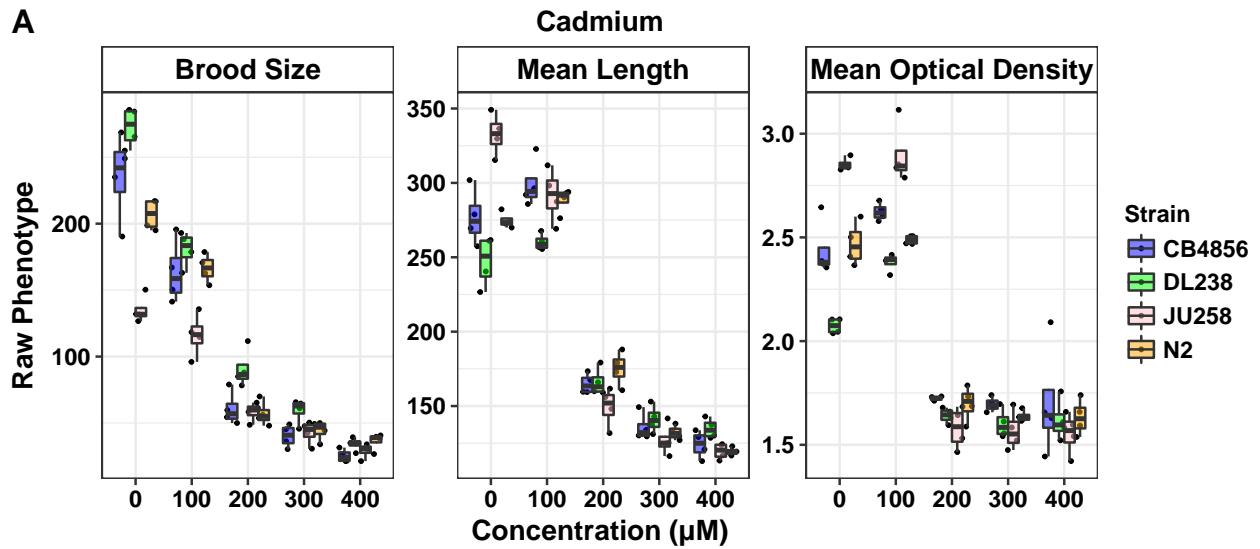
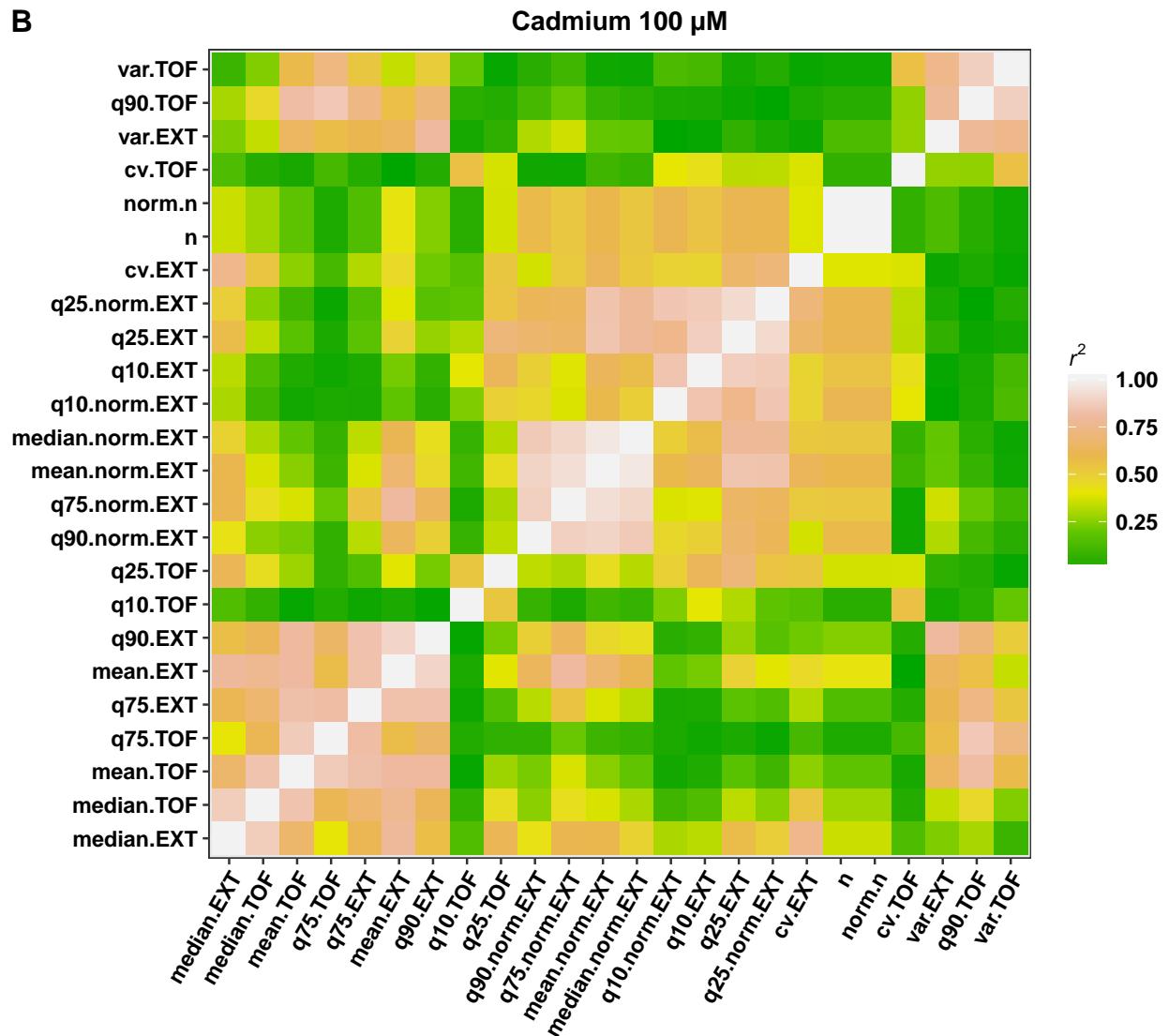
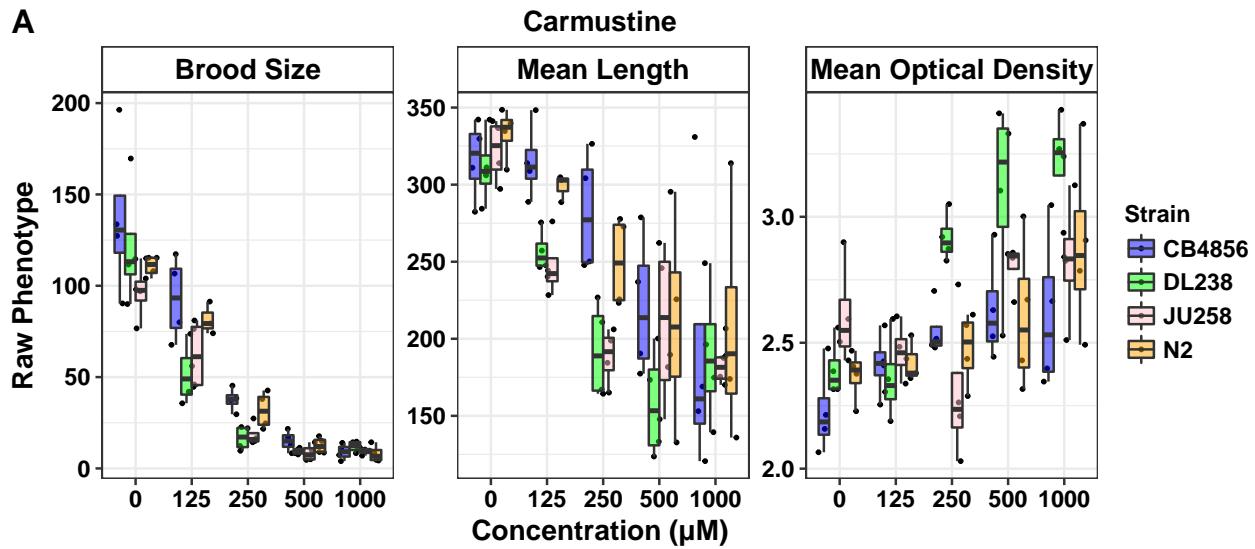
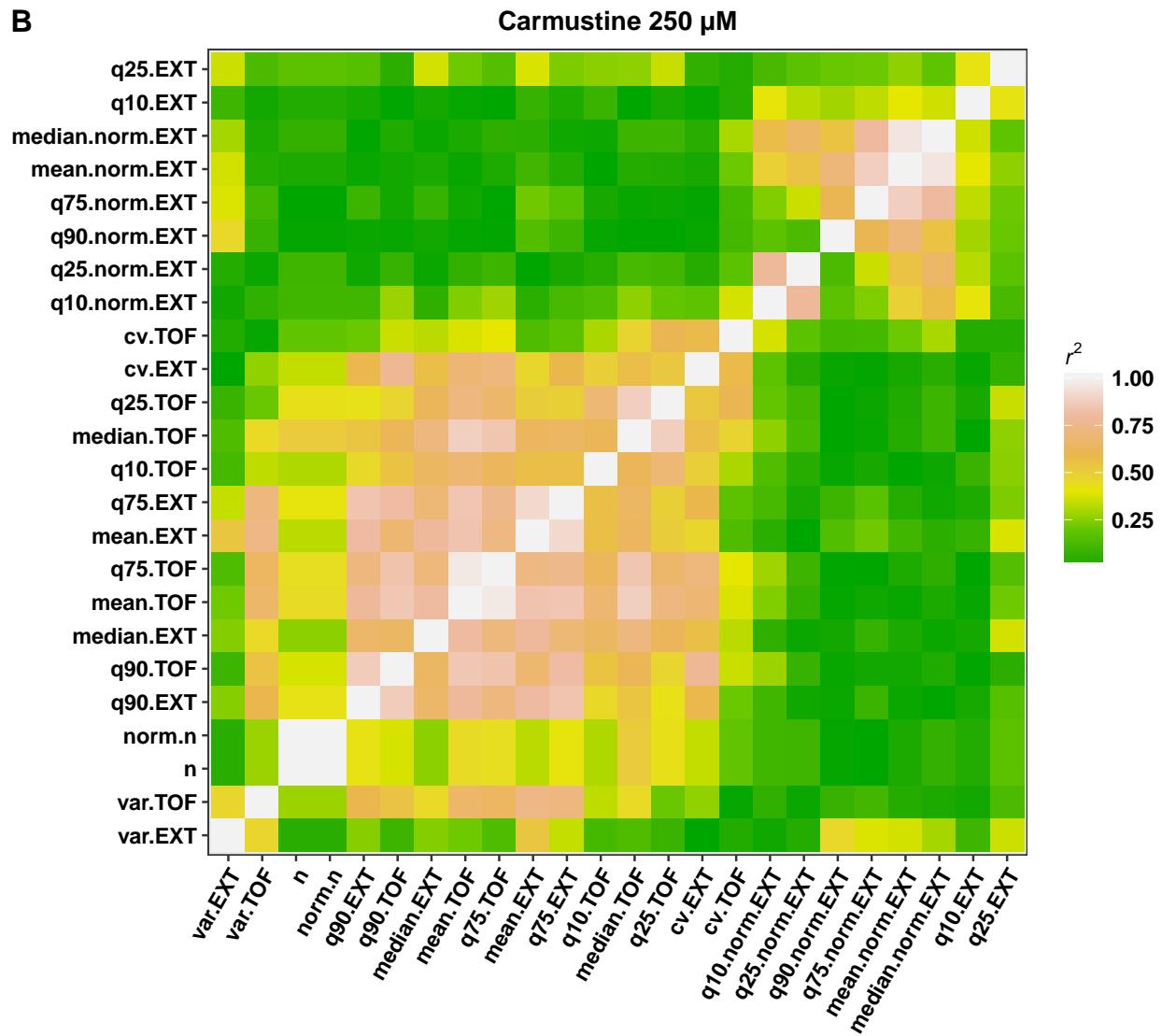
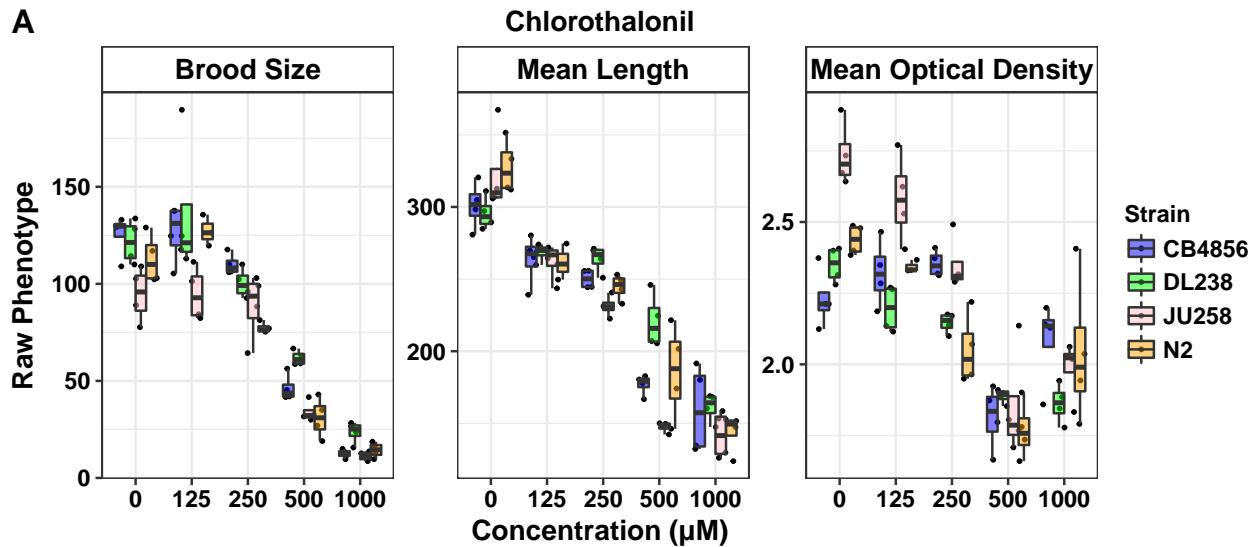
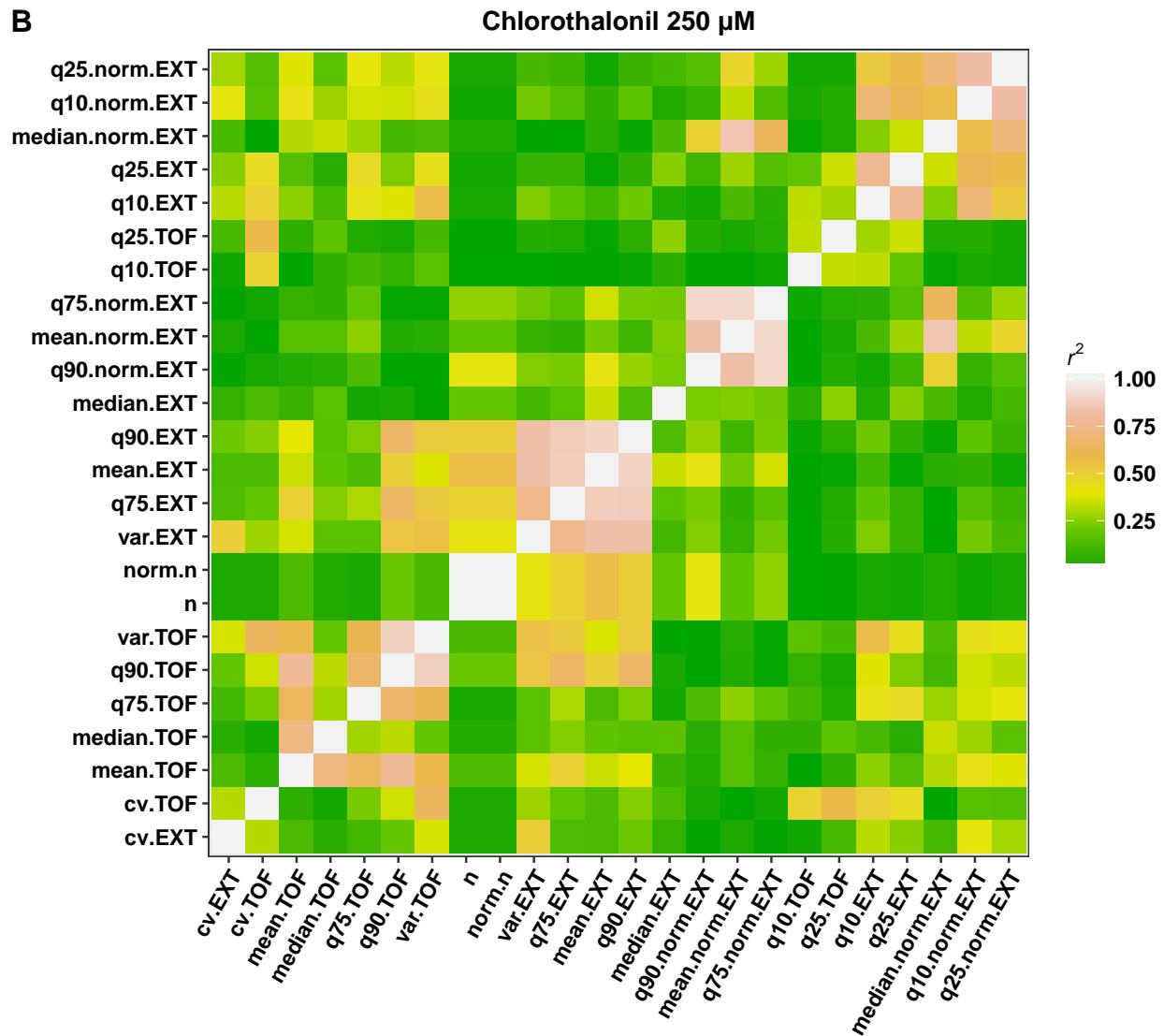
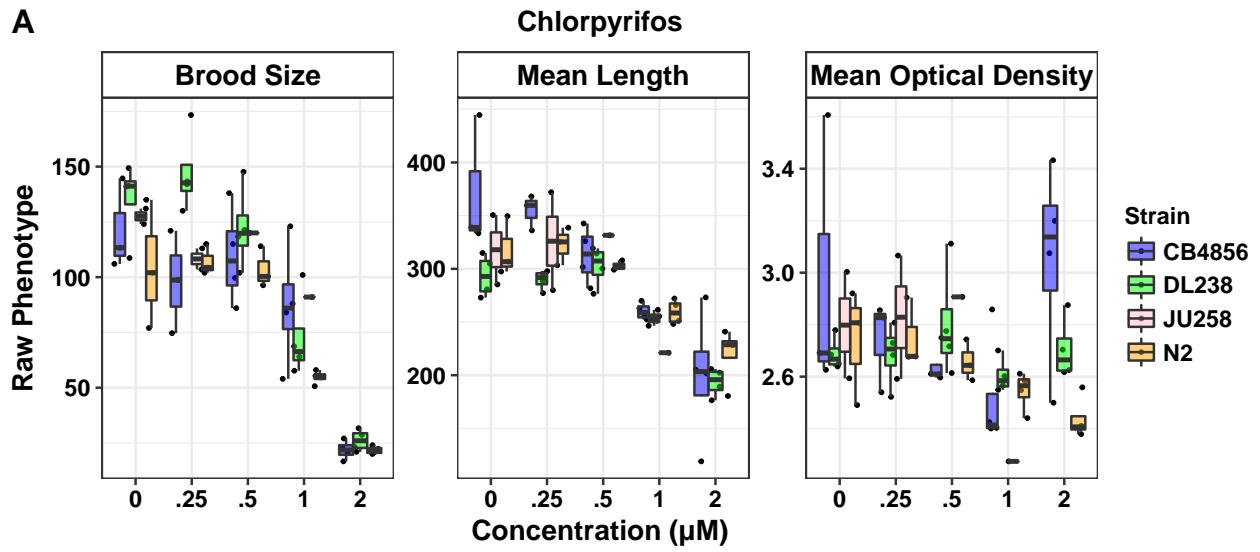
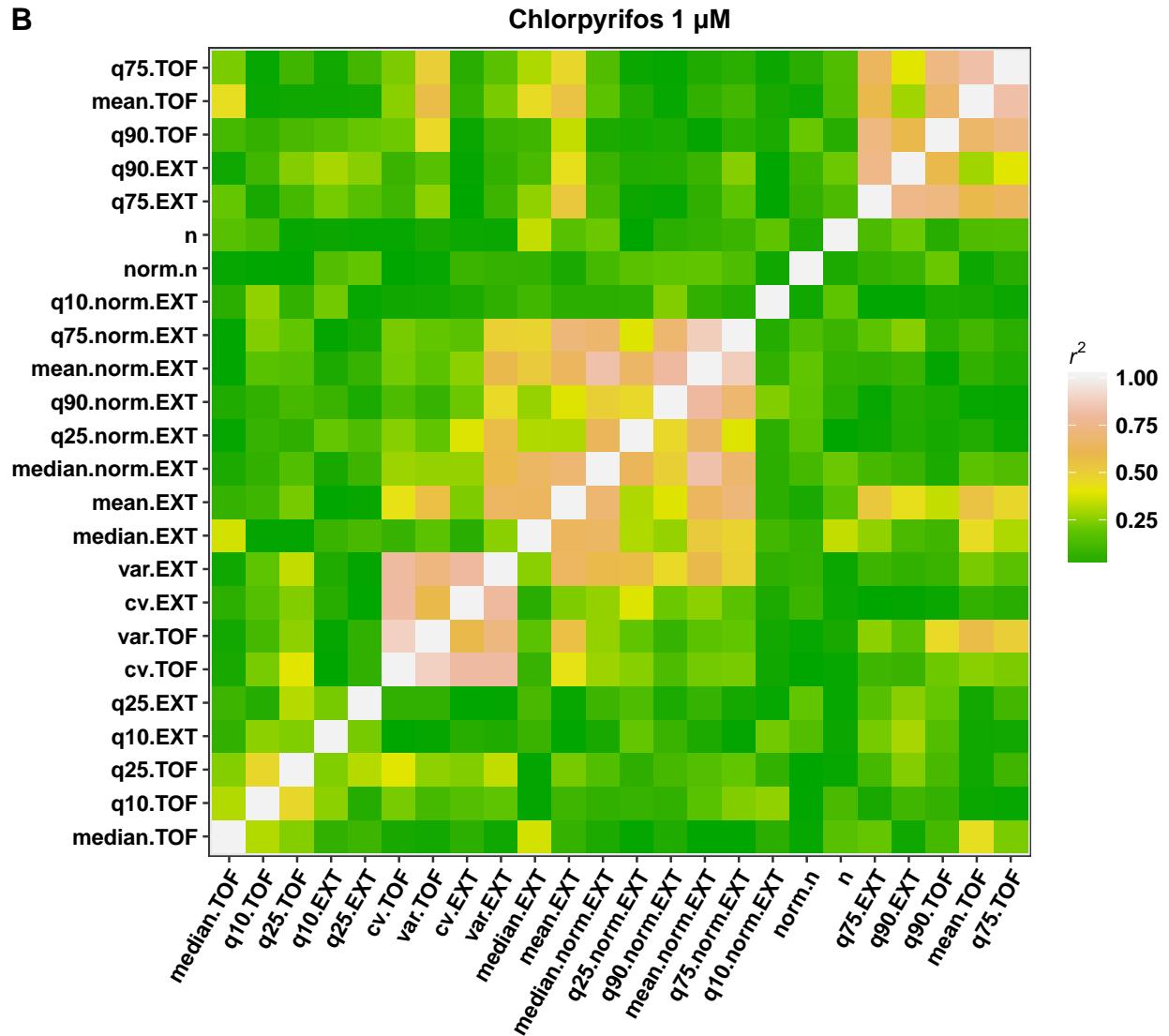
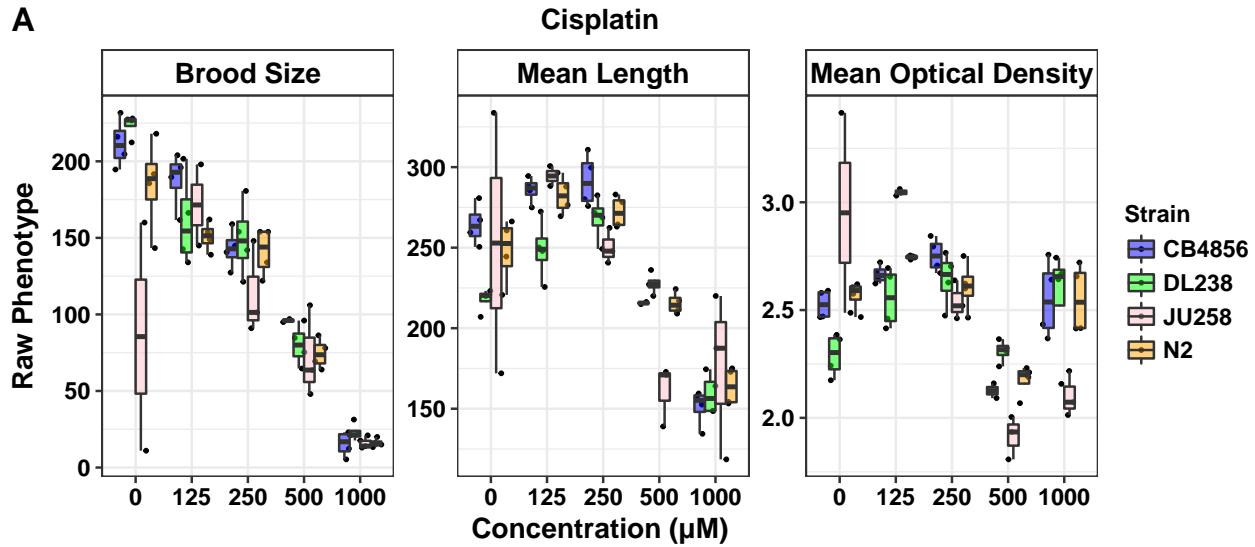
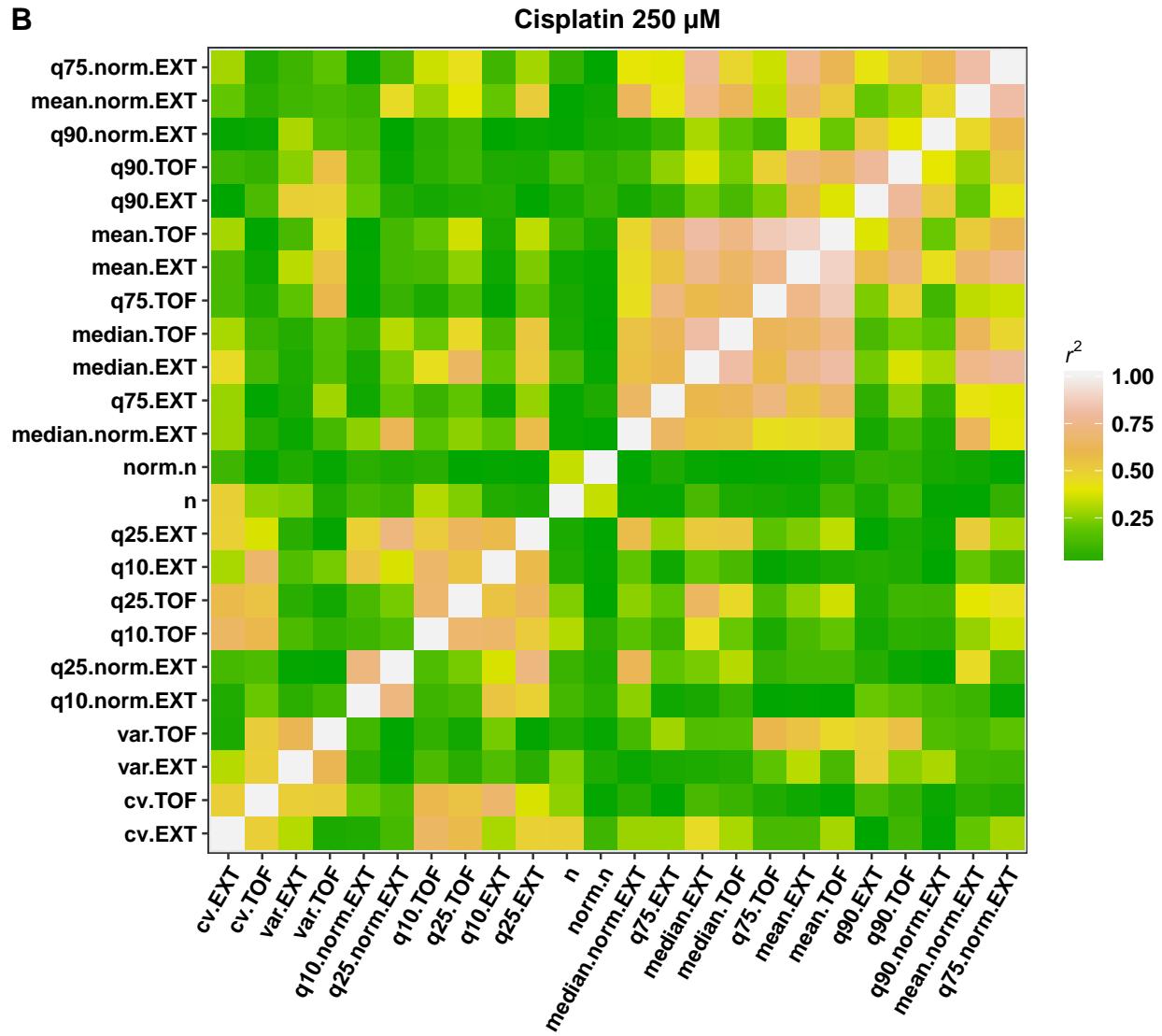


