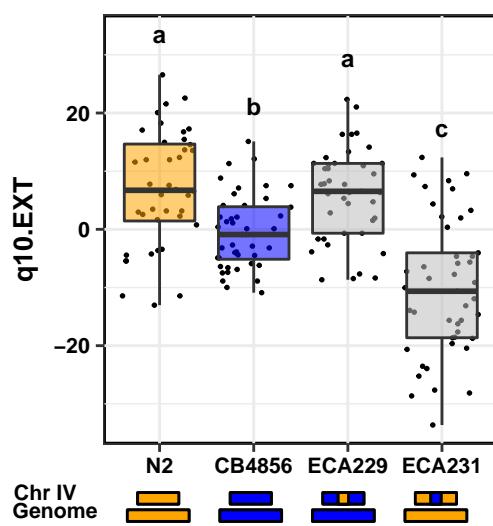
C I:5715297



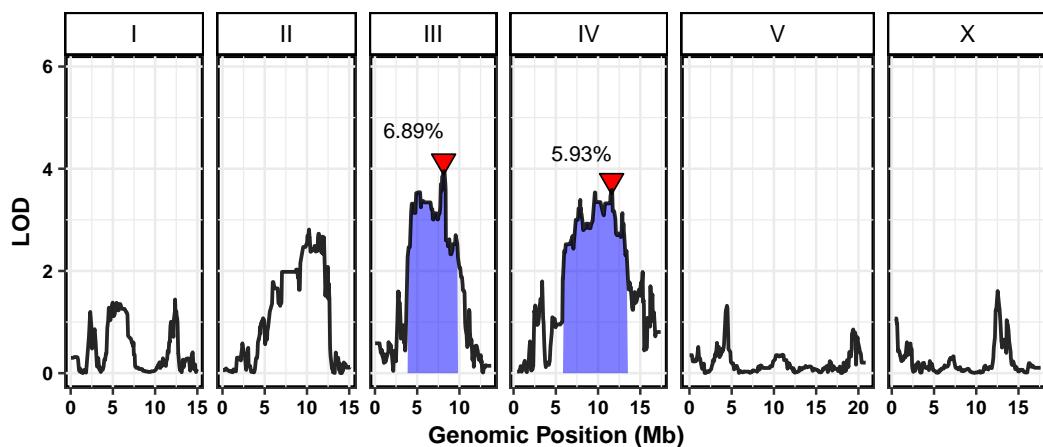
IV:6790463



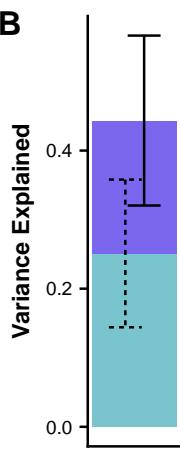
NIL – Unidirectional



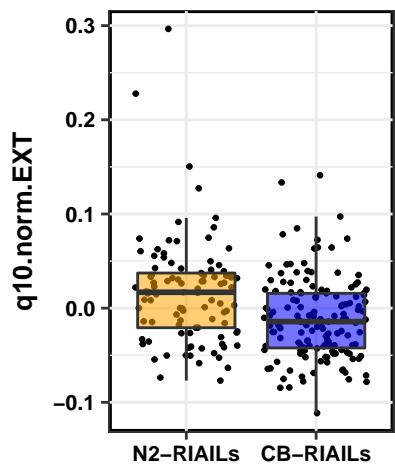
A silver.q10.norm.EXT



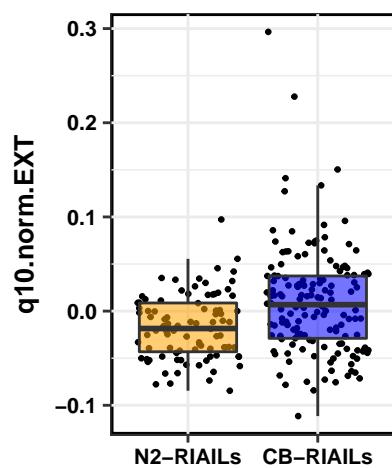
B



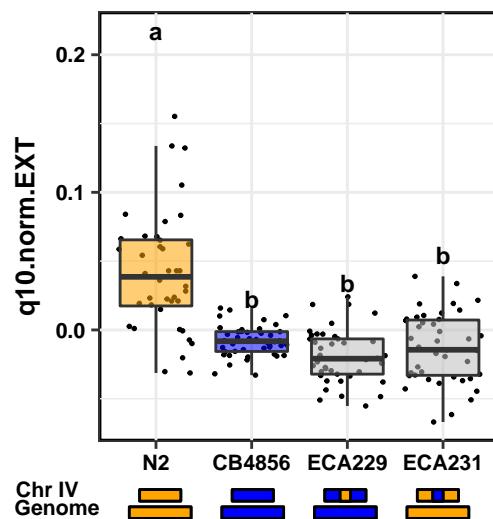
C III:8126357



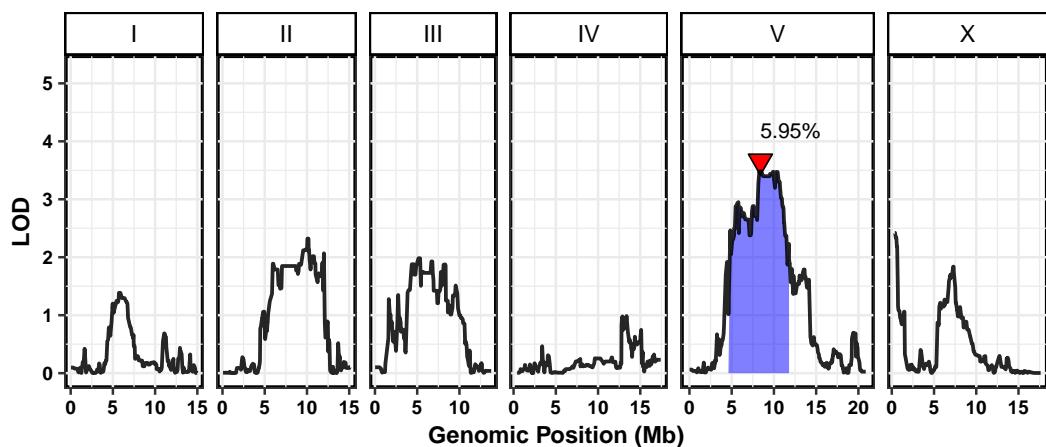
IV:11603978



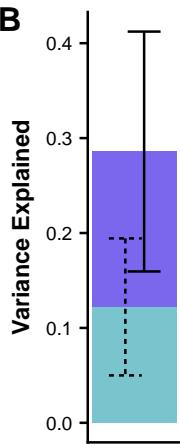
NIL – Miscellaneous



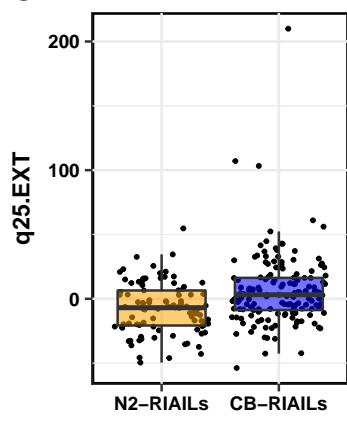
A silver.q25.EXT



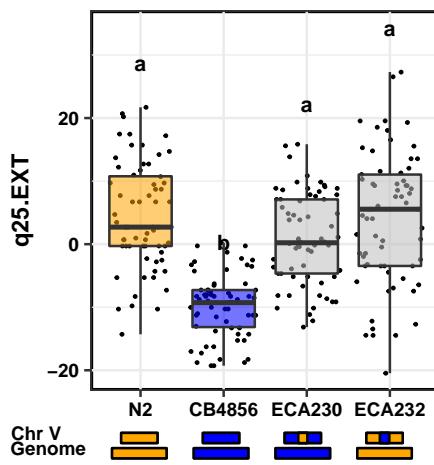
B



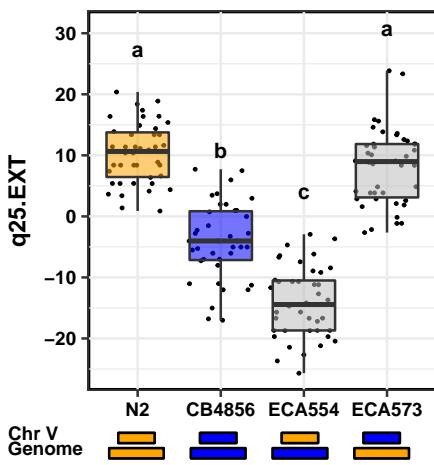
C V:8398703



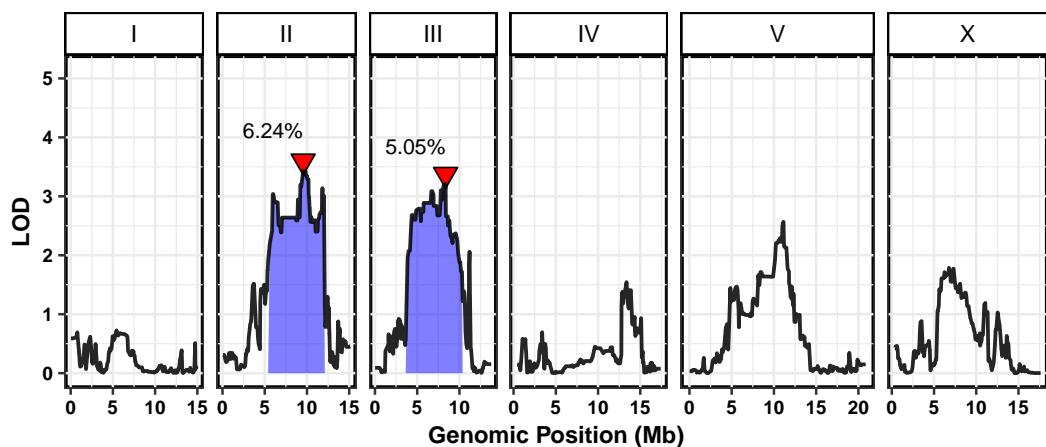
NIL – Miscellaneous



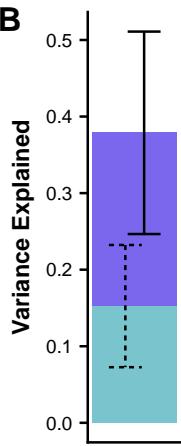
CSS – Unidirectional



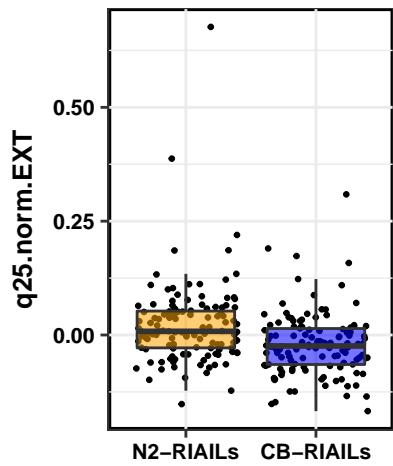
A silver.q25.norm.EXT



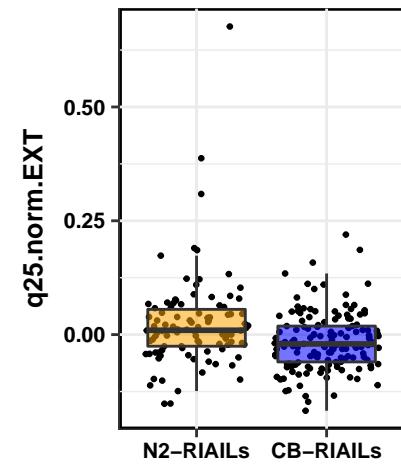
B



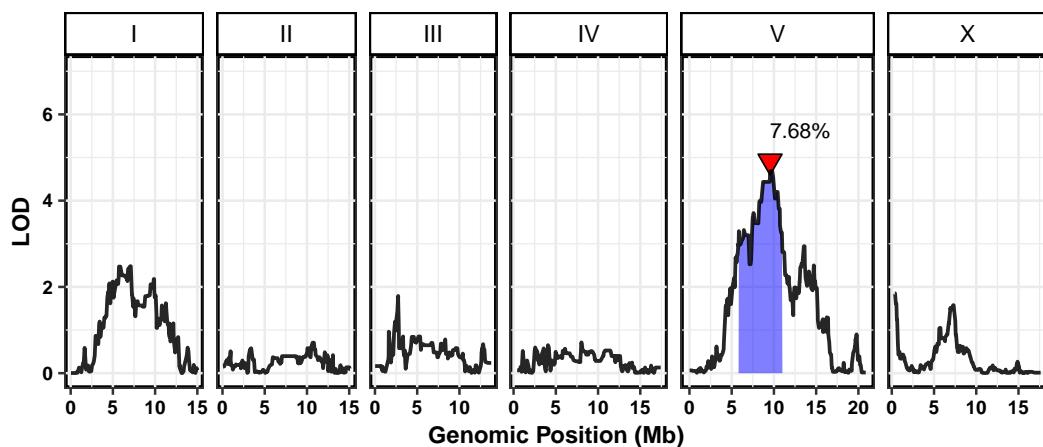
C II:9551104



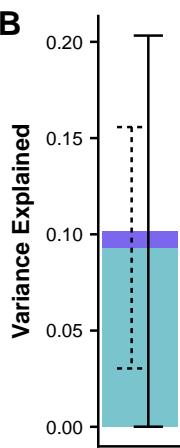
III:8365279



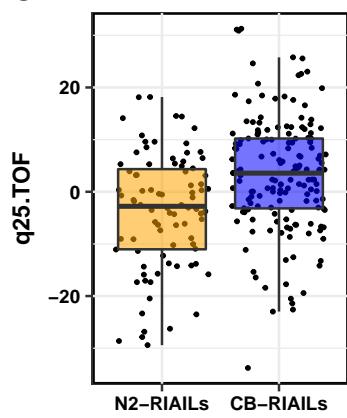
A silver.q25.TOF



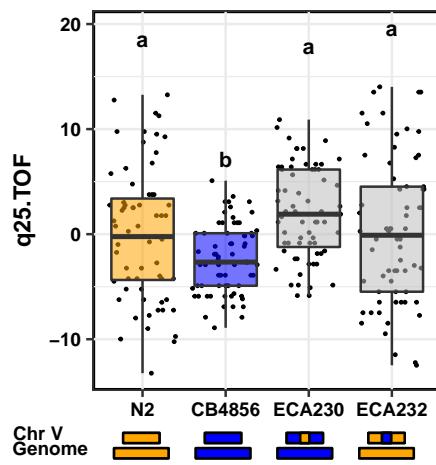
B



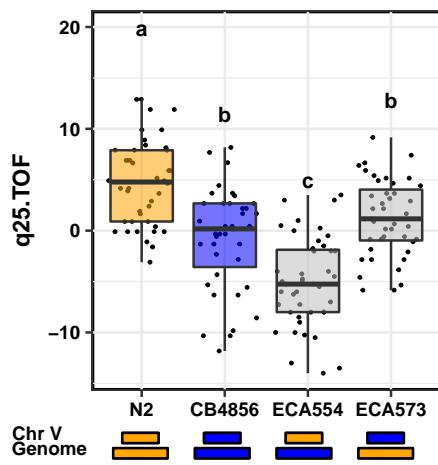
C V:9542083



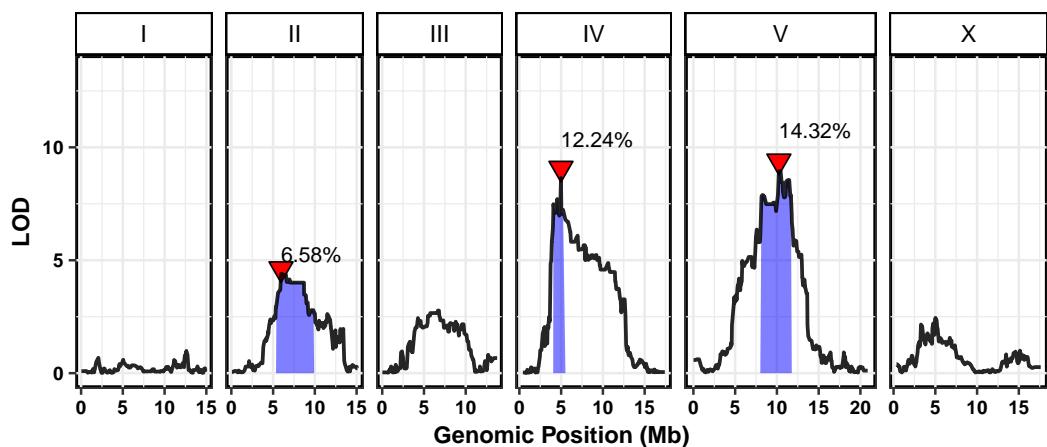
NIL – Miscellaneous



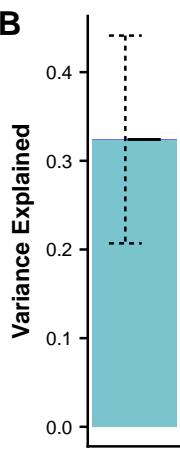
CSS – Unidirectional



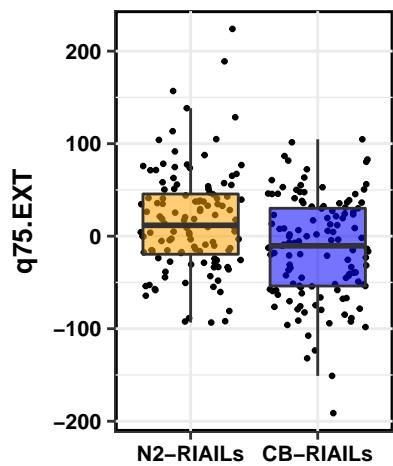
A silver.q75.EXT



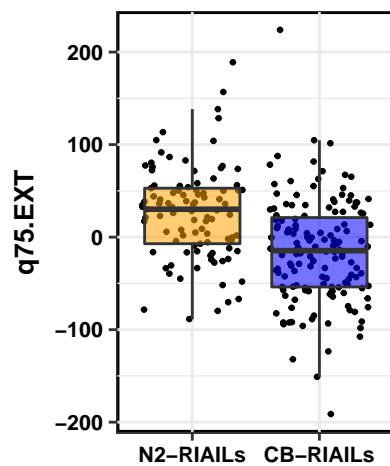
B



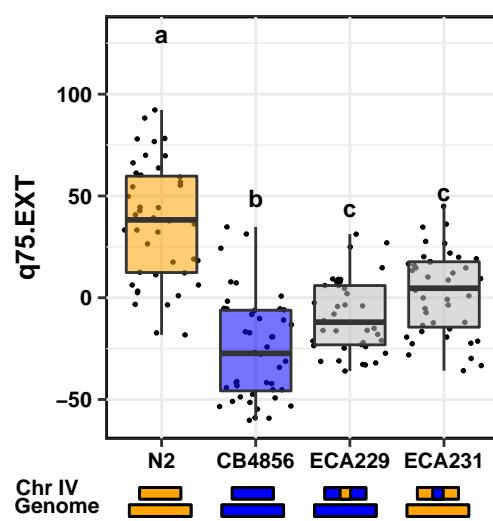
C II:5949974

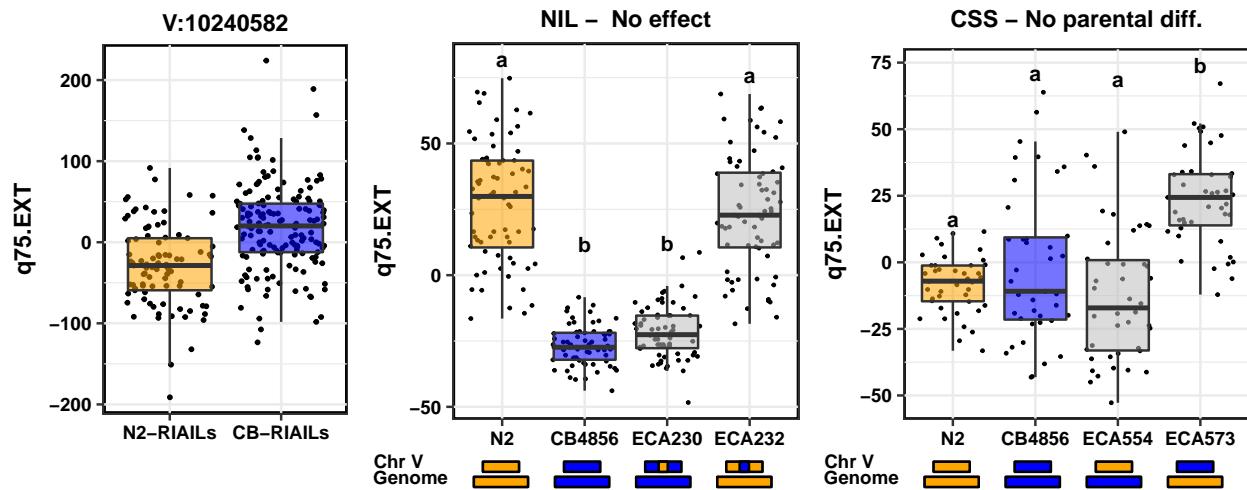


IV:4978605

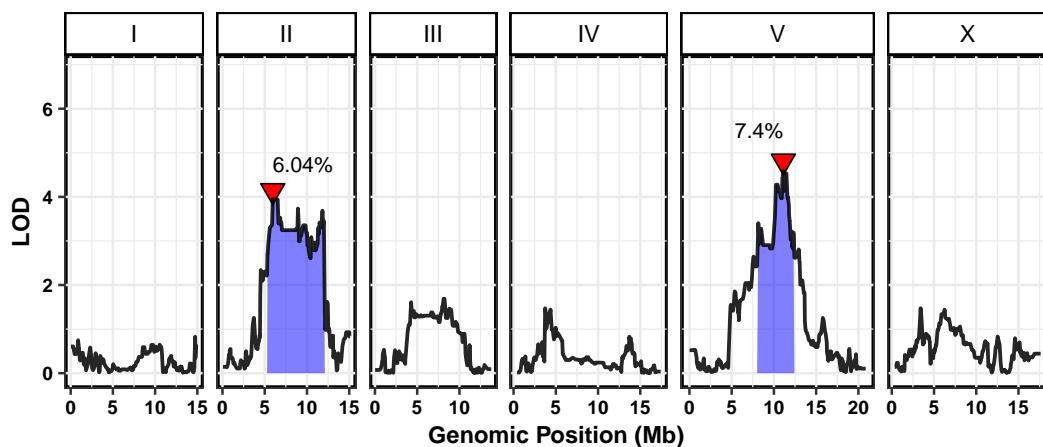


NIL – Recapitulation

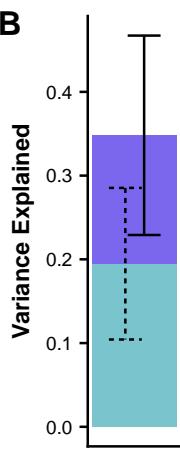




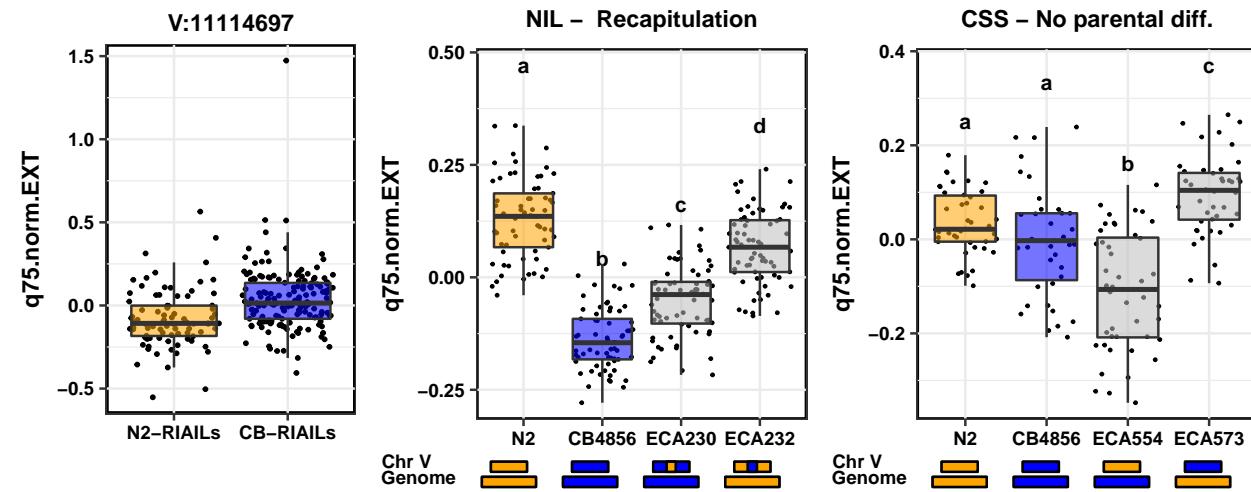
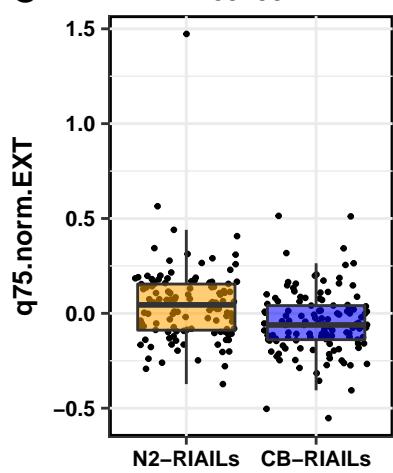
A silver.q75.norm.EXT



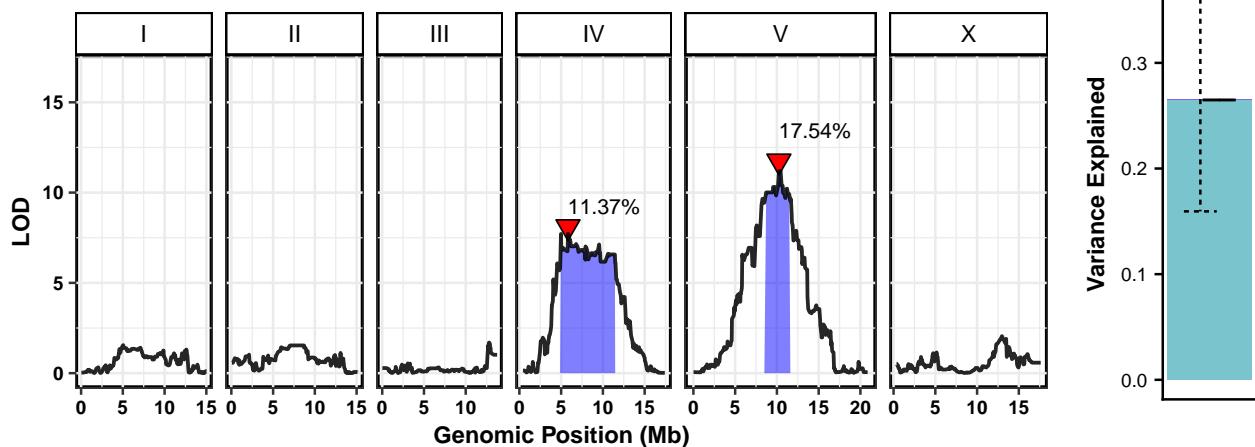
B



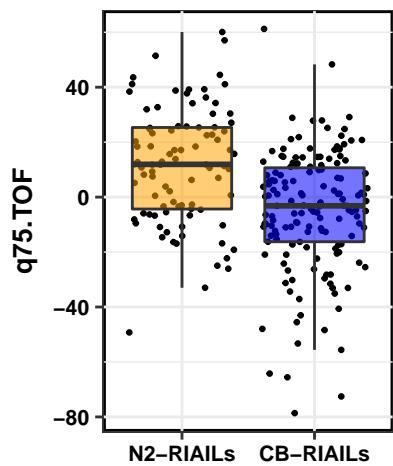
C



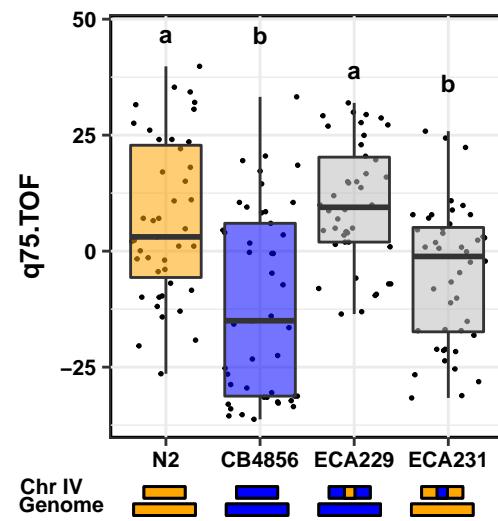
A silver.q75.TOF



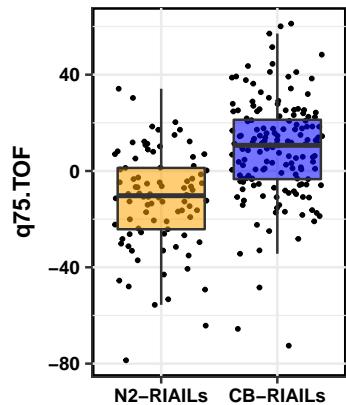
C IV:5819743



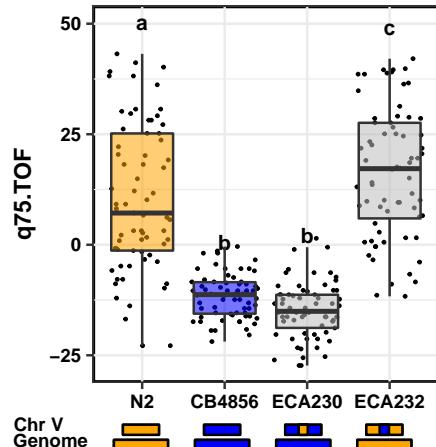
NIL – Recapitulation



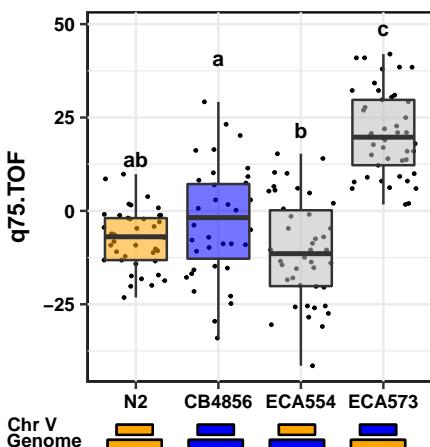
V:10240582



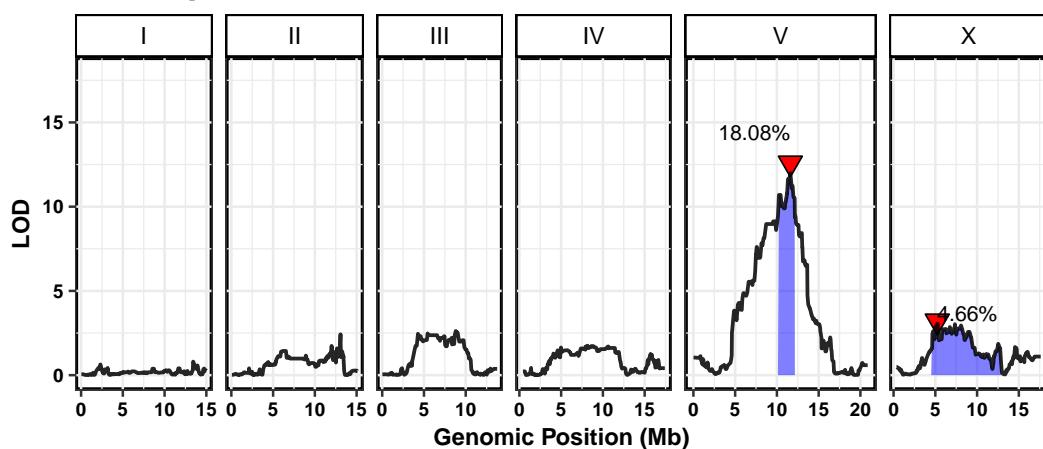
NIL – Unidirectional



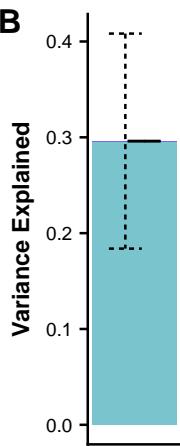
CSS – No parental diff.