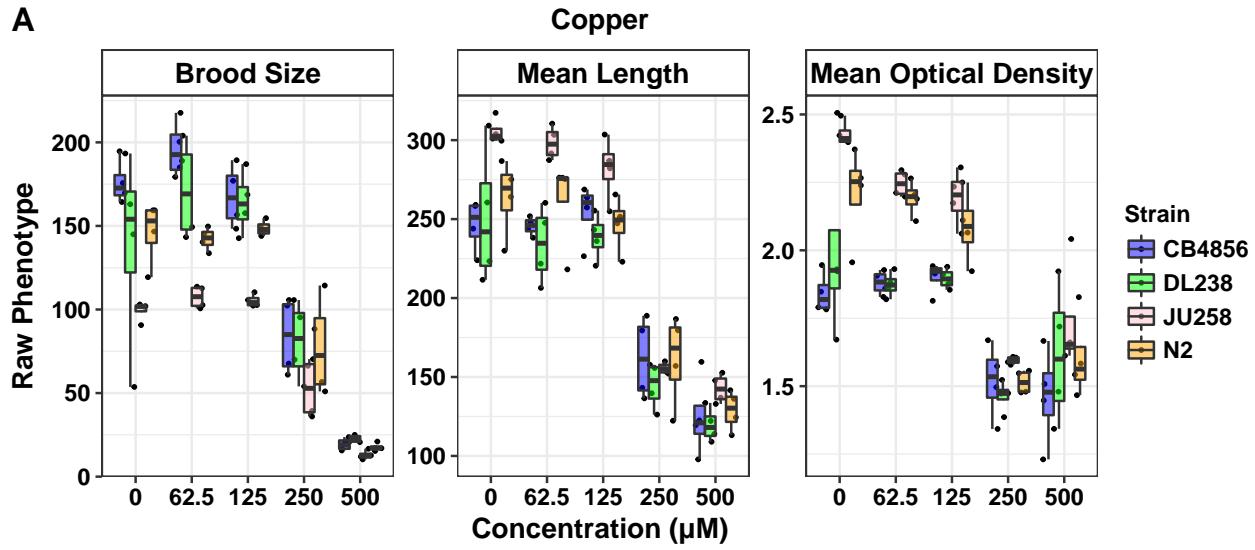
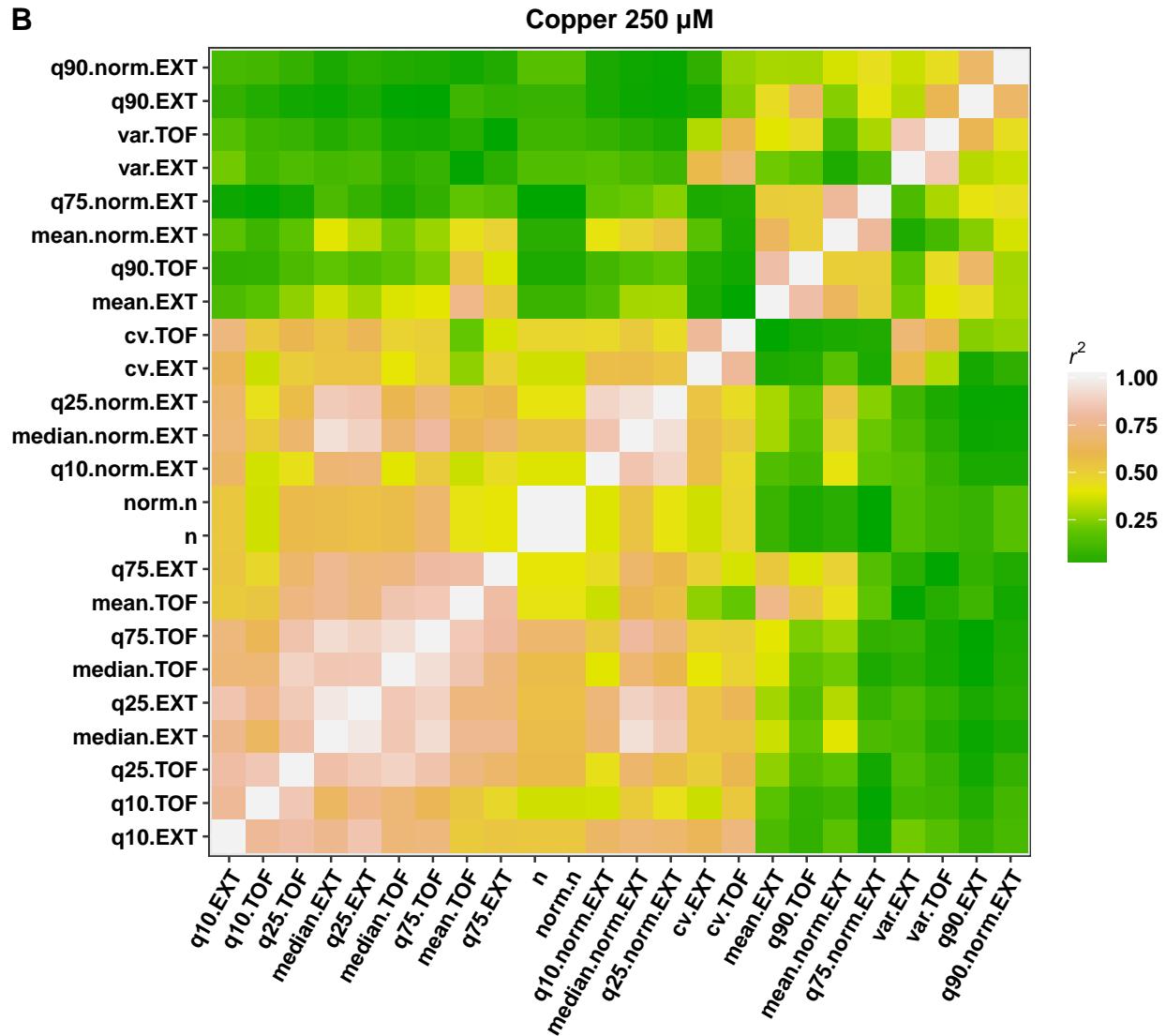
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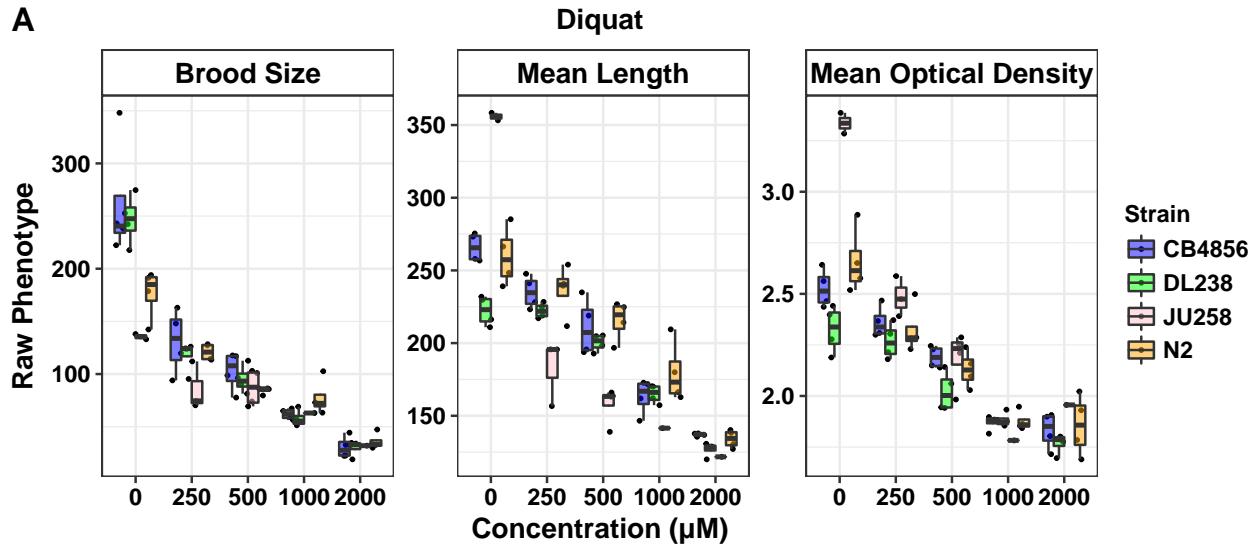
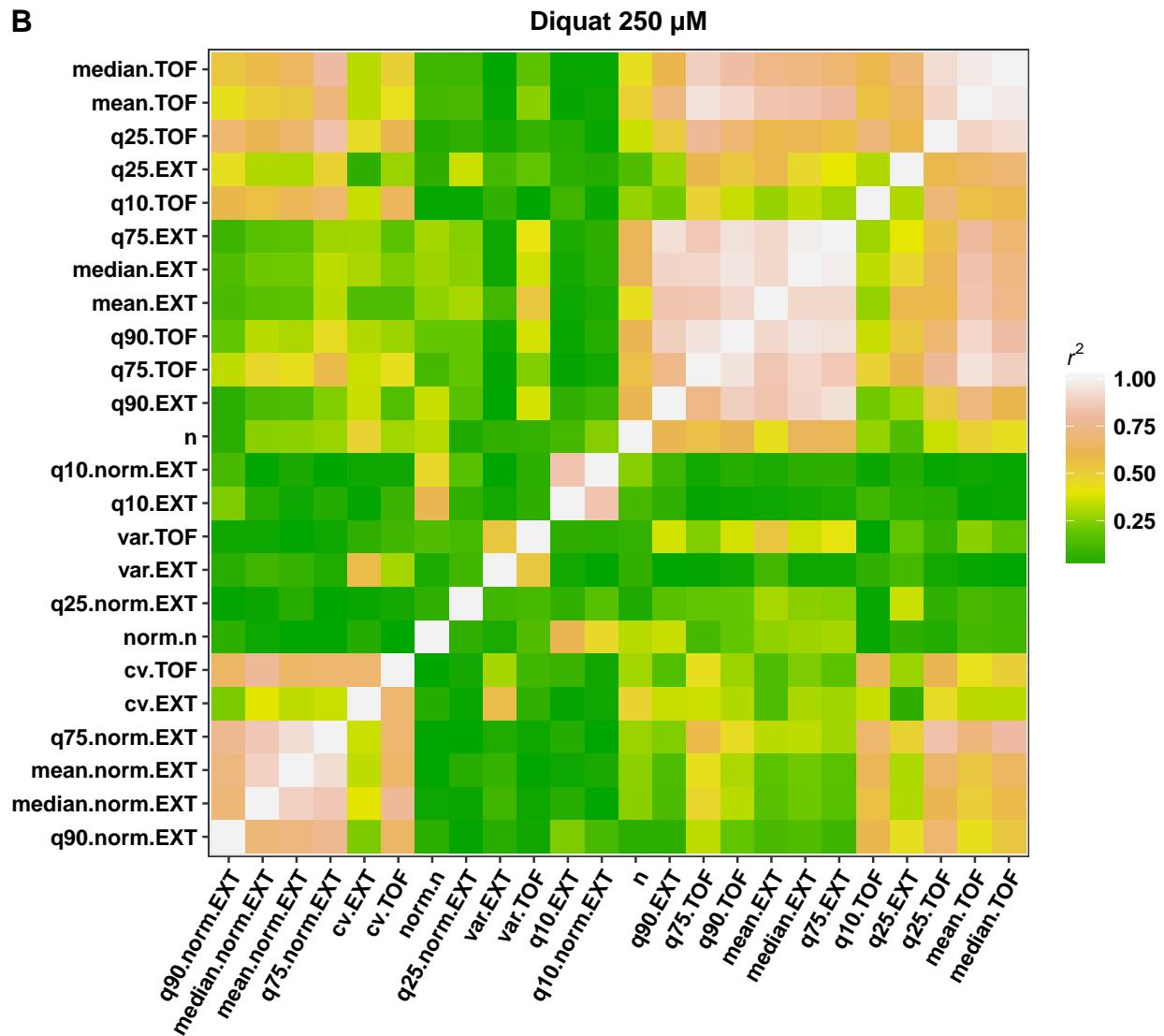
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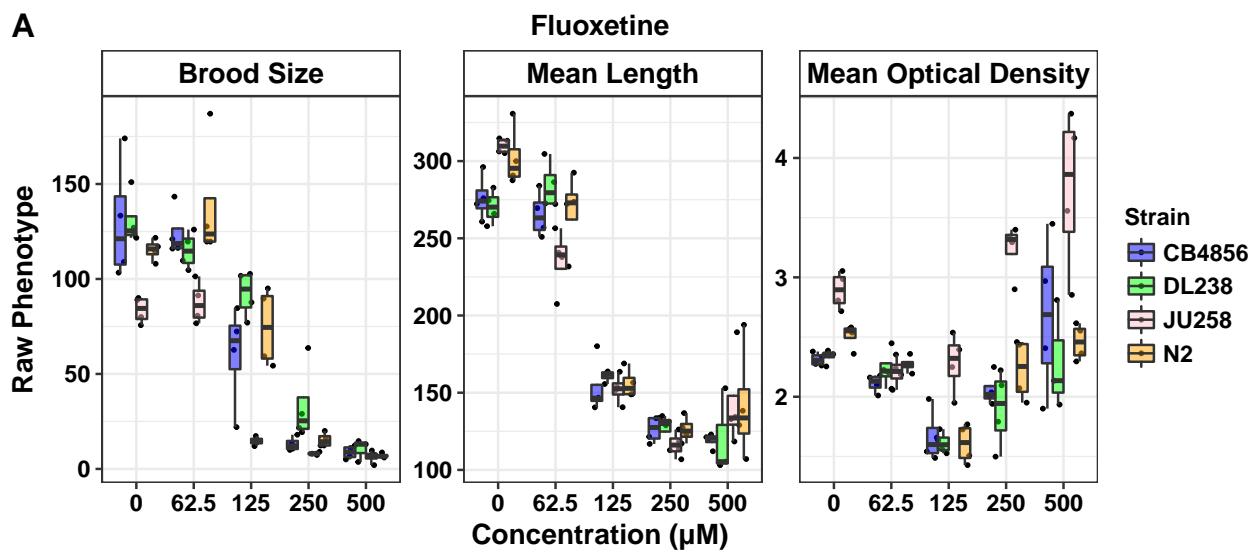
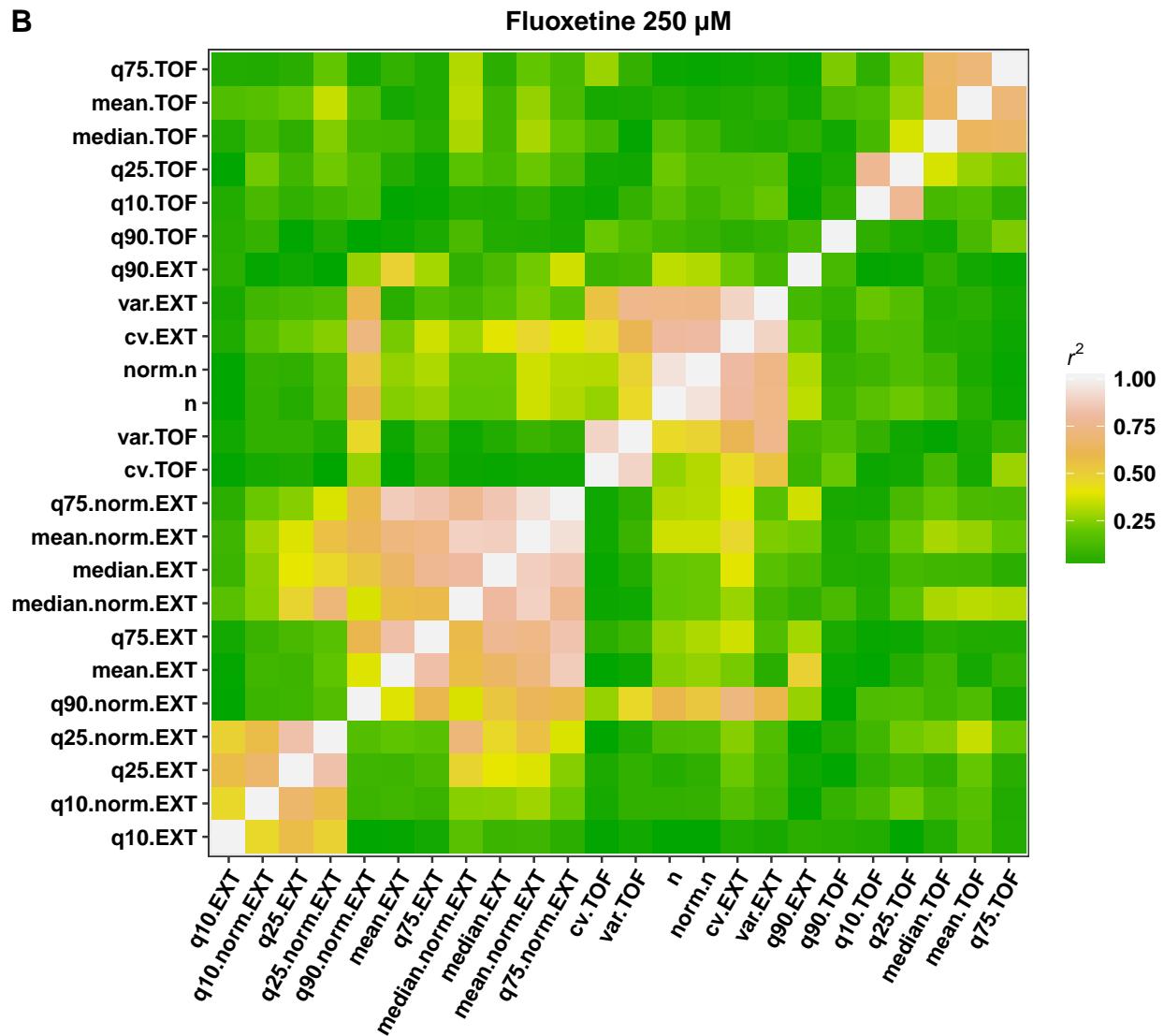
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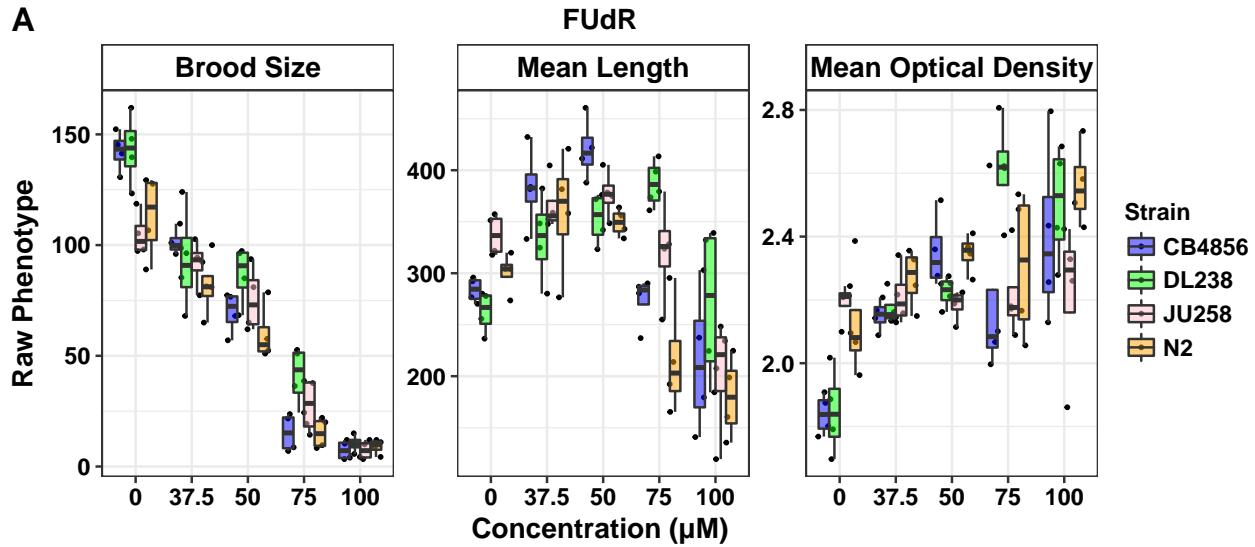
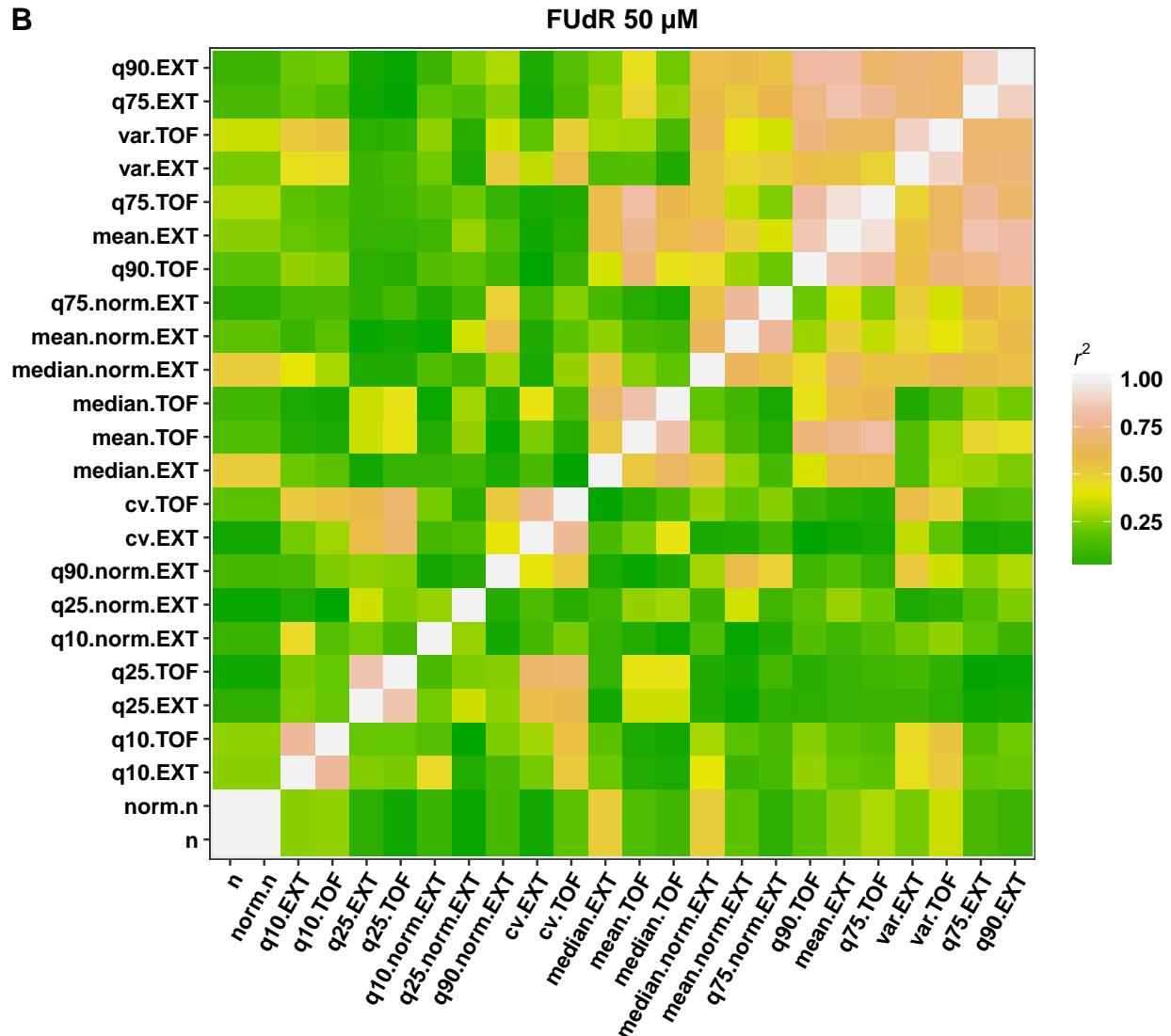
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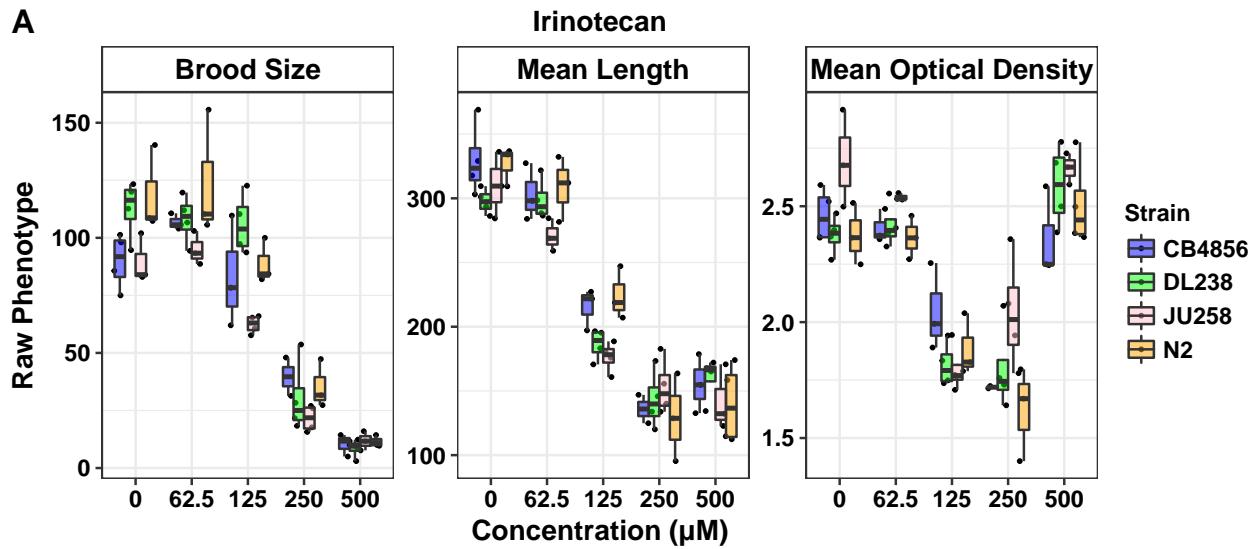
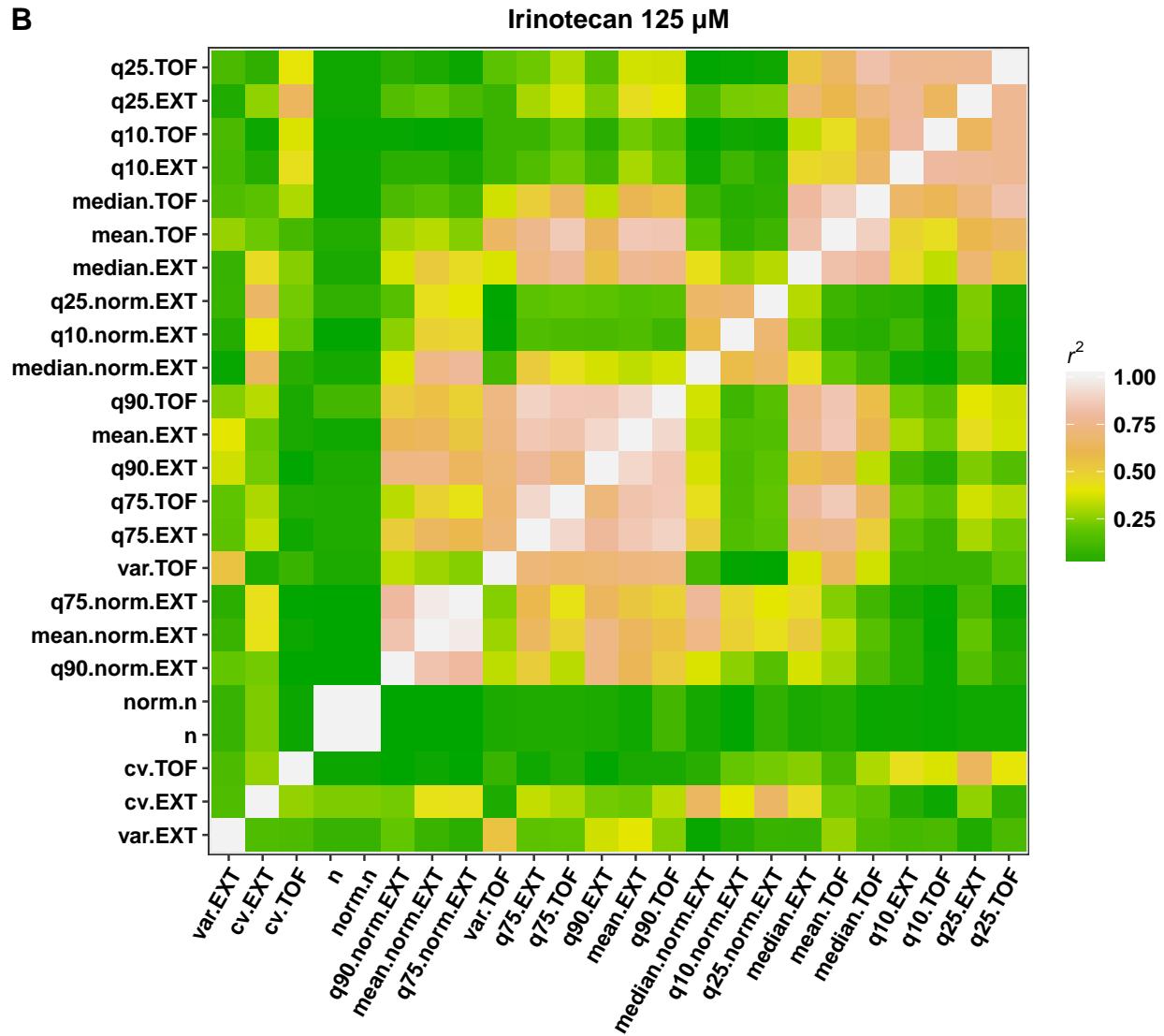
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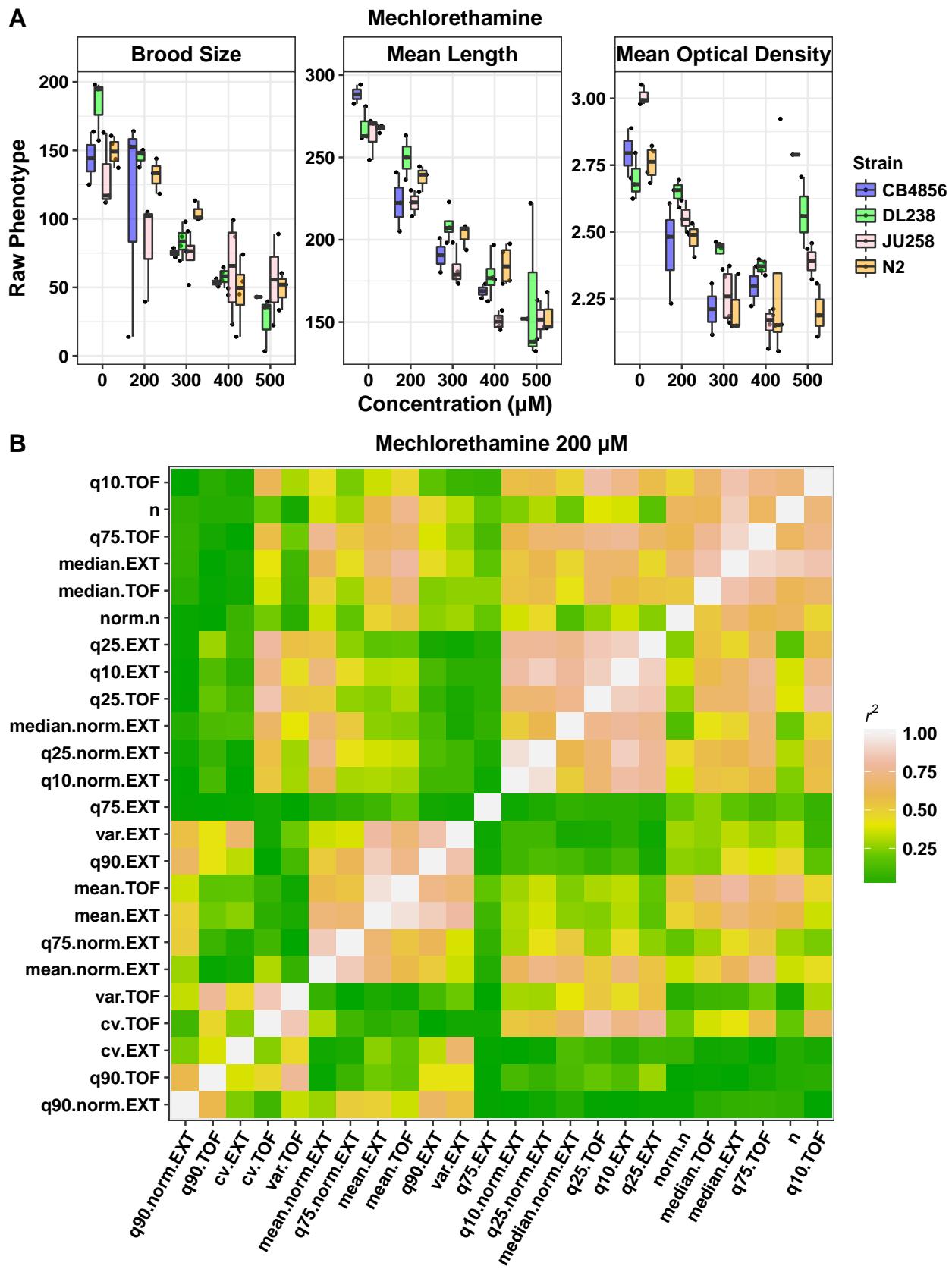
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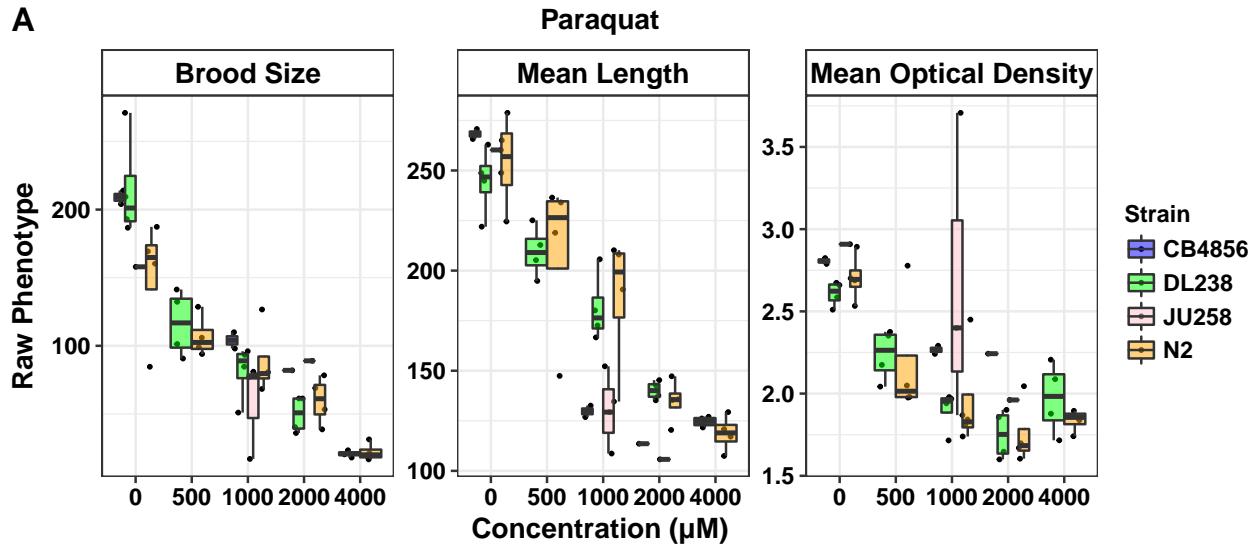
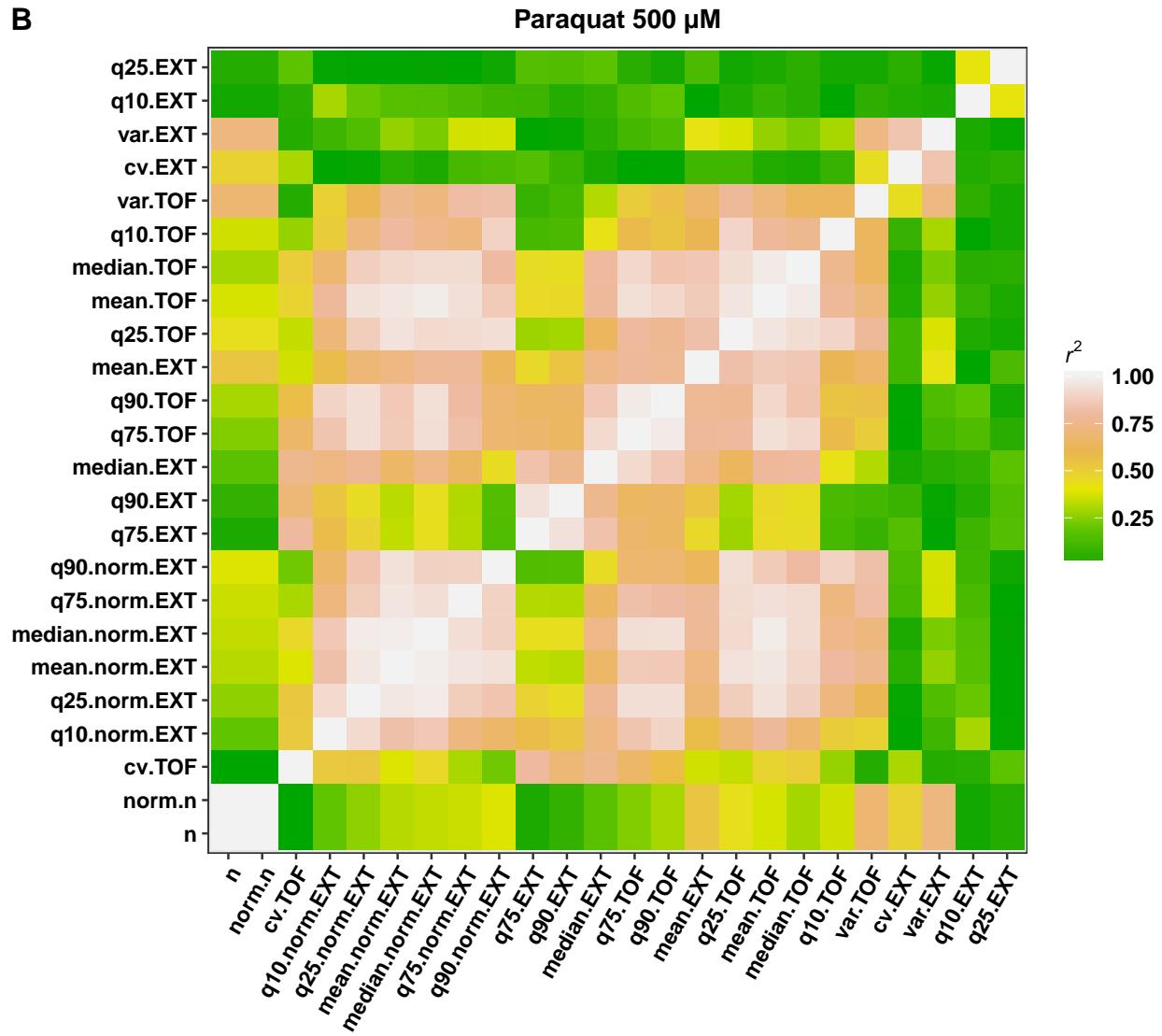
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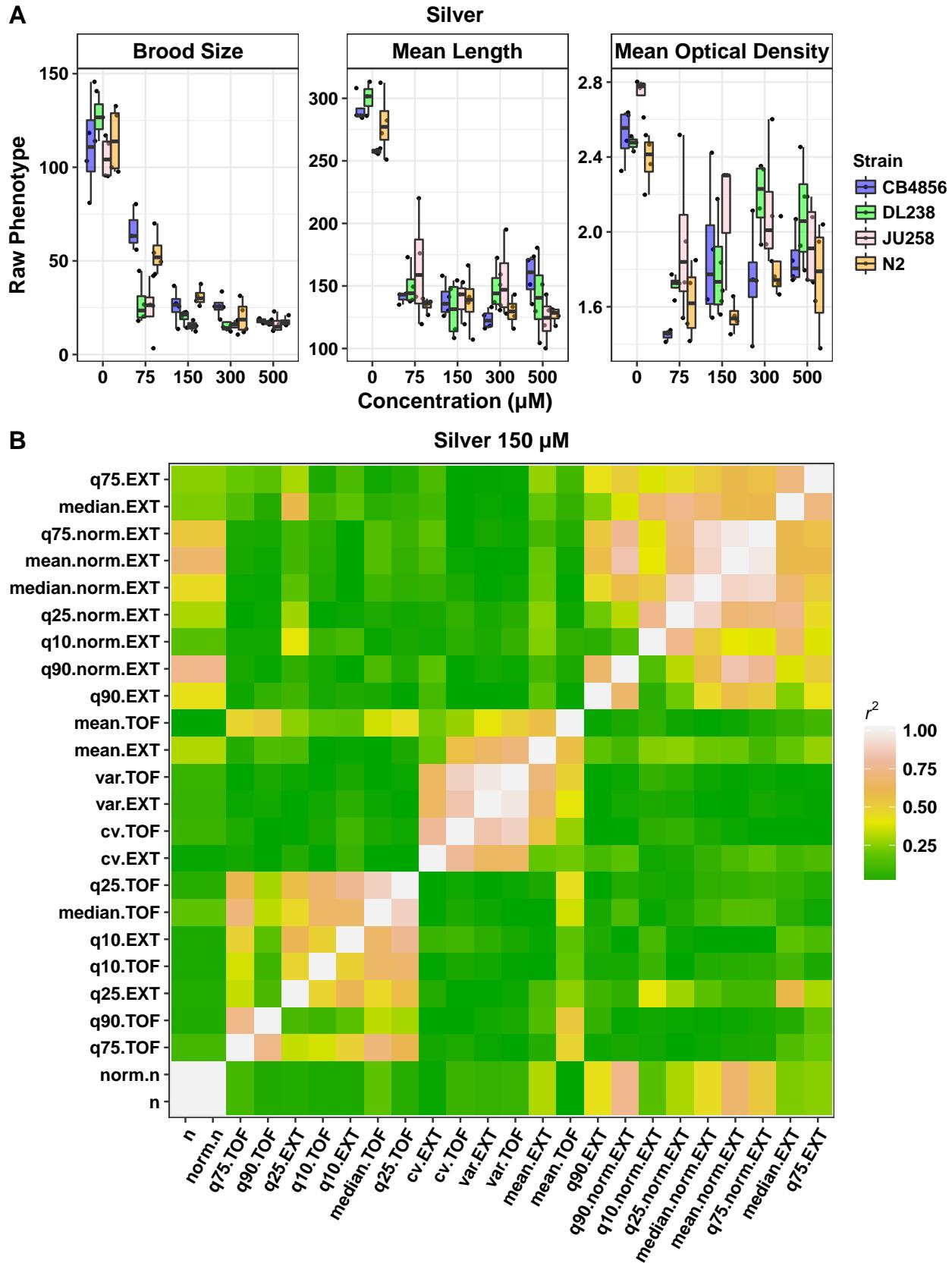
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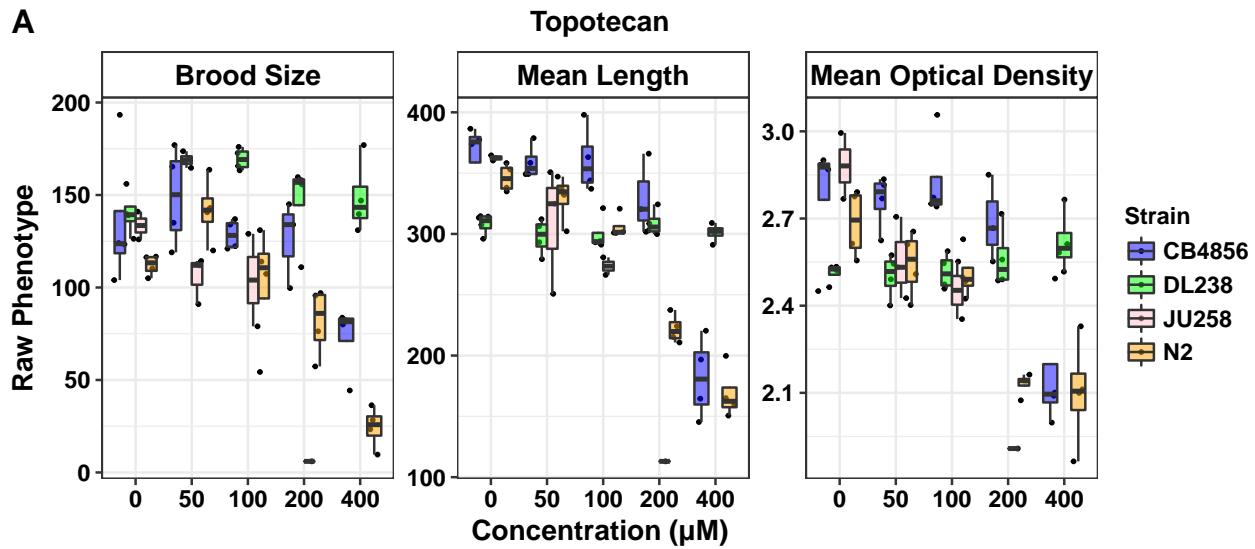
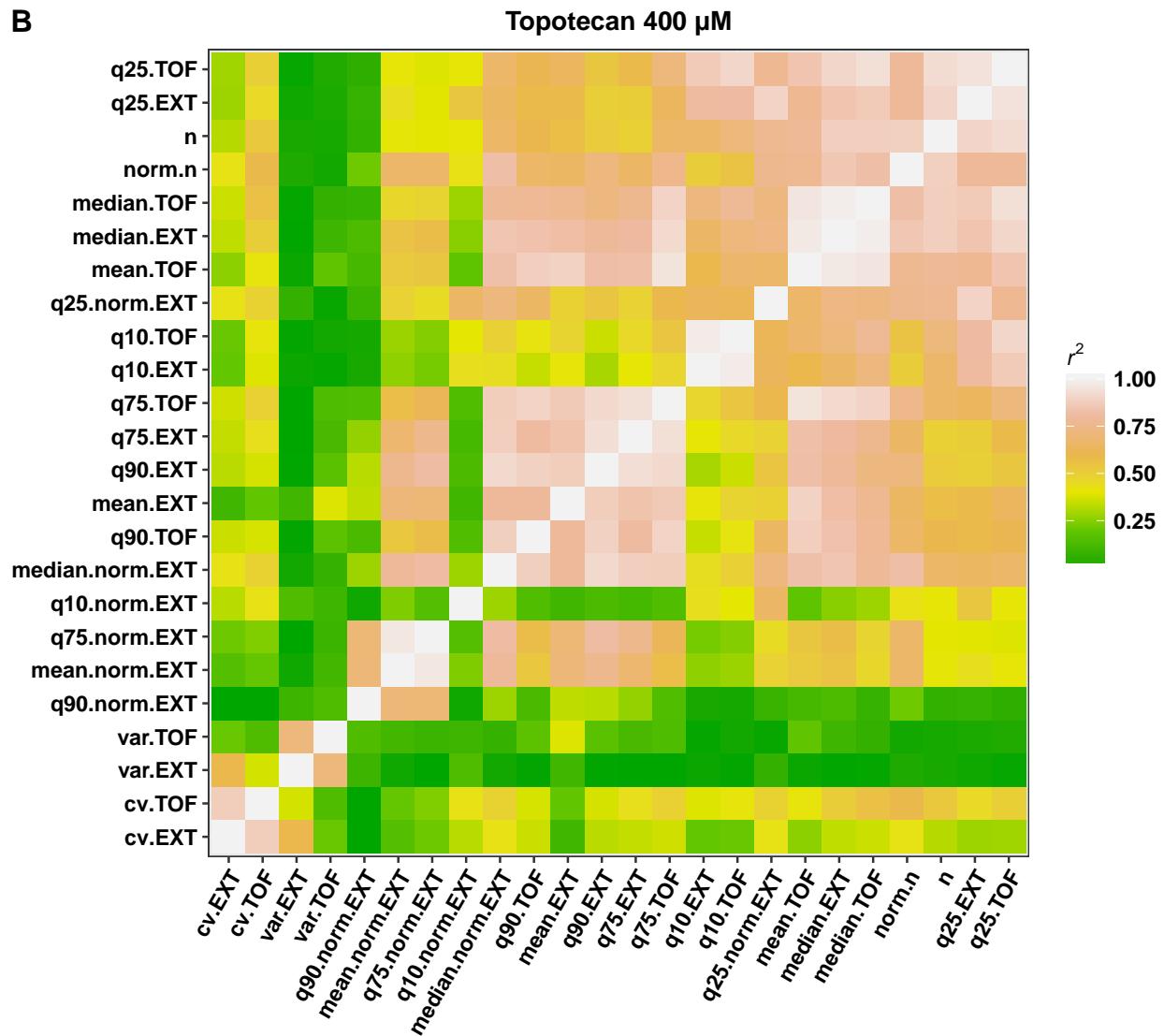
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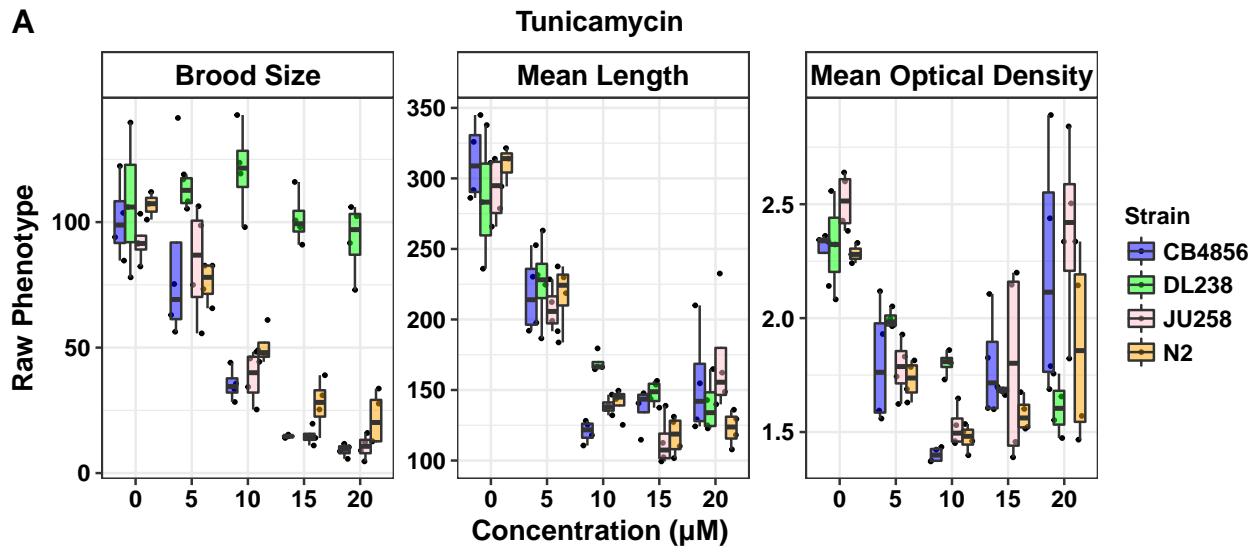
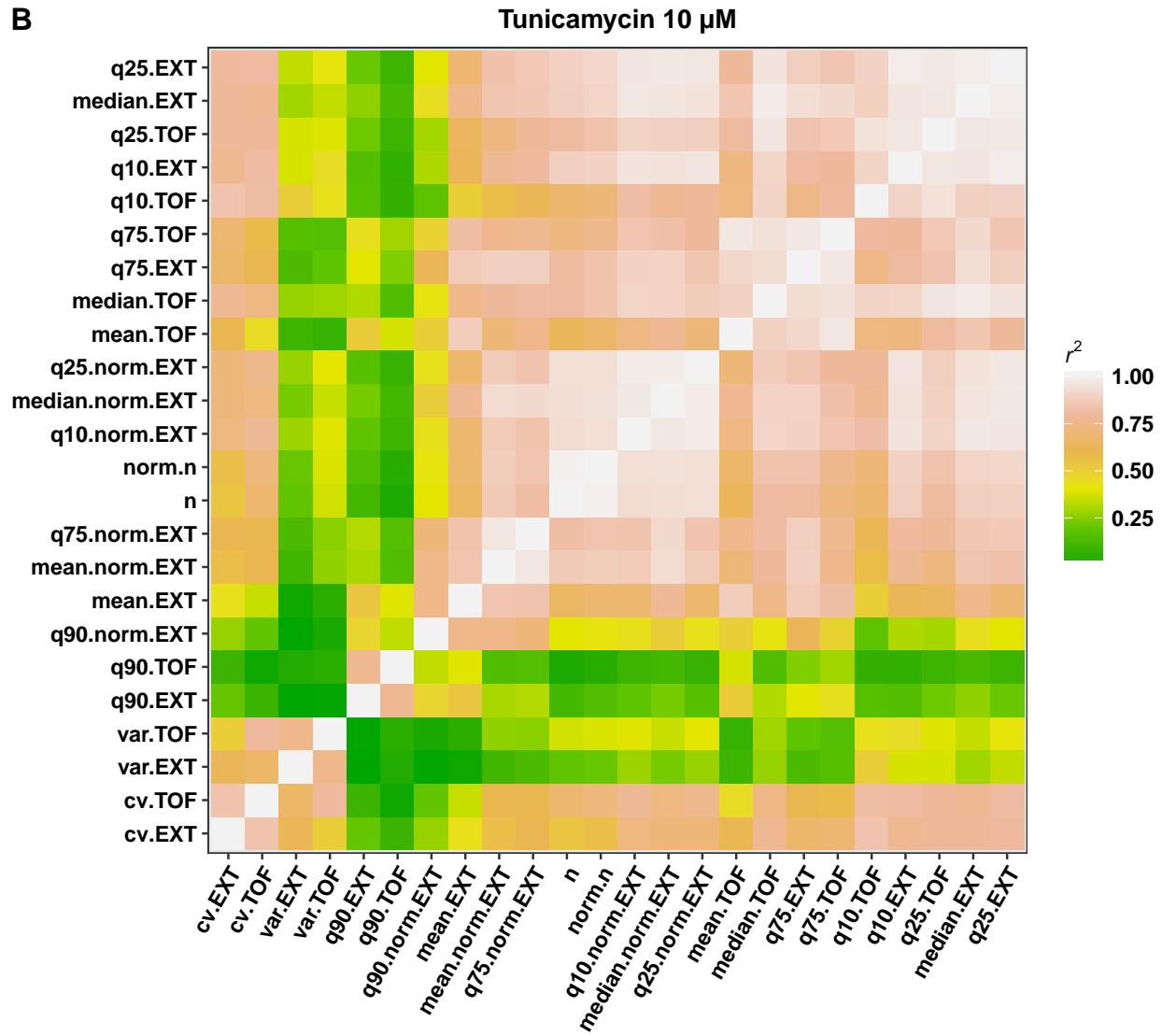
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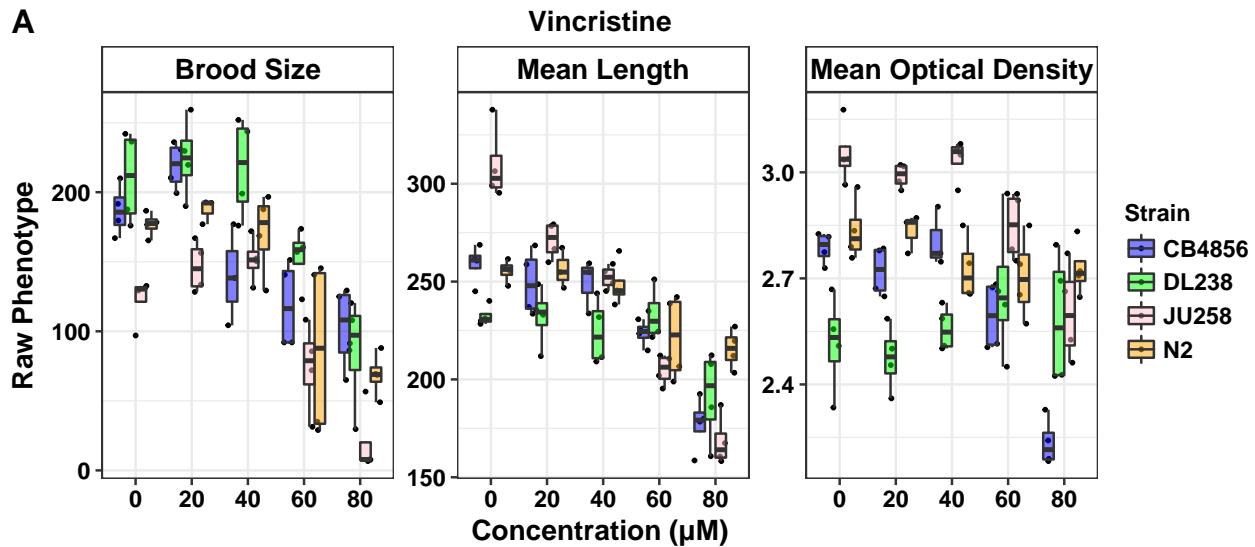
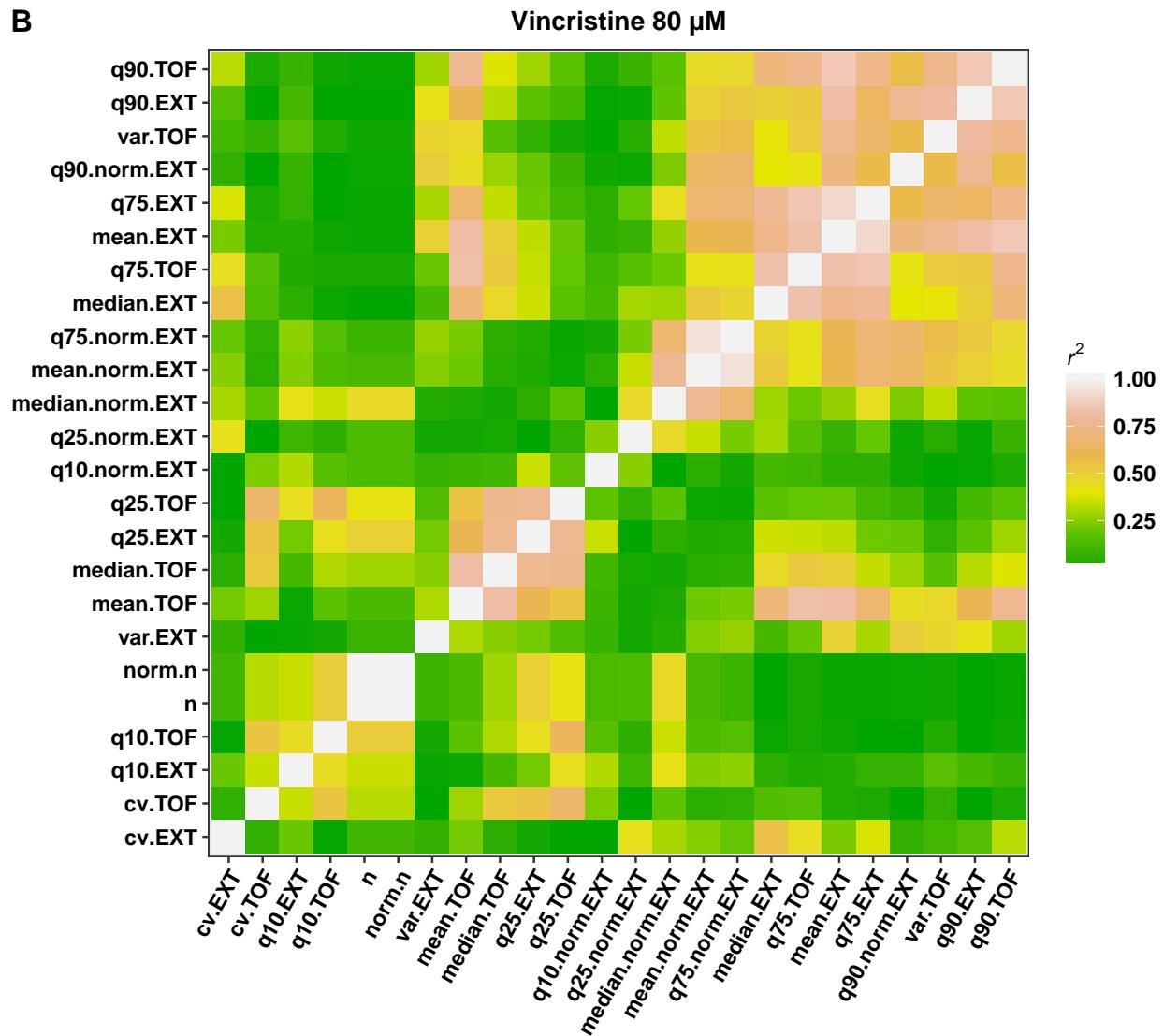


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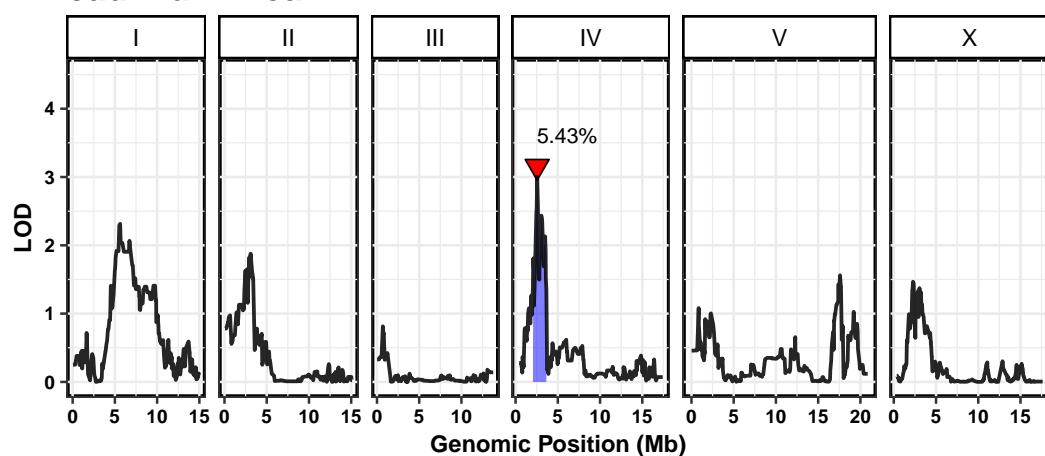
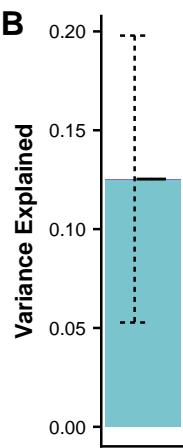
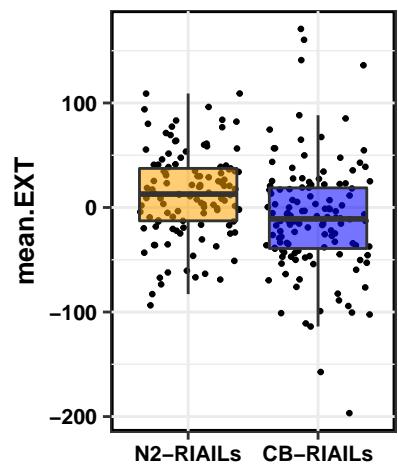