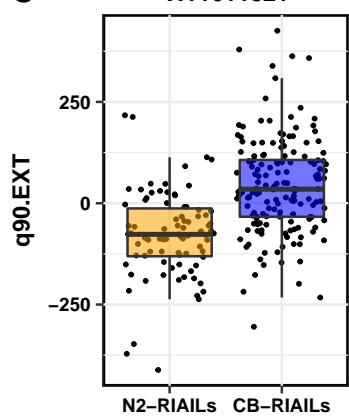
A silver.q90.EXT



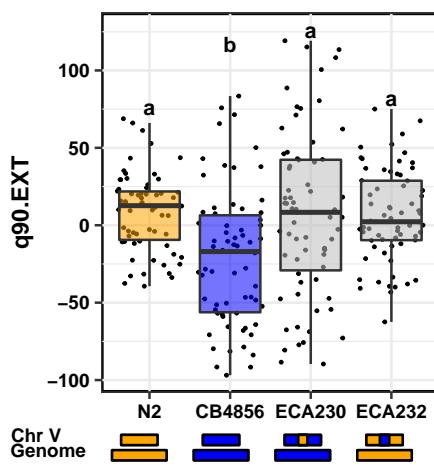
B



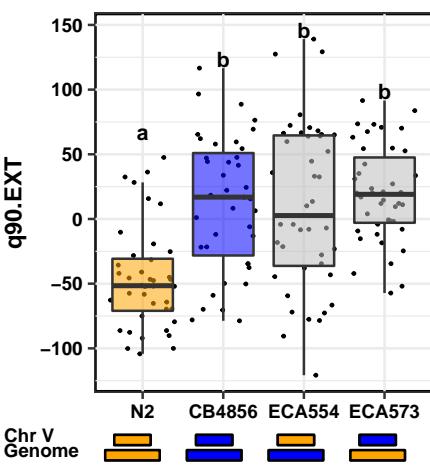
C V:116111821



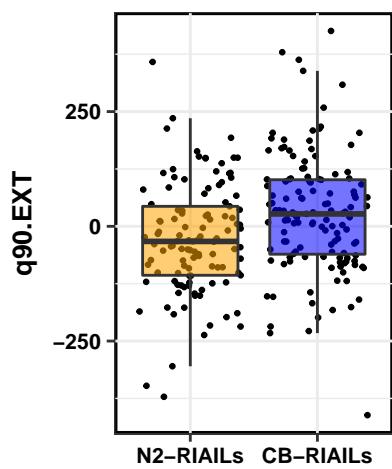
NIL – Miscellaneous



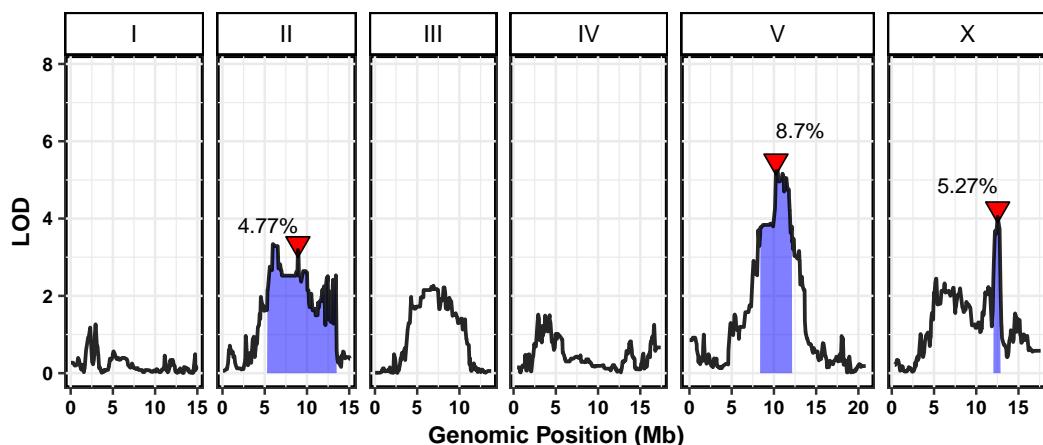
CSS – Miscellaneous



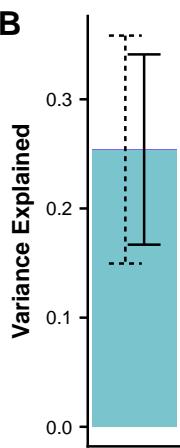
X:5234795



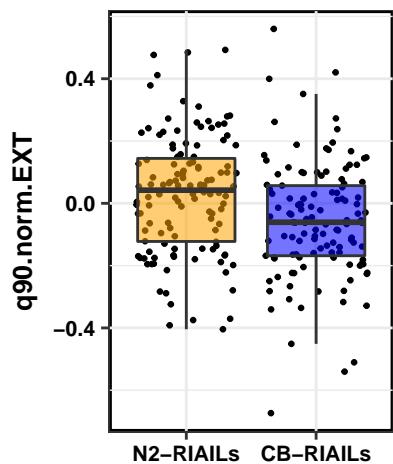
A silver.q90.norm.EXT



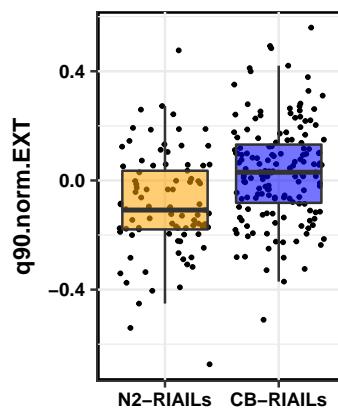
B



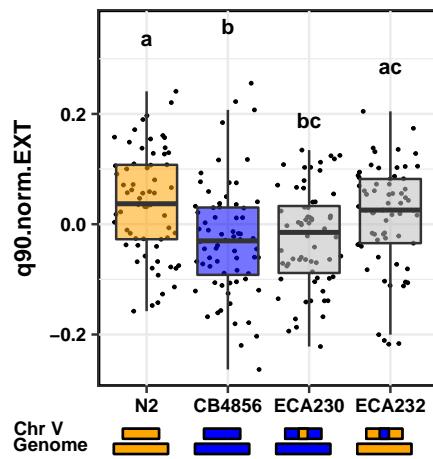
C II:8927601



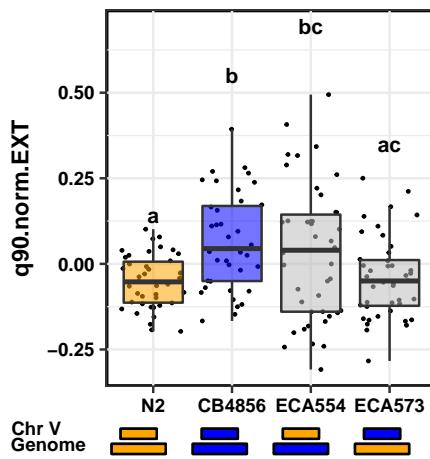
V:10240582

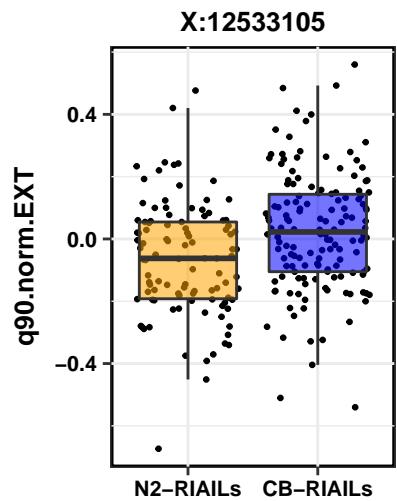


NIL – No effect

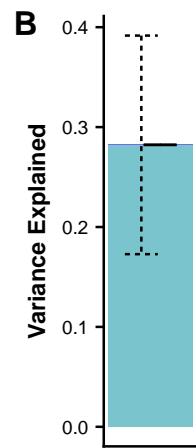
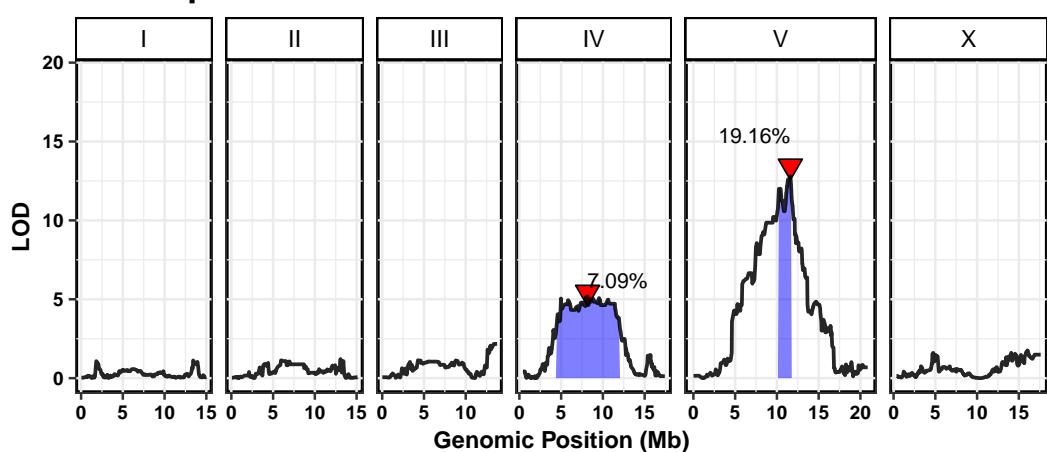


CSS – No effect

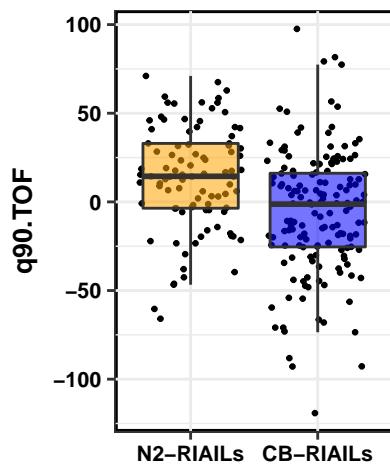




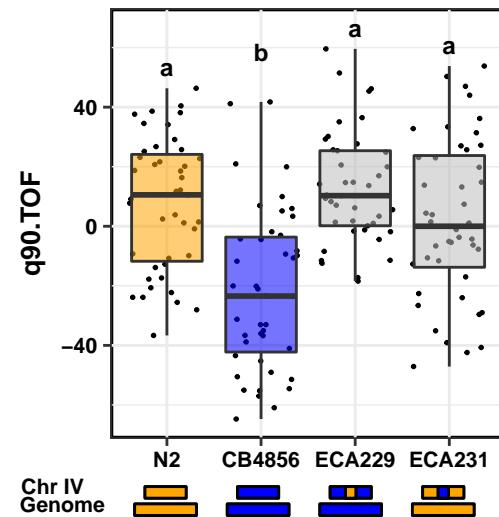
A silver.q90.TOF



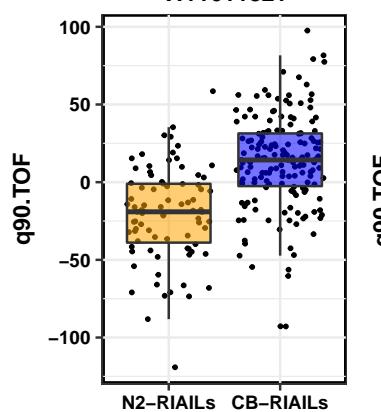
C IV:8162297



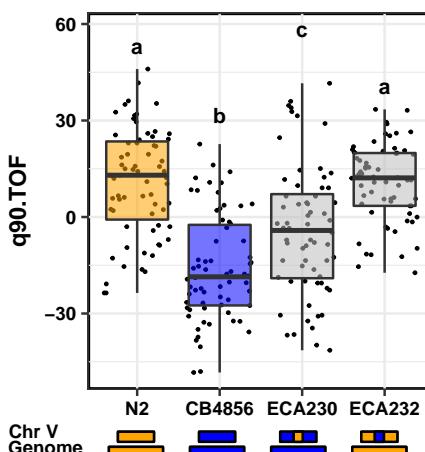
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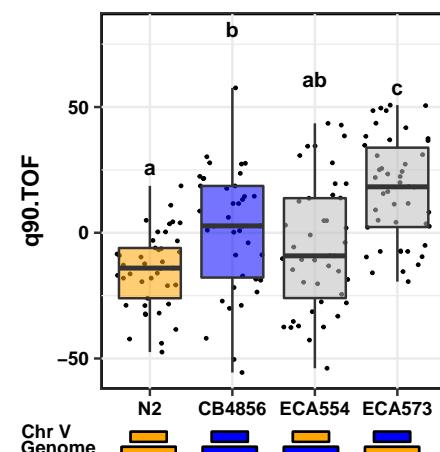
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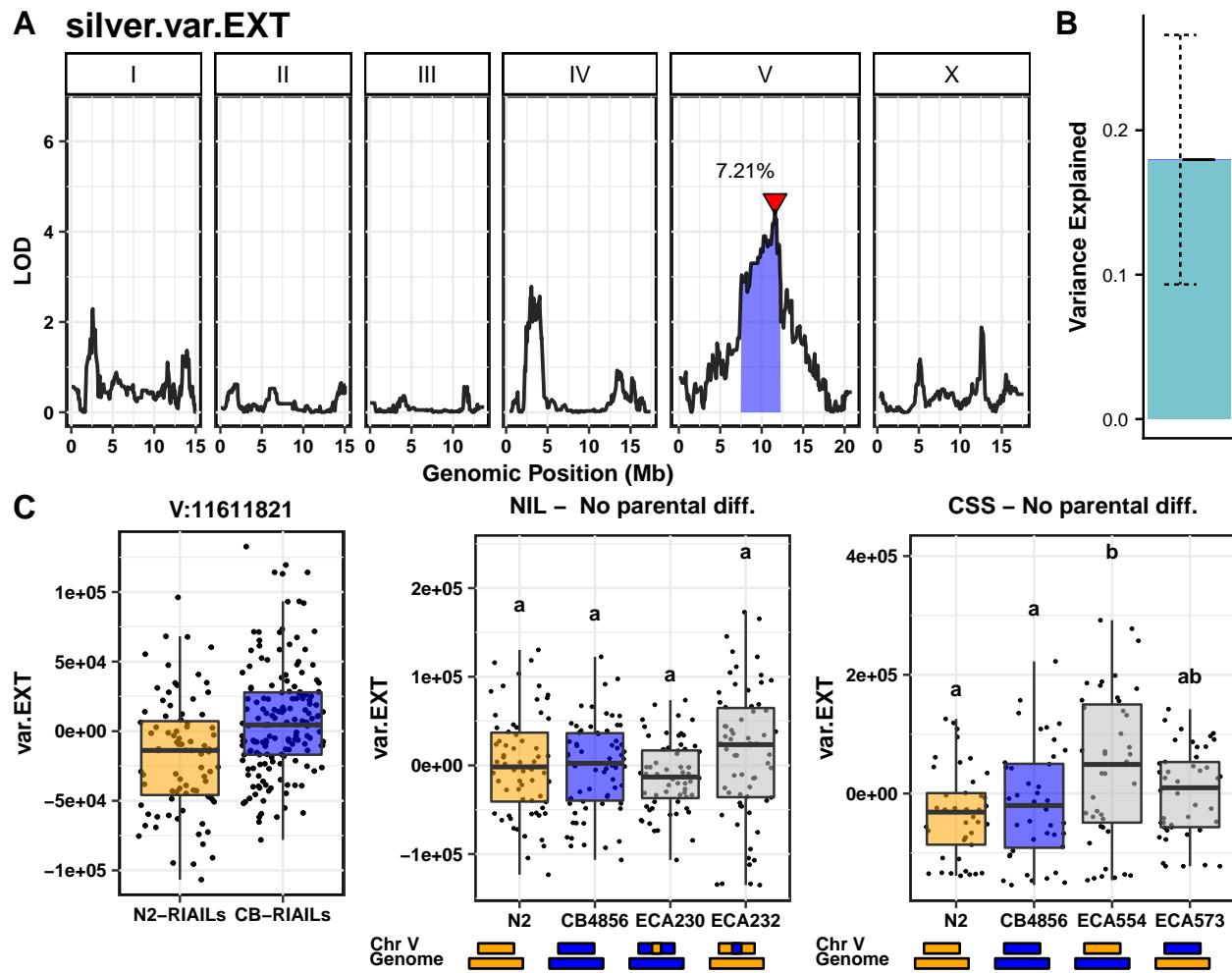


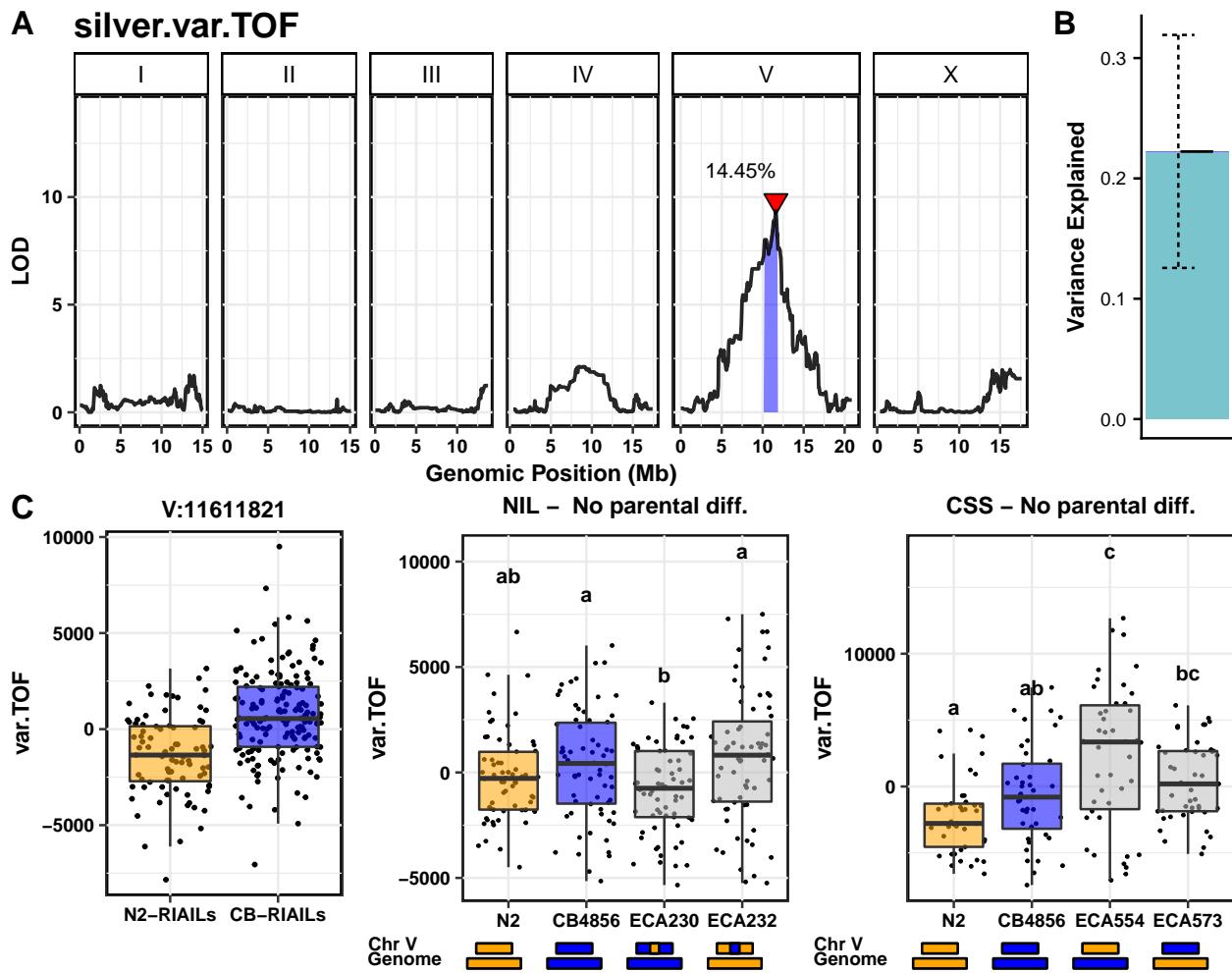
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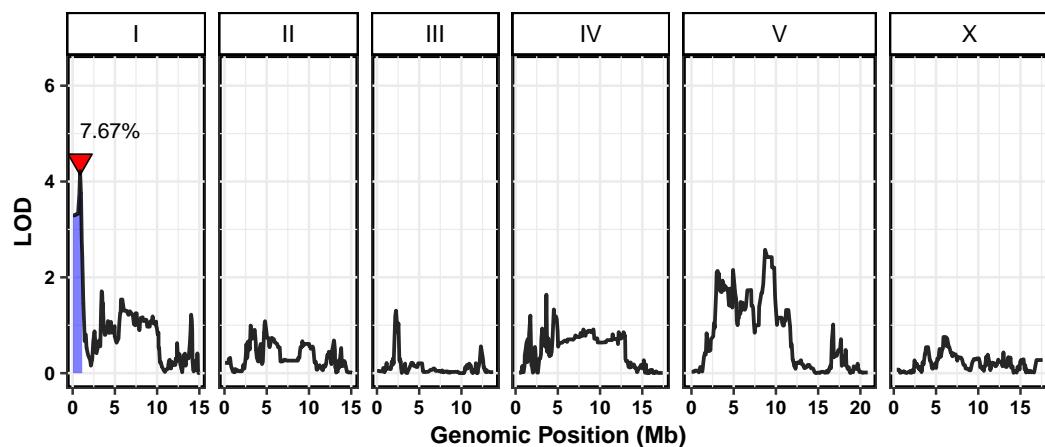
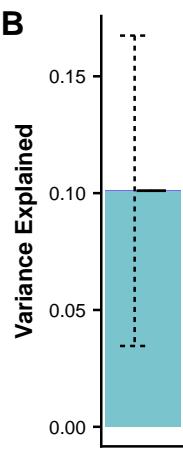
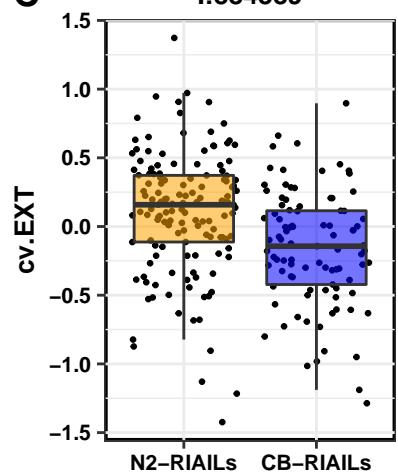


CSS – Unidirectional

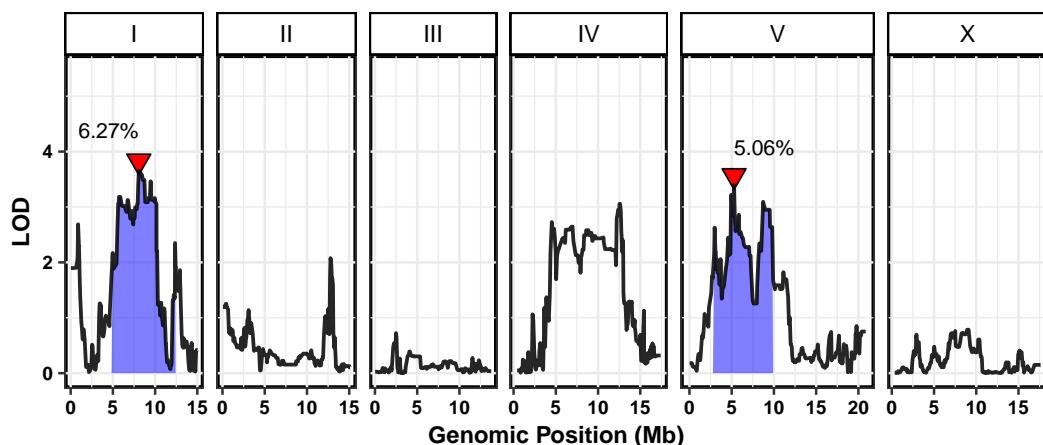




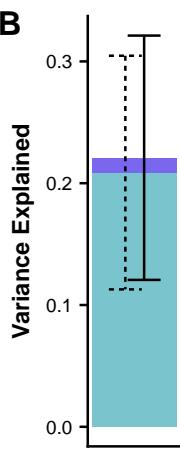


A topotecan.cv.EXT**B****C I:884389**

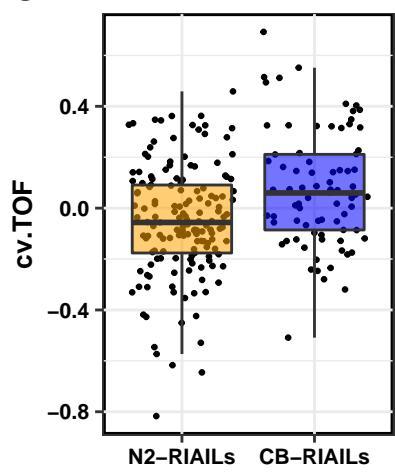
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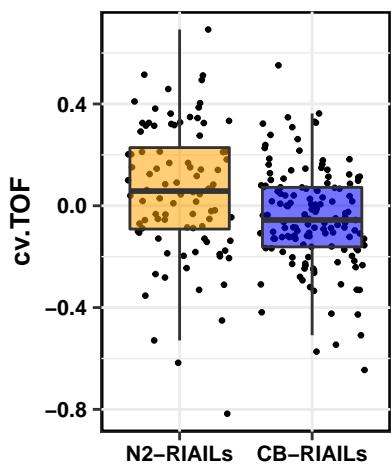
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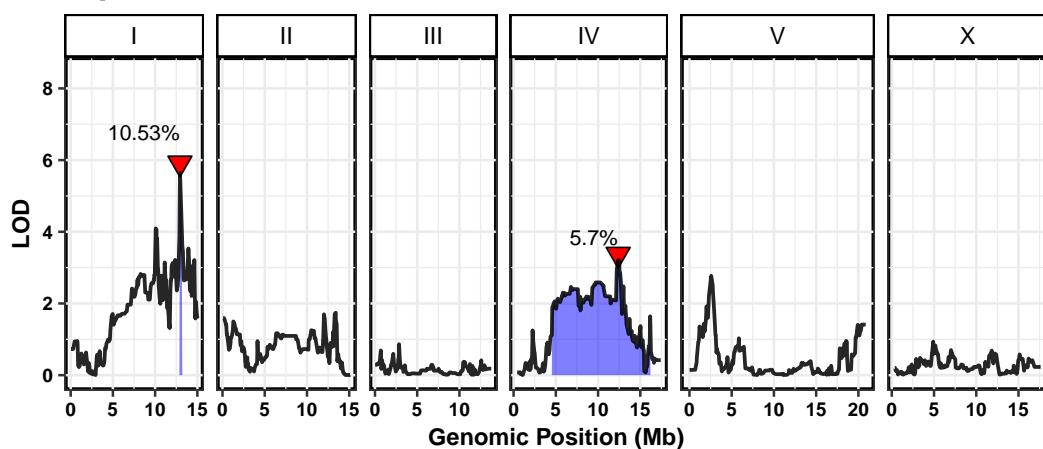
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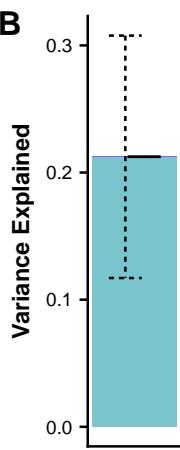
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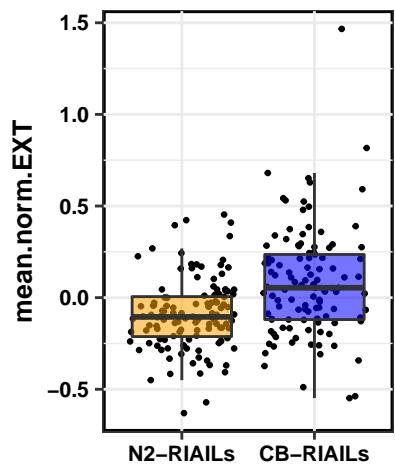
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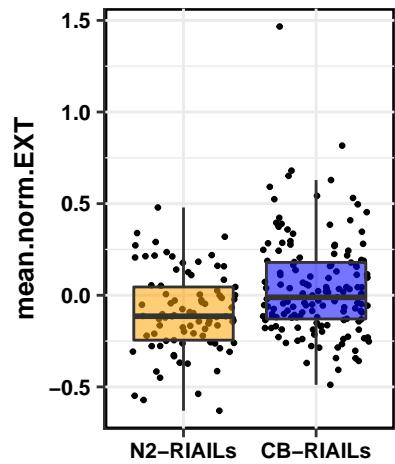
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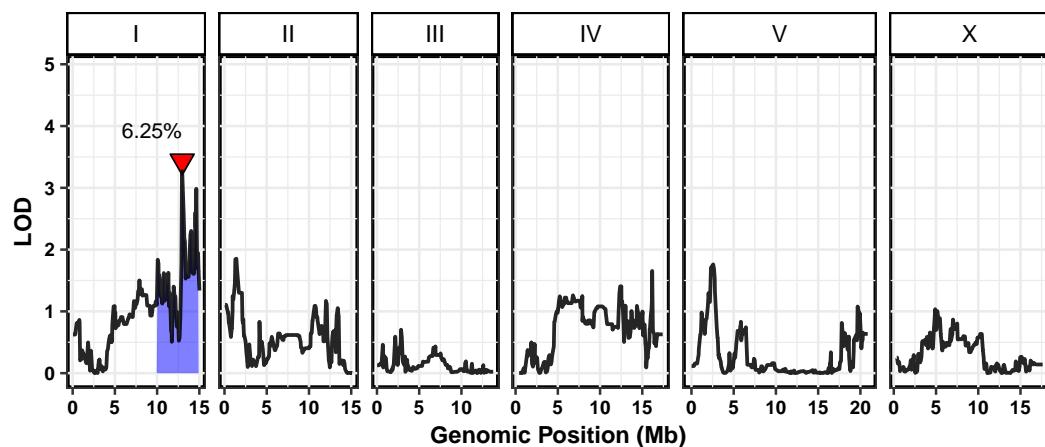
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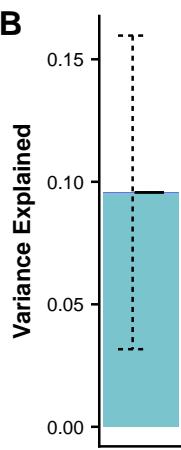
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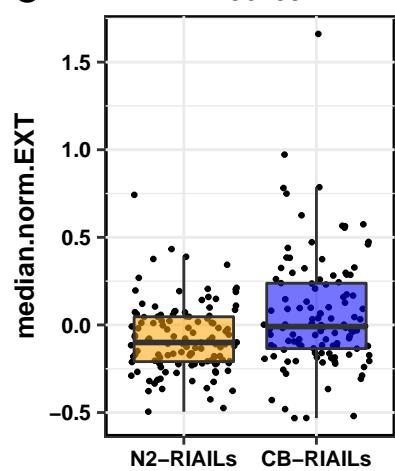
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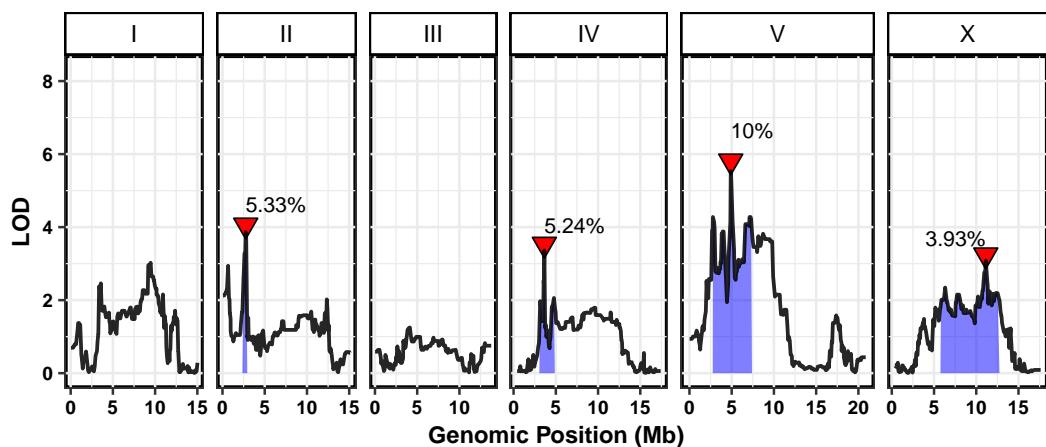
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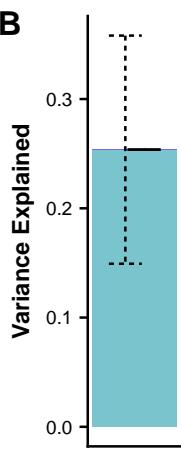
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A topotecan.median.TOF