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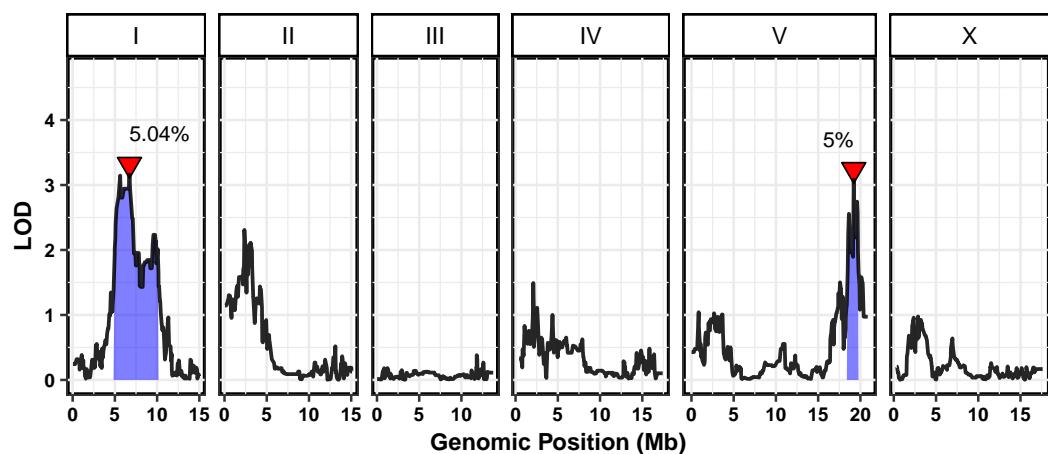
**A****B**

**A****B**

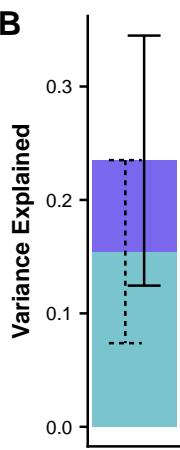
**Figure S1** Dose-response and trait correlation estimates. **(A)** Raw phenotypic values for four divergent strains, CB4856 (blue), DL238 (green), JU258 (pink), and N2 (orange), in response to various concentrations of each toxin are plotted as Tukey box plots. Toxin responses for traits representing 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 ( $\mu\text{M}$ ) 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**

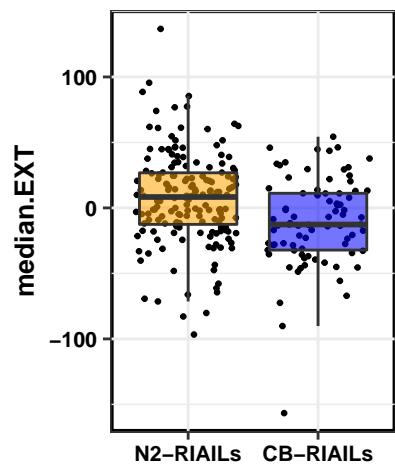
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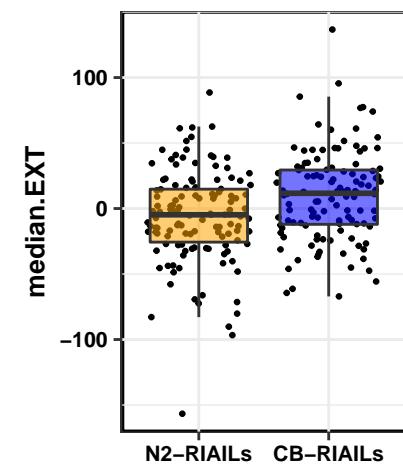
### B

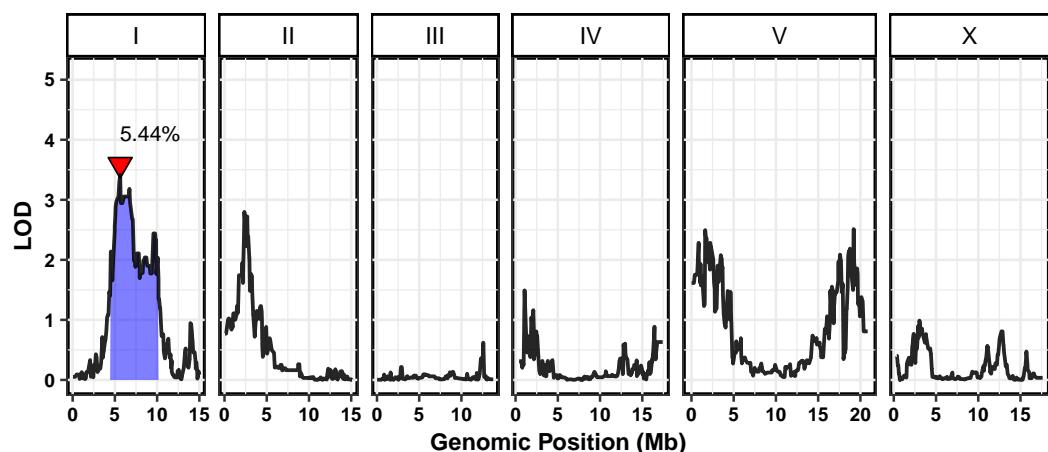
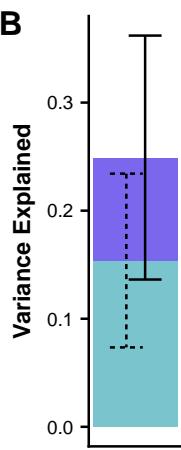
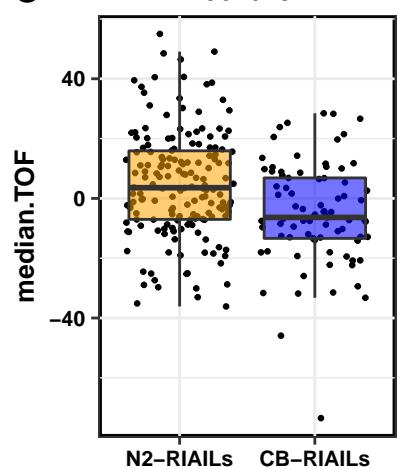


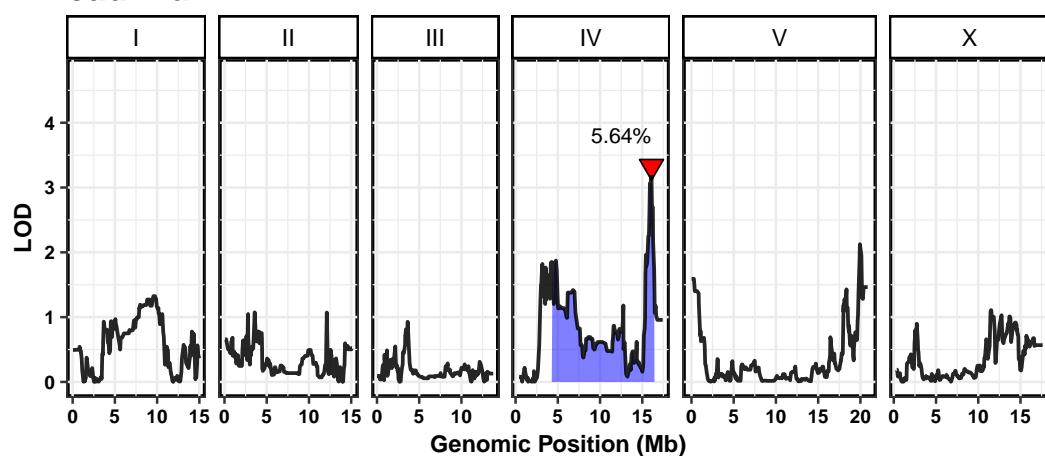
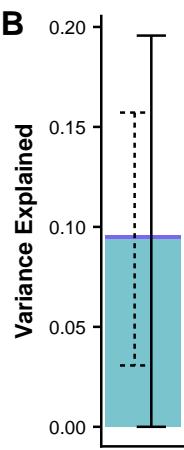
### C I:6724980



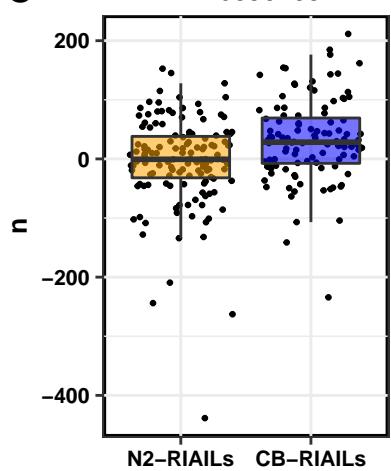
V:19210948



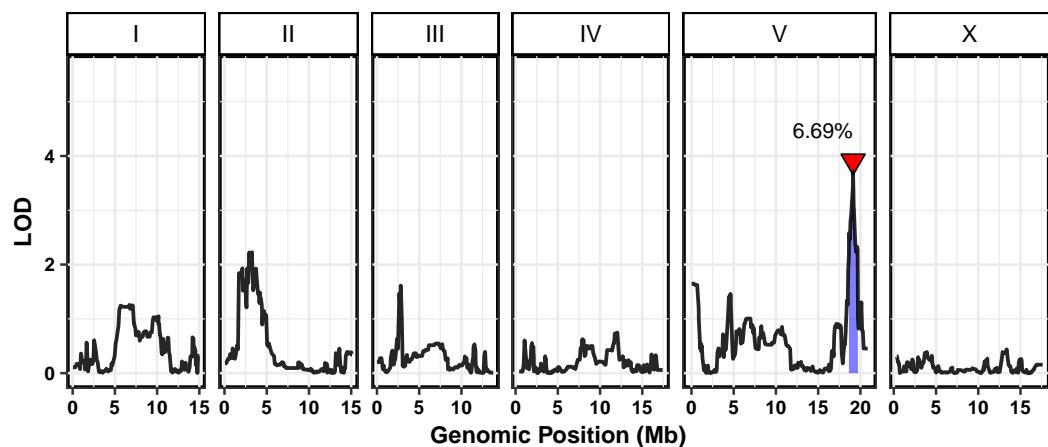
**A cadmium.median.TOF****B****C I:5626781**

**A cadmium.n****B****C**

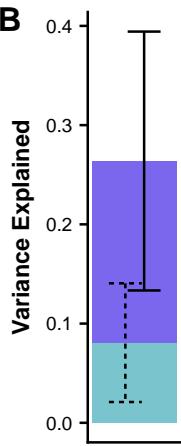
IV:16090703



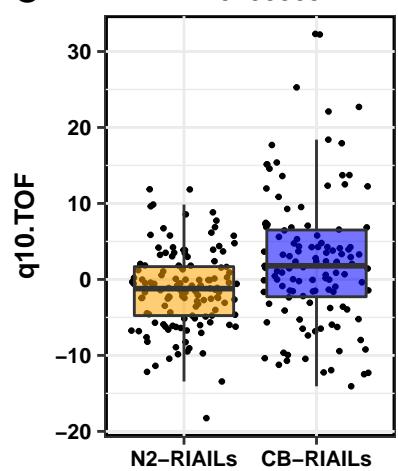
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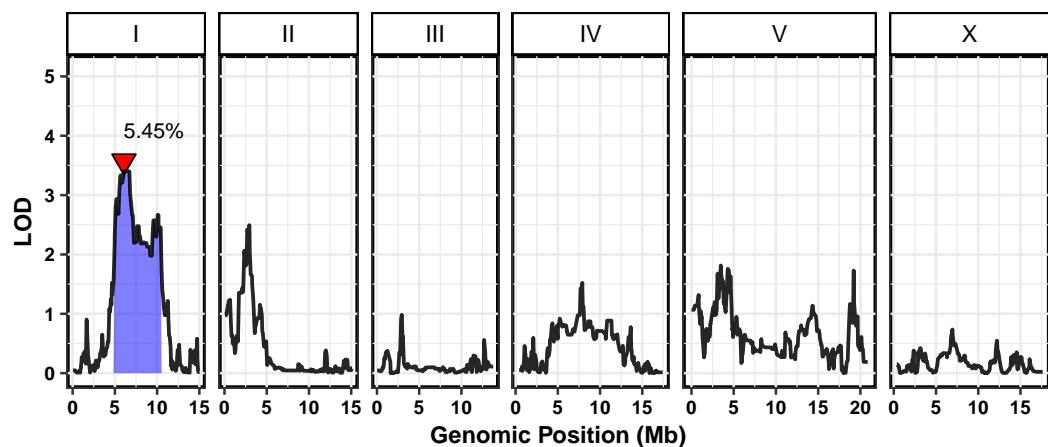
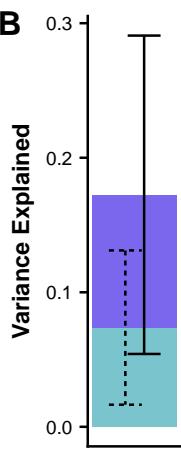
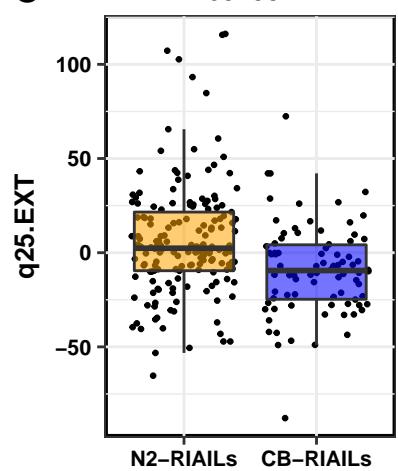