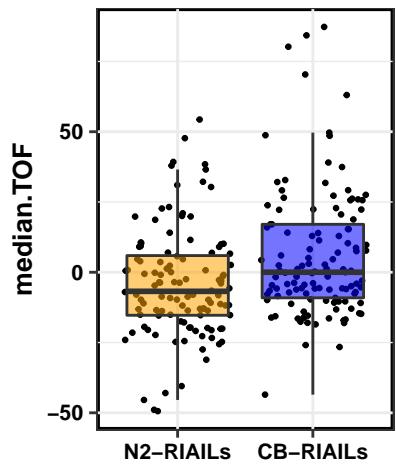


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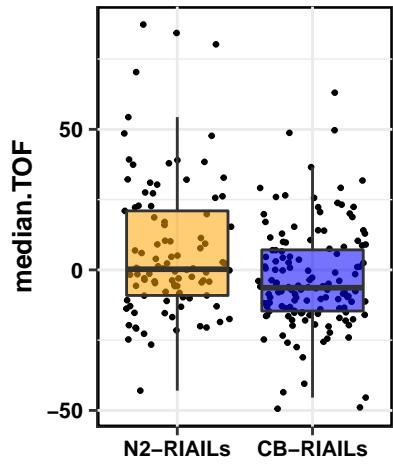


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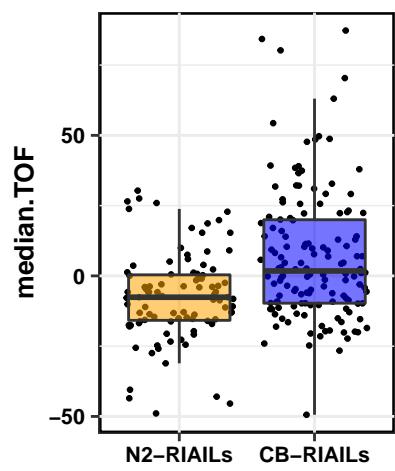
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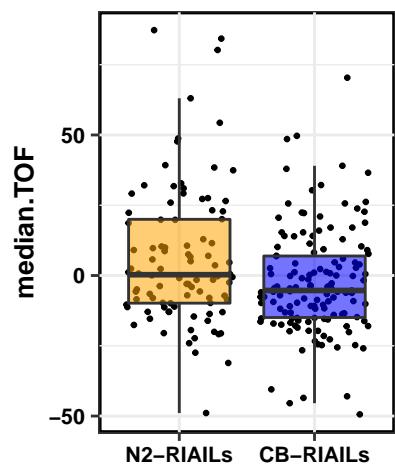
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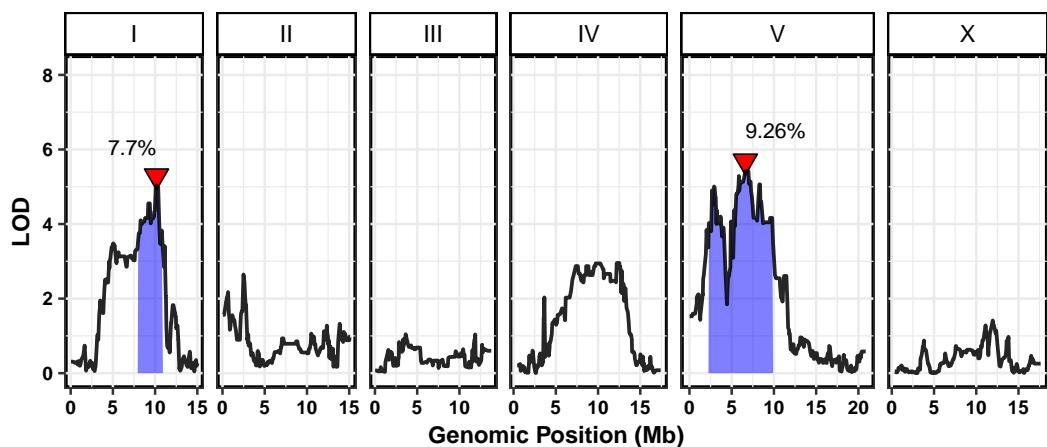
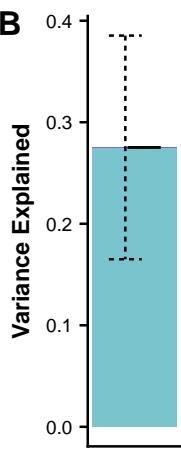
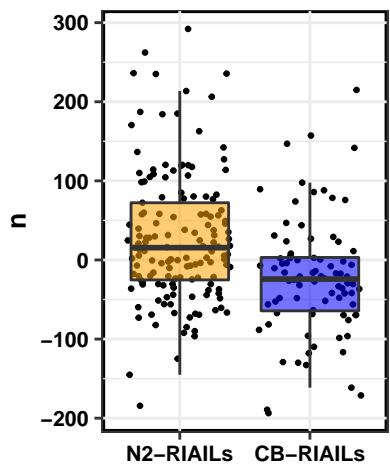


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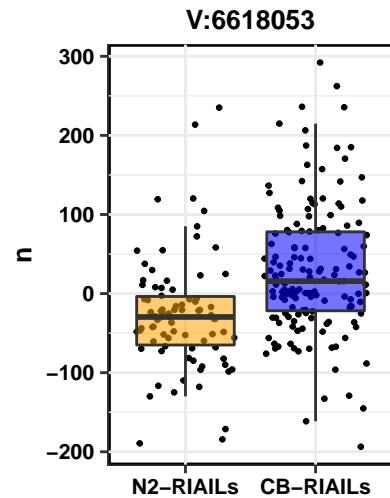


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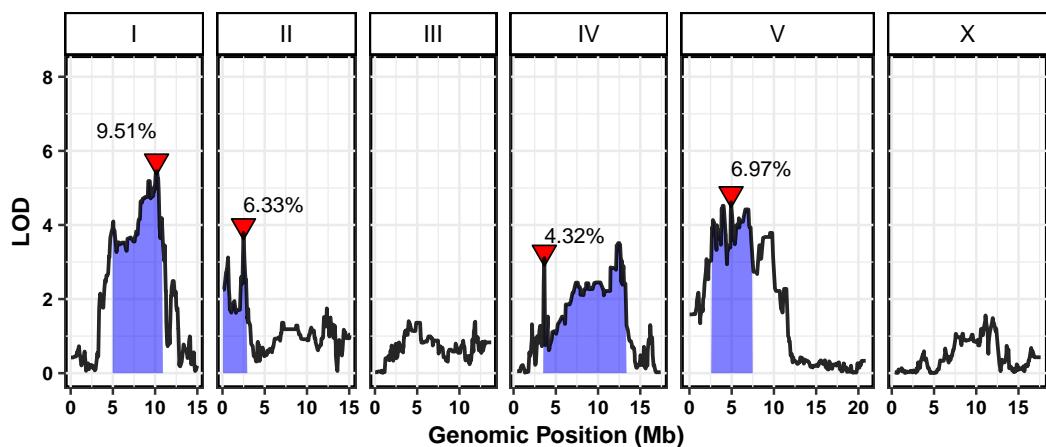
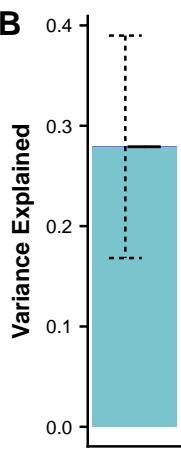
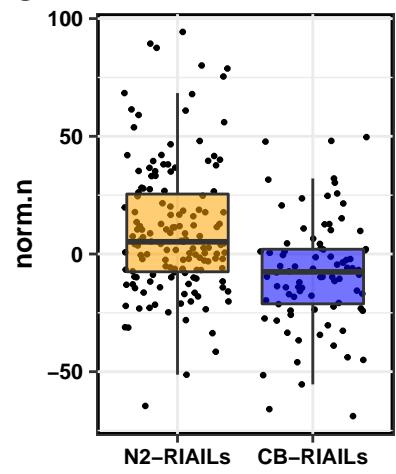


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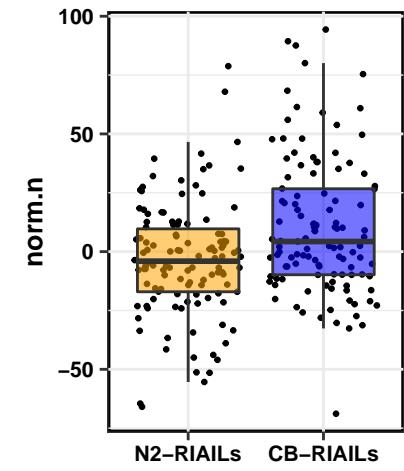
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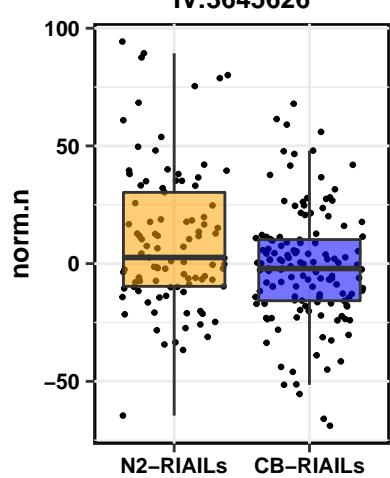
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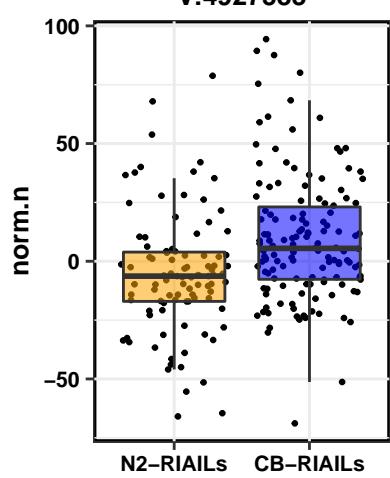
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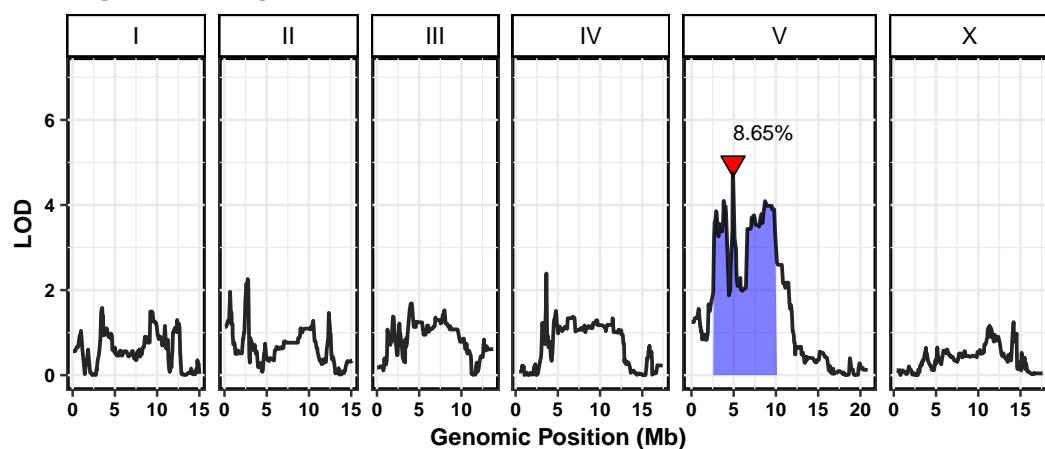
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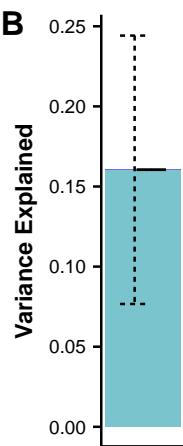
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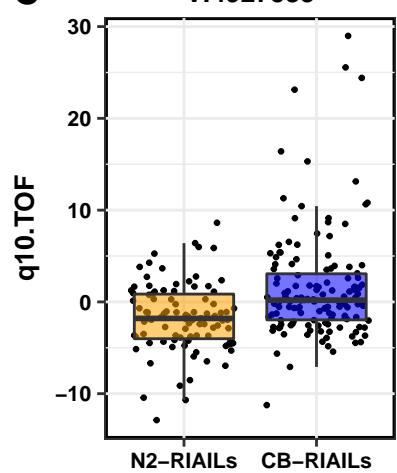
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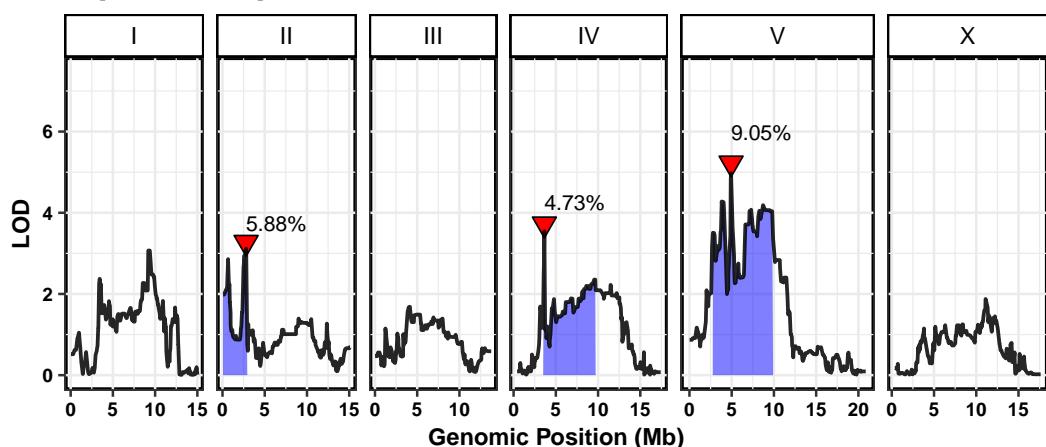
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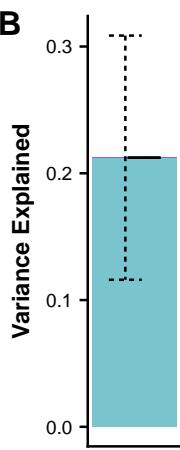
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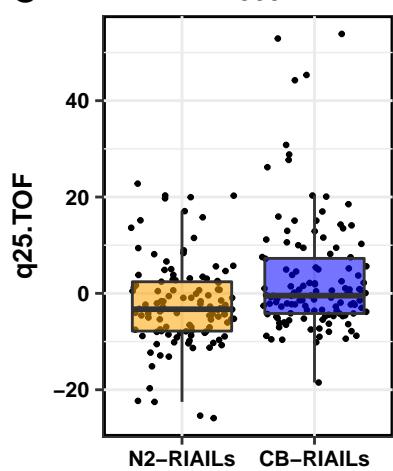


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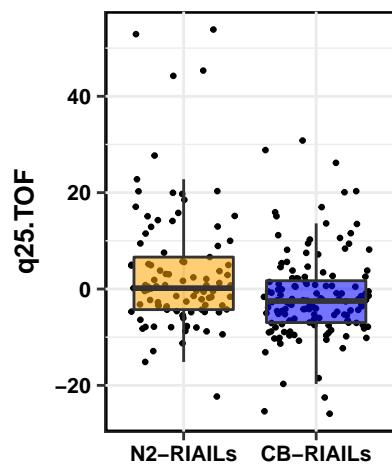


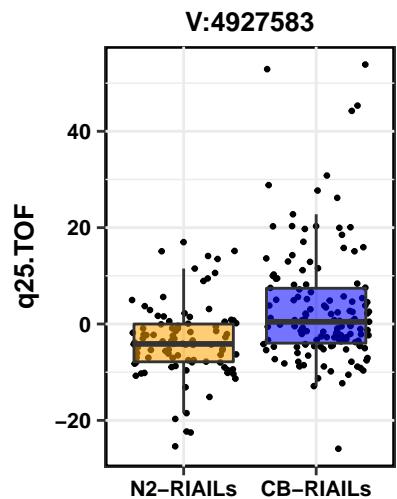
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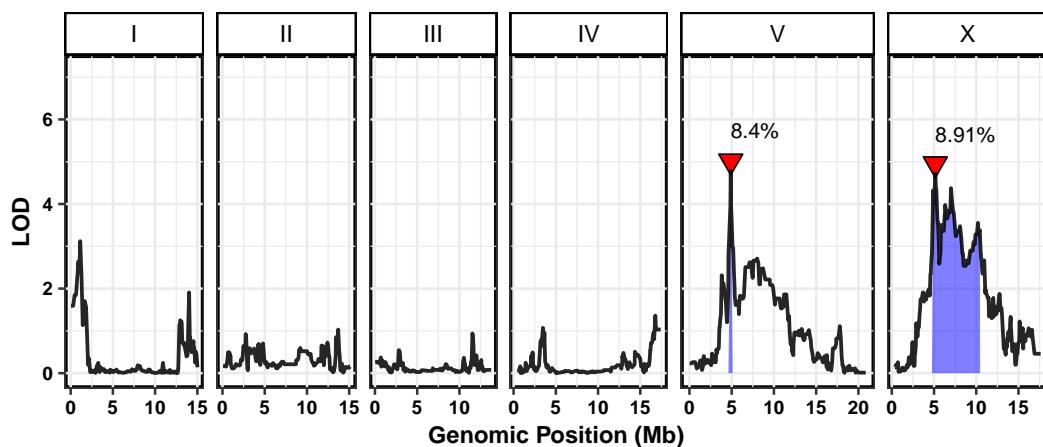


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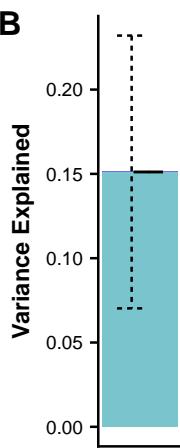




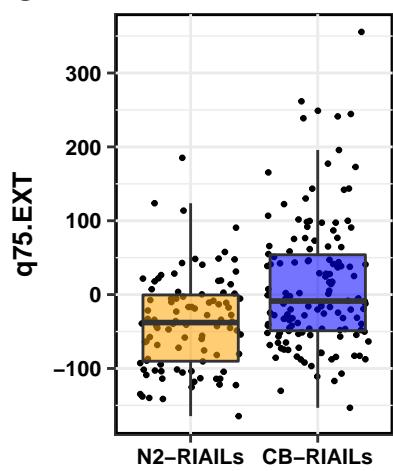
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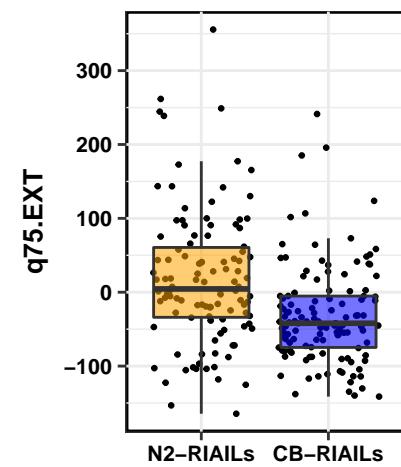
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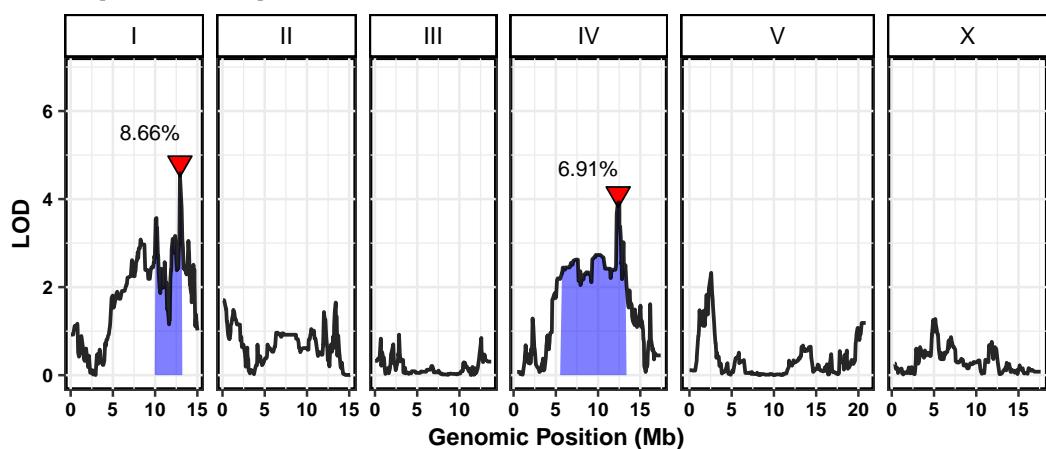
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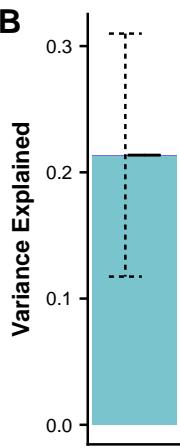
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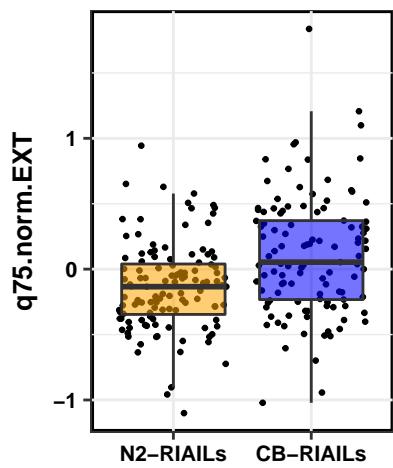
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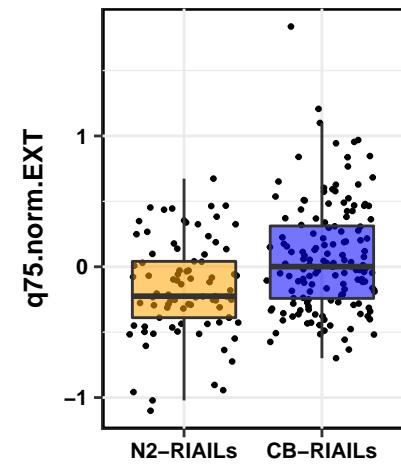
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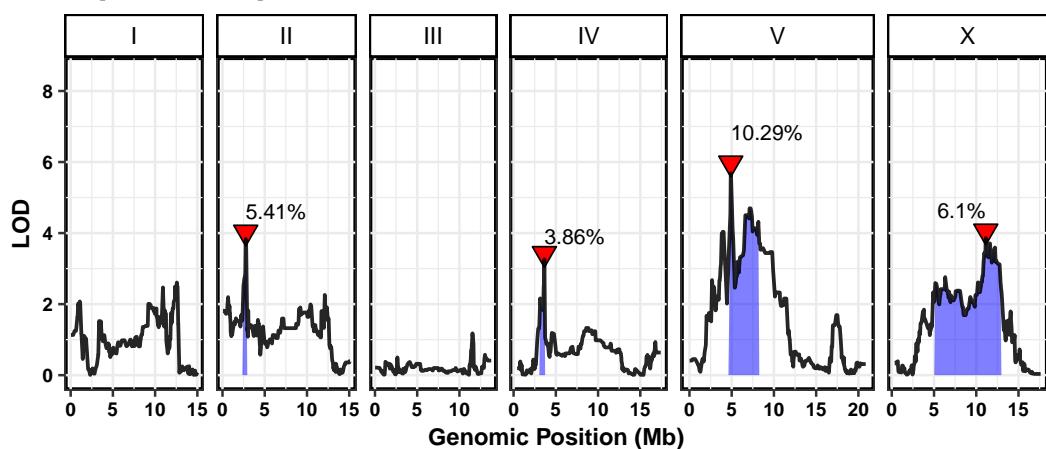
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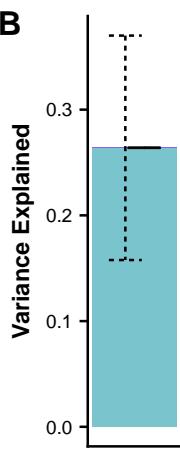
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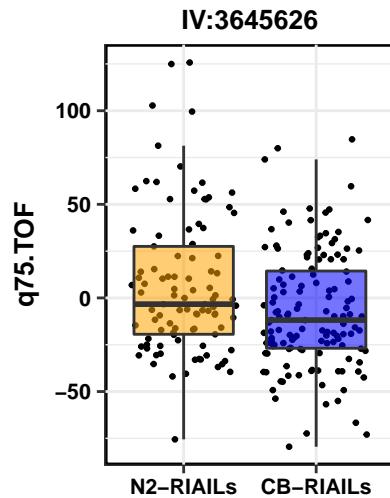
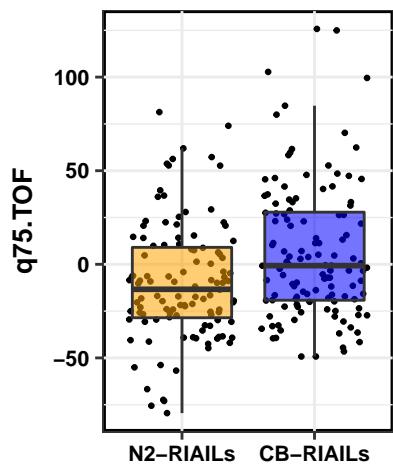
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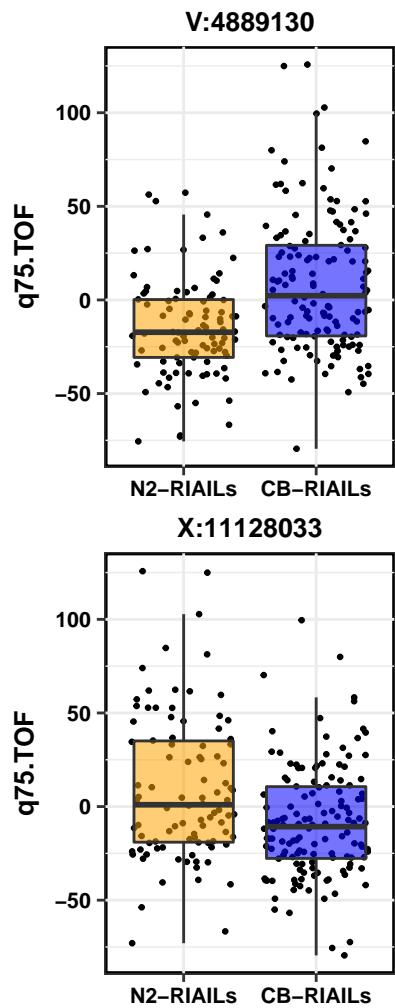


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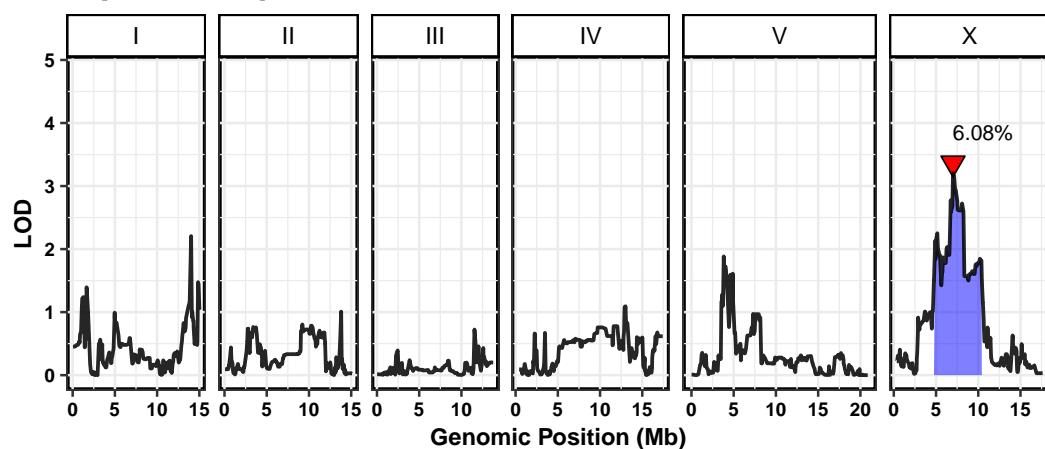