B

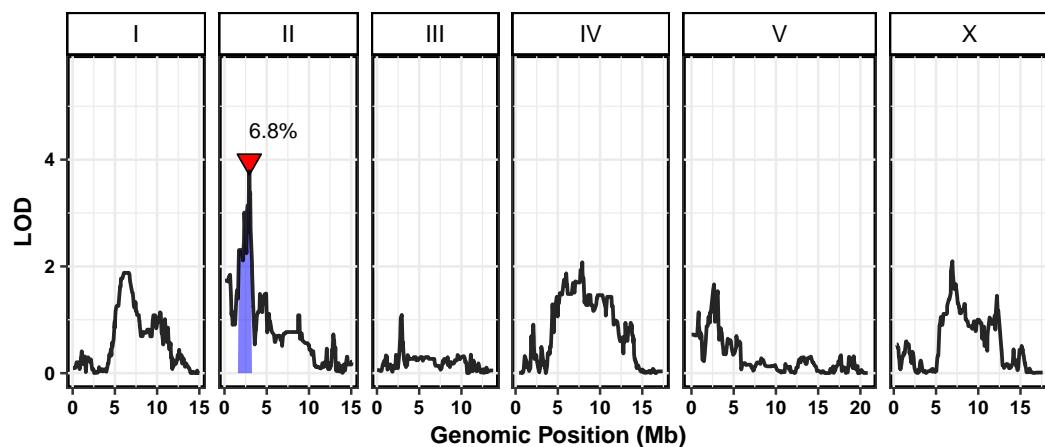


### C V:19135309

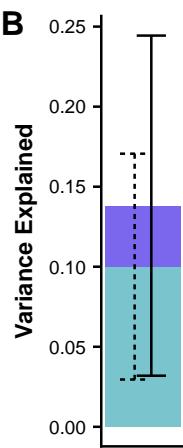


**A cadmium.q25.EXT****B****C I:6070814**

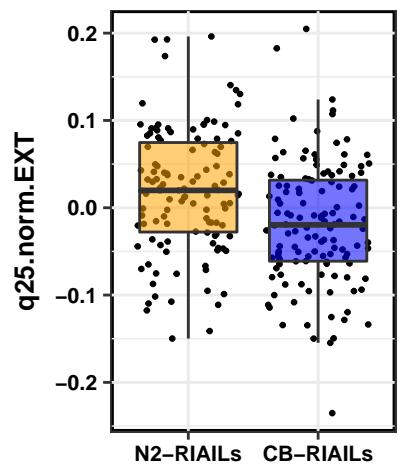
### A cadmium.q25.norm.EXT



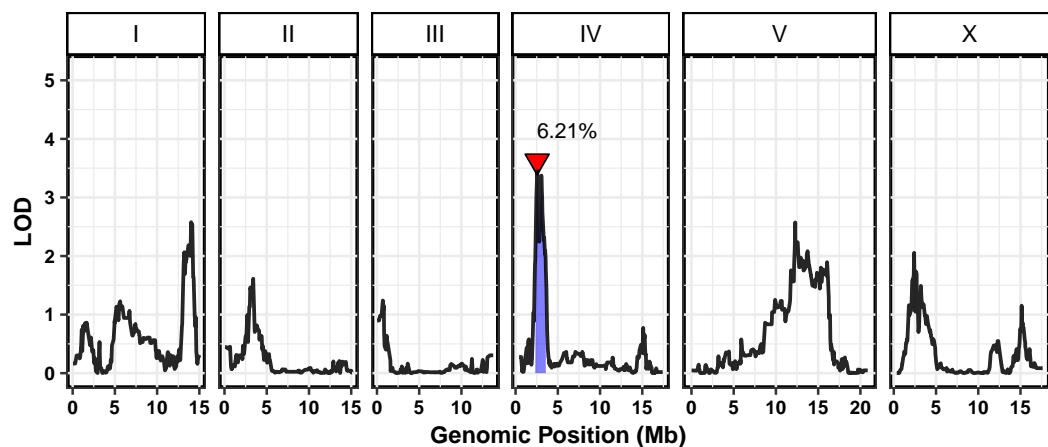
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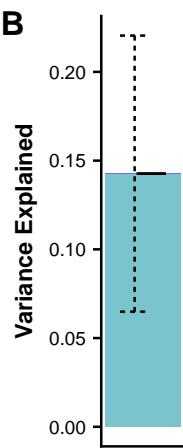
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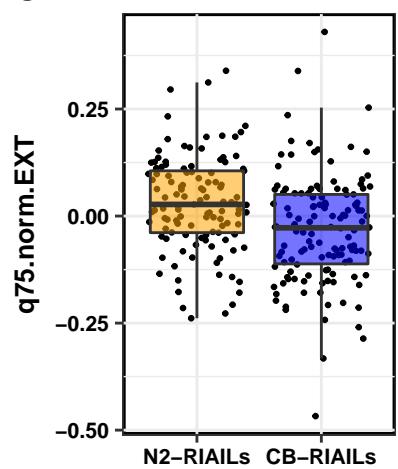
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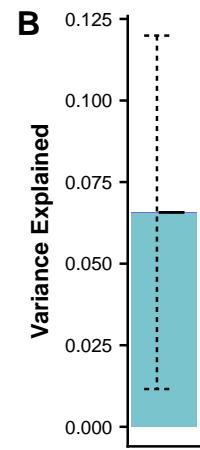
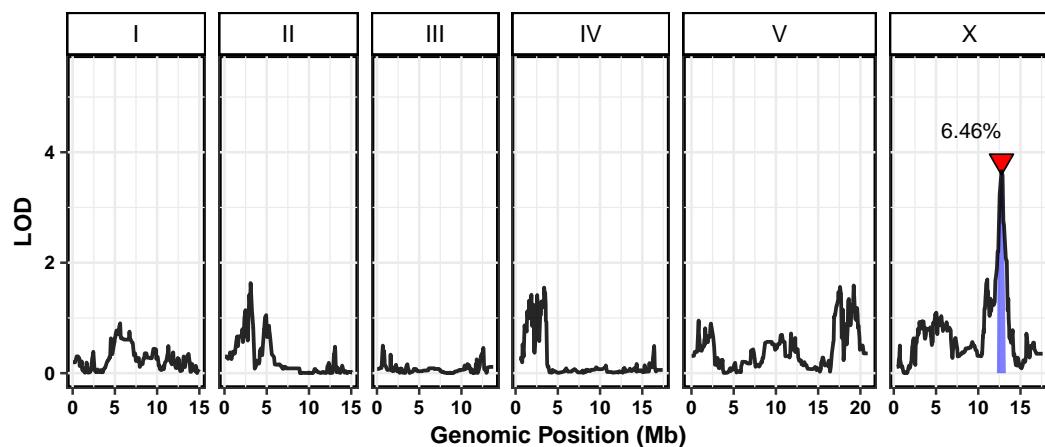
### B



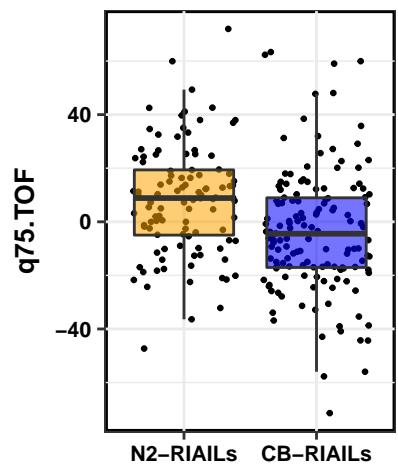
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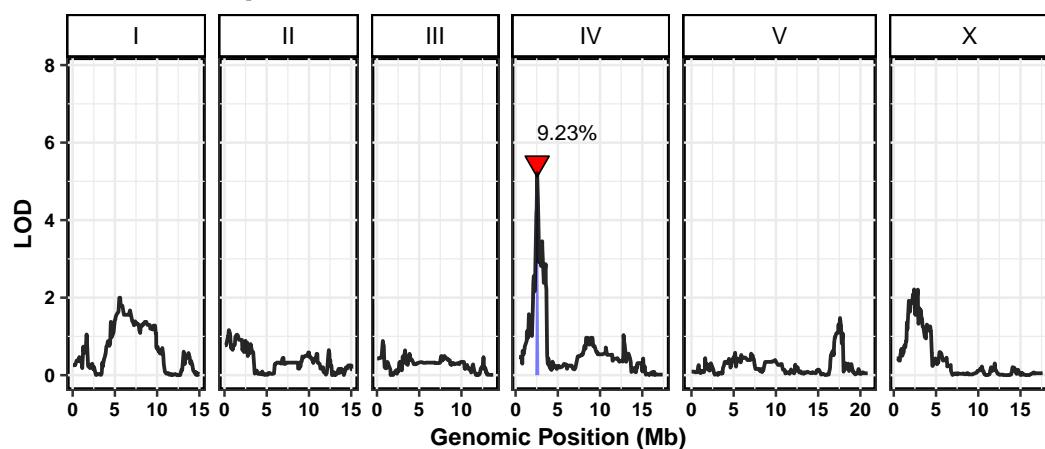
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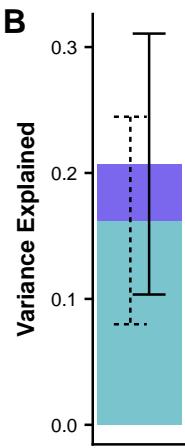
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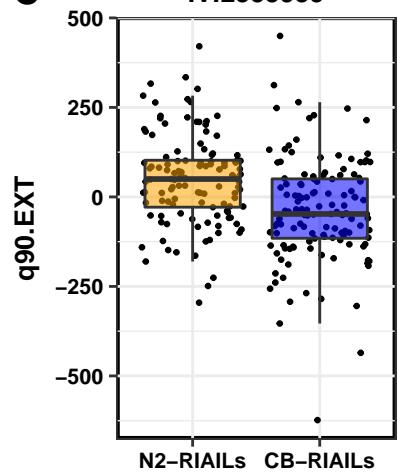
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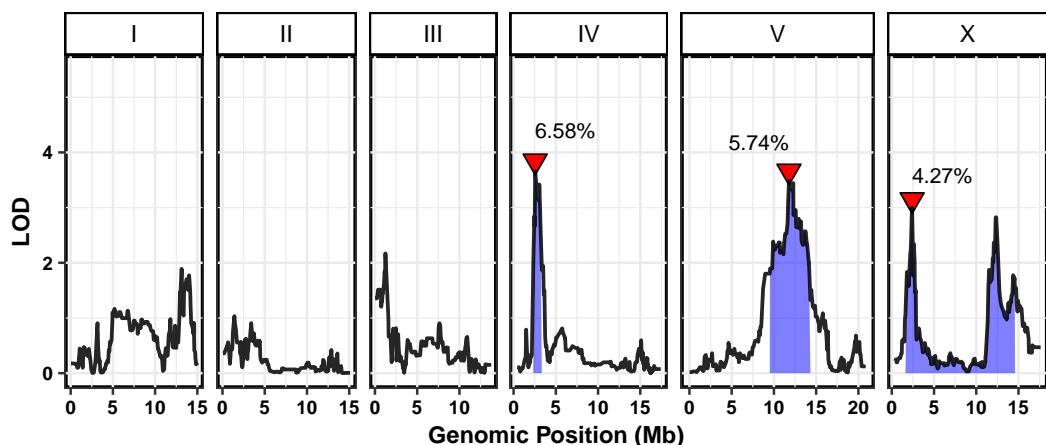
### B



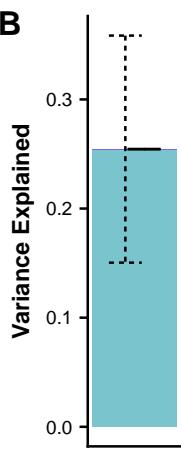
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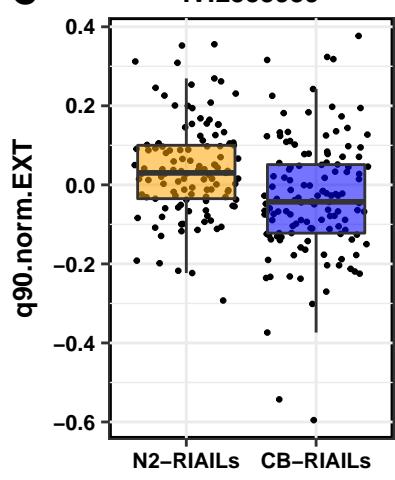
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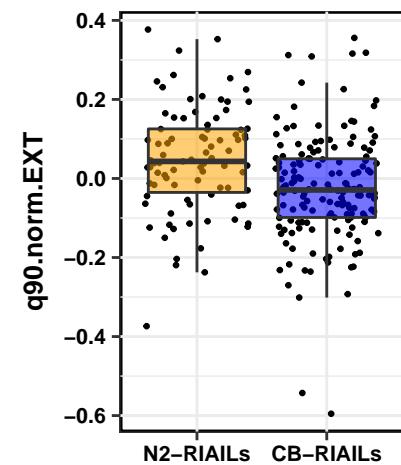
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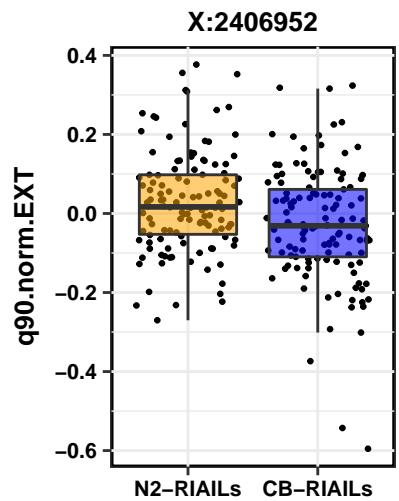


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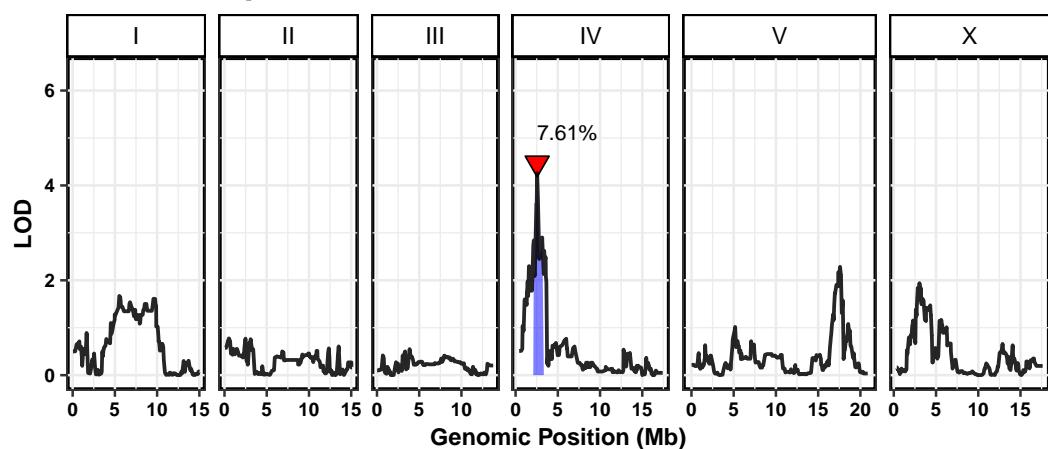


V:11779486

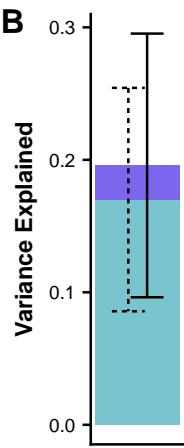




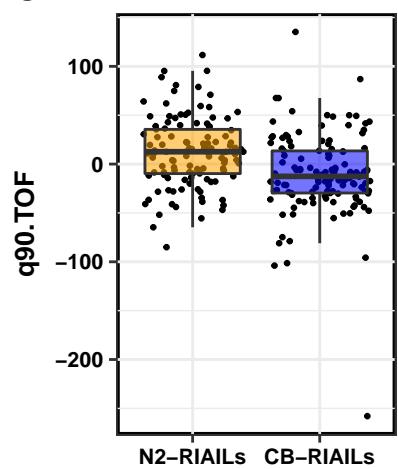
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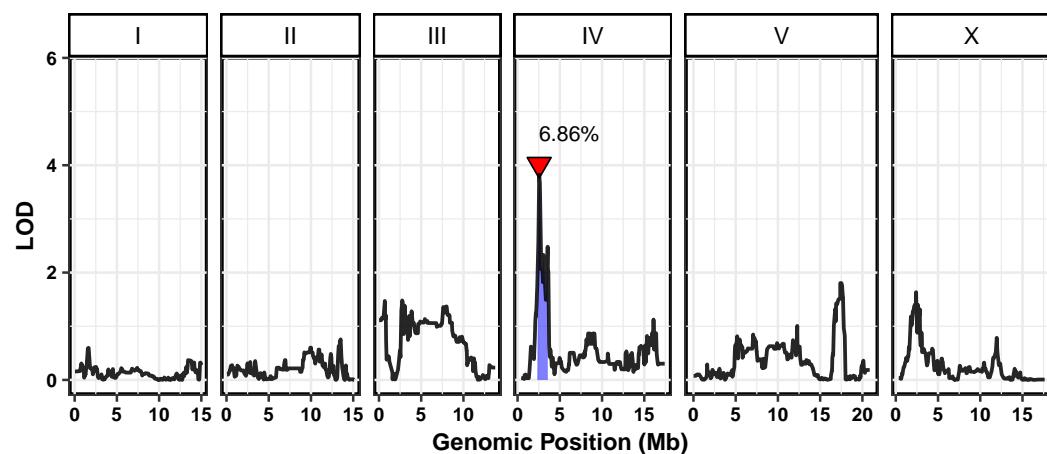
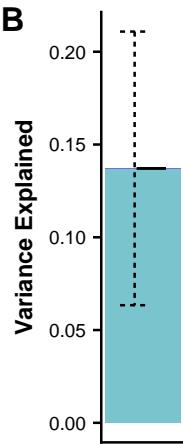
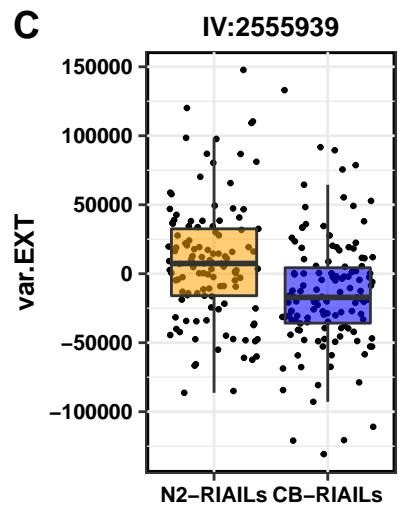


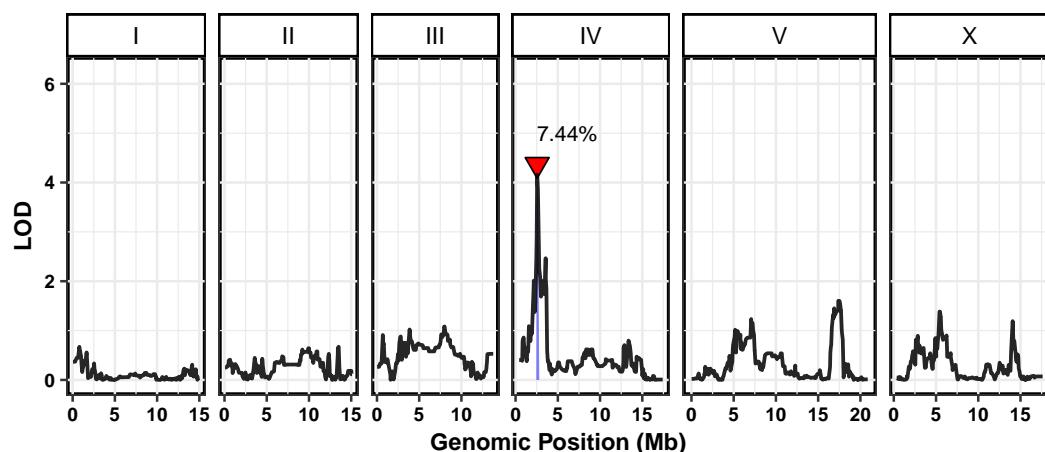
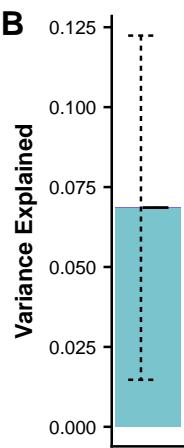
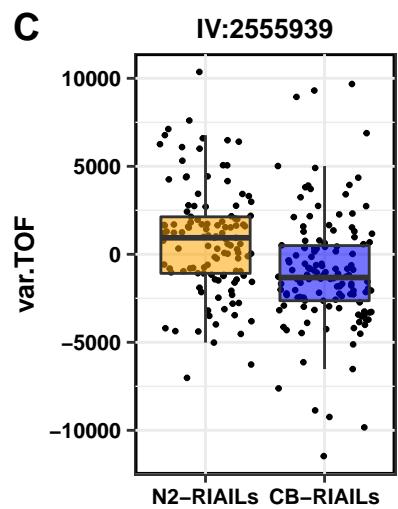
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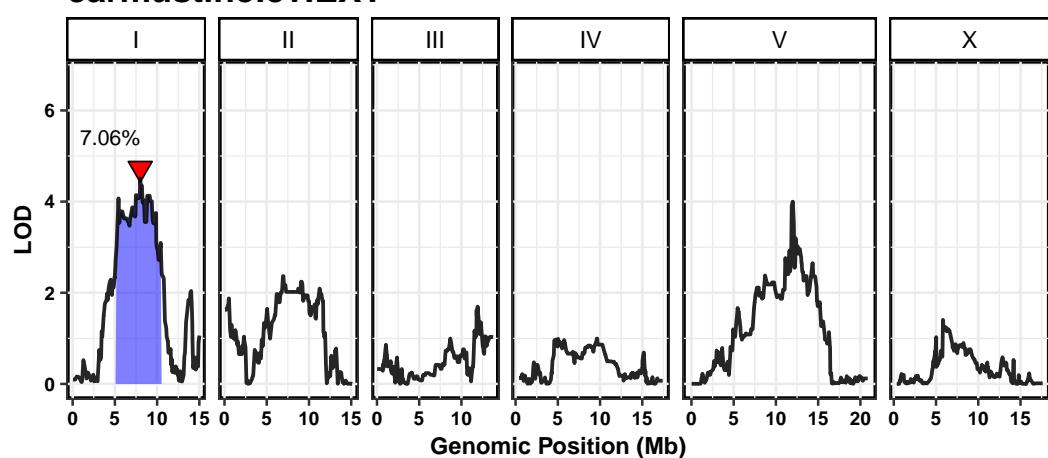
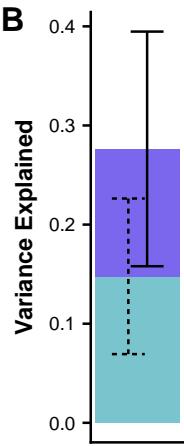
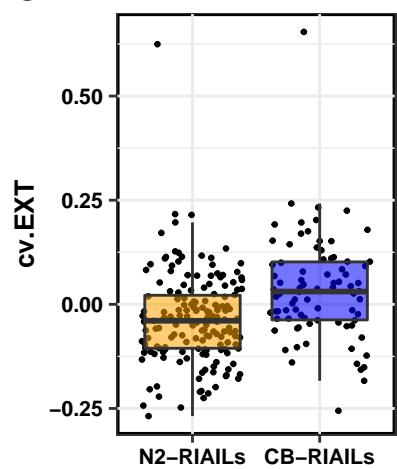


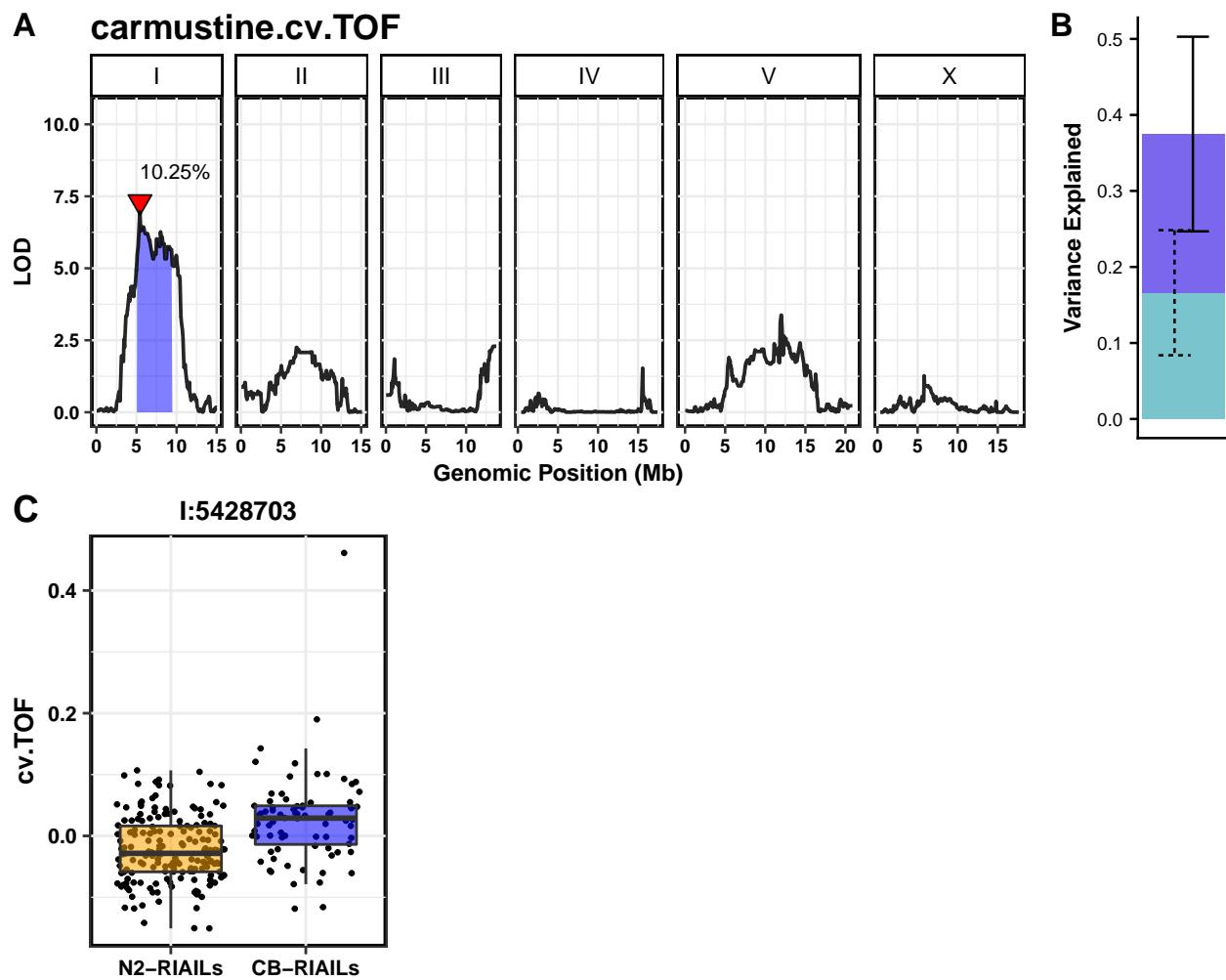
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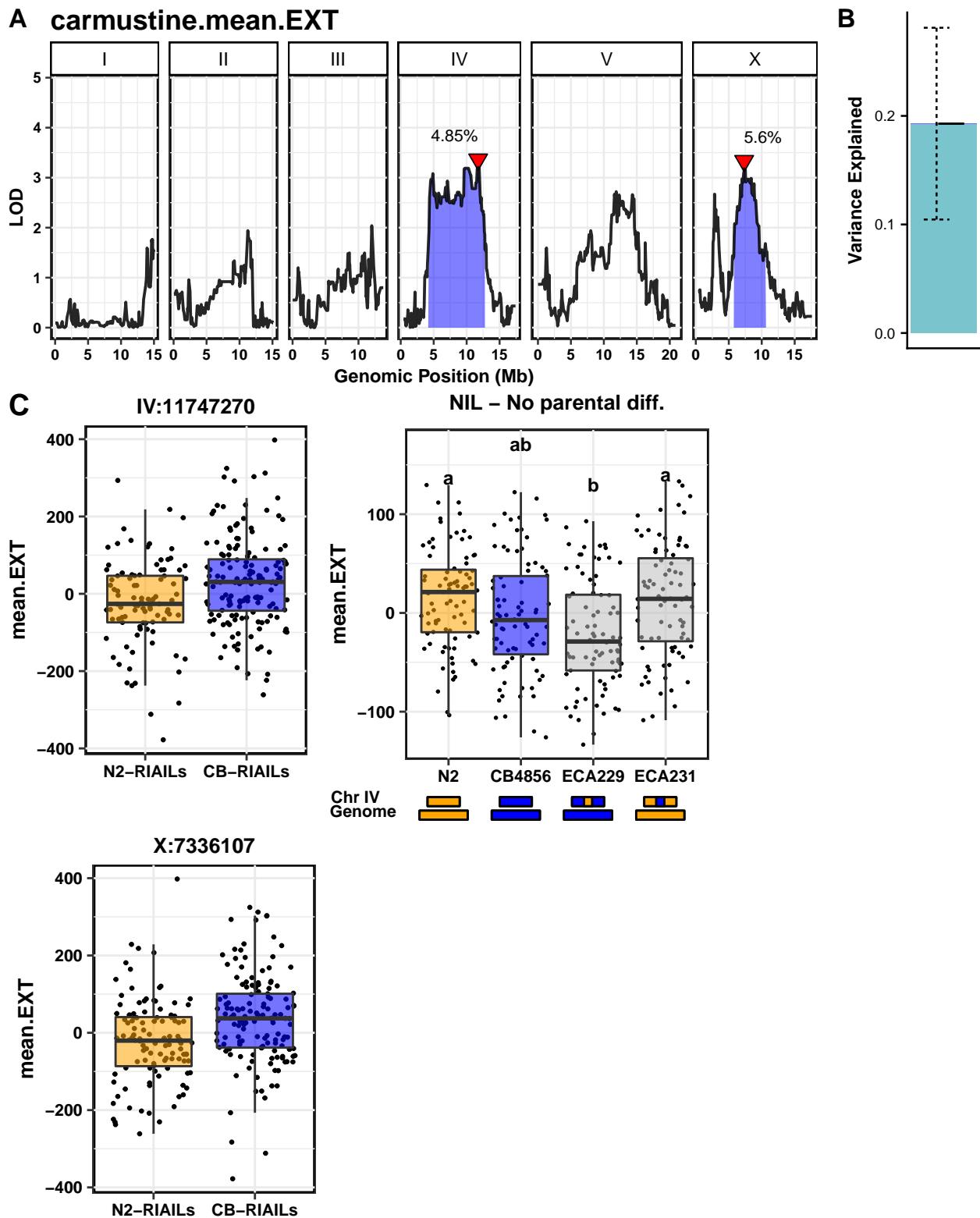