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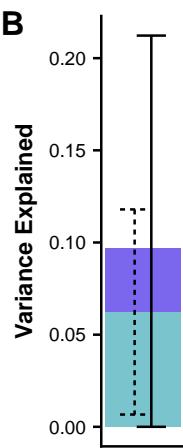




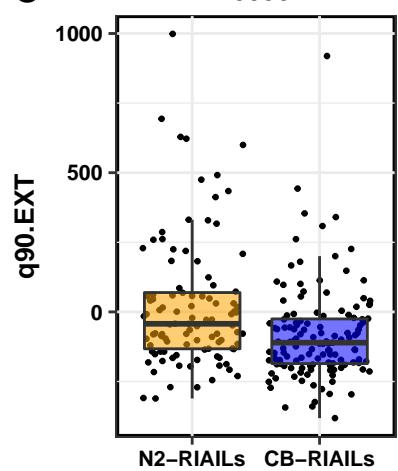
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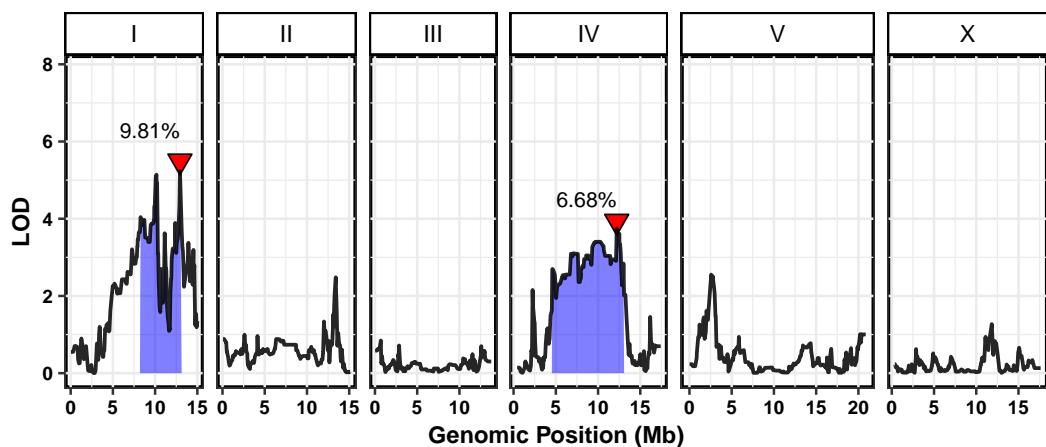
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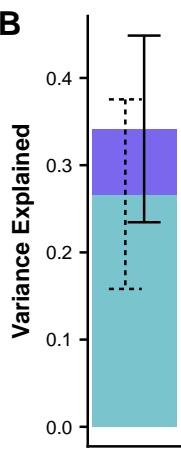
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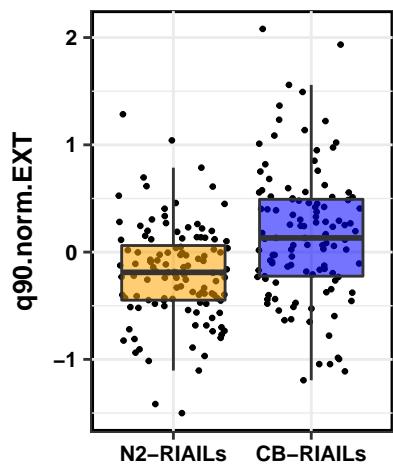
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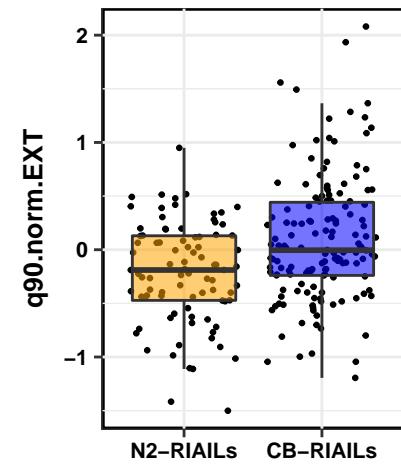
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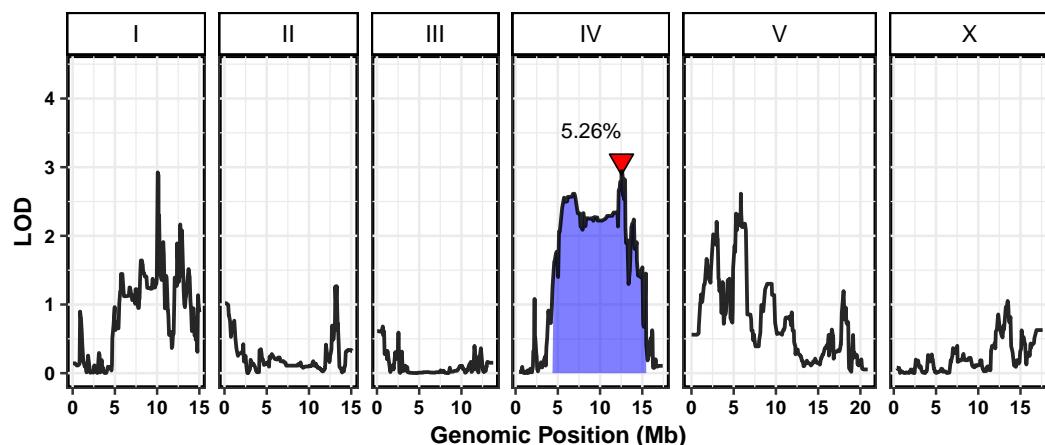
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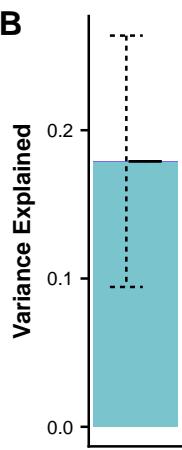
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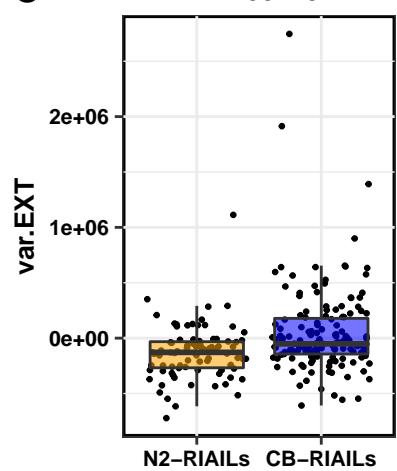
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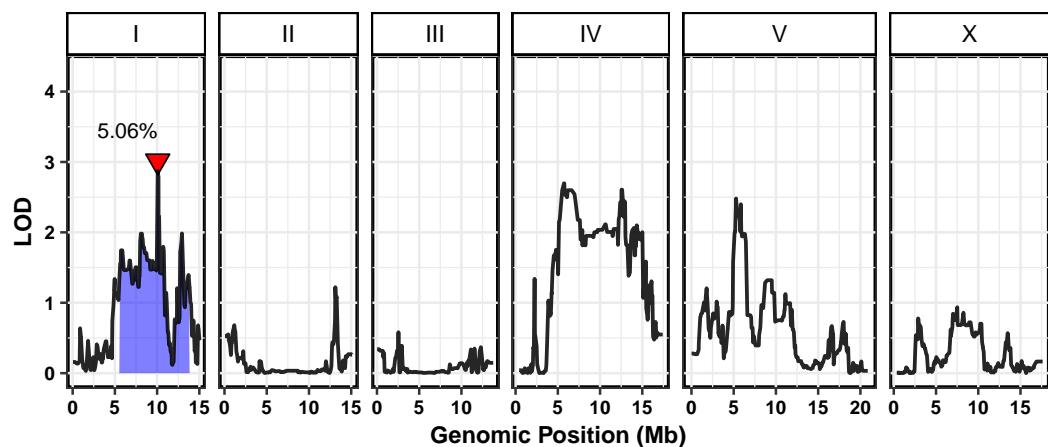
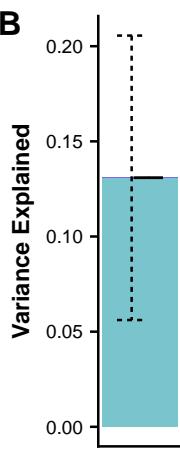
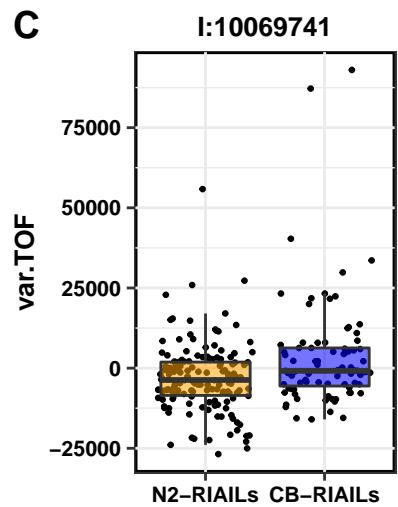


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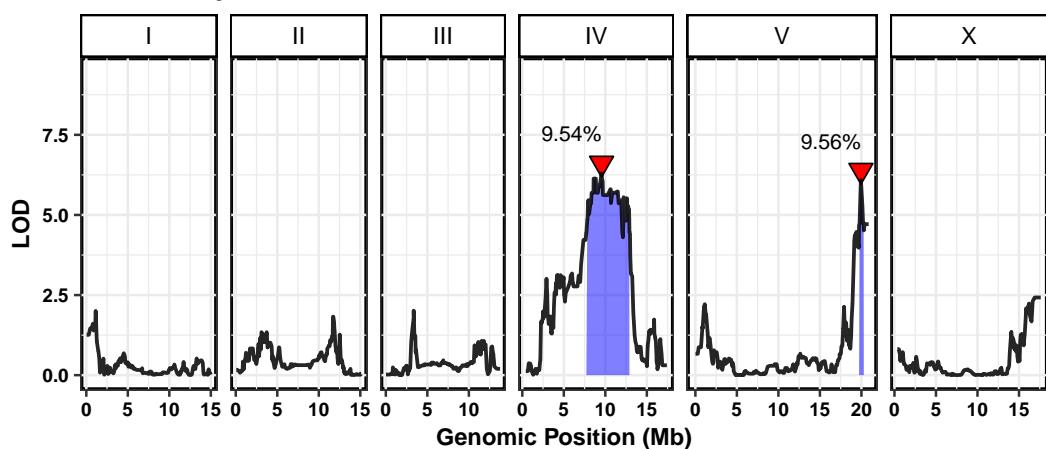


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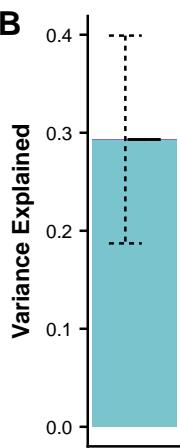


A topotecan.var.TOF**B****C**

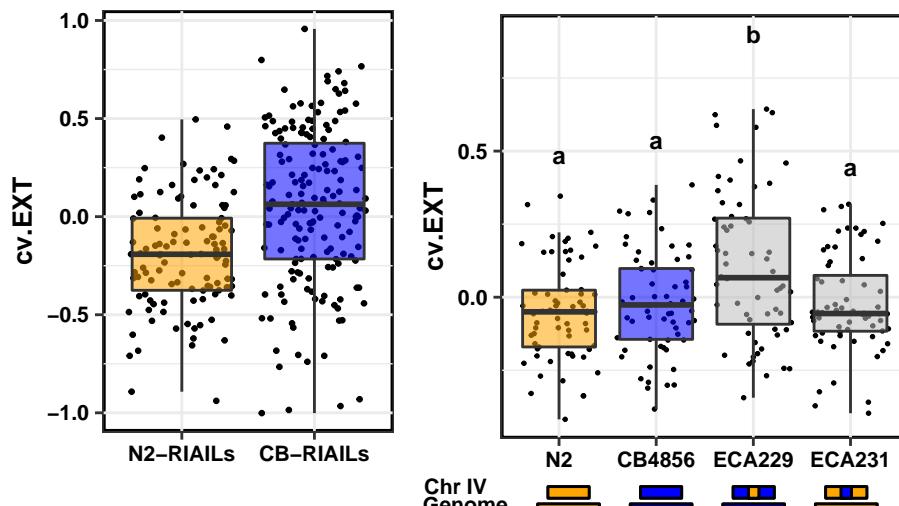
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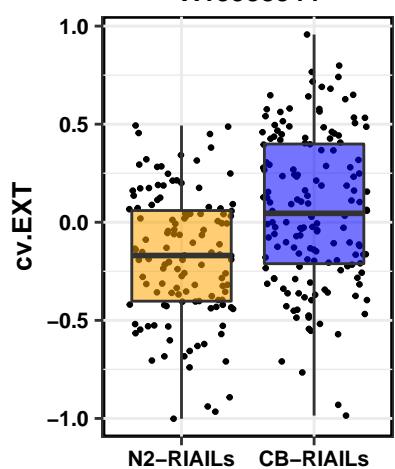
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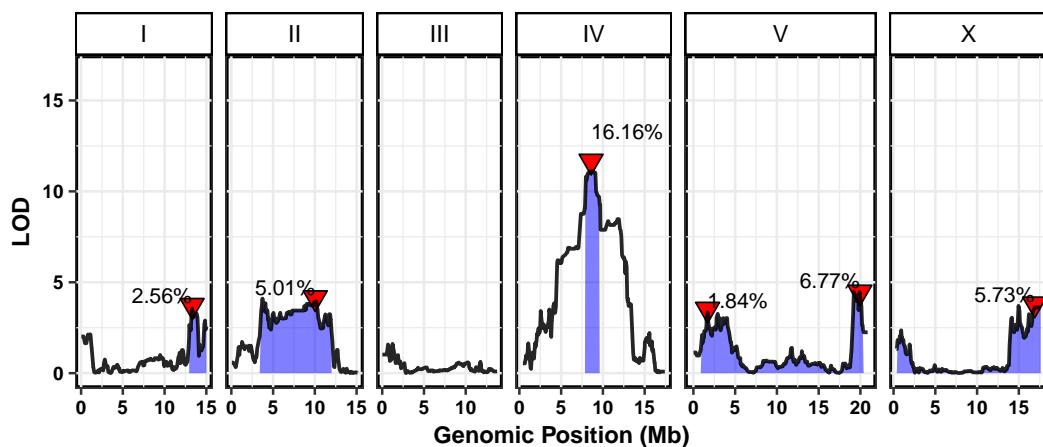
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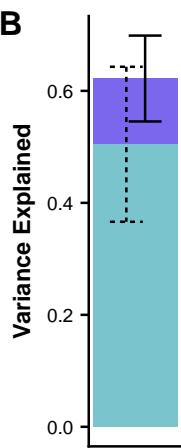
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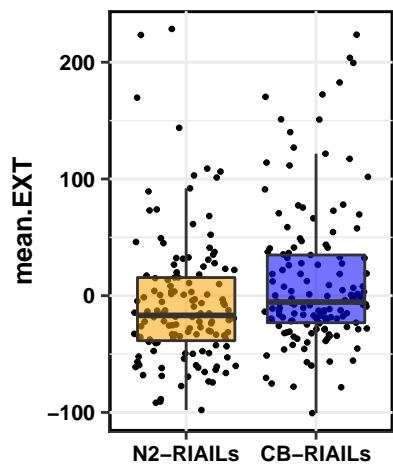
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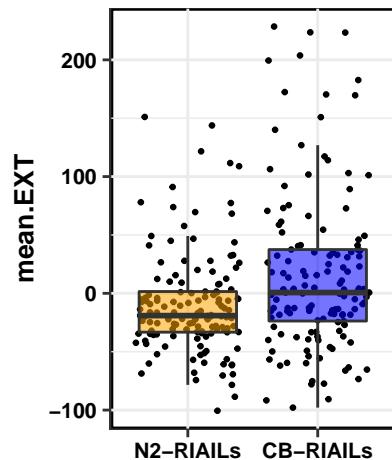
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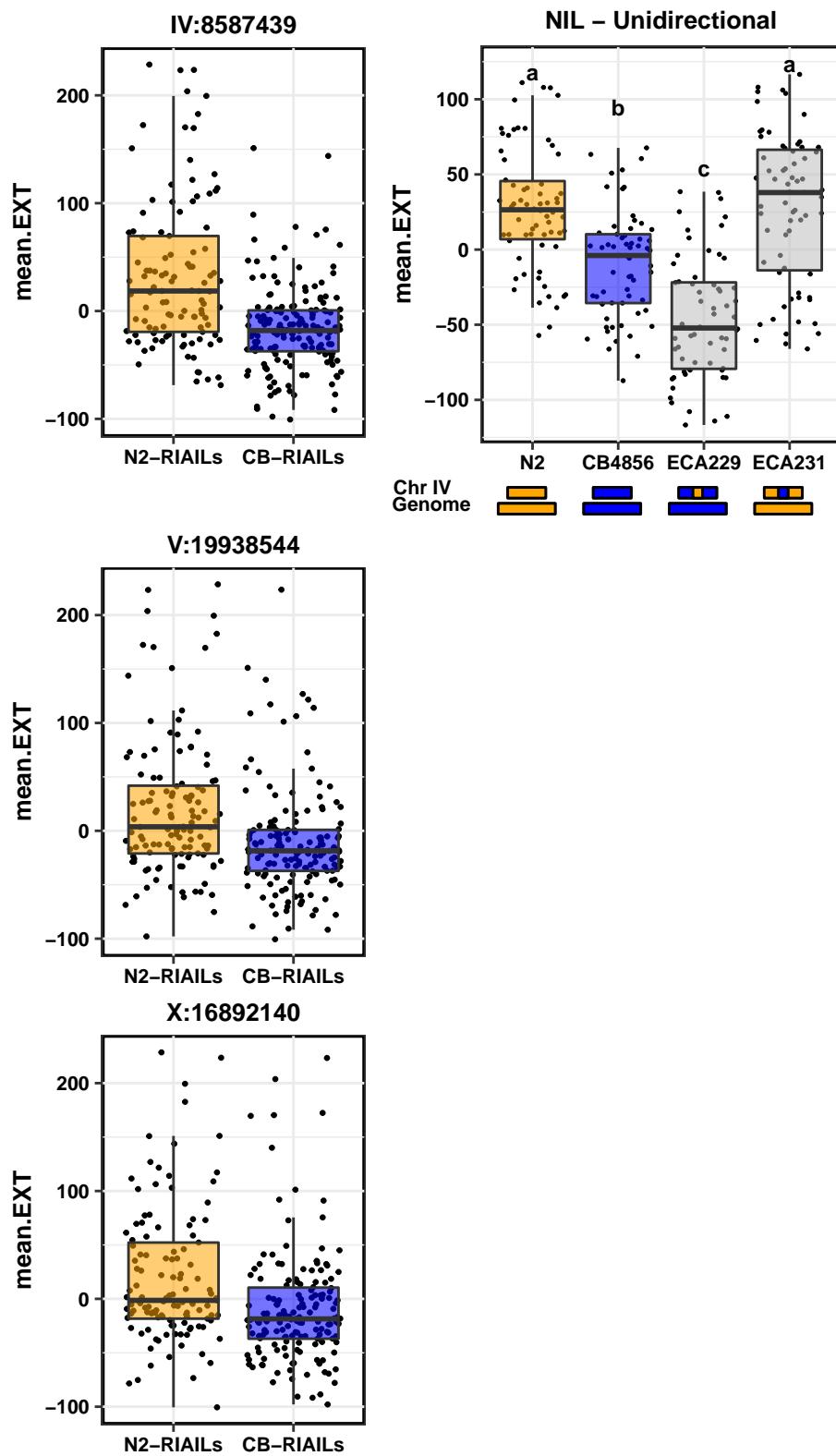
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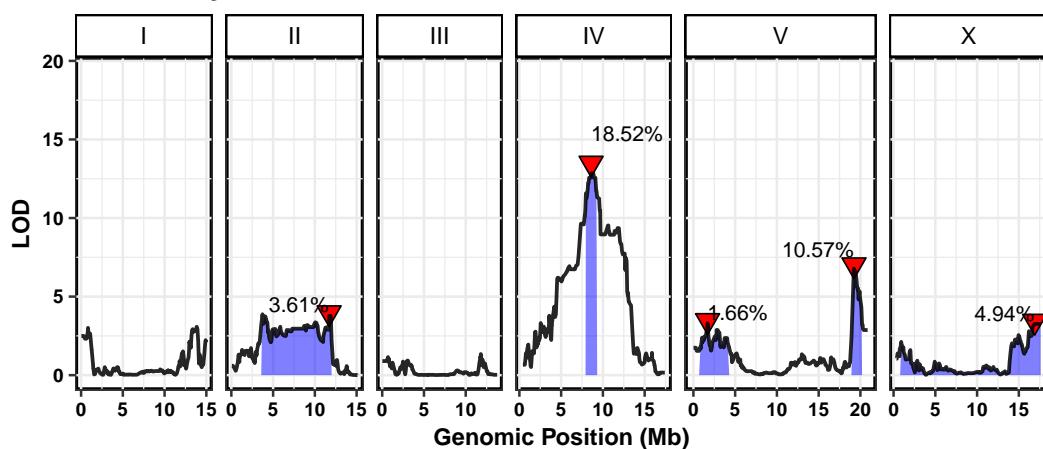
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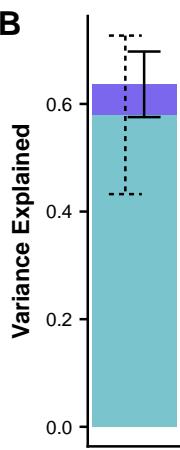
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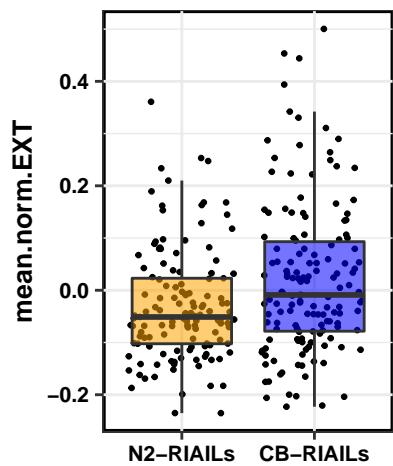
A tunicamycin.mean.norm.EXT



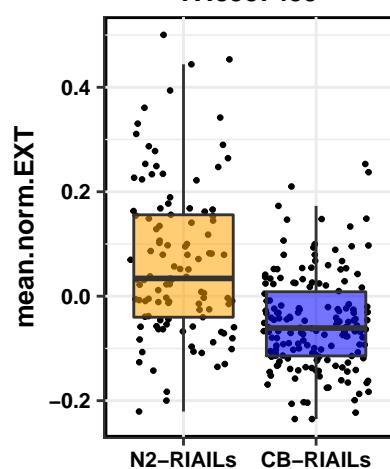
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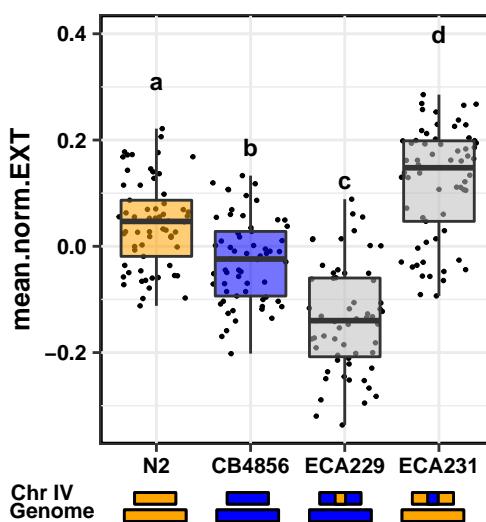
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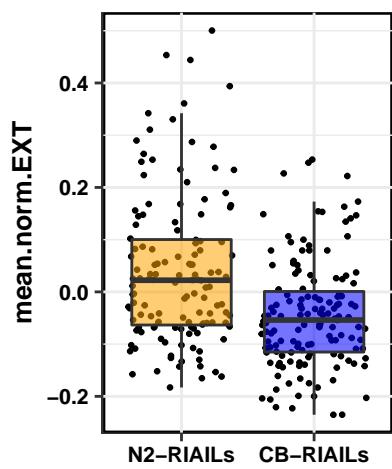
NIL – Bidirectional



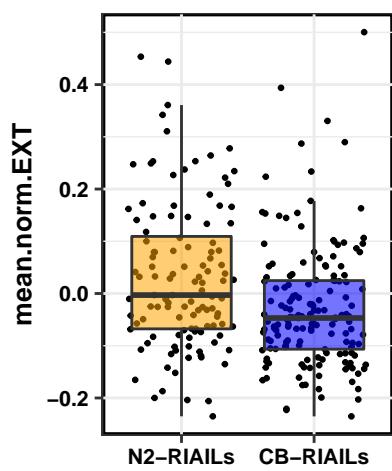
Chr IV
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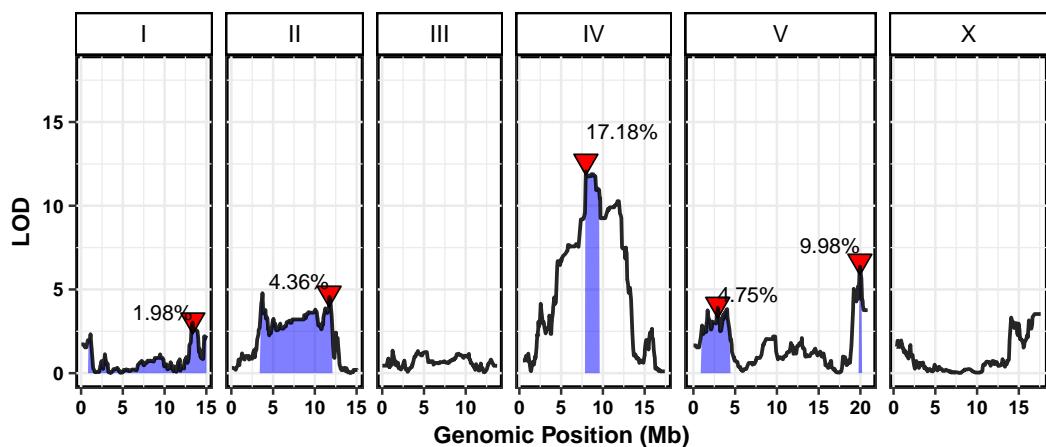
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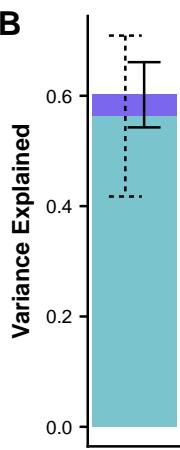
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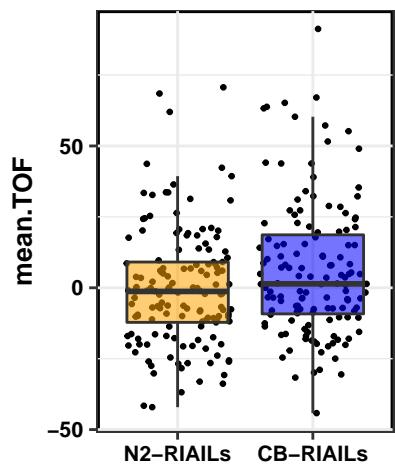
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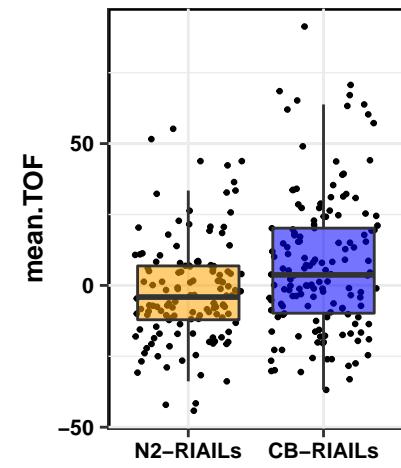
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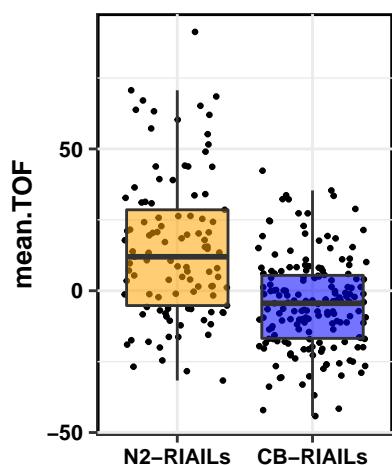
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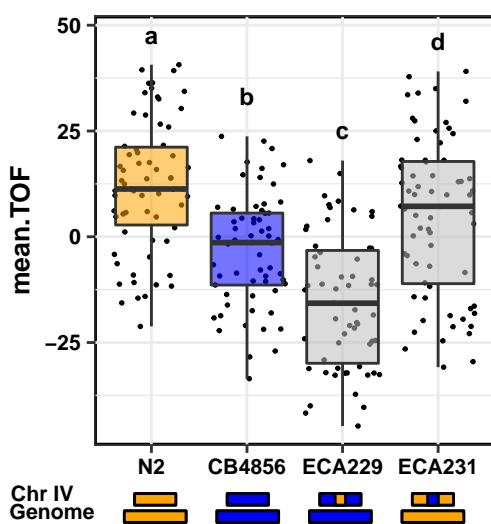
II:11709833