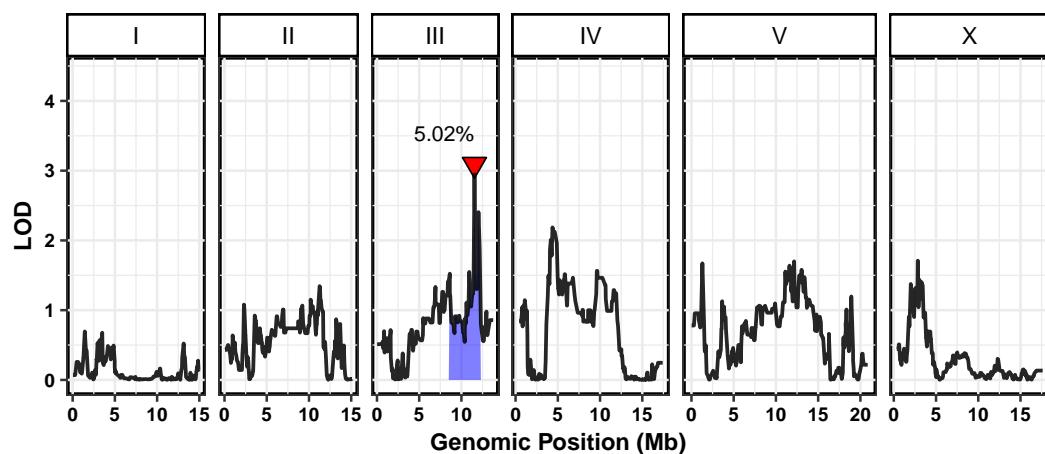
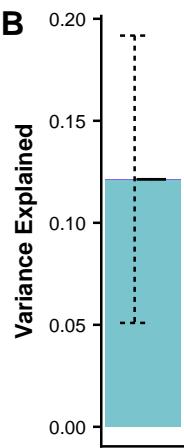
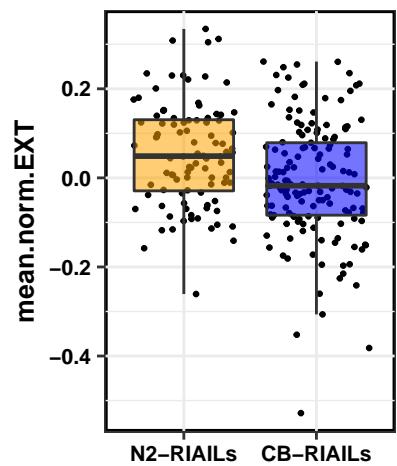
**A cadmium.var.EXT****B****C**

**A cadmium.var.TOF****B****C**

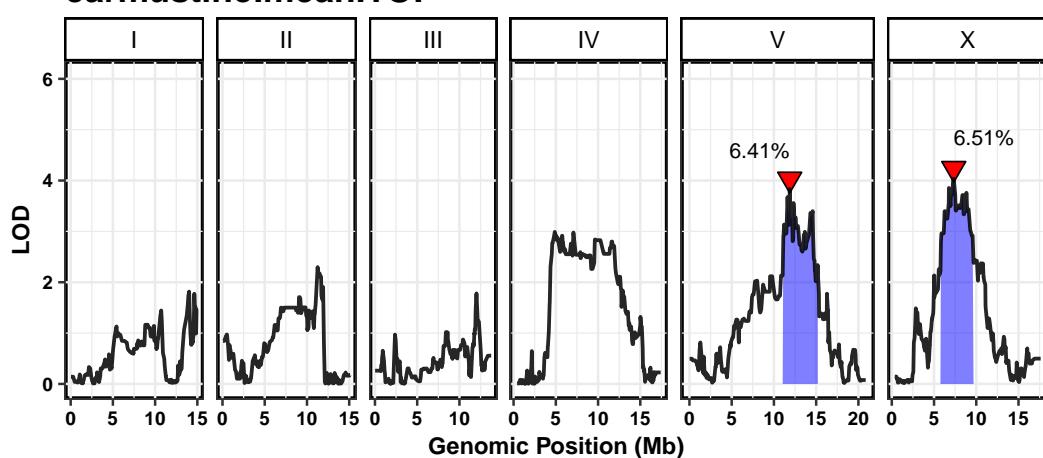
**A carmustine.cv.EXT****B****C I:7997352**



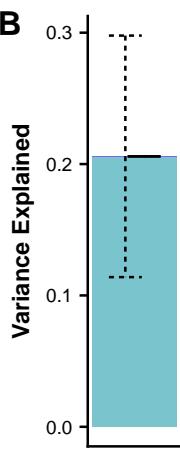


**A carmustine.mean.norm.EXT****B****C III:11543073**

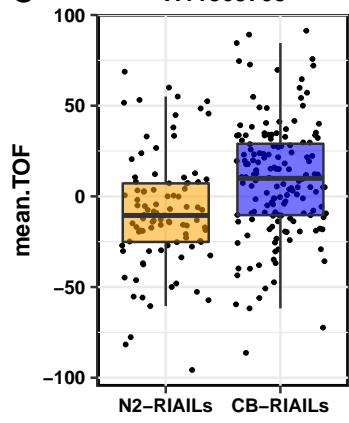
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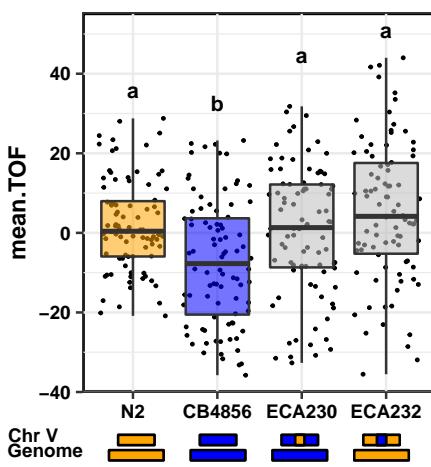
### B



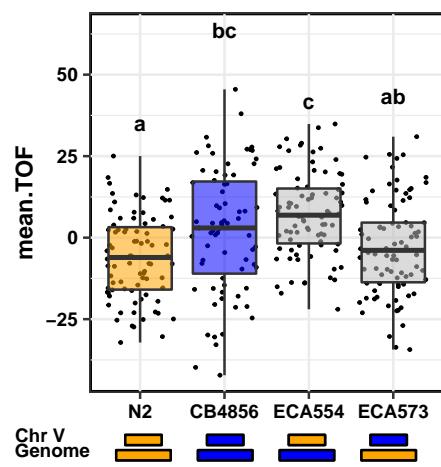
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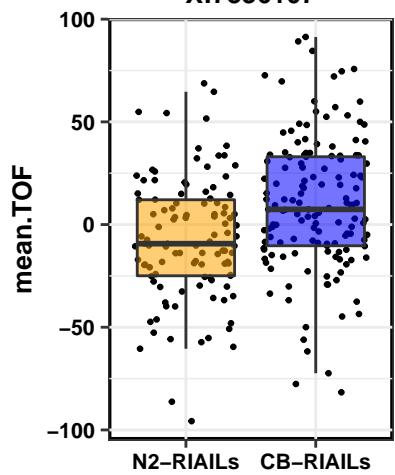
### NIL – Miscellaneous

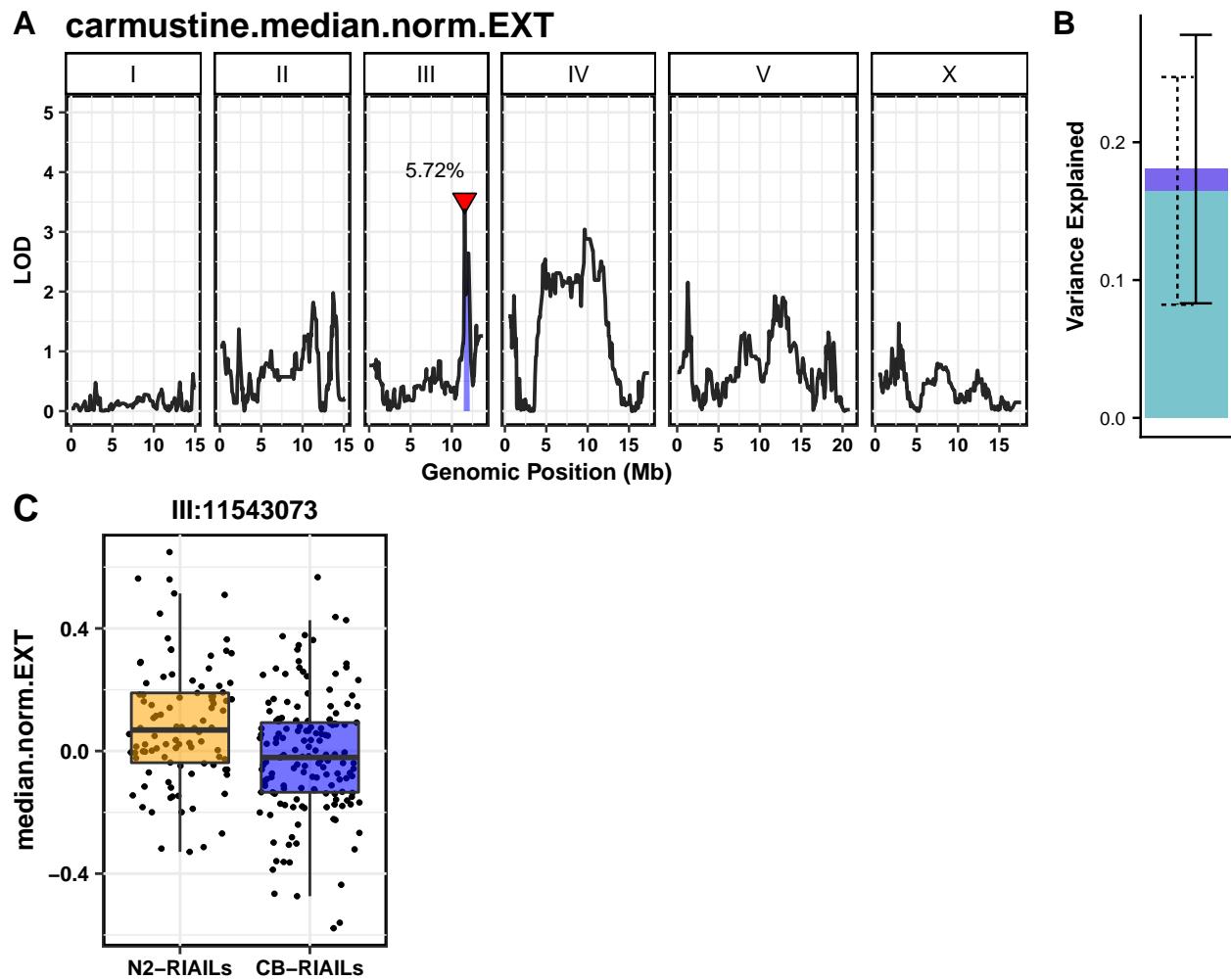


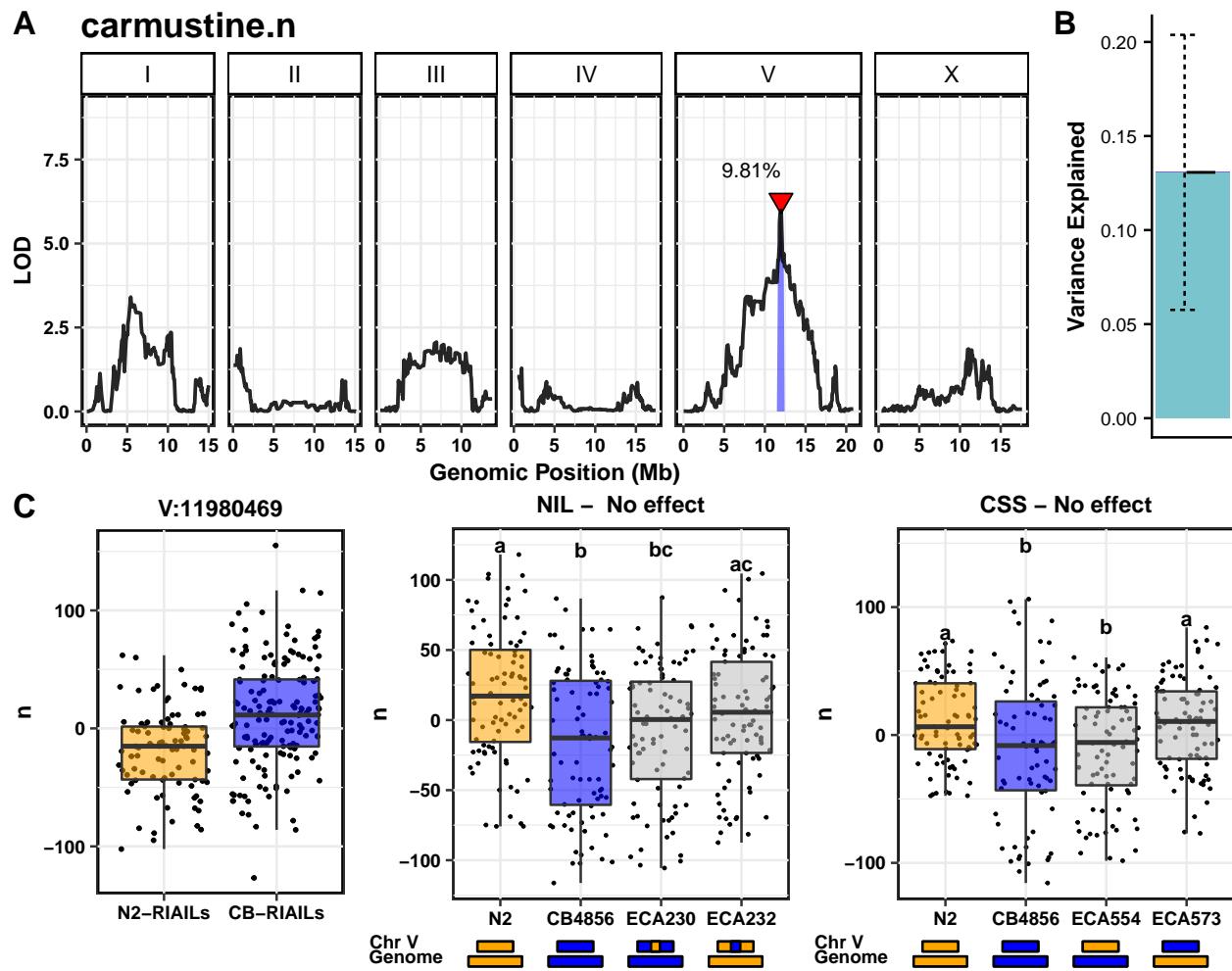
### CSS – No effect

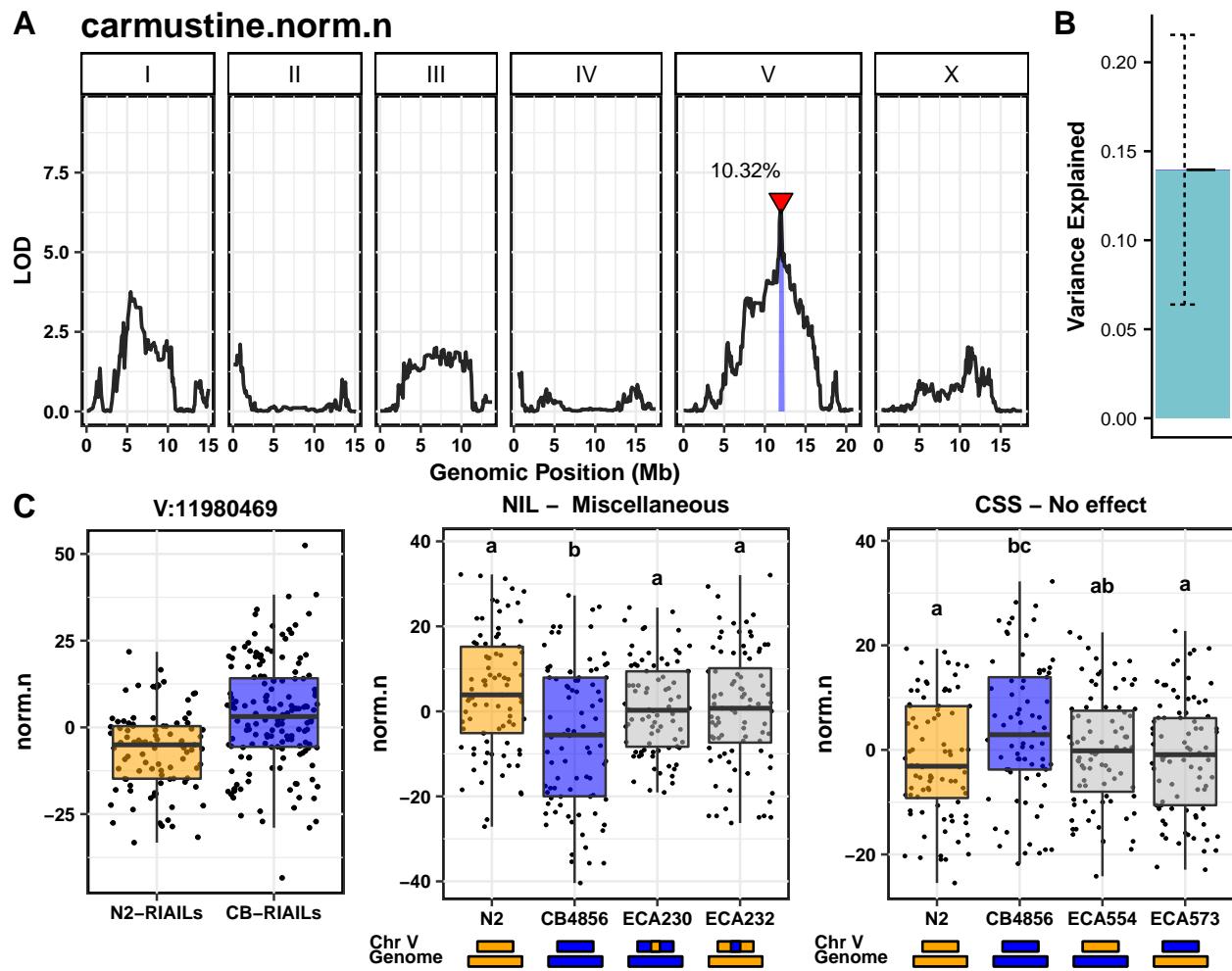


### X:7336107

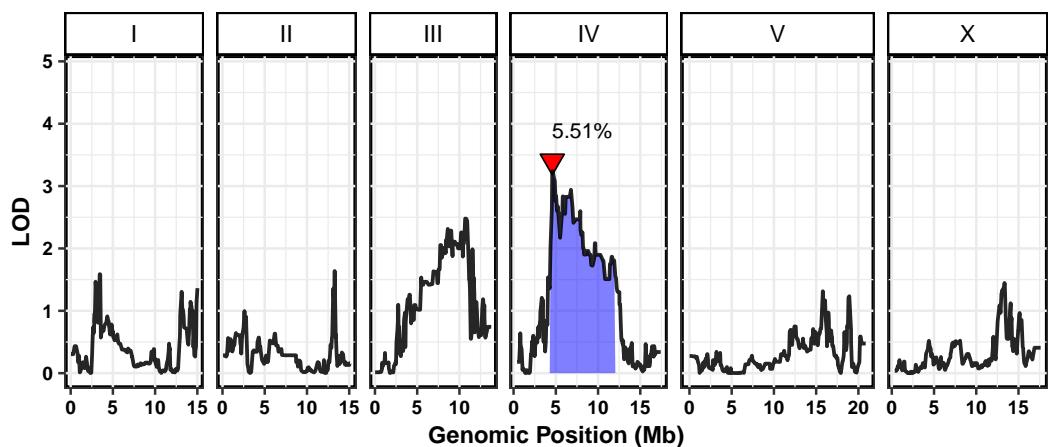




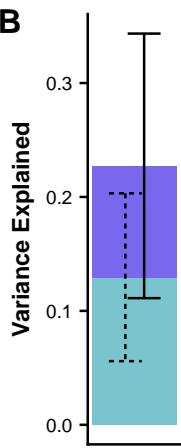




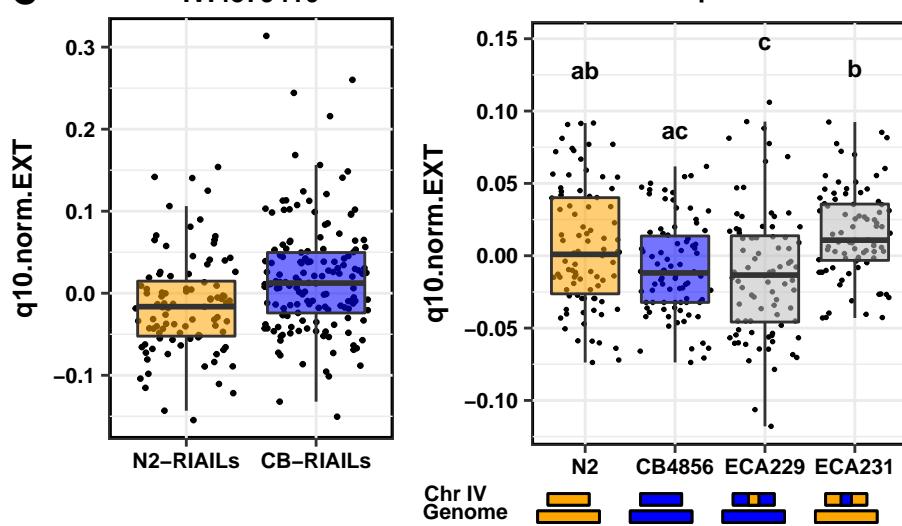
### A carmustine.q10.norm.EXT



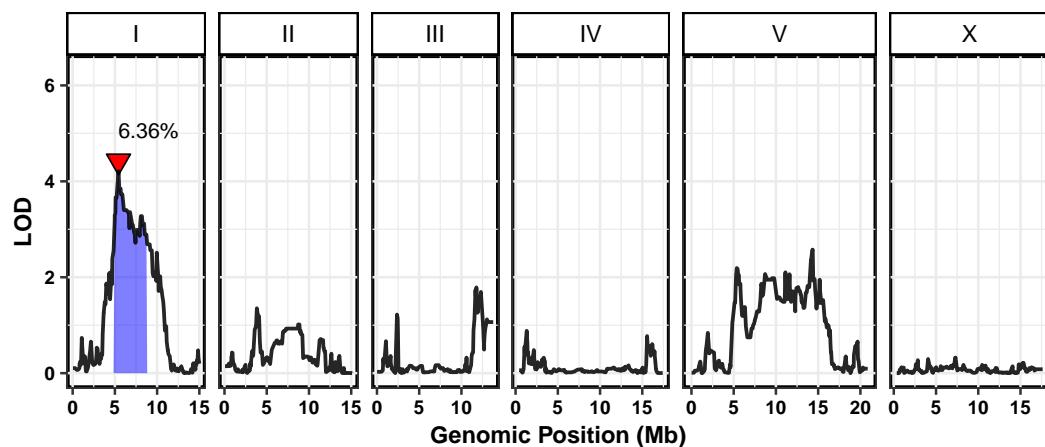
### B



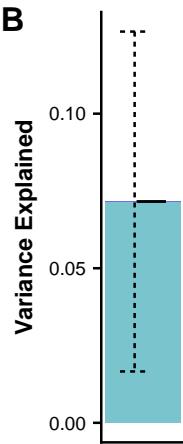
### C IV:4579410



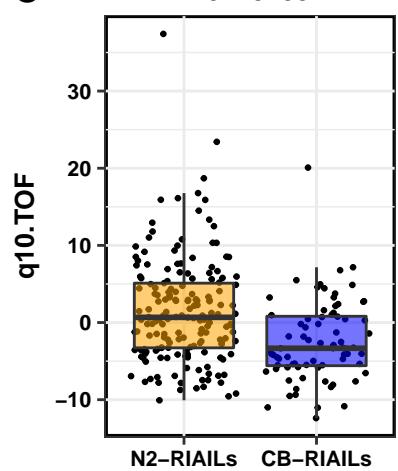
### A carmustine.q10.TOF



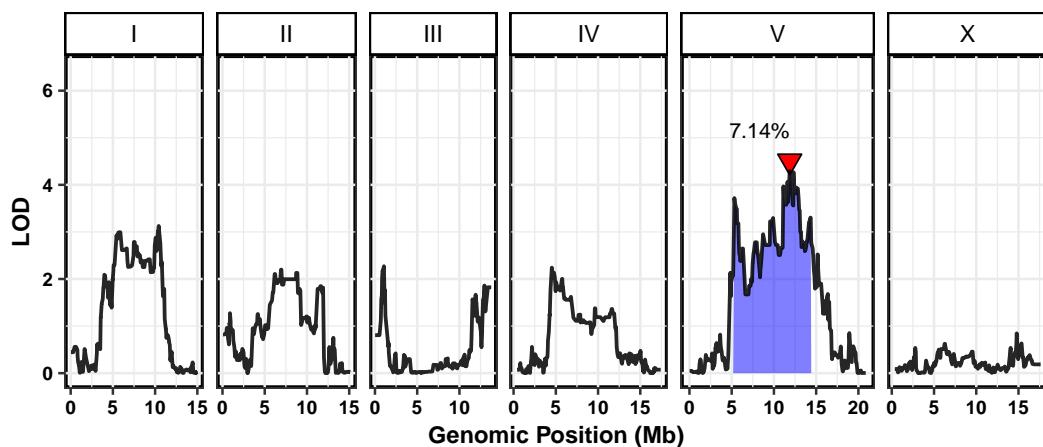
### B



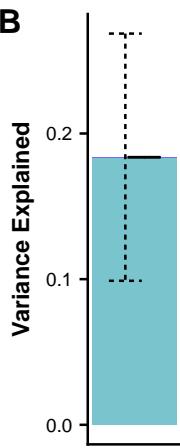
### C I:5428703



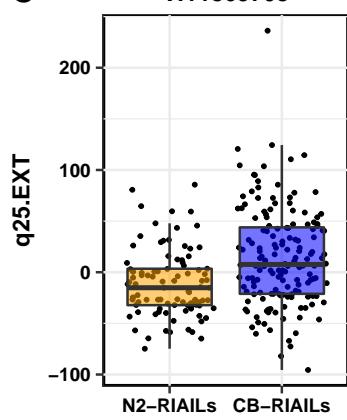
### A carmustine.q25.EXT



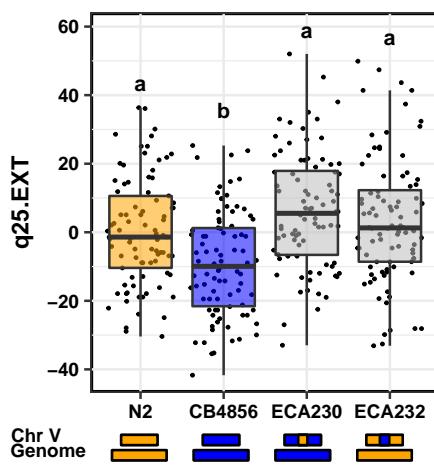
### B



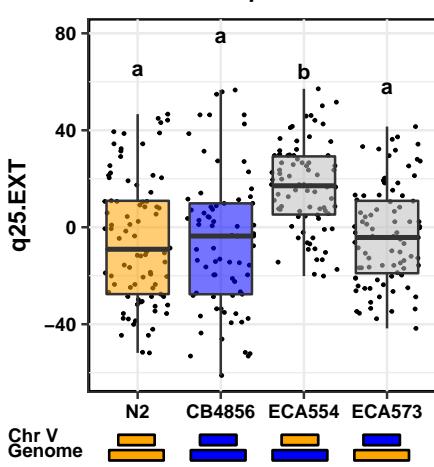
### C V:11869708



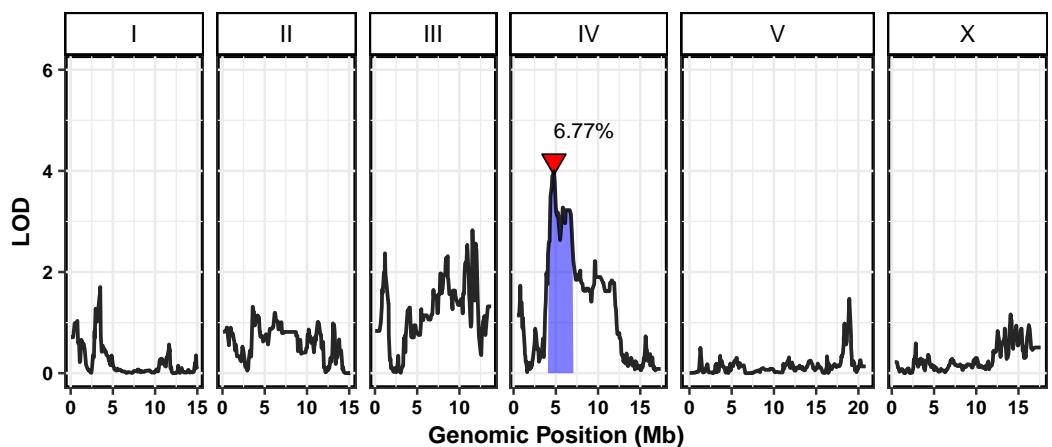
### NIL – Miscellaneous



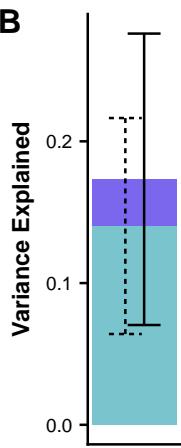
### CSS – No parental diff.



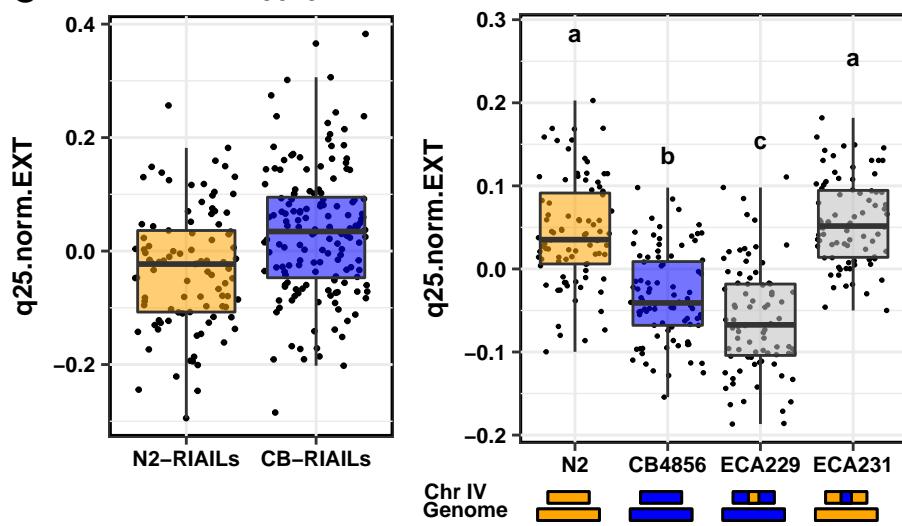
### A carmustine.q25.norm.EXT



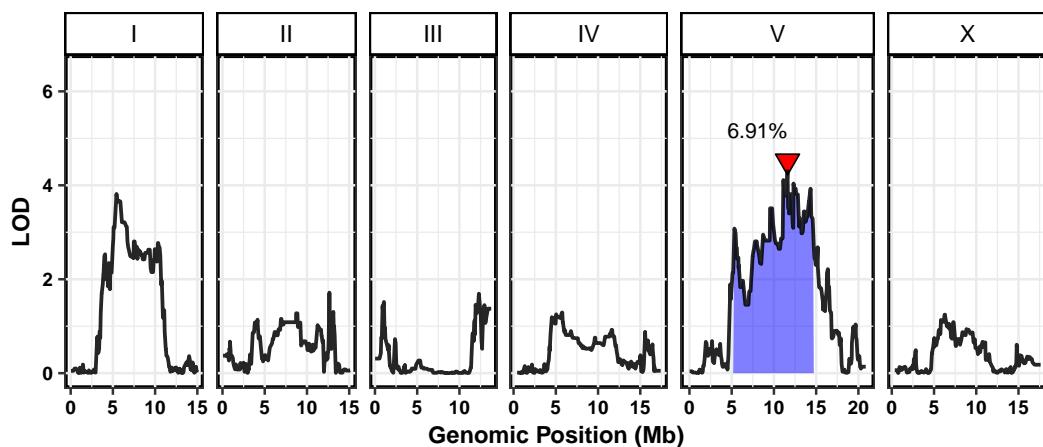
### B



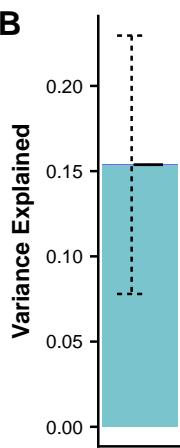
### C IV:4779025



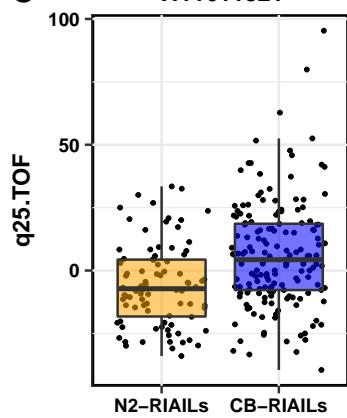
### A carmustine.q25.TOF



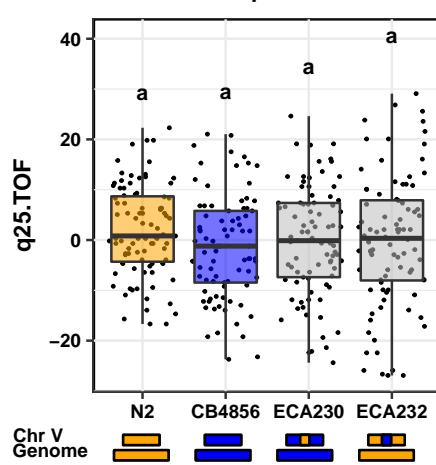
### B



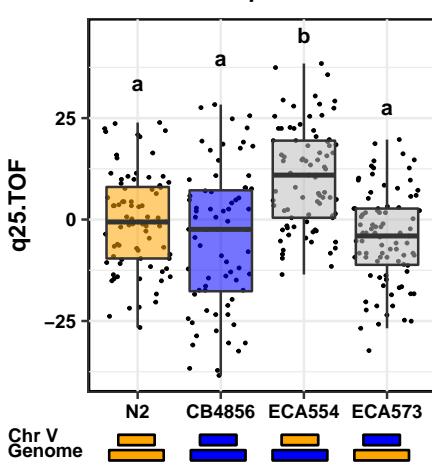
### C V:11611821



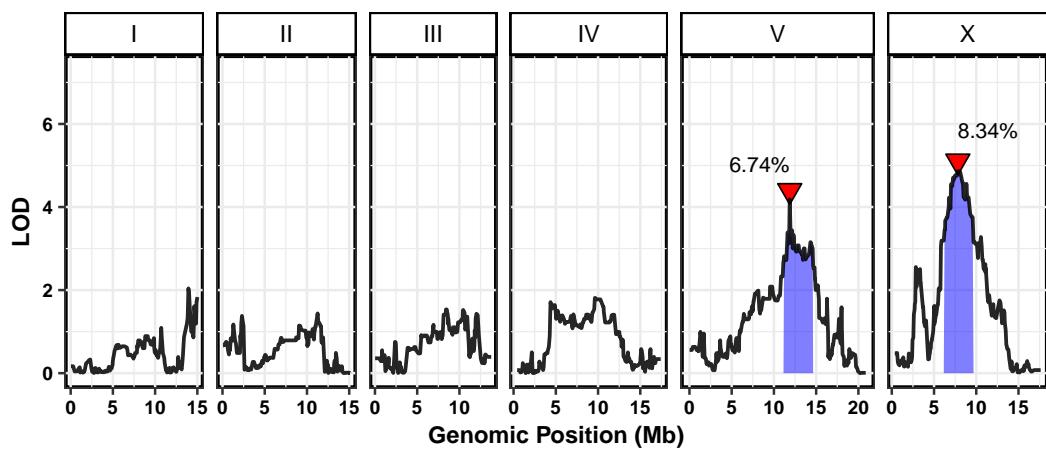
### NIL – No parental diff.



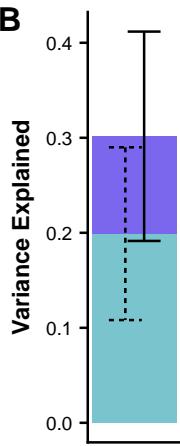
### CSS – No parental diff.



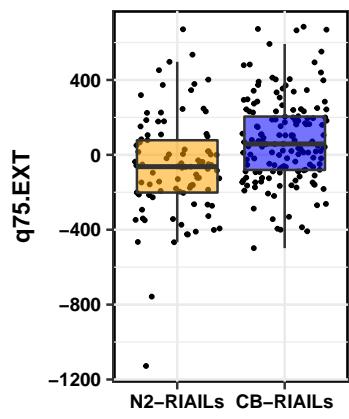
### A carmustine.q75.EXT



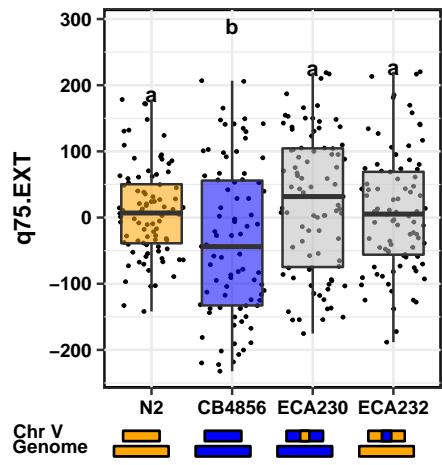
### B



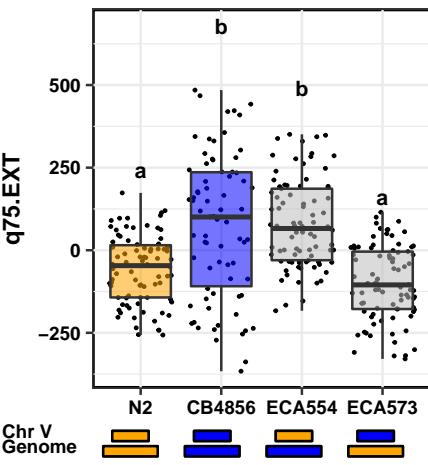
### C V:11869708



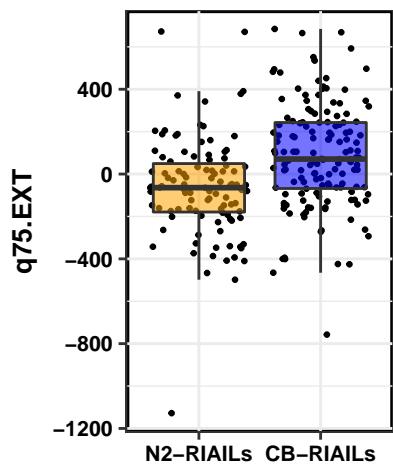
### NIL – Miscellaneous



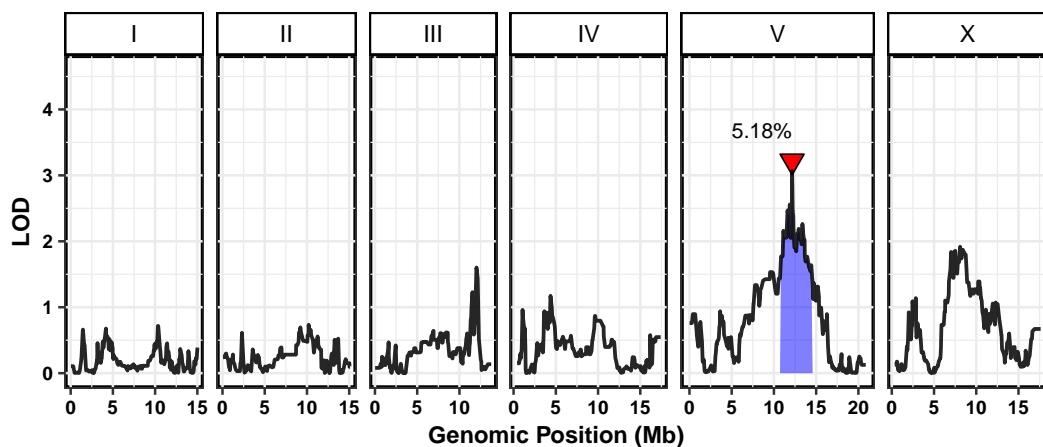
### CSS – No effect



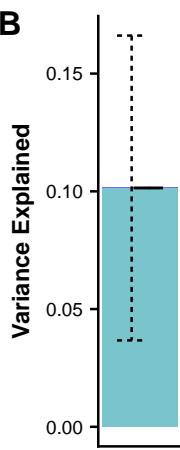
### X:7821527



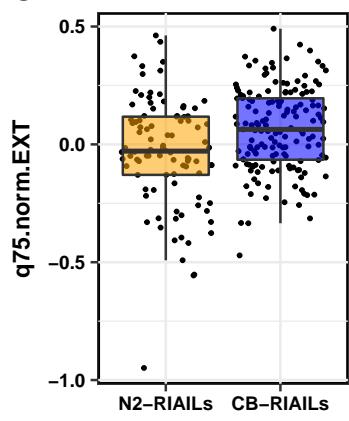
### A carmustine.q75.norm.EXT



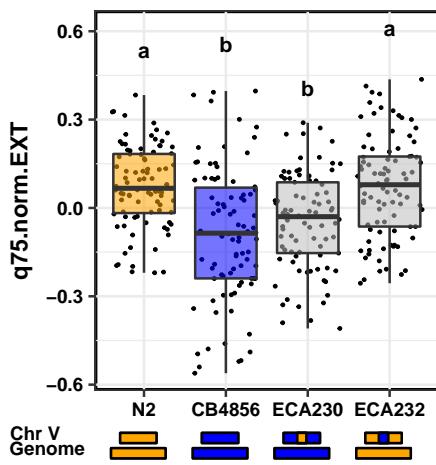
### B



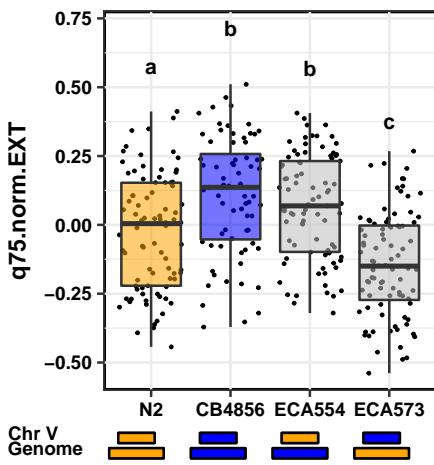
### C V:12153760



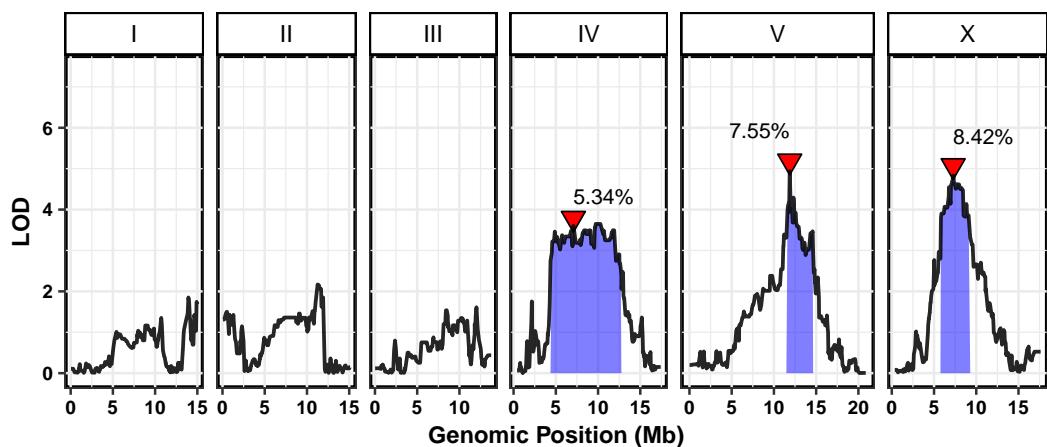
### NIL – No effect



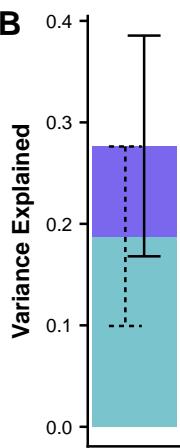
### CSS – Unidirectional



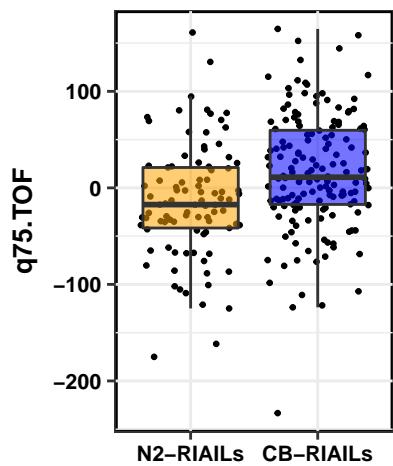
### A carmustine.q75.TOF



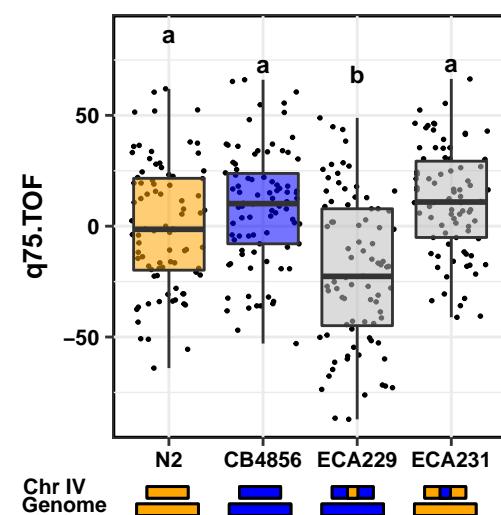
B



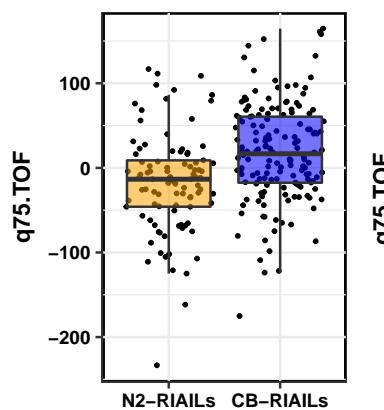
### C IV:7081695



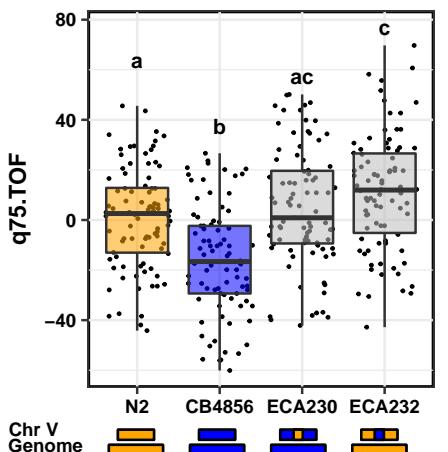
### NIL – No parental diff.