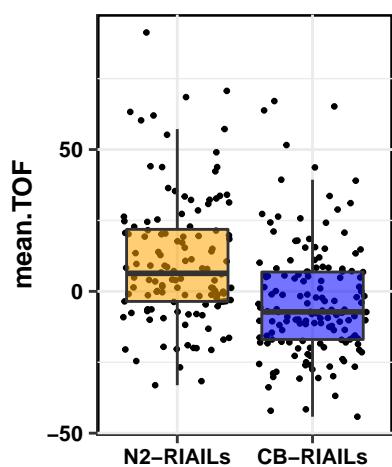
IV:7963446



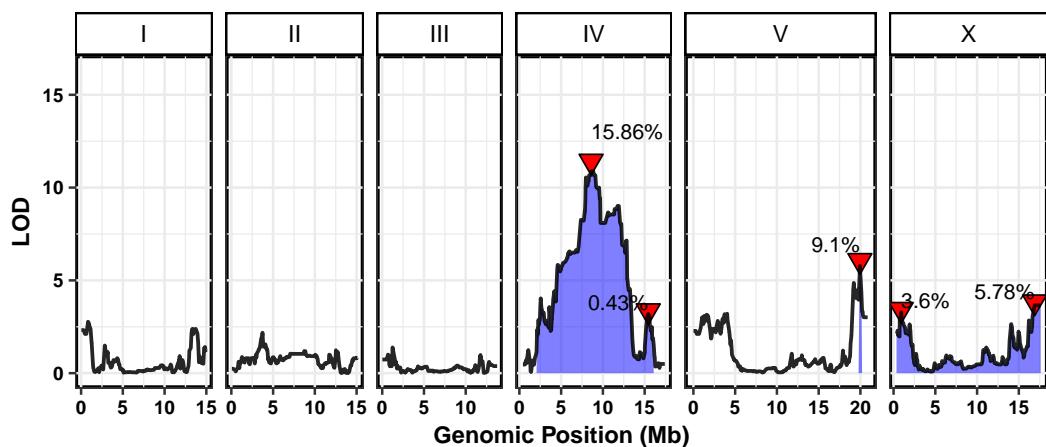
NIL – Unidirectional



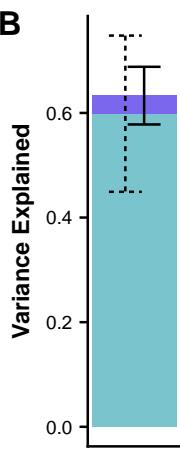
V:19938544



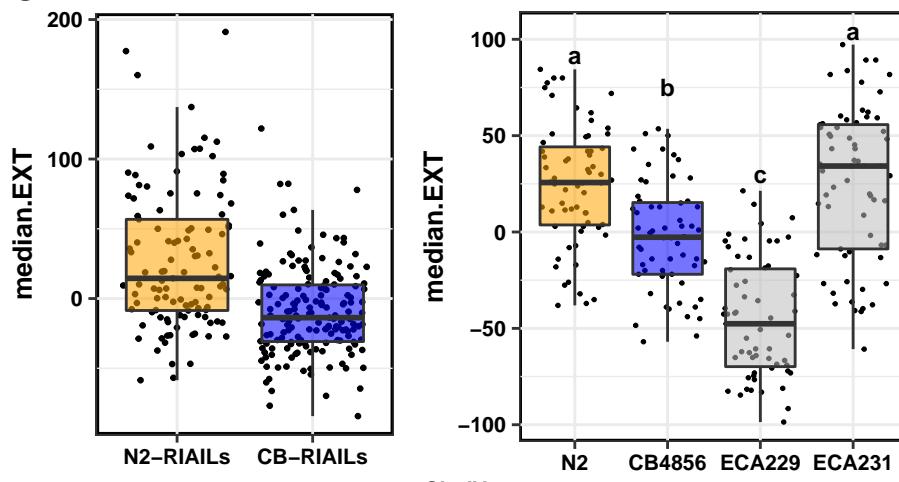
A tunicamycin.median.EXT



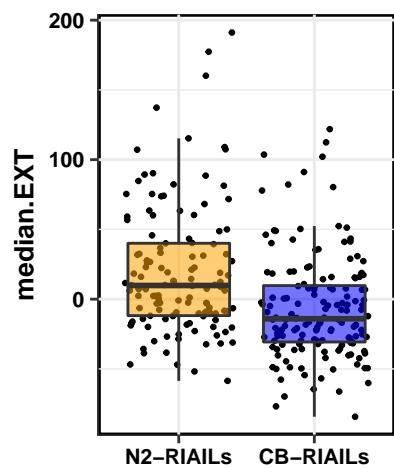
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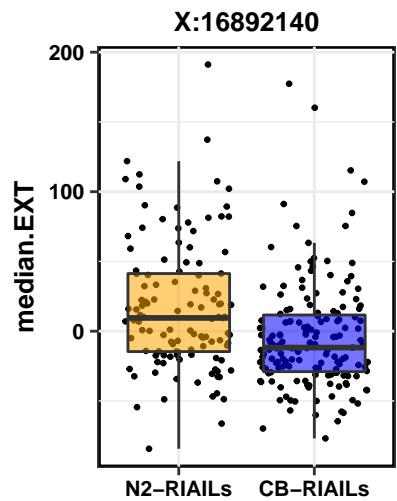


C IV:8587439

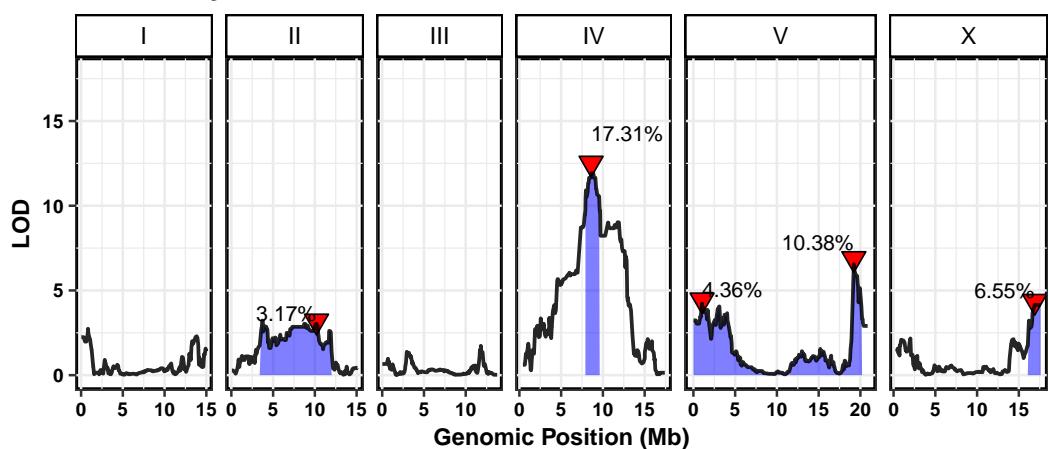


V:19938544

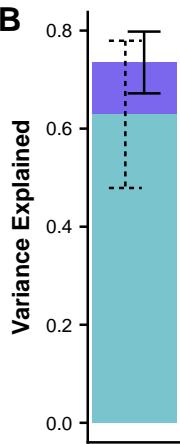




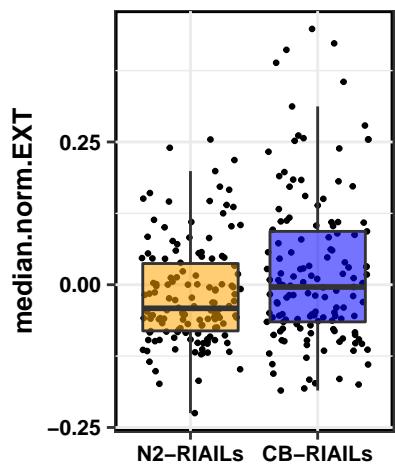
A tunicamycin.median.norm.EXT



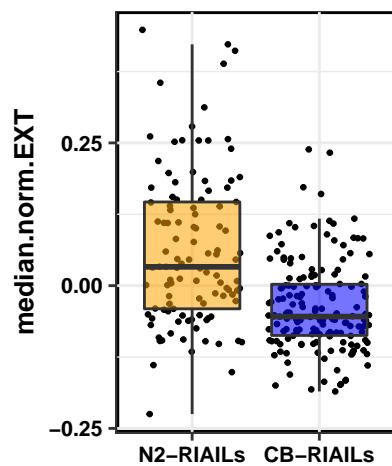
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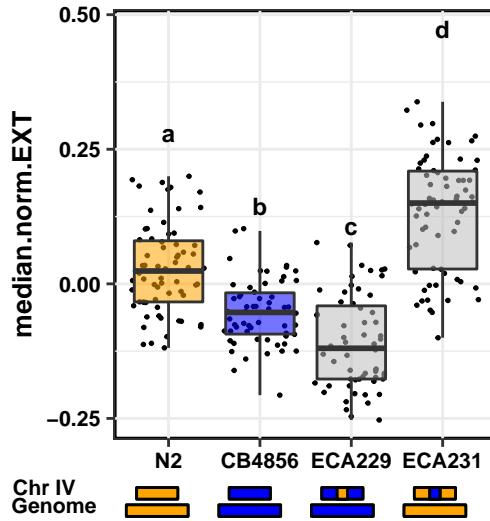
C II:10201103



IV:8587439

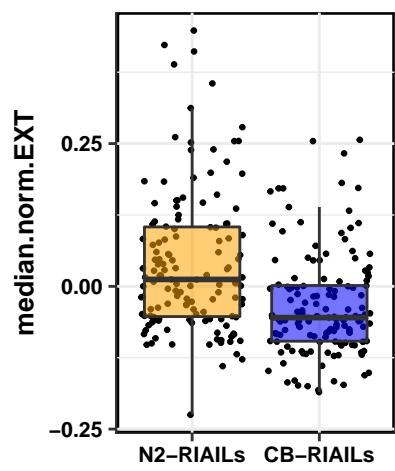


NIL – Bidirectional

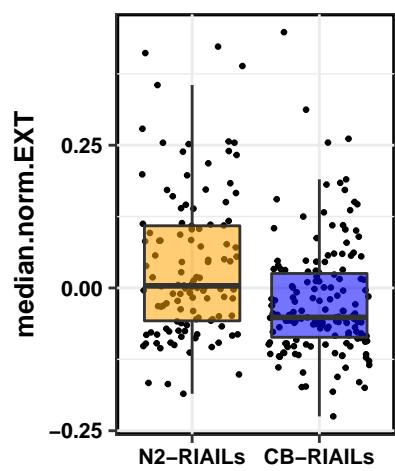


Chr IV
Genome

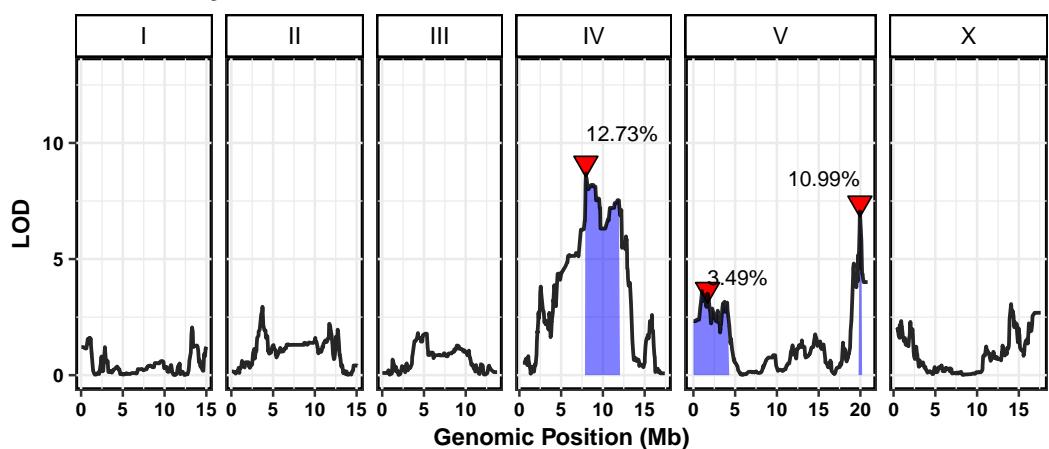
V:19210948



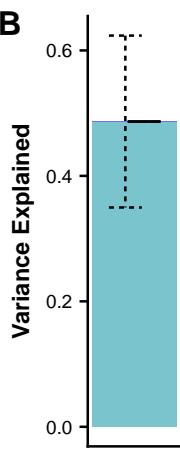
X:16892140



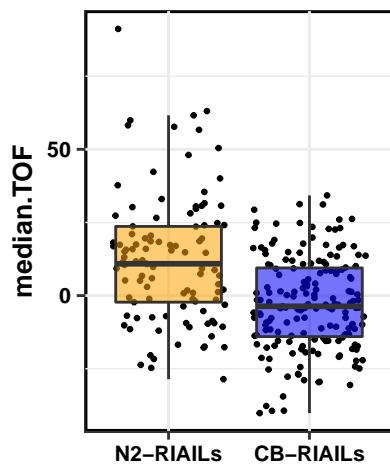
A tunicamycin.median.TOF



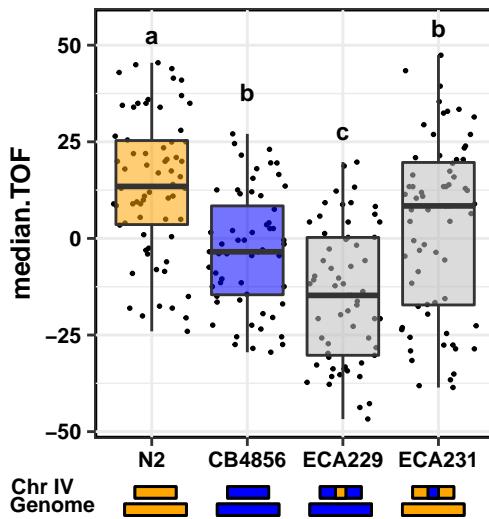
B



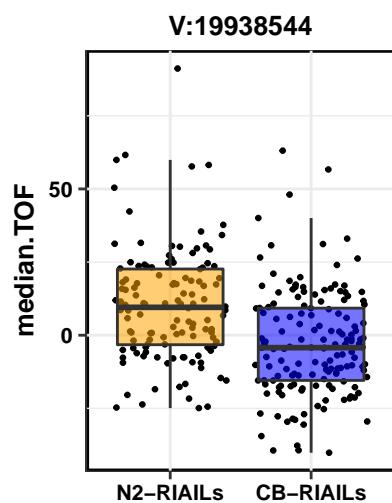
C IV:7963446



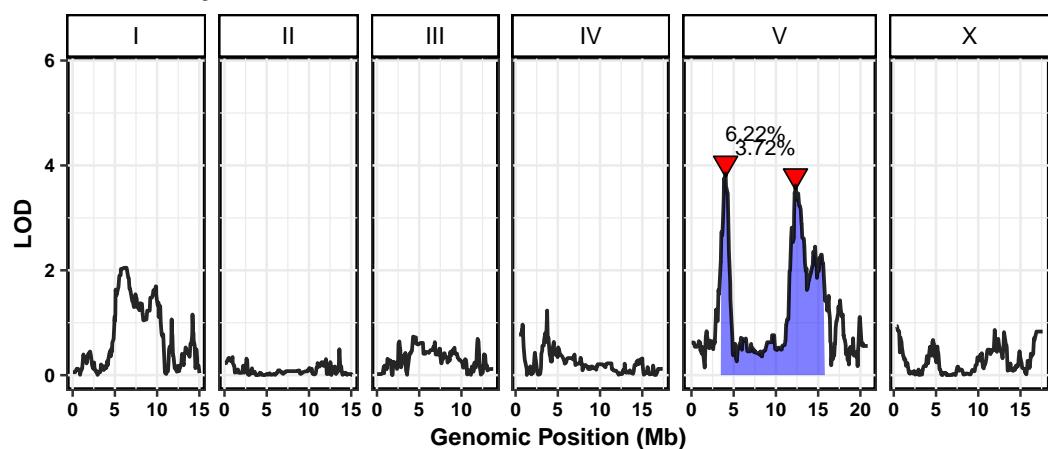
NIL – Unidirectional



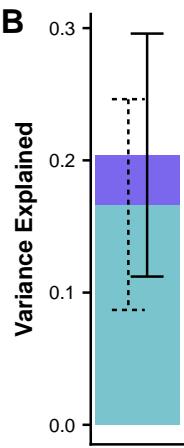
Chr IV
Genome



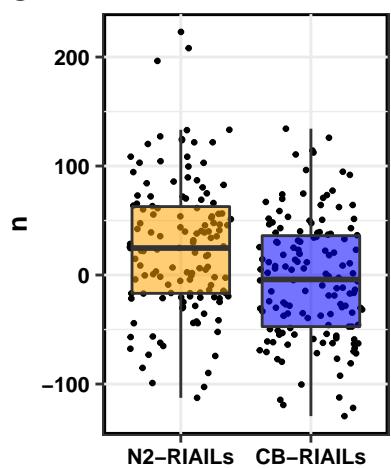
A *tunicamycin.n*



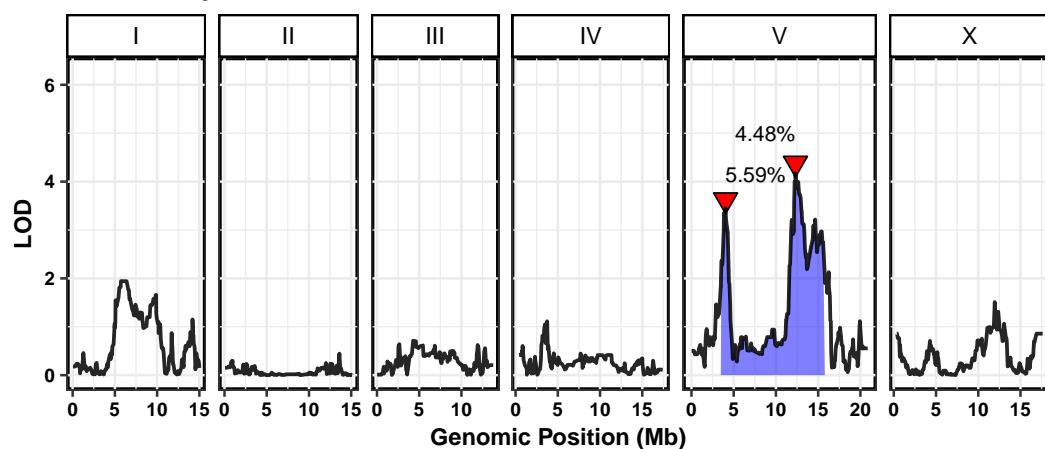
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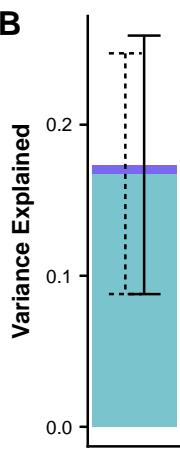
C V:4043502



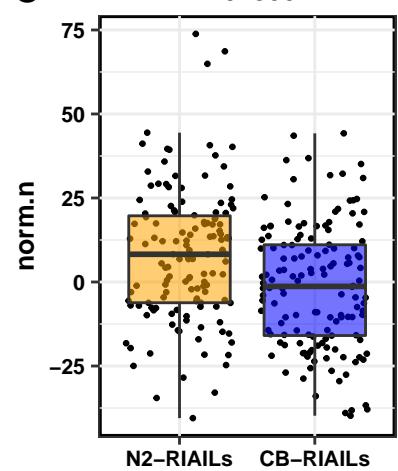
A tunicamycin.norm.n



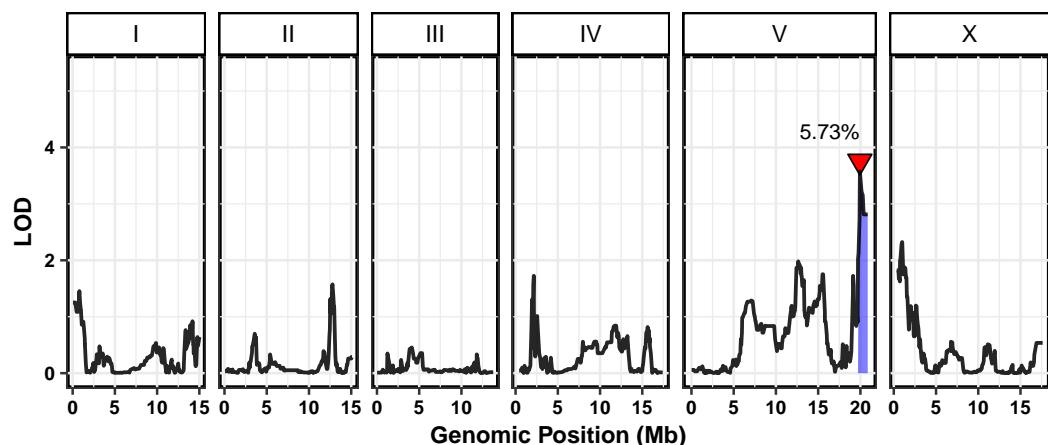
B



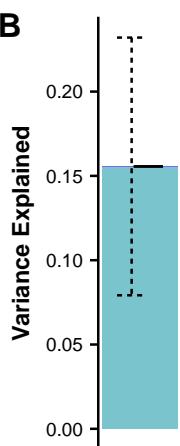
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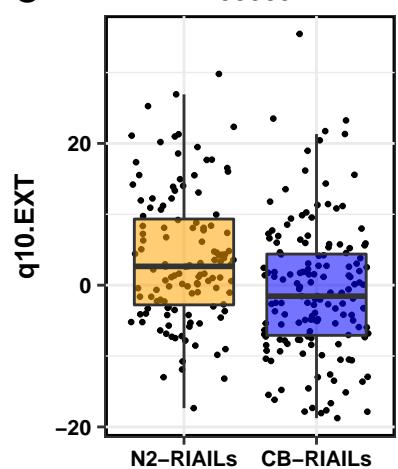
A tunicamycin.q10.EXT



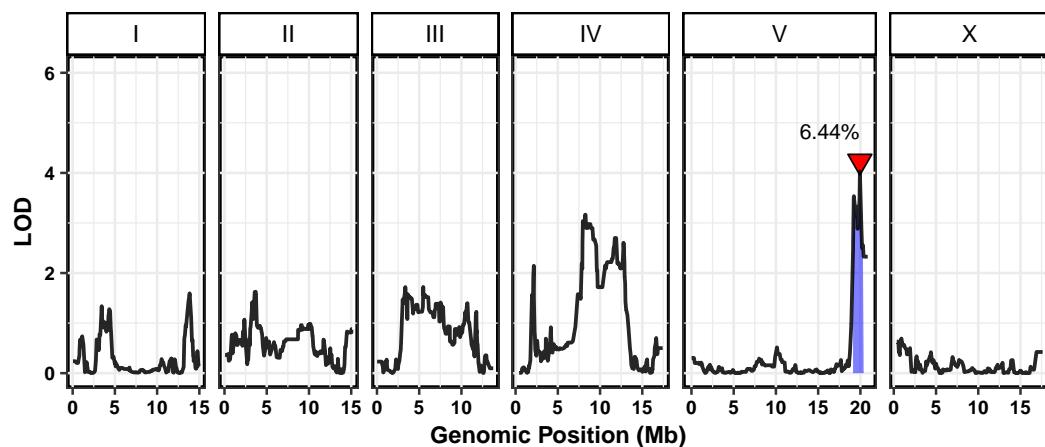
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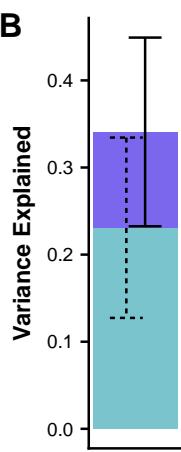
C V:19938544



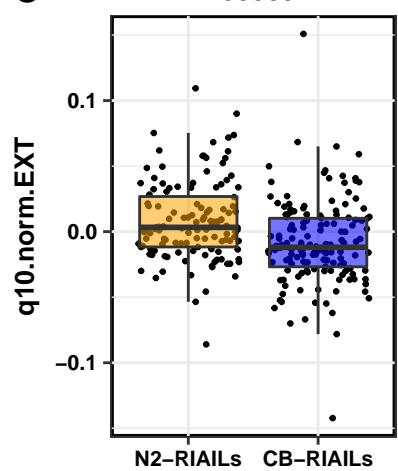
A tunicamycin.q10.norm.EXT



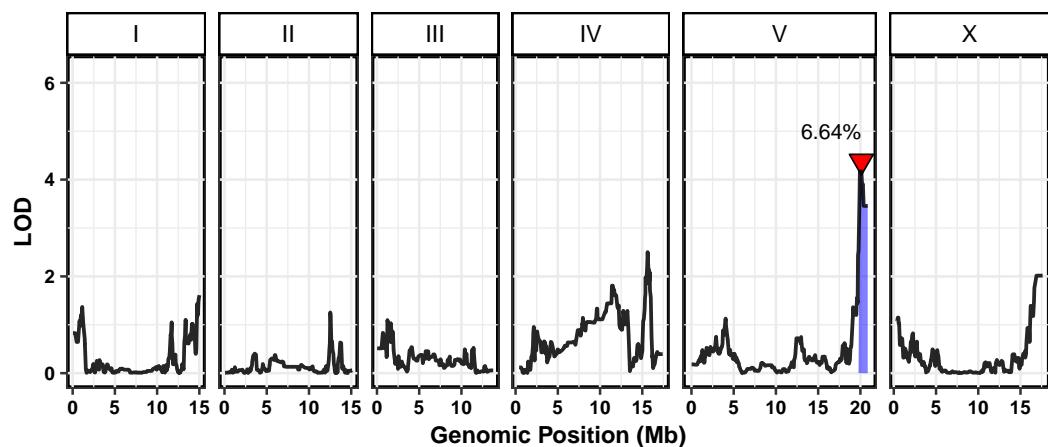
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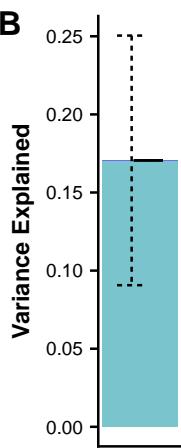
C V:19938544



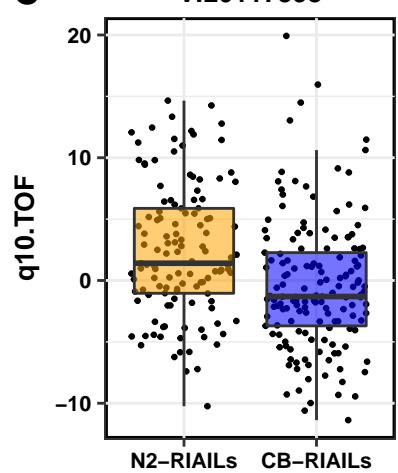
A tunicamycin.q10.TOF



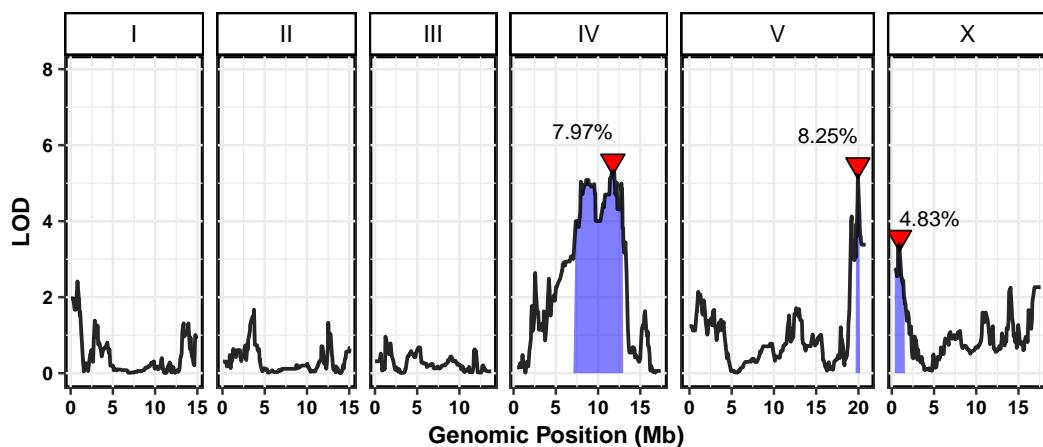
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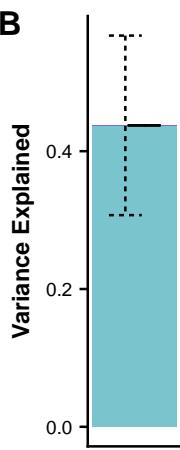
C V:20117398



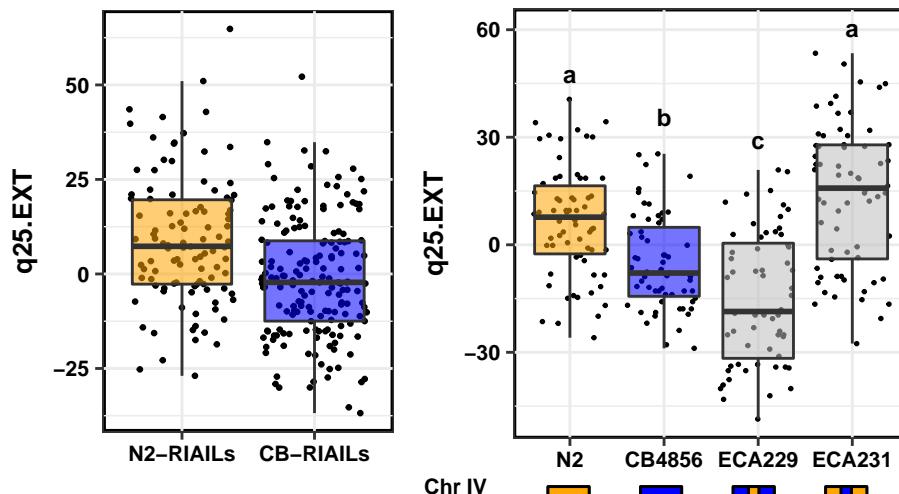
A tunicamycin.q25.EXT



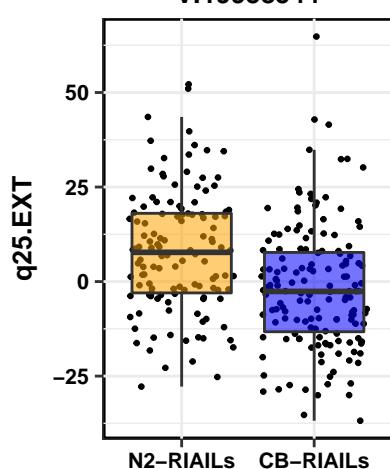
B

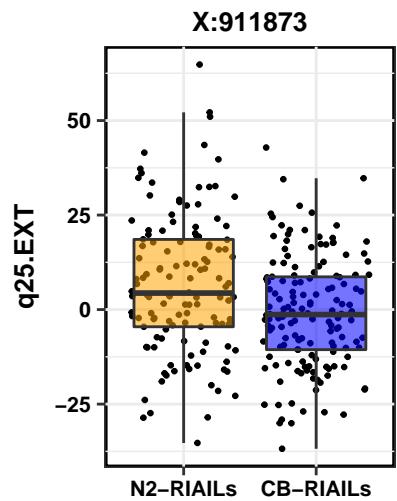


C IV:11747270

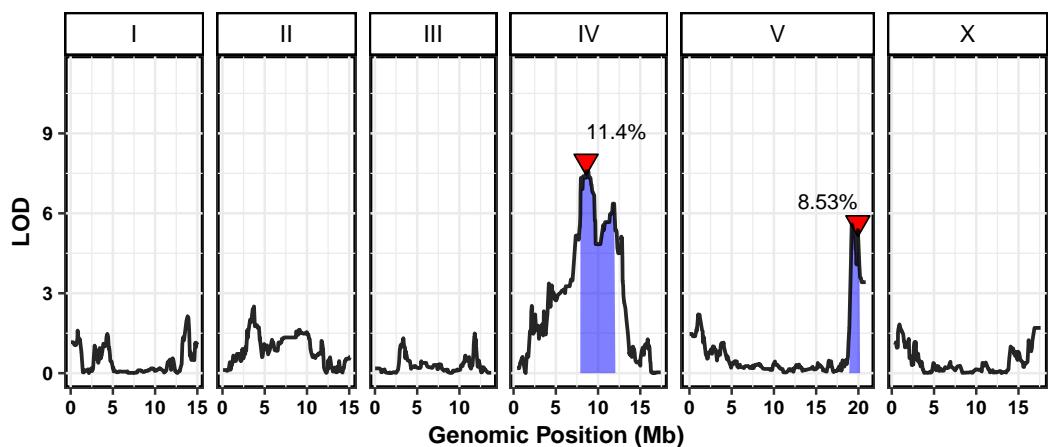
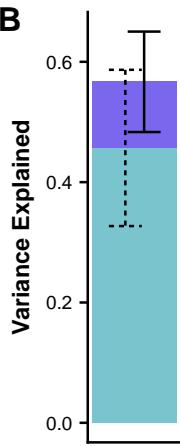


V:19938544

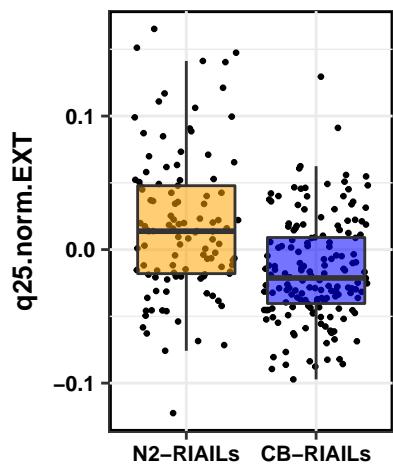




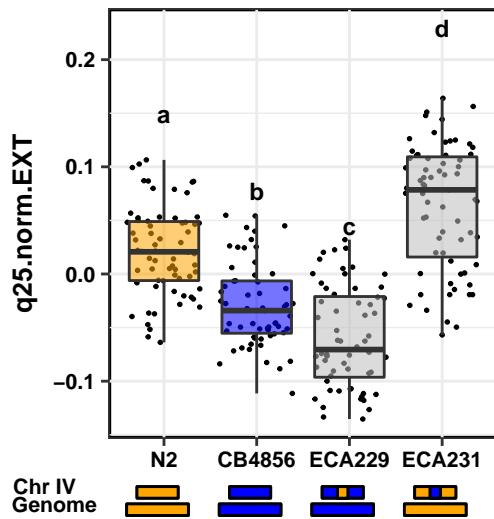
A tunicamycin.q25.norm.EXT


B


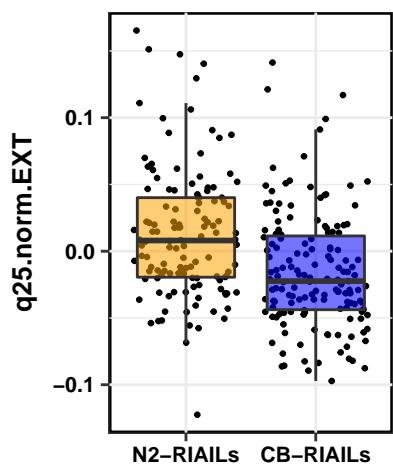
C IV:8587439



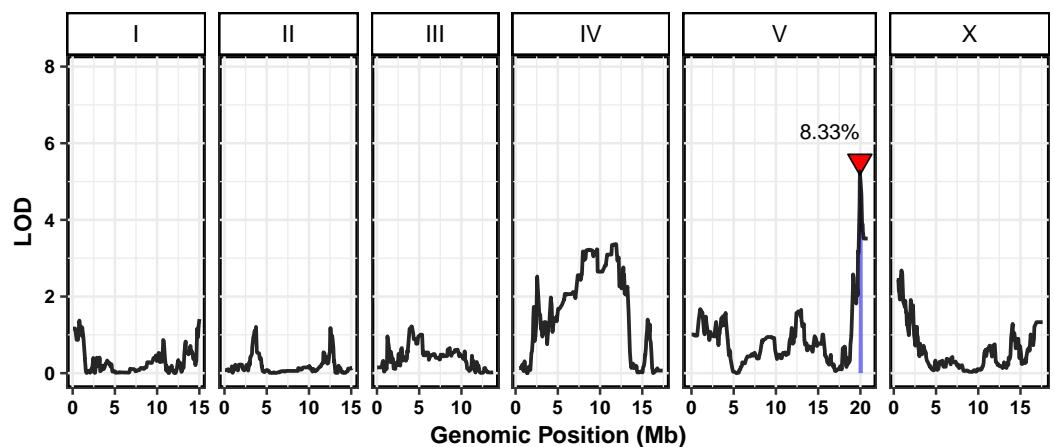
NIL – Bidirectional



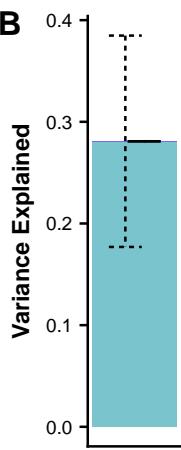
V:19938544



A tunicamycin.q25.TOF

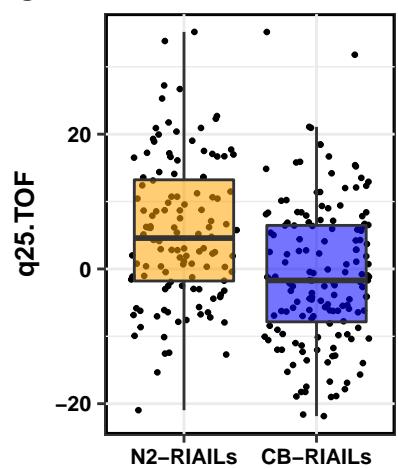


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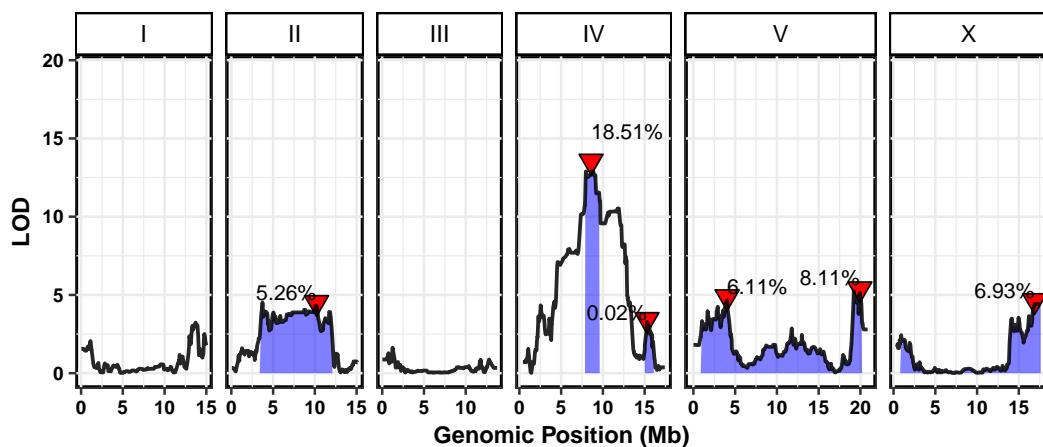


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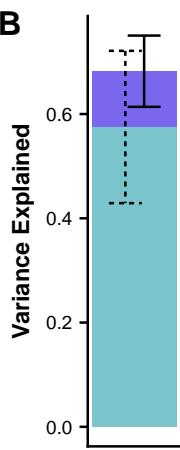
V:19938544



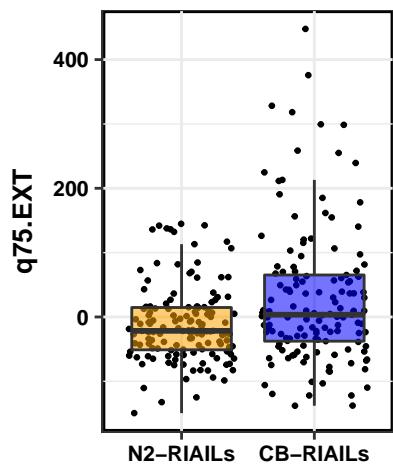
A tunicamycin.q75.EXT



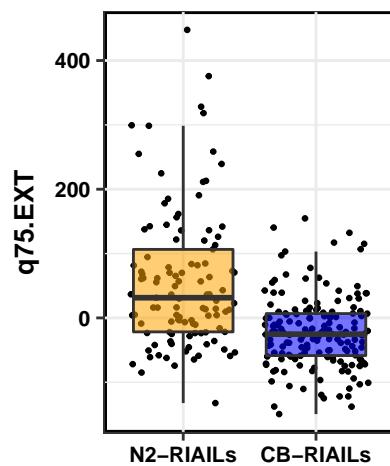
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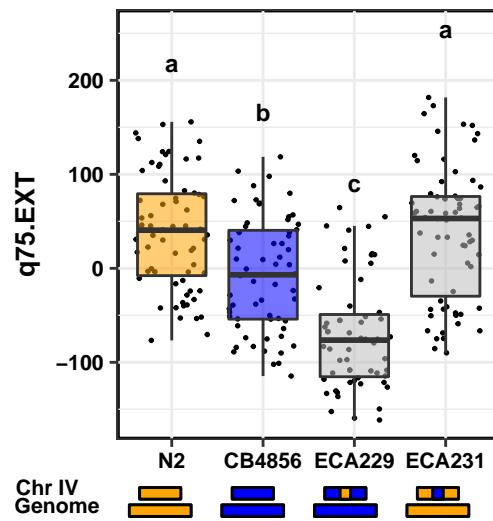
C II:10201103

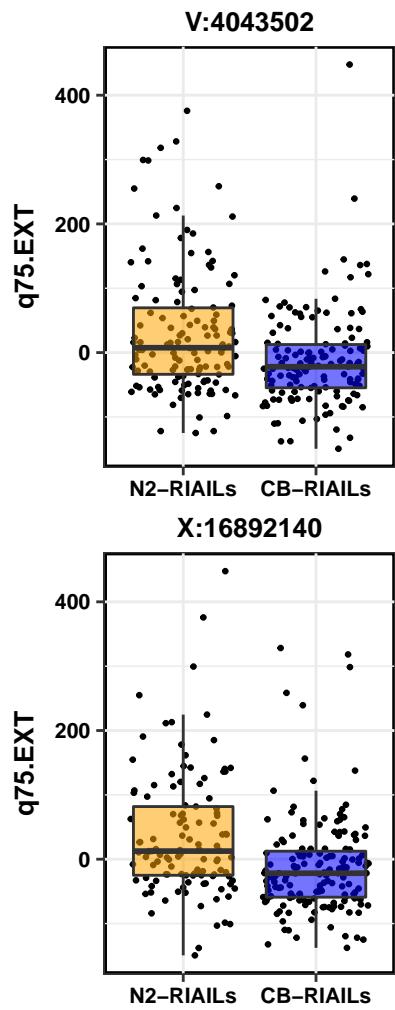


IV:8587439

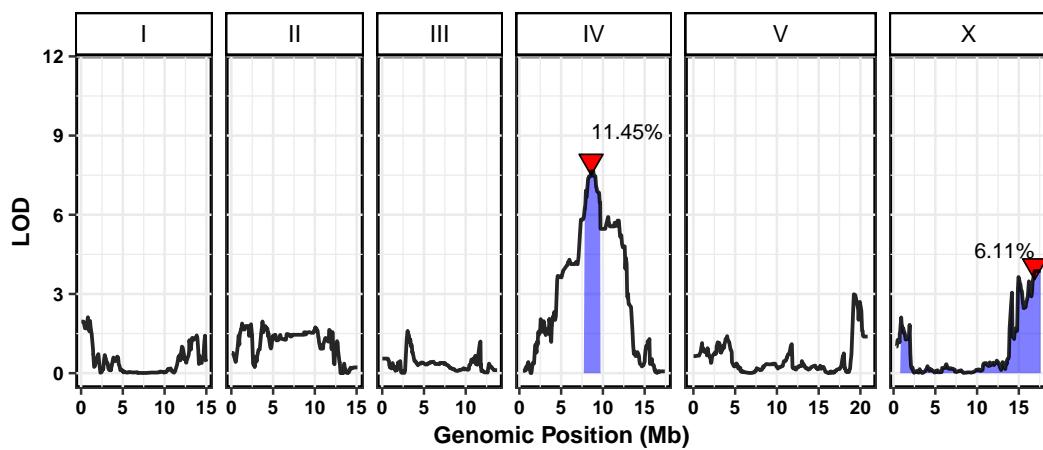


NIL – Unidirectional

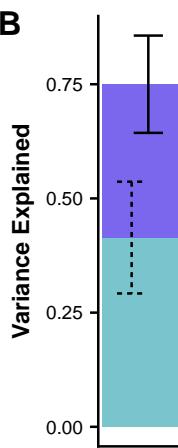




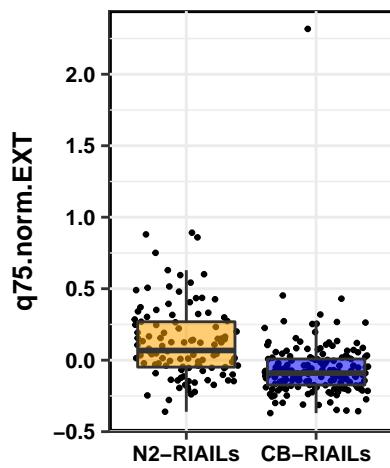
A tunicamycin.q75.norm.EXT



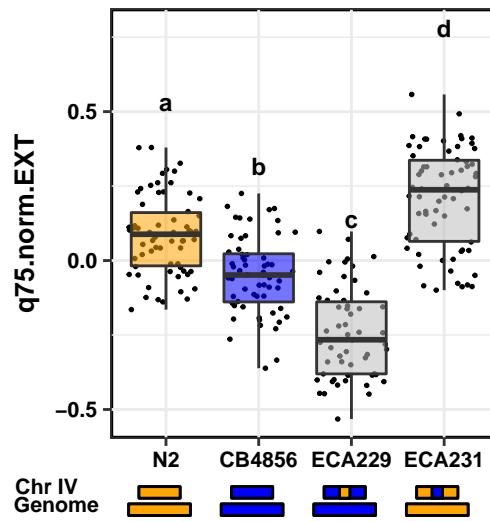
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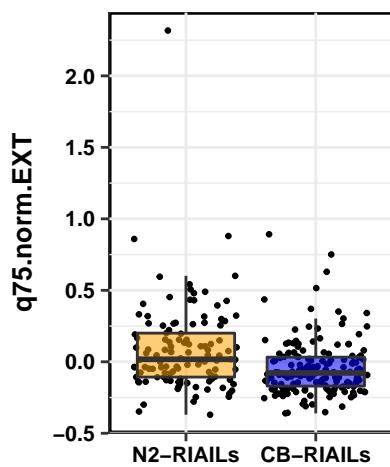
C IV:8587439



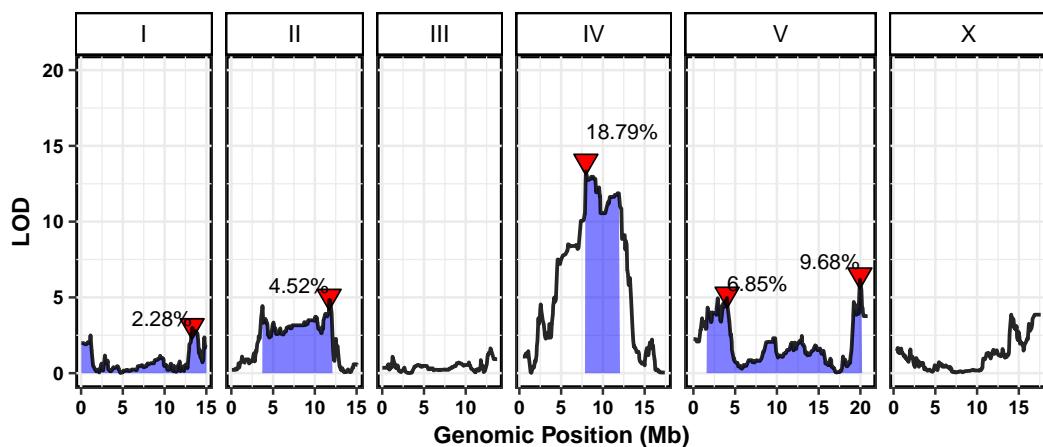
NIL – Bidirectional



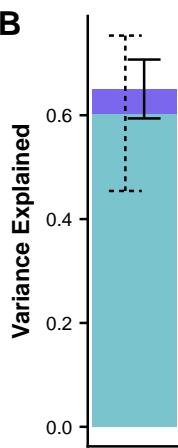
X:16892140



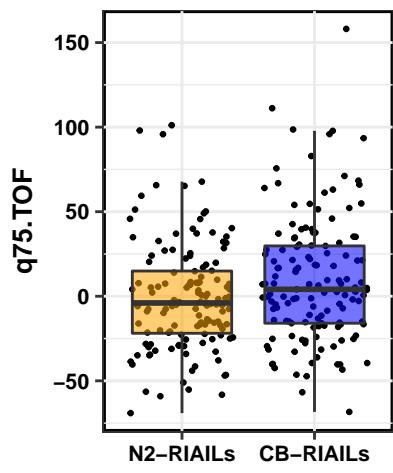
A tunicamycin.q75.TOF



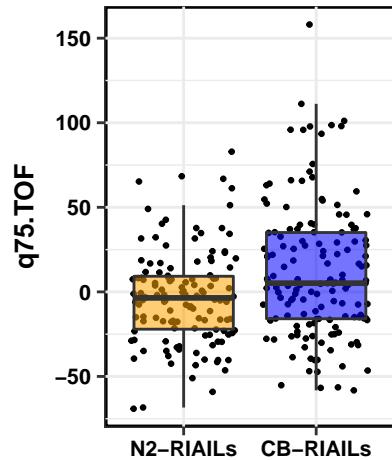
B

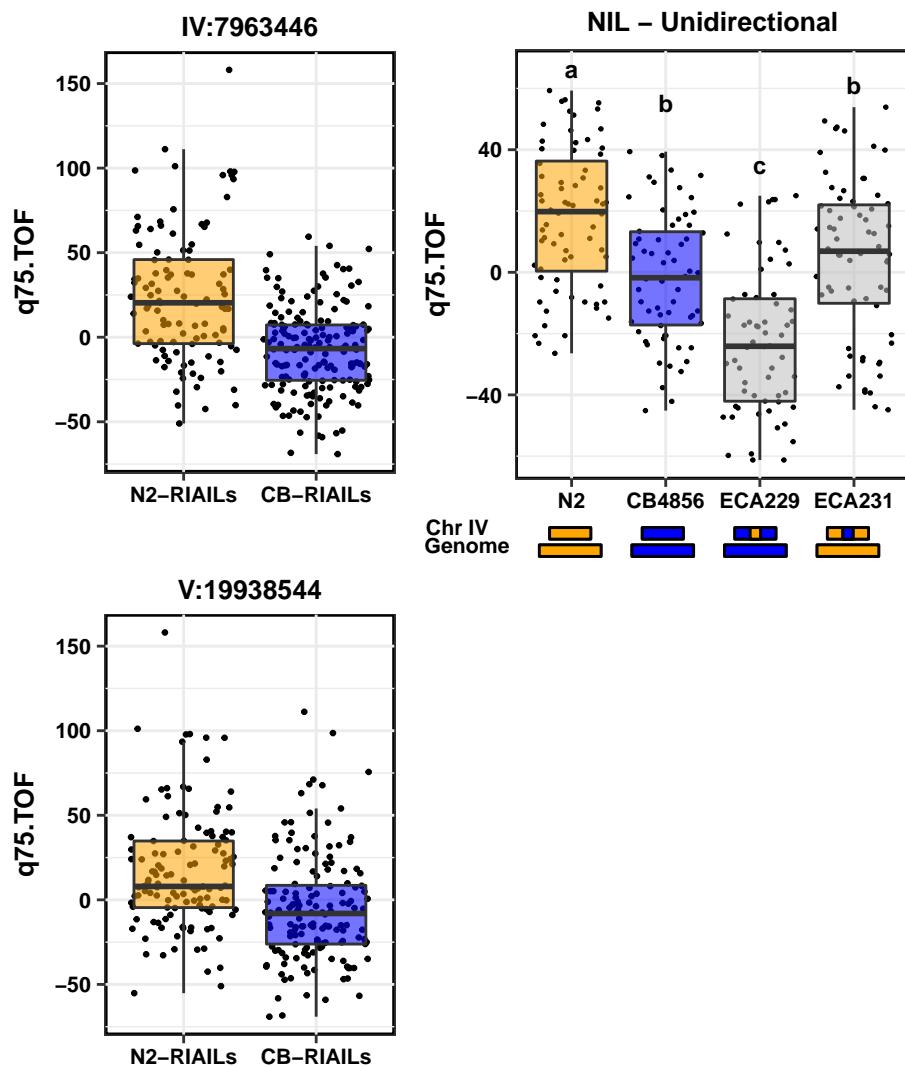


C I:13294213

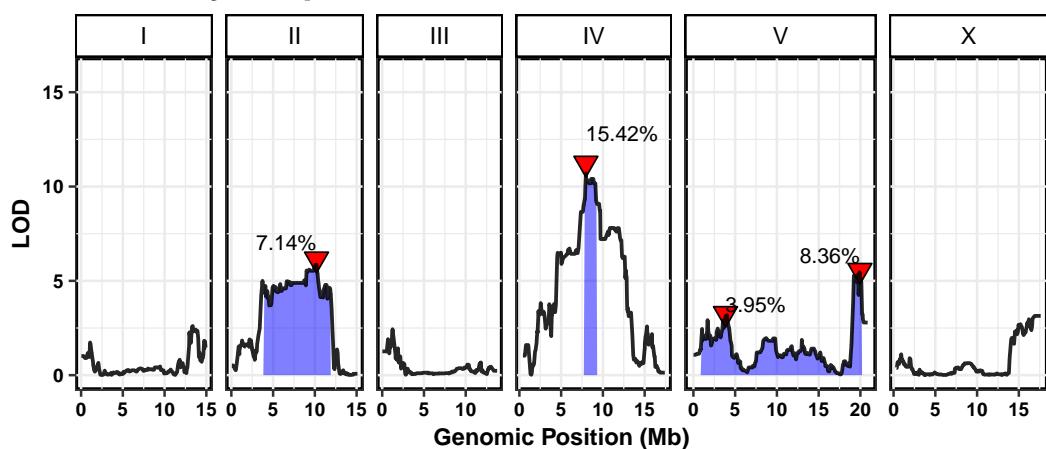


II:11709833

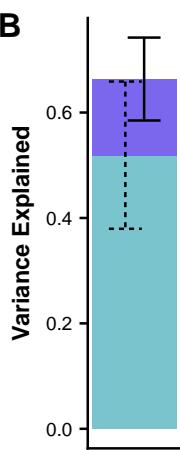




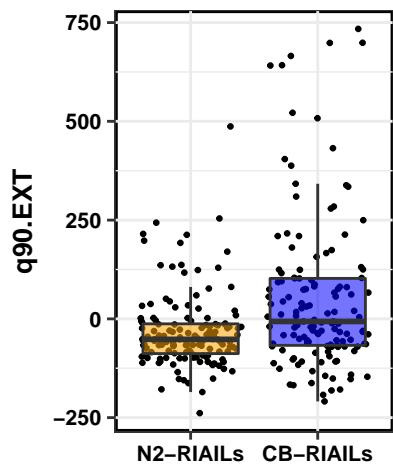
A tunicamycin.q90.EXT



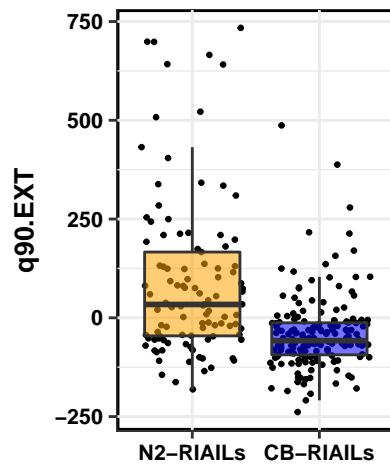
B



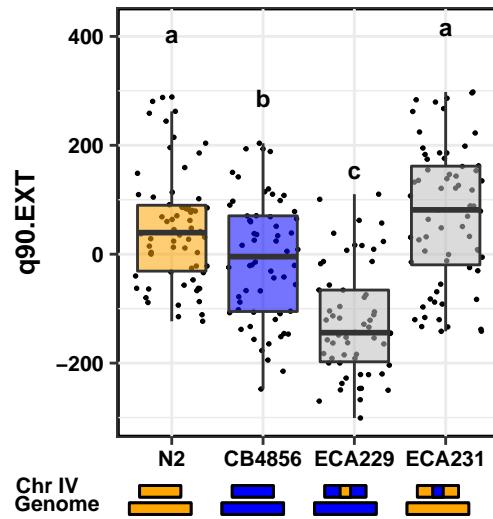
C II:10201103



IV:7963446

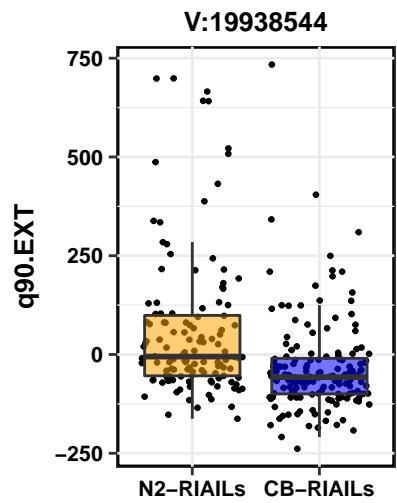


NIL – Unidirectional

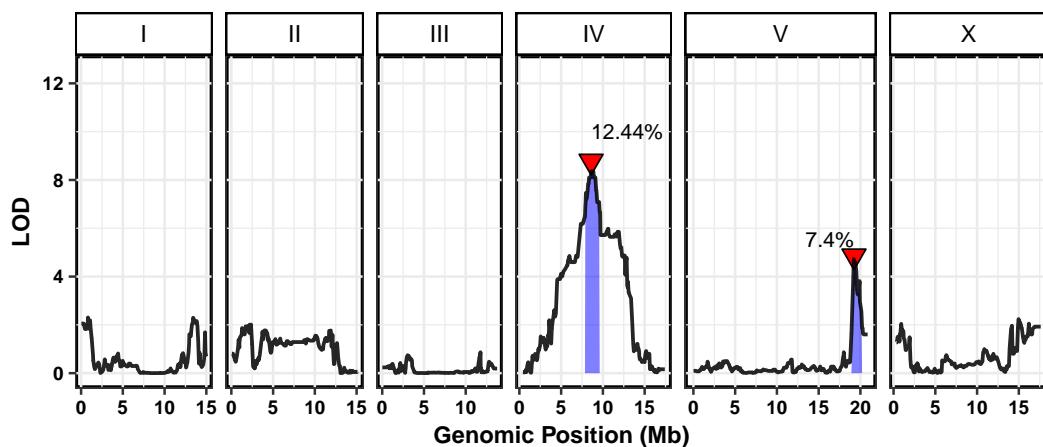


Chr IV
Genome

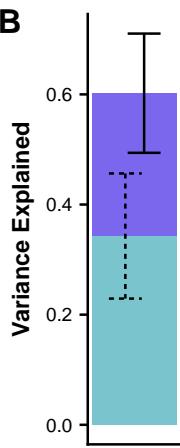




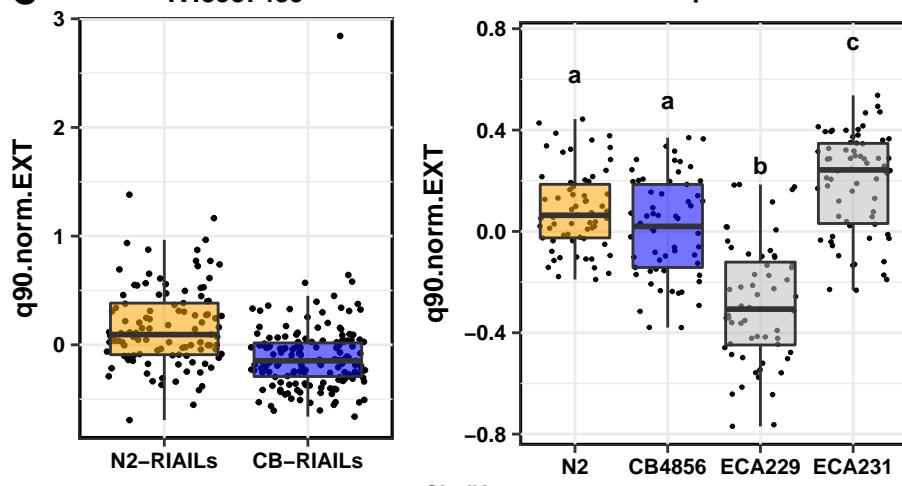
A tunicamycin.q90.norm.EXT



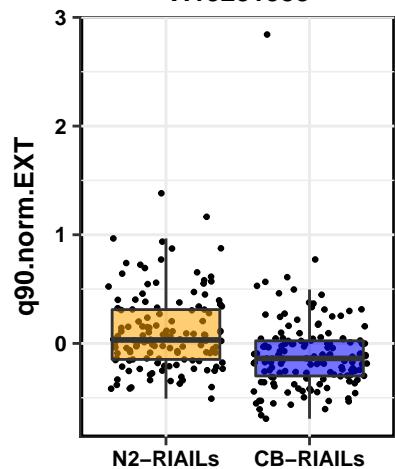
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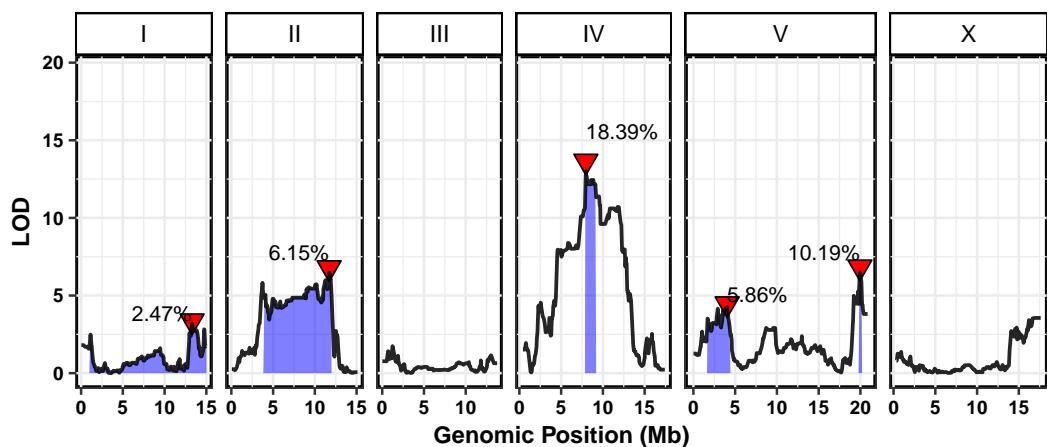
C IV:8587439



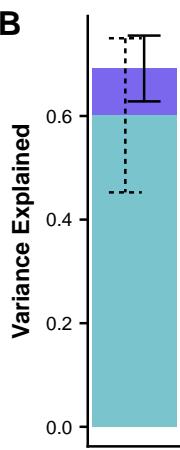
V:19231588



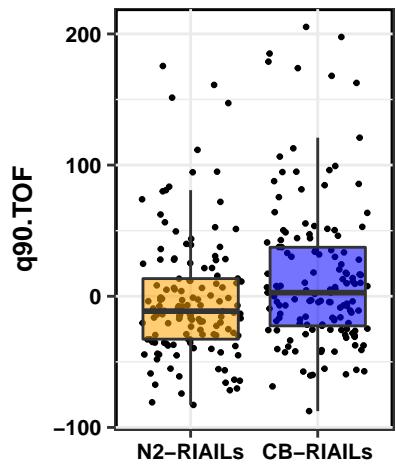
A tunicamycin.q90.TOF



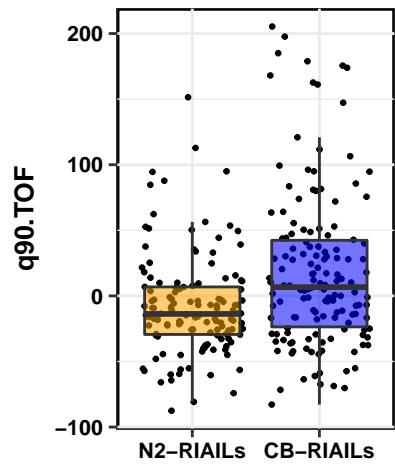
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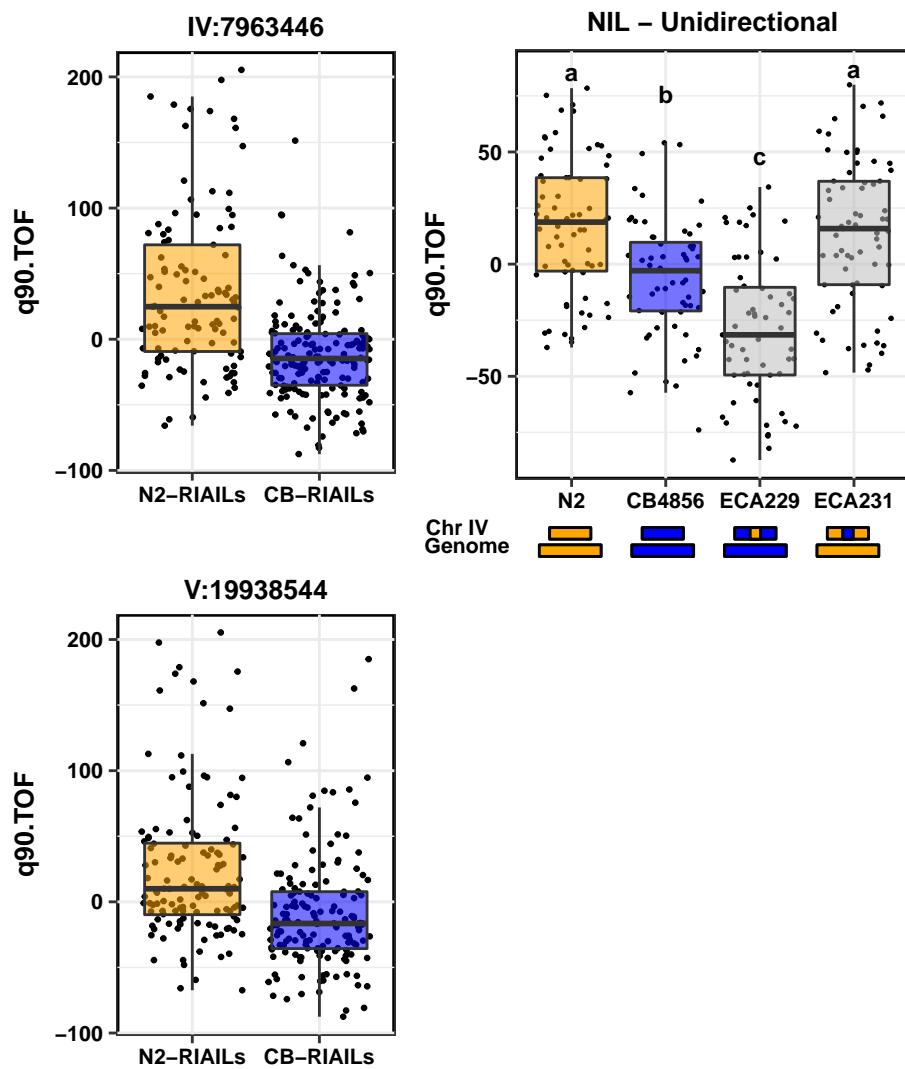


C I:13294213

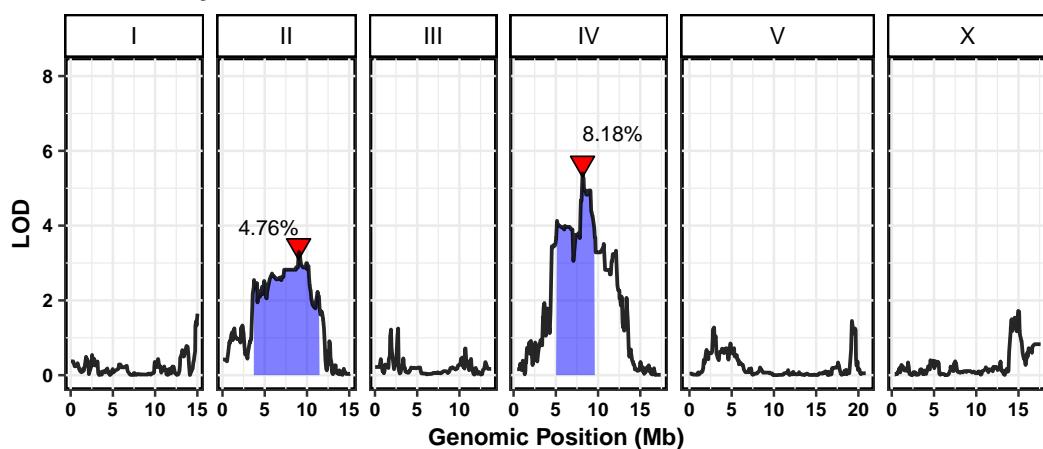


II:11709833

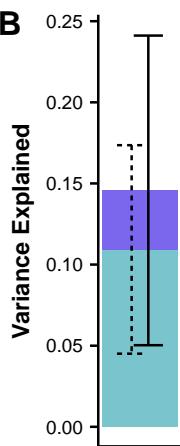




A tunicamycin.var.TOF

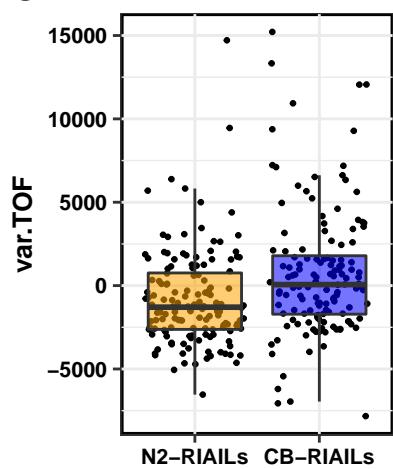


B

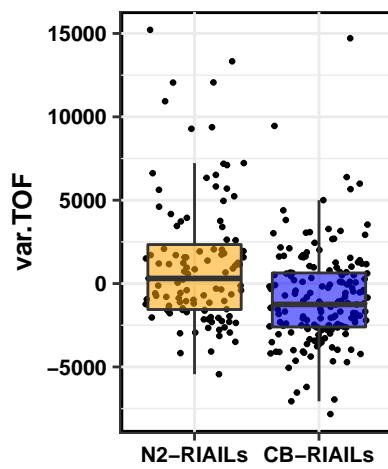


C

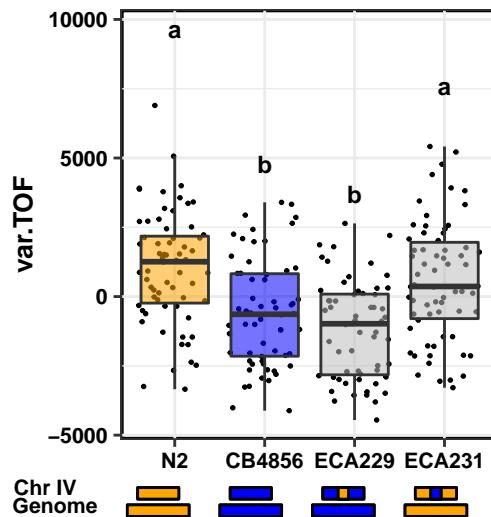
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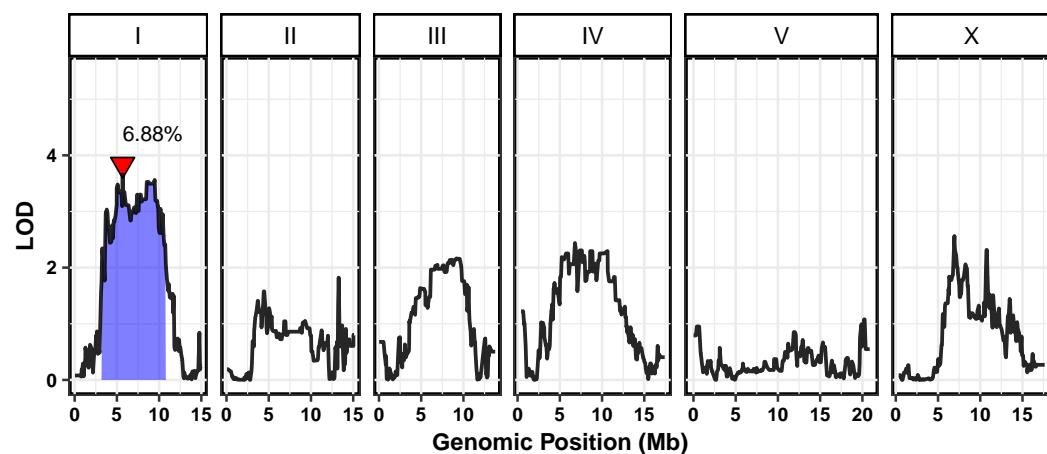
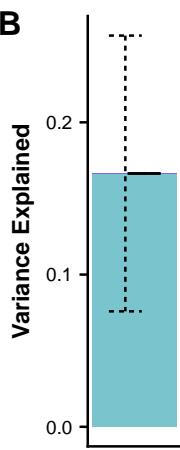
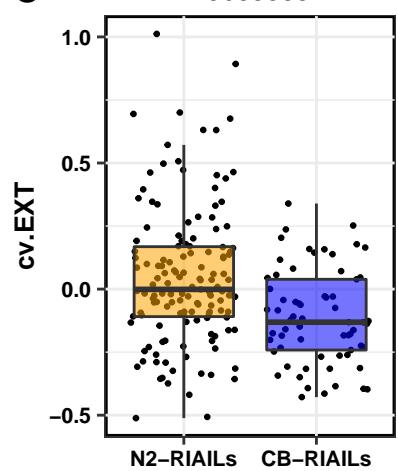


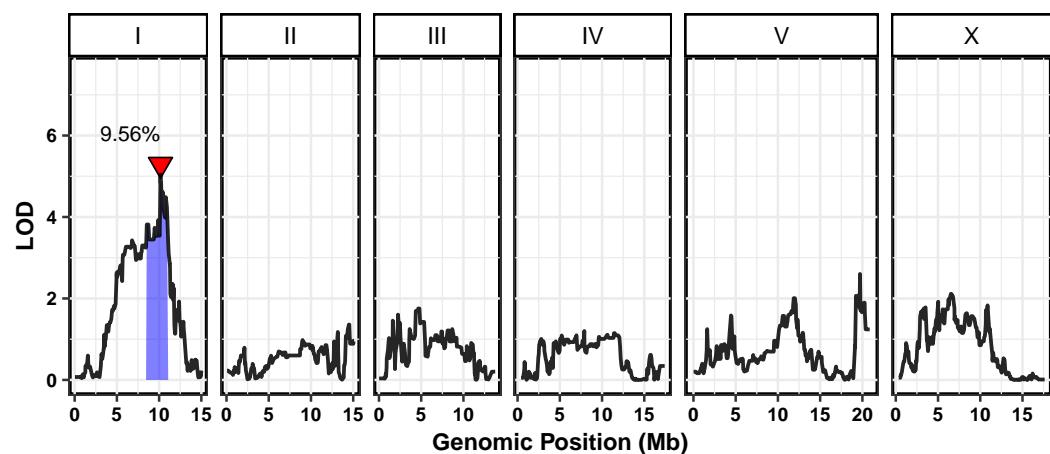
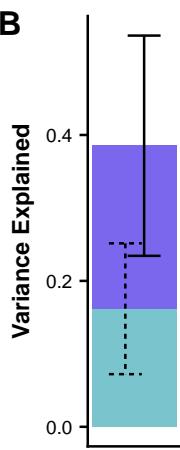
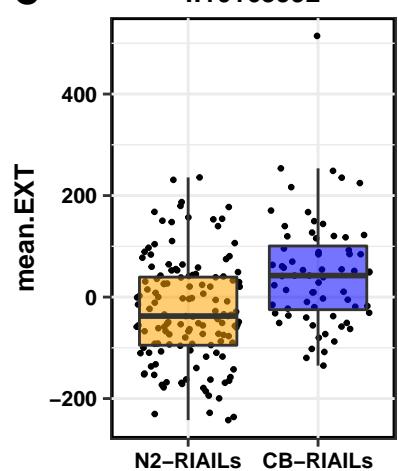
IV:8162297

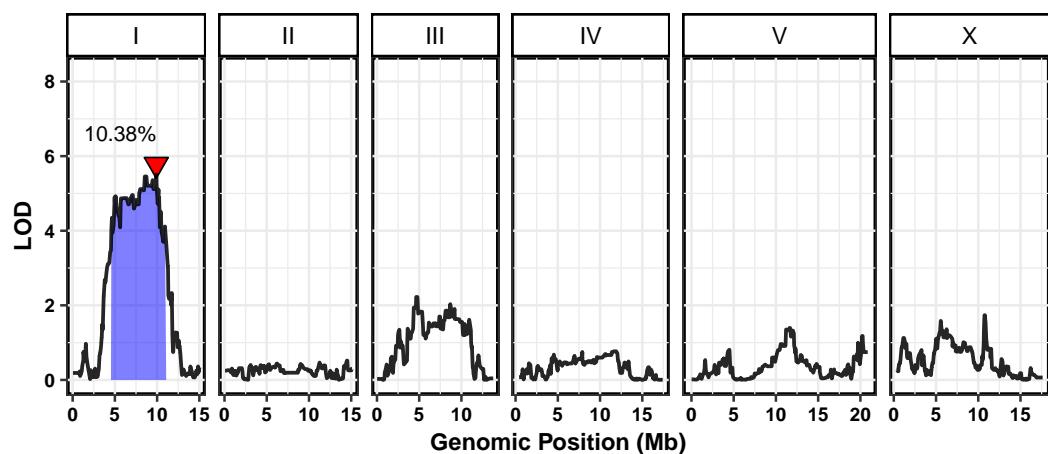
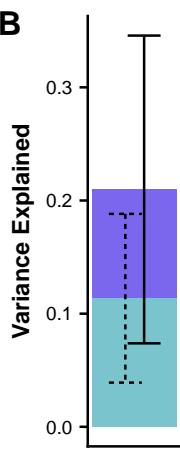
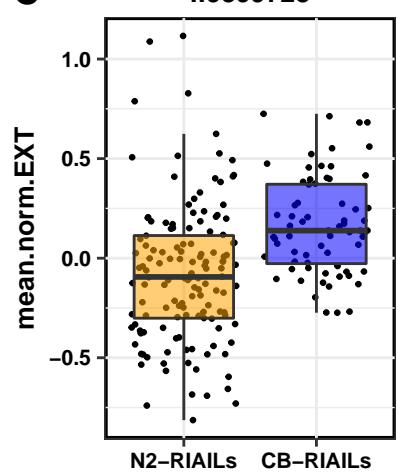


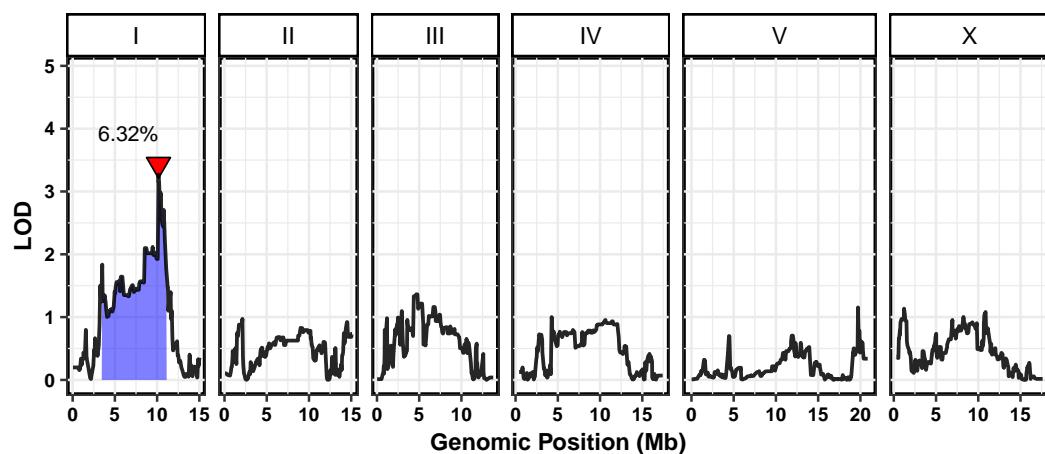
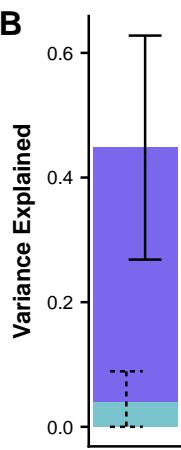
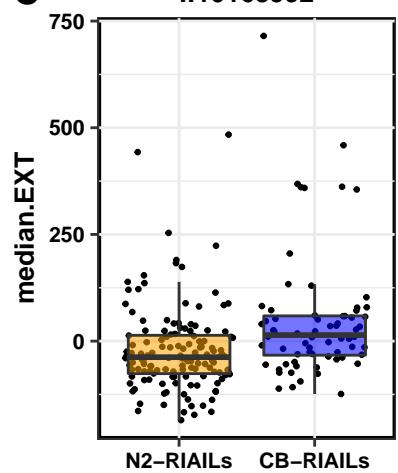
NIL – No effect

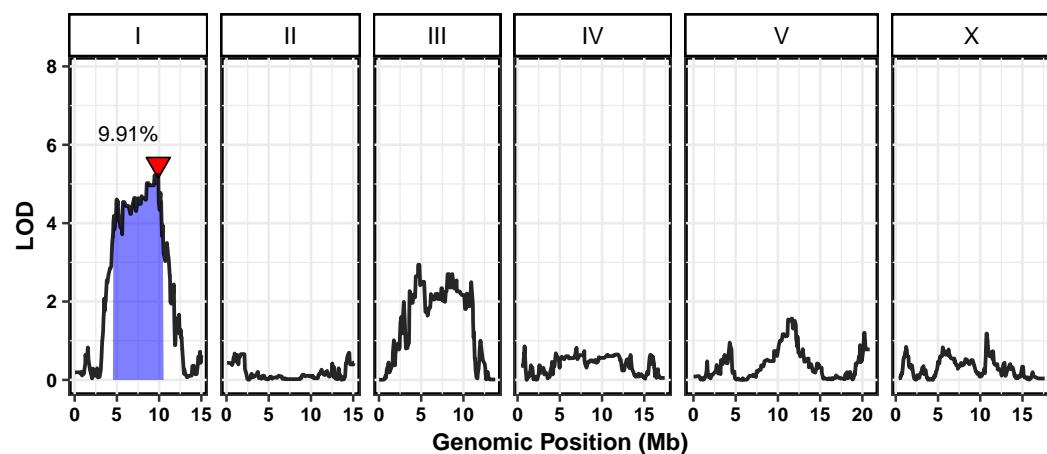
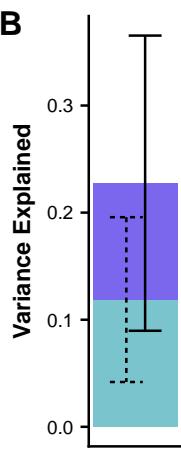
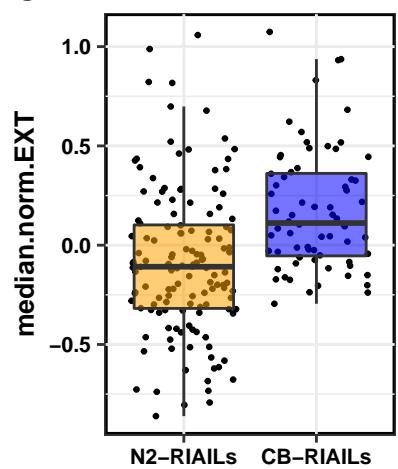


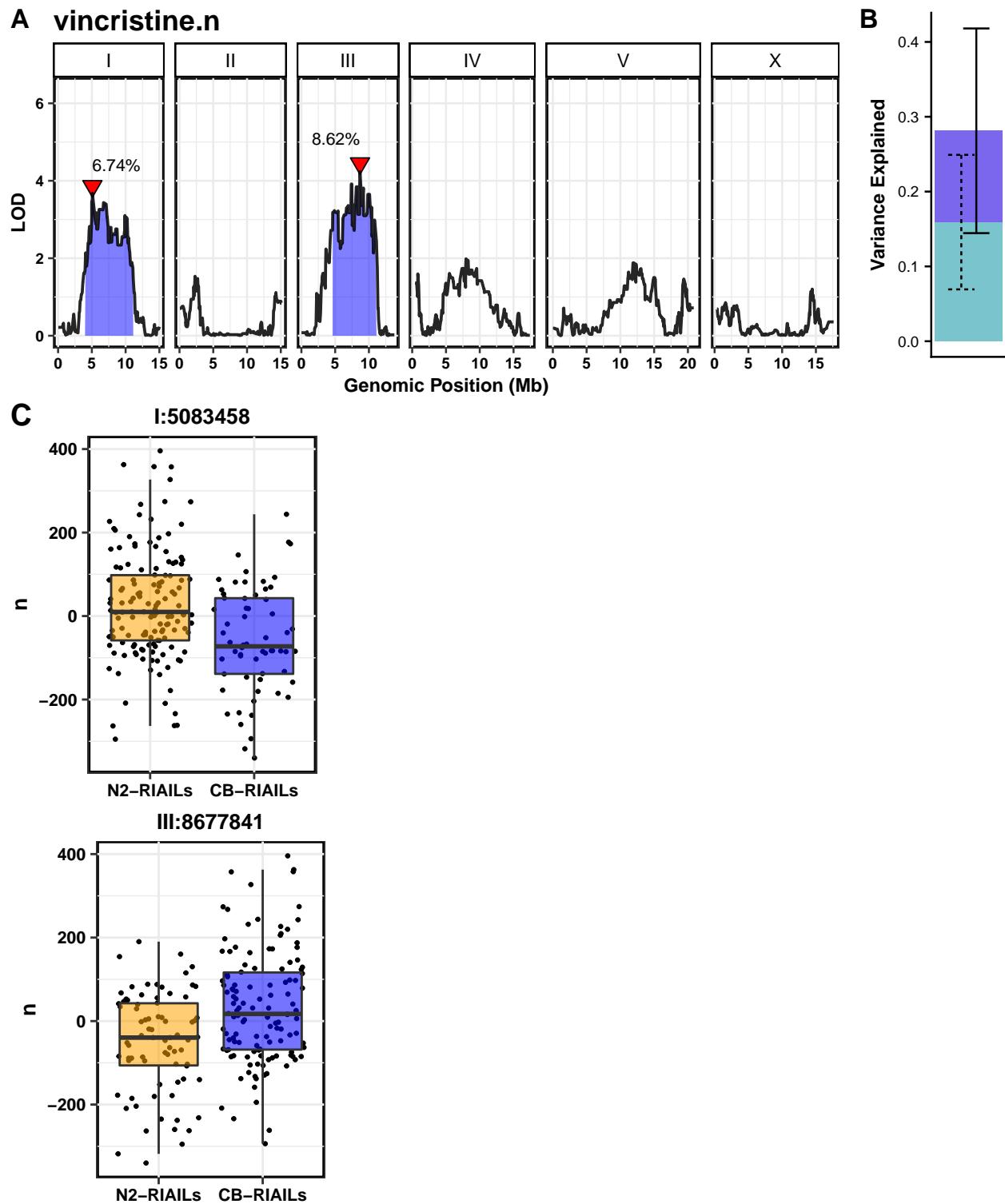
A vincristine.cv.EXT**B****C I:5683303**

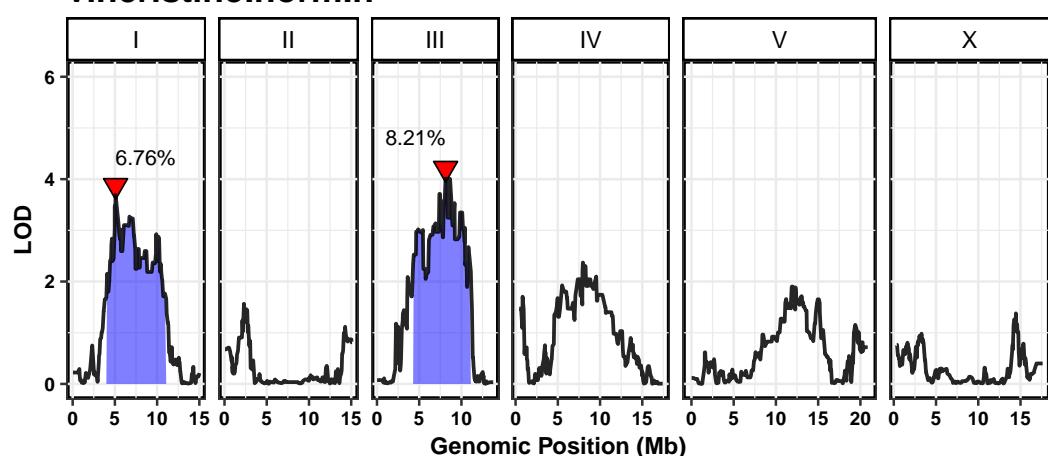
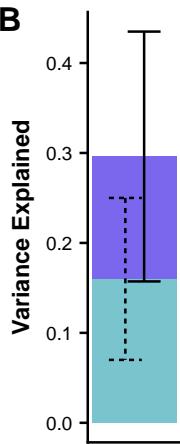
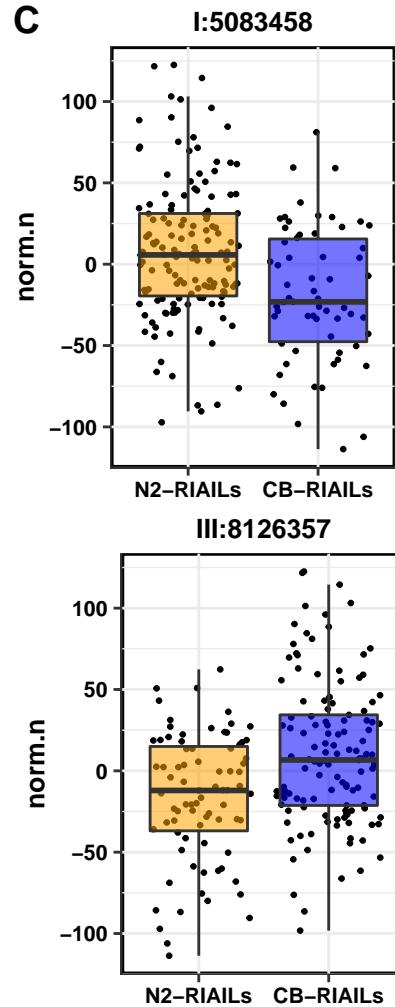
A vincristine.mean.EXT**B****C I:10163992**

A vincristine.mean.norm.EXT**B****C I:9899728**

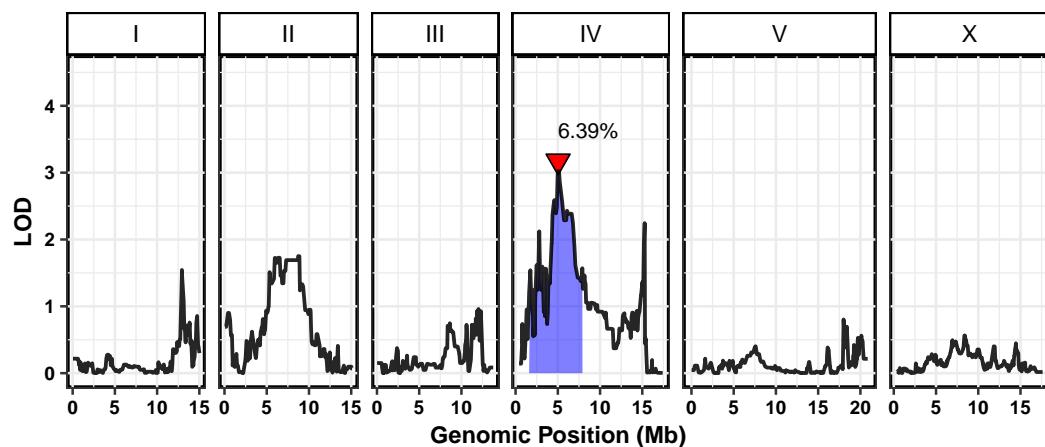
A vincristine.median.EXT**B****C I:10163992**

A vincristine.median.norm.EXT**B****C I:9899728**

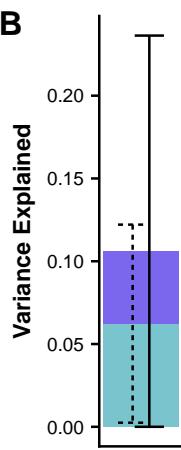


A vincristine.norm.n**B****C**

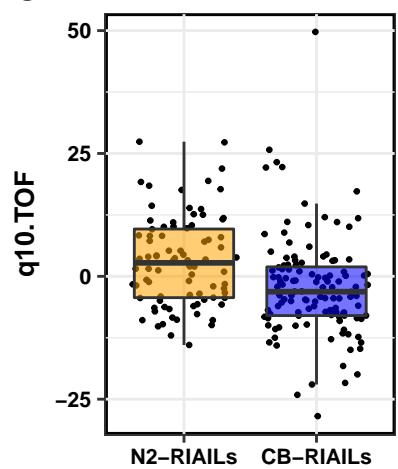
A vincristine.q10.TOF

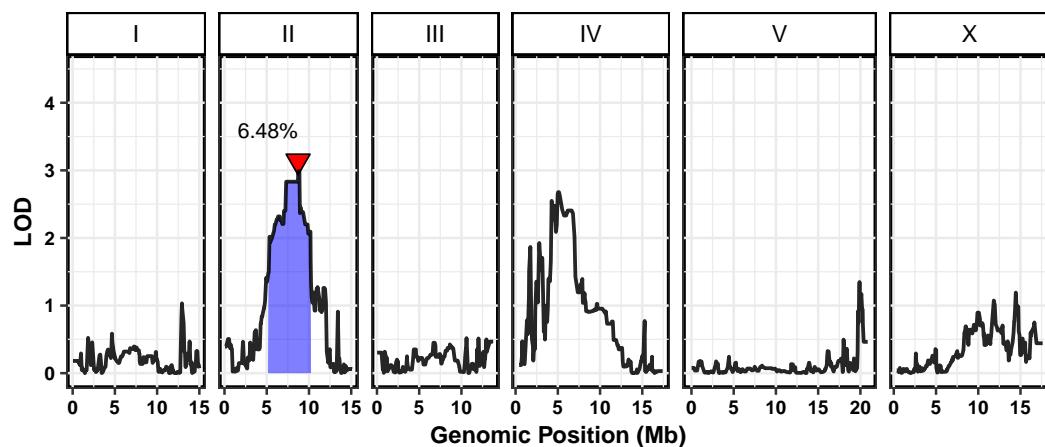
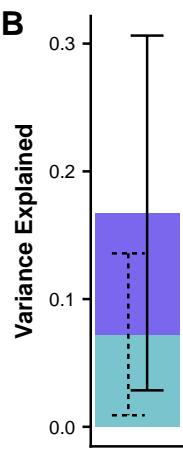
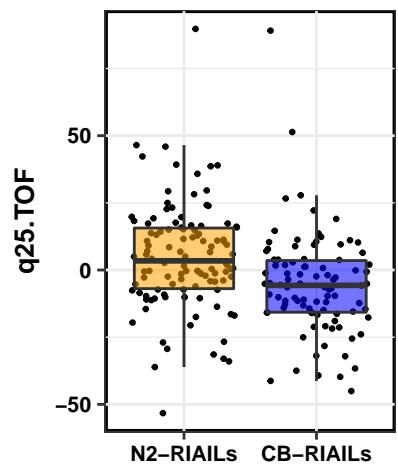


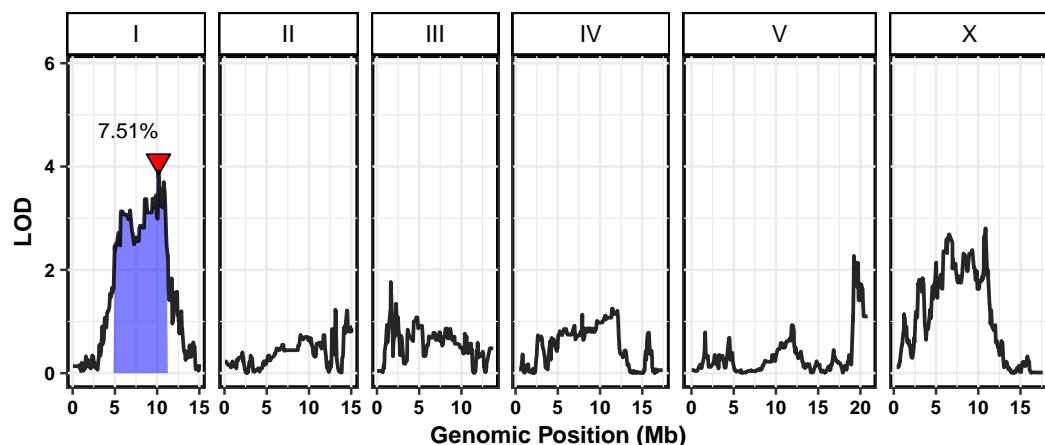
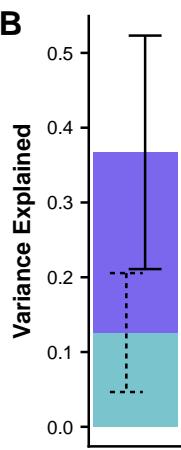
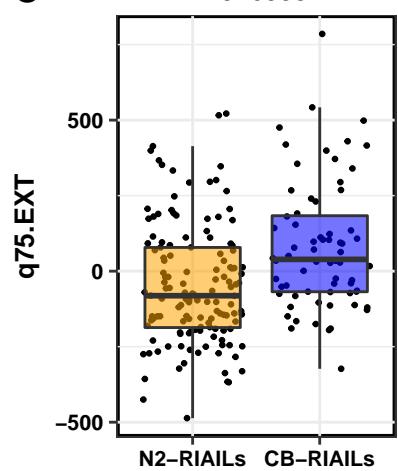
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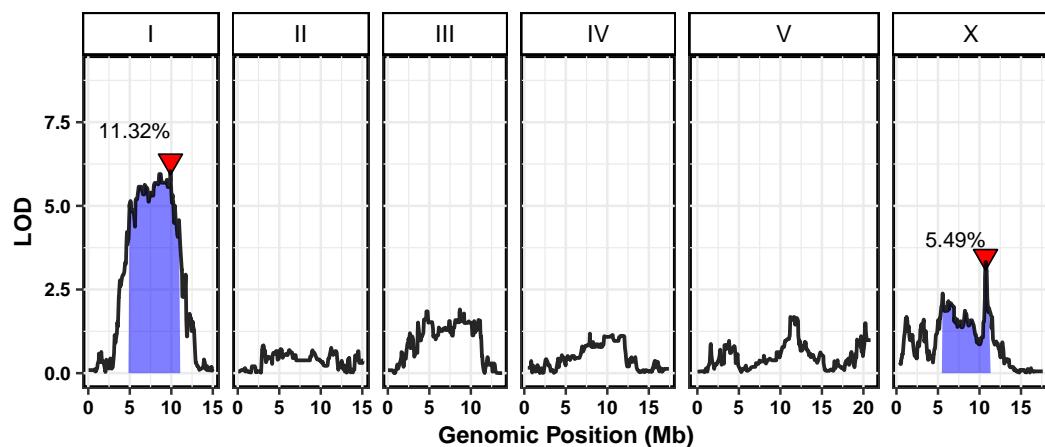
C IV:5034091



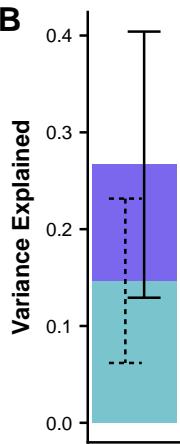
A vincristine.q25.TOF**B****C II:8712868**

A vincristine.q75.EXT**B****C I:10163992**

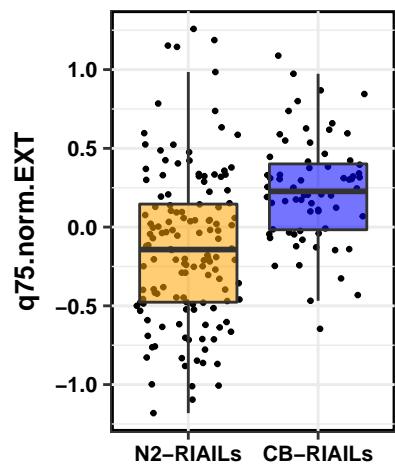
A vincristine.q75.norm.EXT



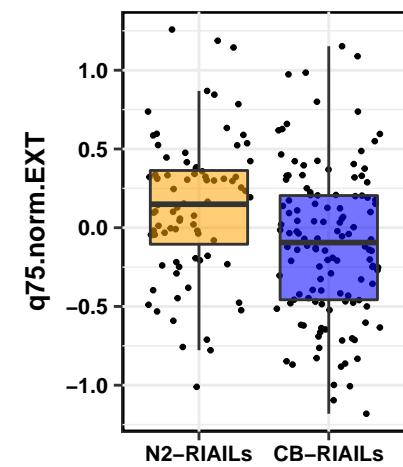
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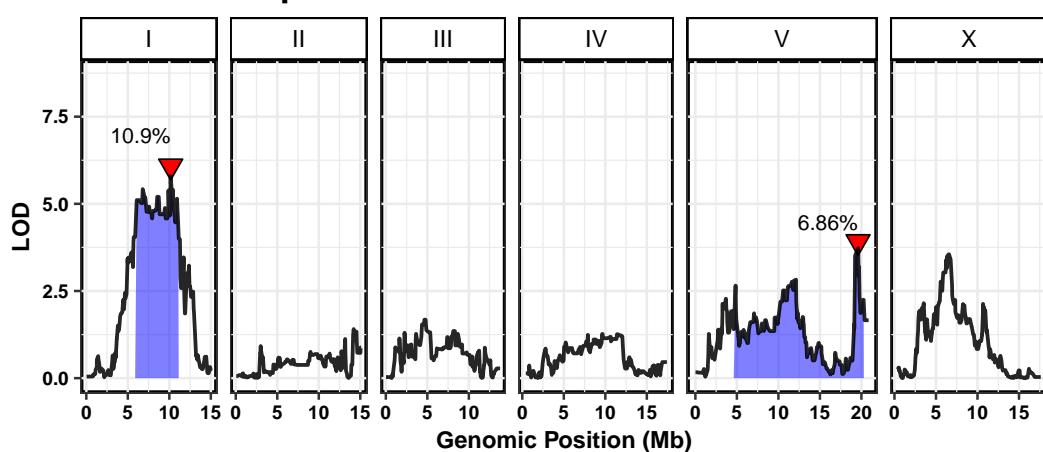
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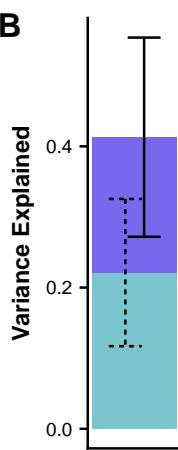
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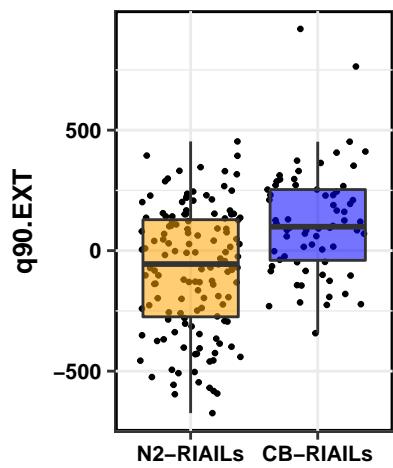
A vincristine.q90.EXT



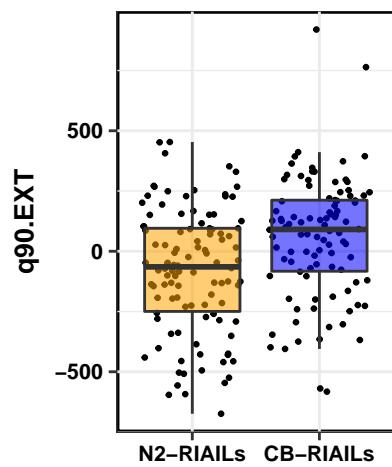
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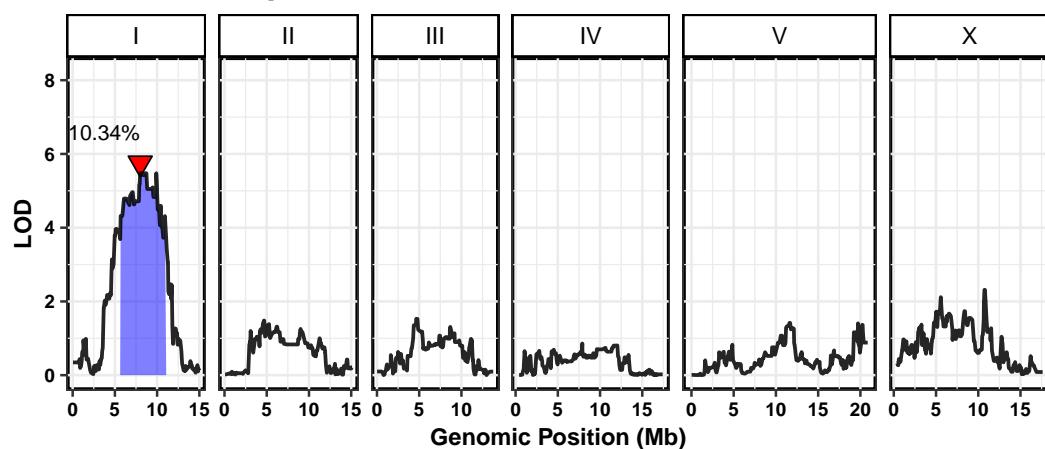
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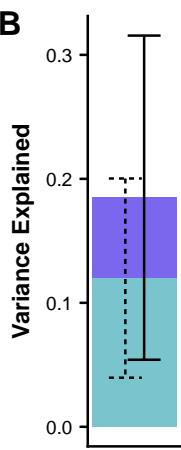
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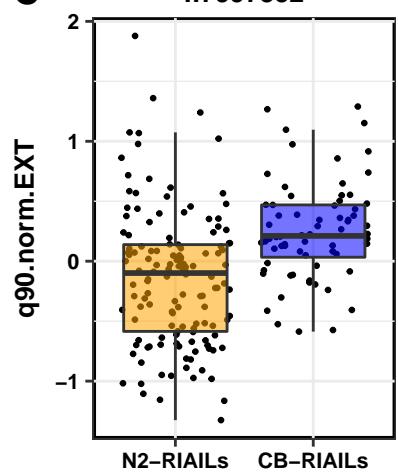
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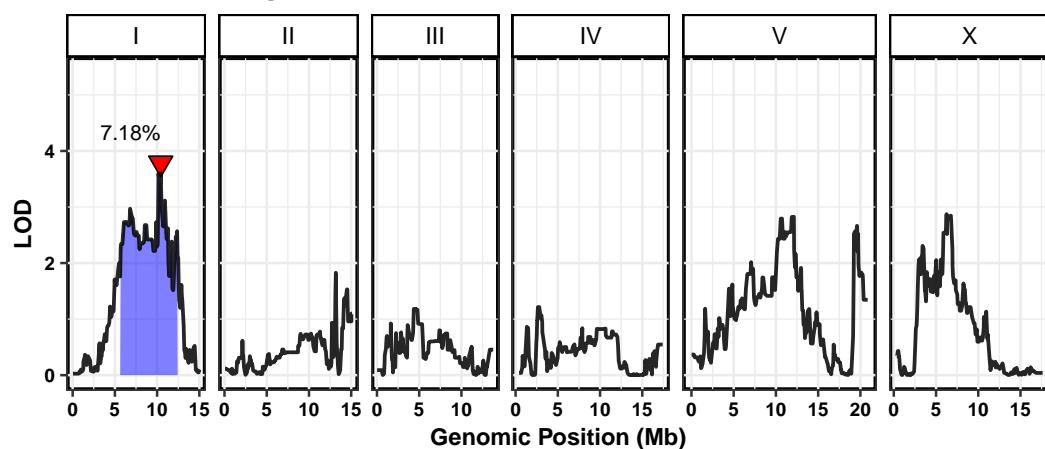
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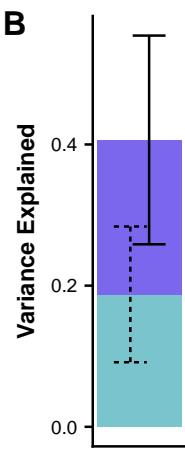
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A vincristine.q90.TOF



B



C I:10427208

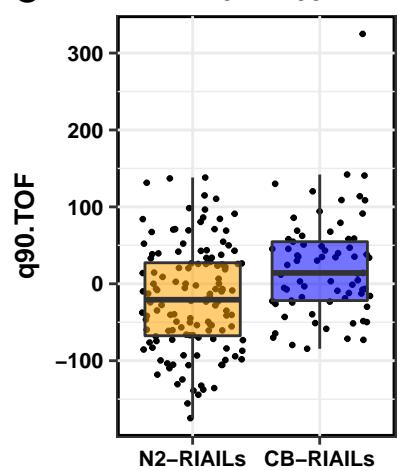


Figure S2 QTL linkage mapping, CSS and NIL results, and variance component contributions. **(A)** The maximum LOD score (y-axis) for each marker across the genome (x-axis), split by chromosome, is plotted as a black line. Significant QTL are indicated by a red triangle at the marker with the maximum LOD score and a light blue ribbon spanning the 95% confidence interval. The estimated phenotypic variation in the RIAILs explained by each QTL is indicated above each peak. **(B)** The proportion of phenotypic variation across the RIAILs caused by additive (light blue) and interactive (dark blue) genetic components are indicated. Solid and dashed error bars show the standard error around additive and interactive component estimates, respectively. **(C)** For each QTL plotted in A, the residual phenotypes (y-axis) of RIAILs split by genotype at the marker with the maximum LOD score (x-axis) are plotted as Tukey box plots. Data from RIAILs with the N2 or the CB4856 allele at the QTL peak marker are colored in orange and blue, respectively. For traits in which CSSs and NILs were assayed, the residual phenotypic values (y-axis) of N2, CB4856, and reciprocal introgressed NILs or CSSs are plotted as Tukey box plots. Different letters represent significant differences ($p < 0.05$) between strains (Tukey HSD). The genotype of each strain on the x-axis is modeled by the colored rectangles beneath the plots (N2 genotypes are orange, CB4856 genotypes are blue). The category assigned to each assay is marked above each NIL/CSS phenotype plot.

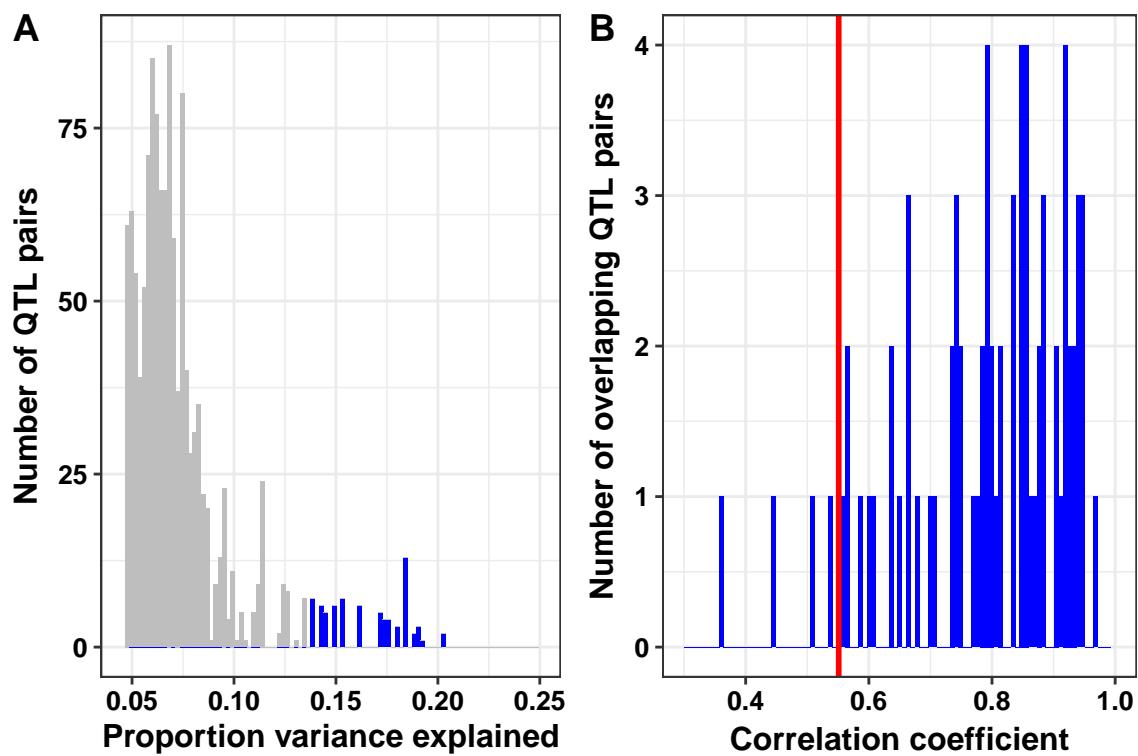


Figure S3 Determining a threshold for identifying distinct QTL. **(A)** Within each condition, pairs of traits with overlapping QTL confidence intervals are plotted as a histogram. The phenotypic variation explained by the lowest effect-size QTL per pair of overlapping confidence intervals is shown on the x-axis. Pairs of QTL with a variance explained estimate above the 95th percentile of this distribution are colored in blue. **(B)** A histogram of all pairs of traits with overlapping confidence intervals containing a QTL with a variance explained estimate above the cutoff from (A). The correlation coefficient of each of pair of traits, calculated from the dose-response data, is shown on the x-axis. The 5th percentile of this distribution is indicated by the red line at a correlation coefficient of 0.55.

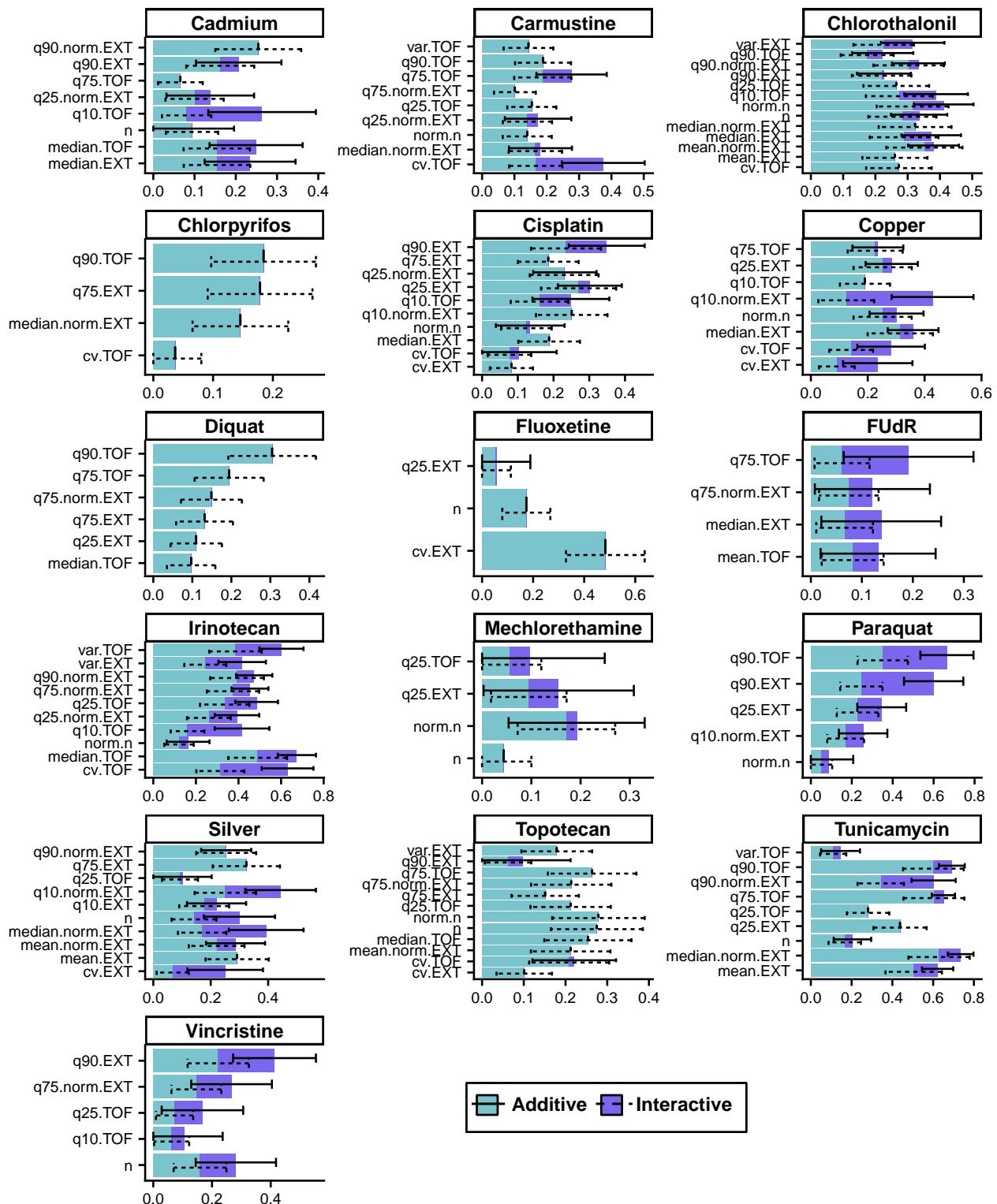
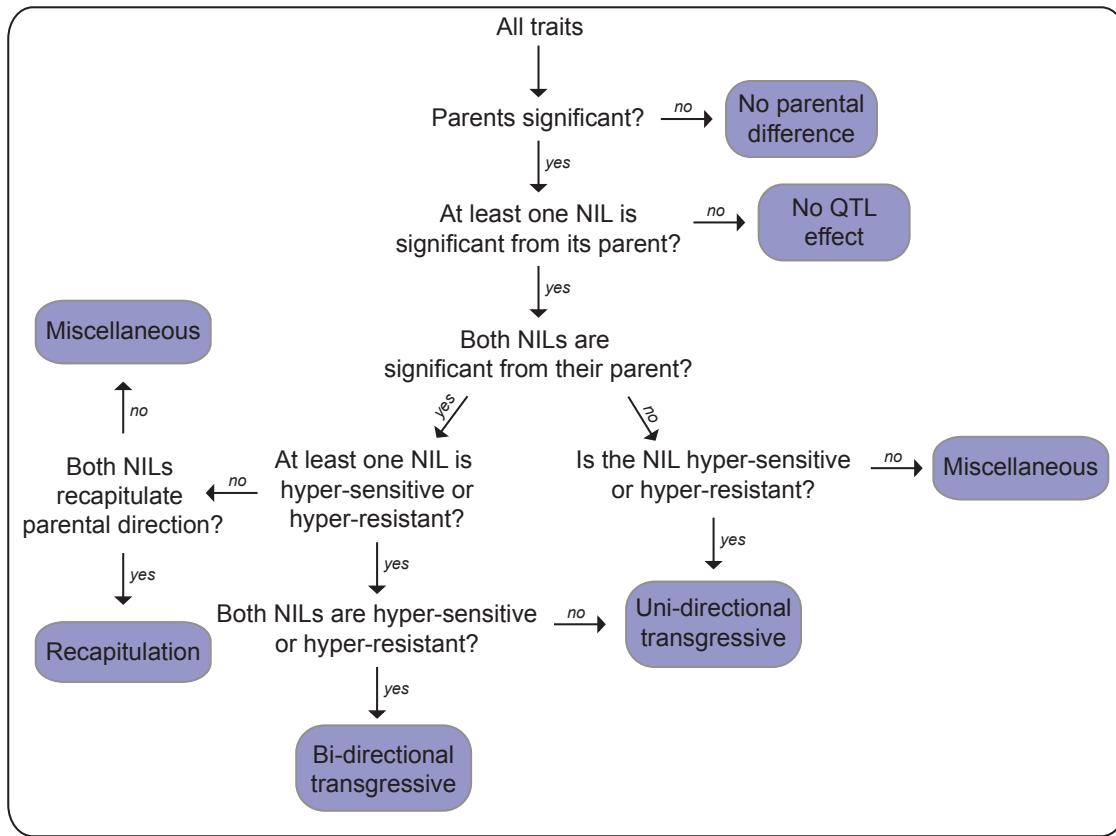


Figure S4 Additive and interactive genetic components. The proportion of phenotypic variation predicted to be caused by additive and interactive genetic components is shown for each of the 120 traits that represent one of the 143 distinct QTL identified by linkage mapping. For each toxin, the fraction of phenotypic variation (x-axis) in a given trait (y-axis) that is attributable to additive (light blue) versus interactive (dark blue) genetic components is shown as a stacked bar plot. Solid and dashed error bars show the standard error around the mean of additive and interactive components, respectively.



Category	CSS	NIL
Recapitulation	Recapitulation	Recapitulation
No parental effect	No parental difference	No parental difference
No QTL effect	No QTL effect	No QTL effect
Inter-chromosomal external	Uni-directional or bi-directional transgressive phenotype	Recapitulation or no QTL effect
Inter-chromosomal internal	Uni-directional or bi-directional transgressive phenotype	Uni-directional or bi-directional transgressive phenotype
Intra-chromosomal	Recapitulation or no QTL effect	Uni-directional or bi-directional transgressive phenotype

Figure S5 NIL and CSS trait categorizations. (A) Flowchart for categorizing traits from the NIL or CSS phenotyping assays. (B) Six categories across both CSS and NIL assays for traits on chromosome V. The miscellaneous category is not depicted, but encompasses any other combination of NIL and CSS assay results.

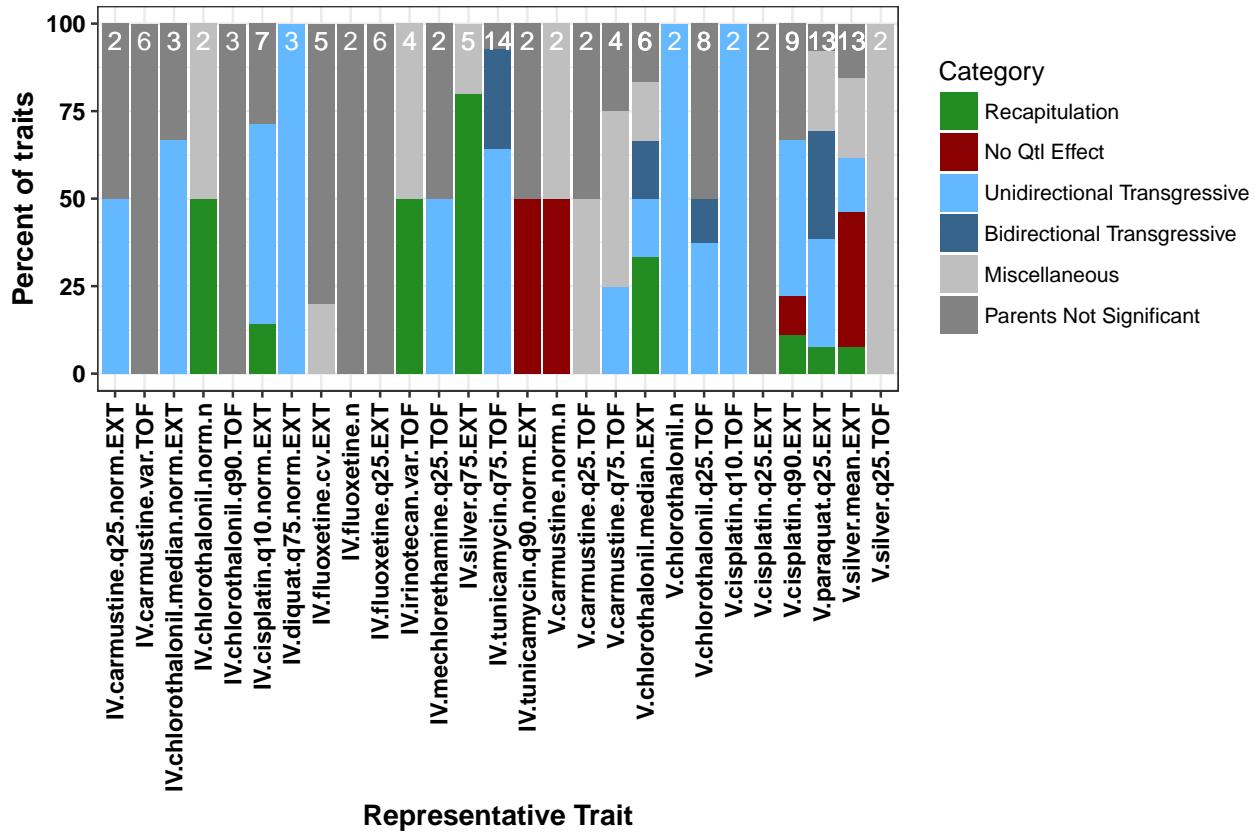


Figure S6 Categorization of correlated traits. The x-axis shows the representative trait (the trait with the highest LOD score) of a cluster of correlated traits with overlapping QTL confidence intervals. Each color represents the NIL assay categorization for each trait within a correlation cluster - either recapitulation (green), no QTL effect (red), unidirectional transgressive phenotype (light blue), bidirectional transgressive phenotype (dark blue), miscellaneous (light grey) or no significant parental difference (dark grey). The percent of all traits within the correlation cluster that falls within a given category is shown on the y-axis. Numbers above each bar indicate the number of traits within a correlation cluster.