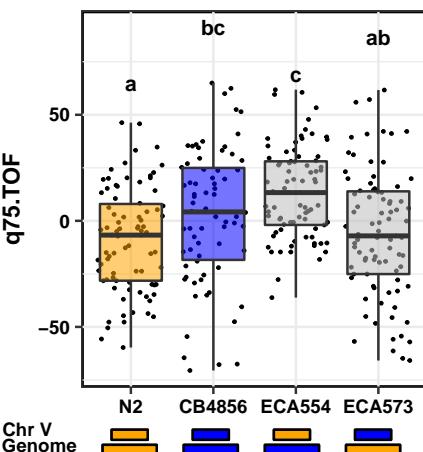
### V:11869708

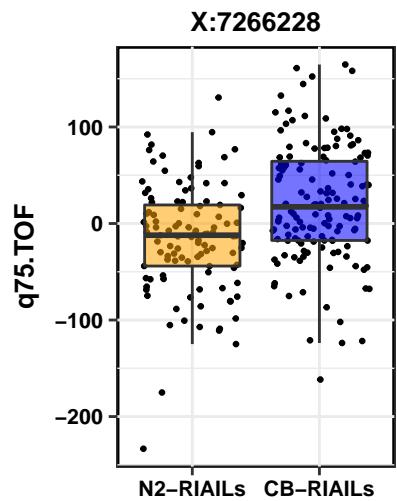


### NIL – Unidirectional

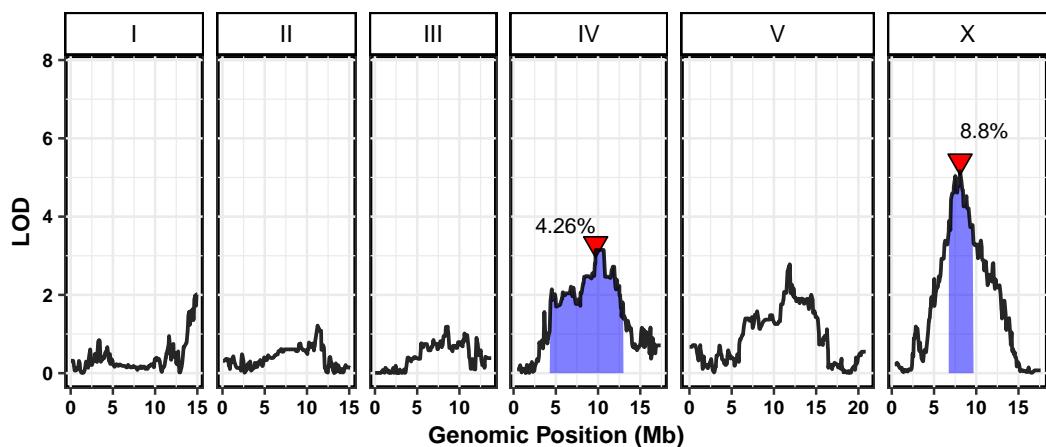


### CSS – No effect

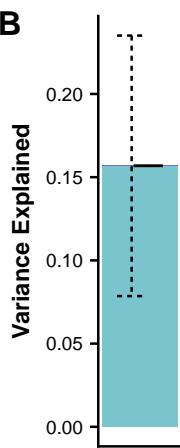




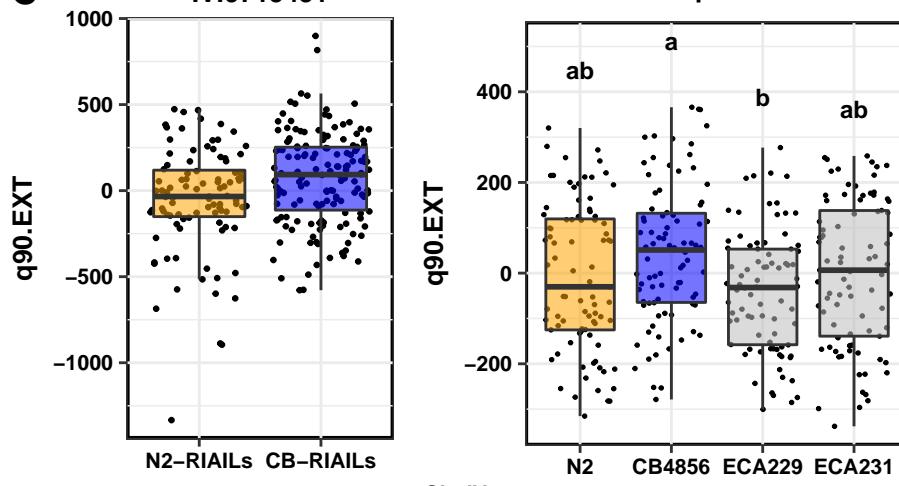
### A carmustine.q90.EXT



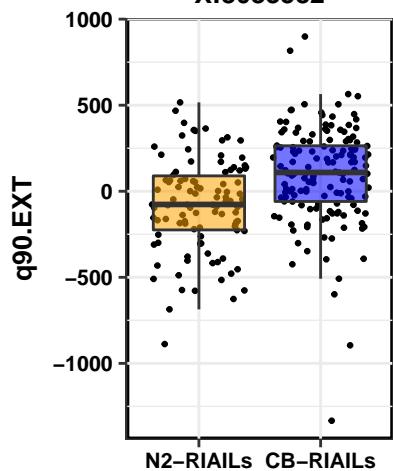
### B



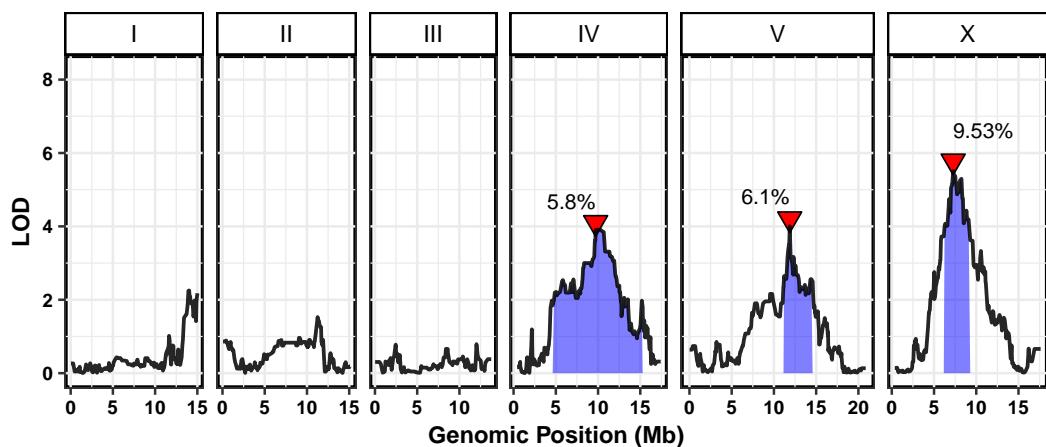
### C IV:9715431



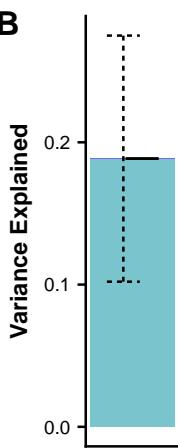
### X:8083582



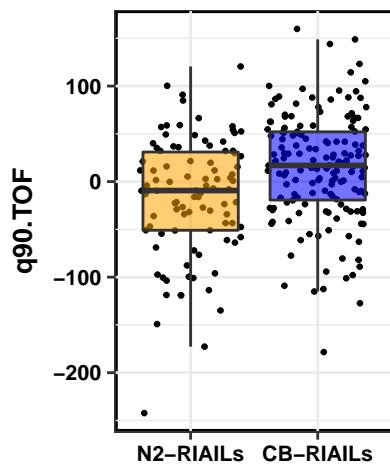
### A carmustine.q90.TOF



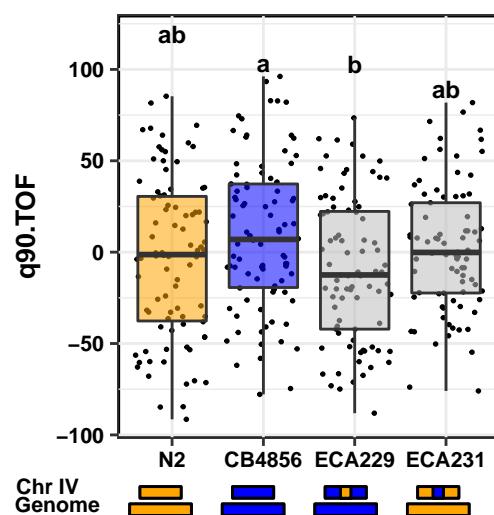
B



### C IV:9715431

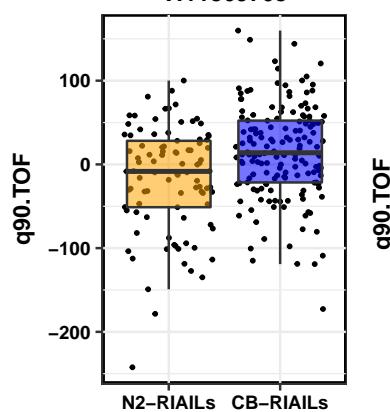


### NIL – No parental diff.

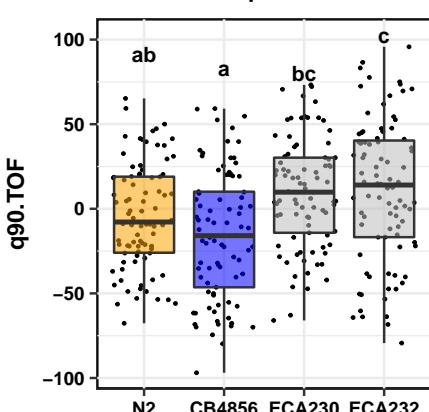


Chr IV Genome

### V:11869708

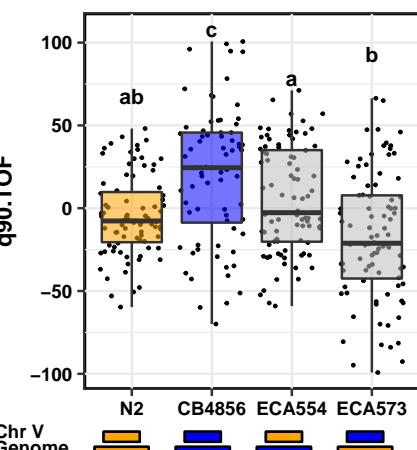


### NIL – No parental diff.

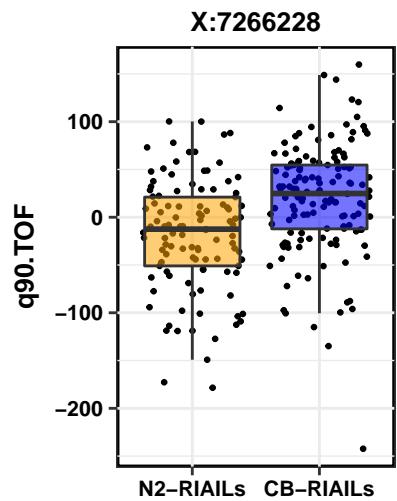


Chr V Genome

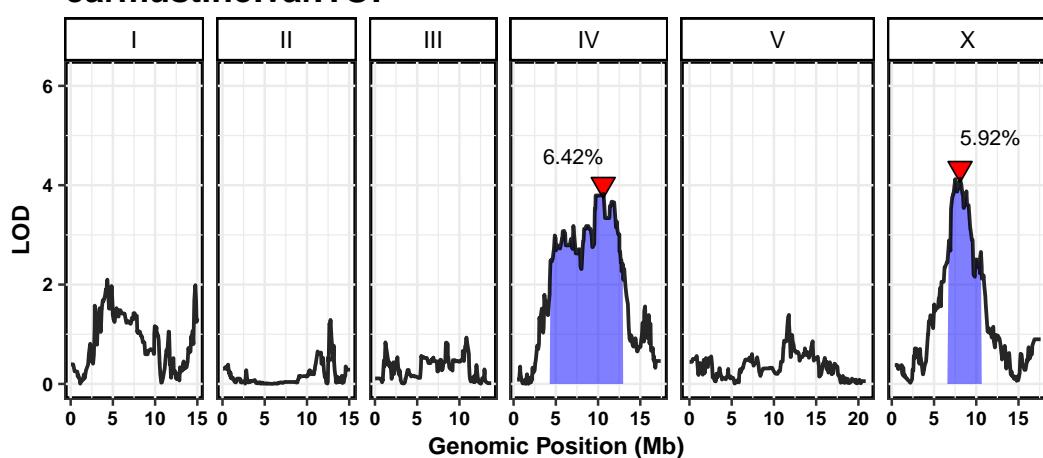
### CSS – Miscellaneous



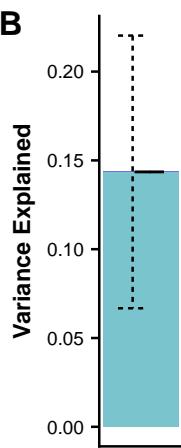
Chr V Genome



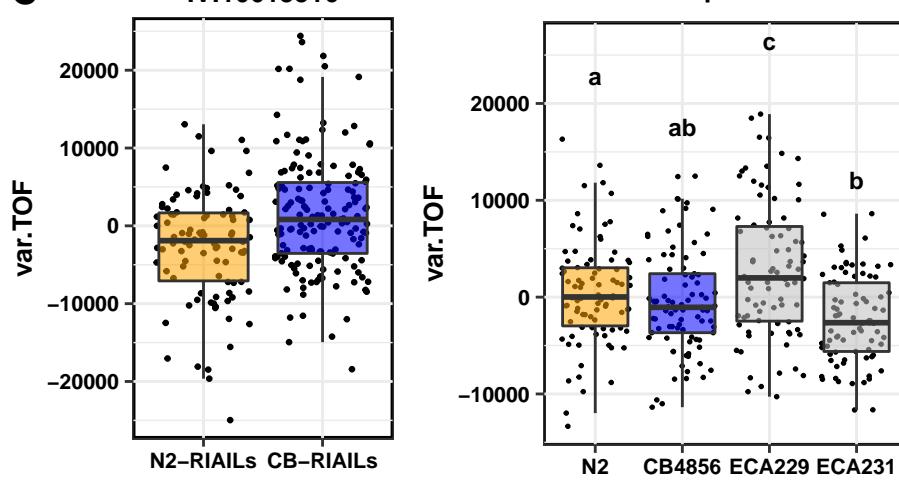
### A carmustine.var.TOF



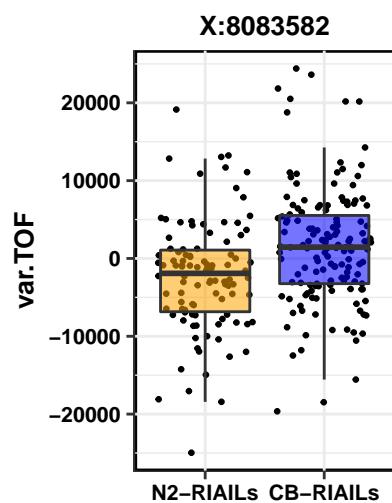
### B



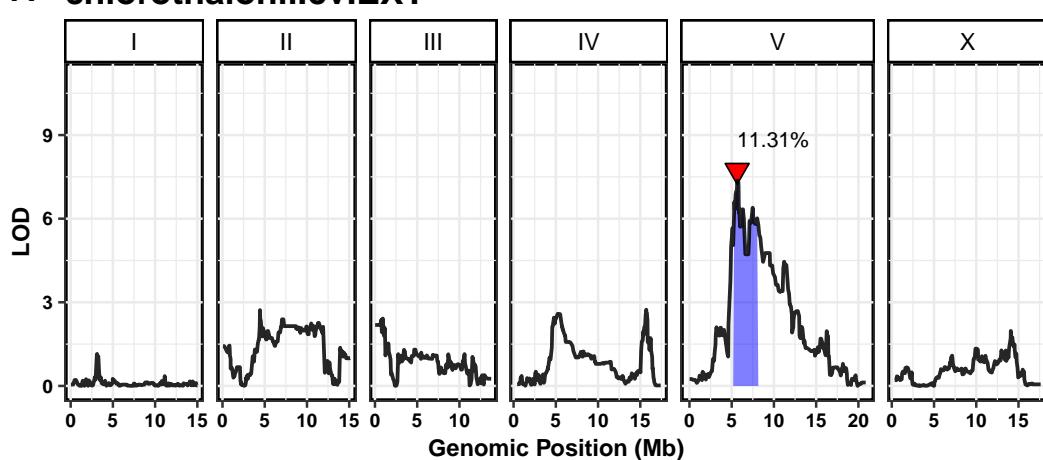
### C IV:10613516



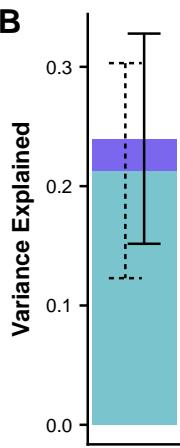
### NIL - No parental diff.



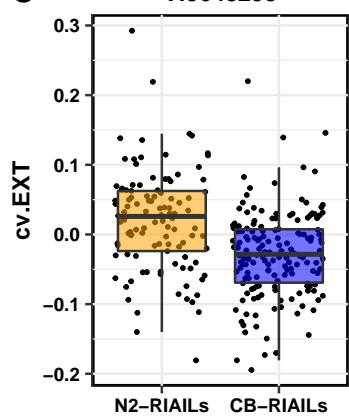
### A chlorothalonil.cv.EXT



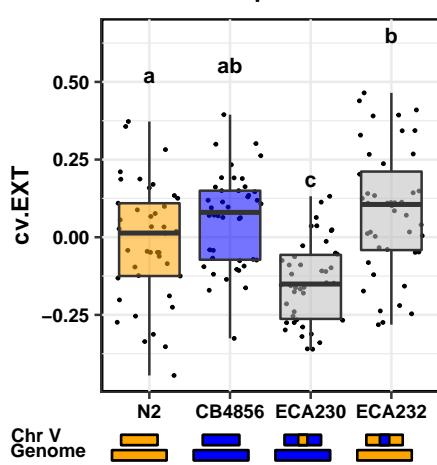
### B



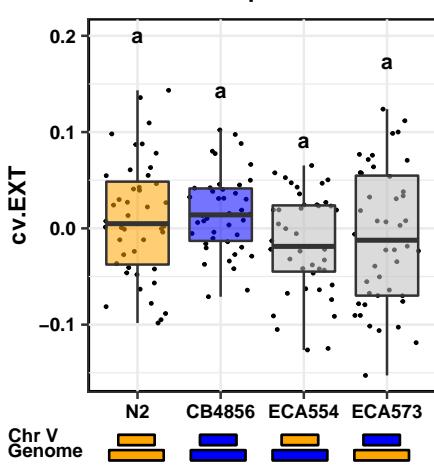
### C V:5648293

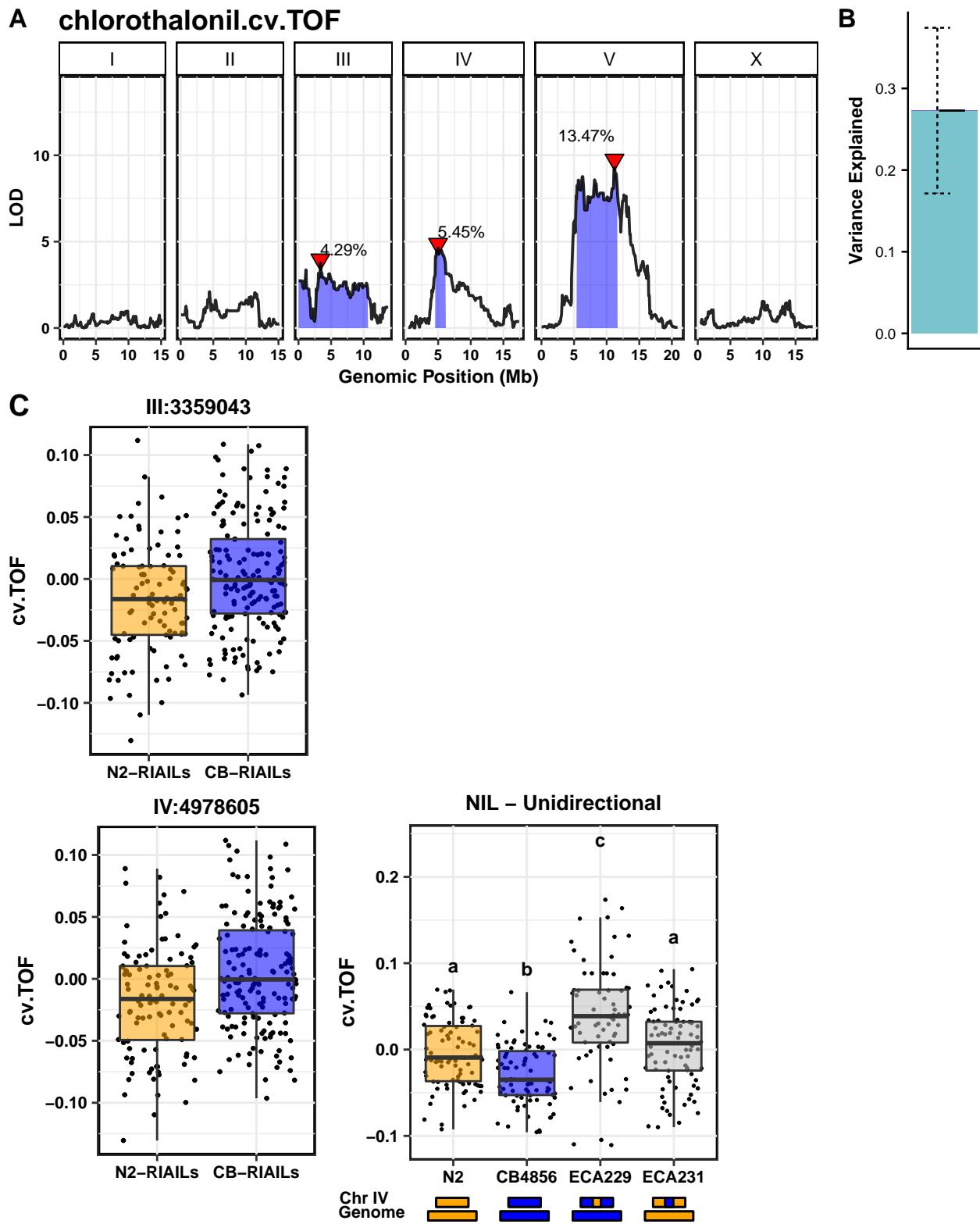


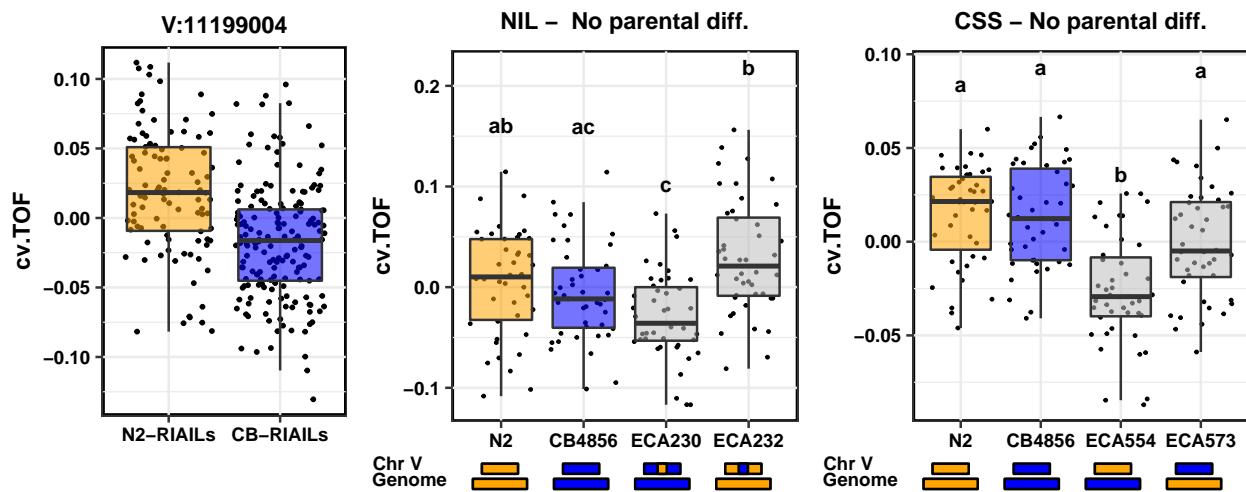
### NIL – No parental diff.

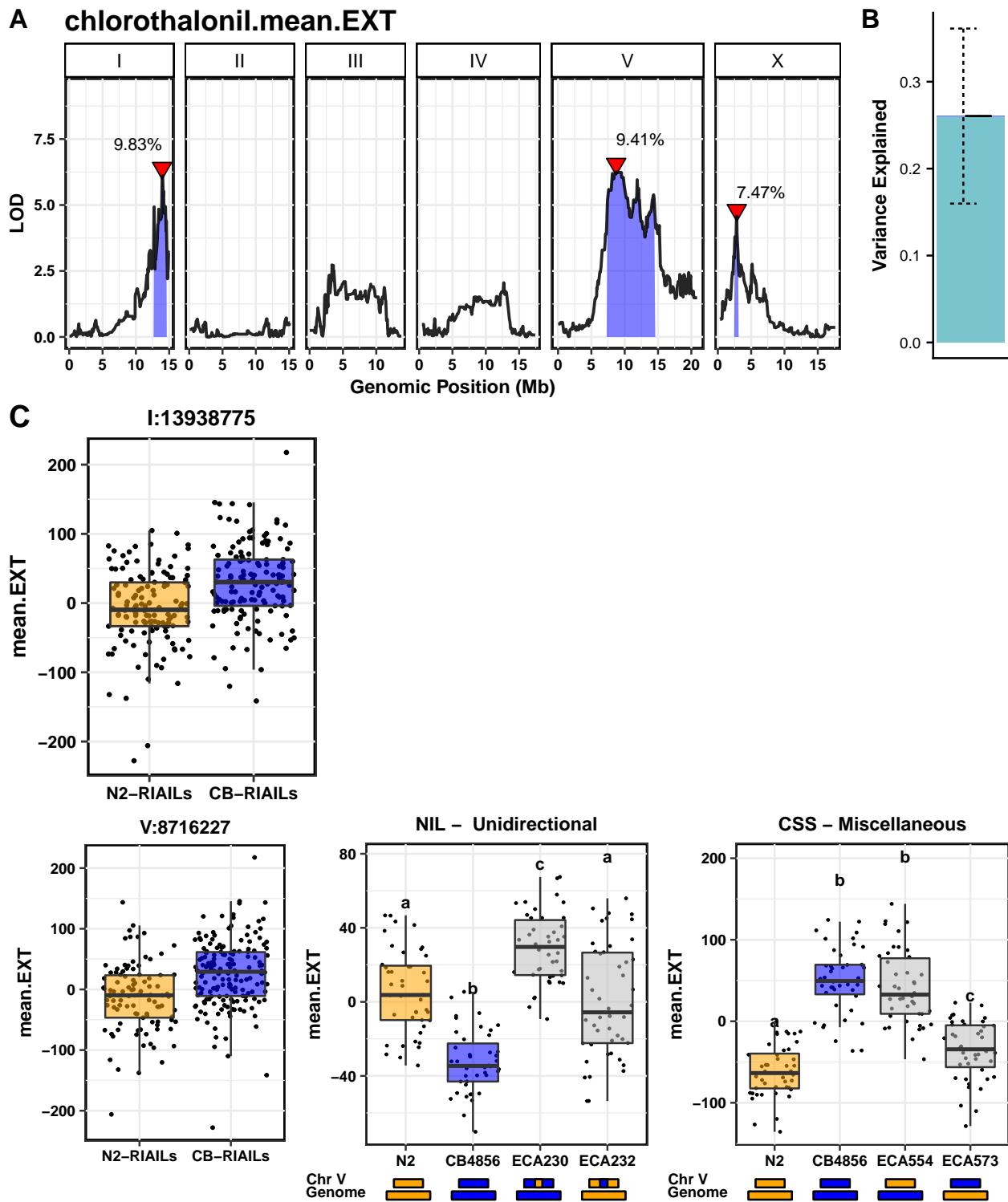


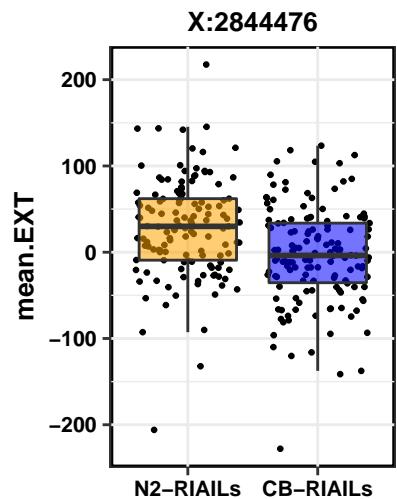
### CSS – No parental diff.

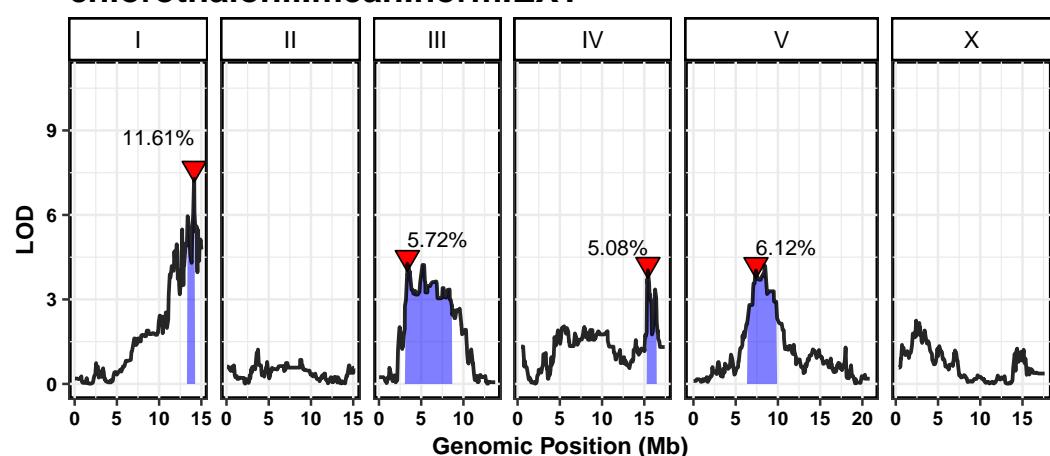
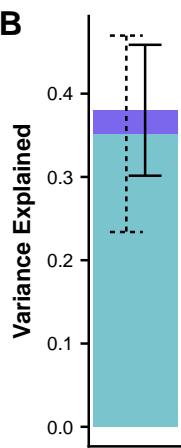
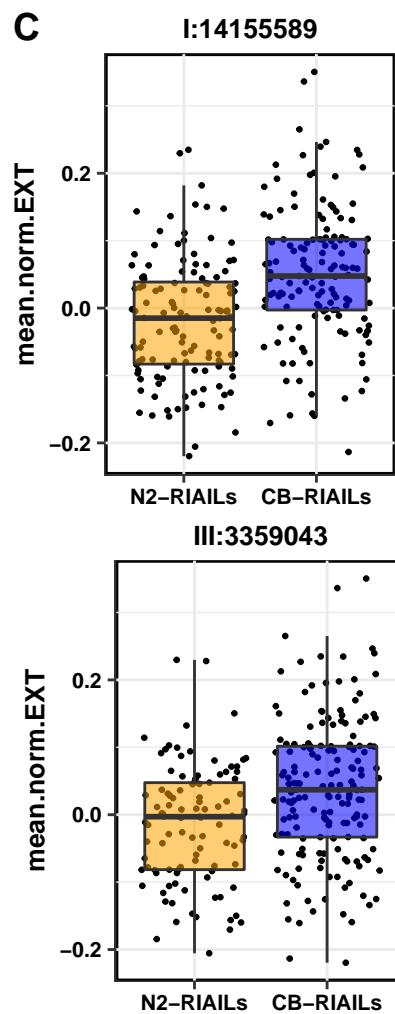


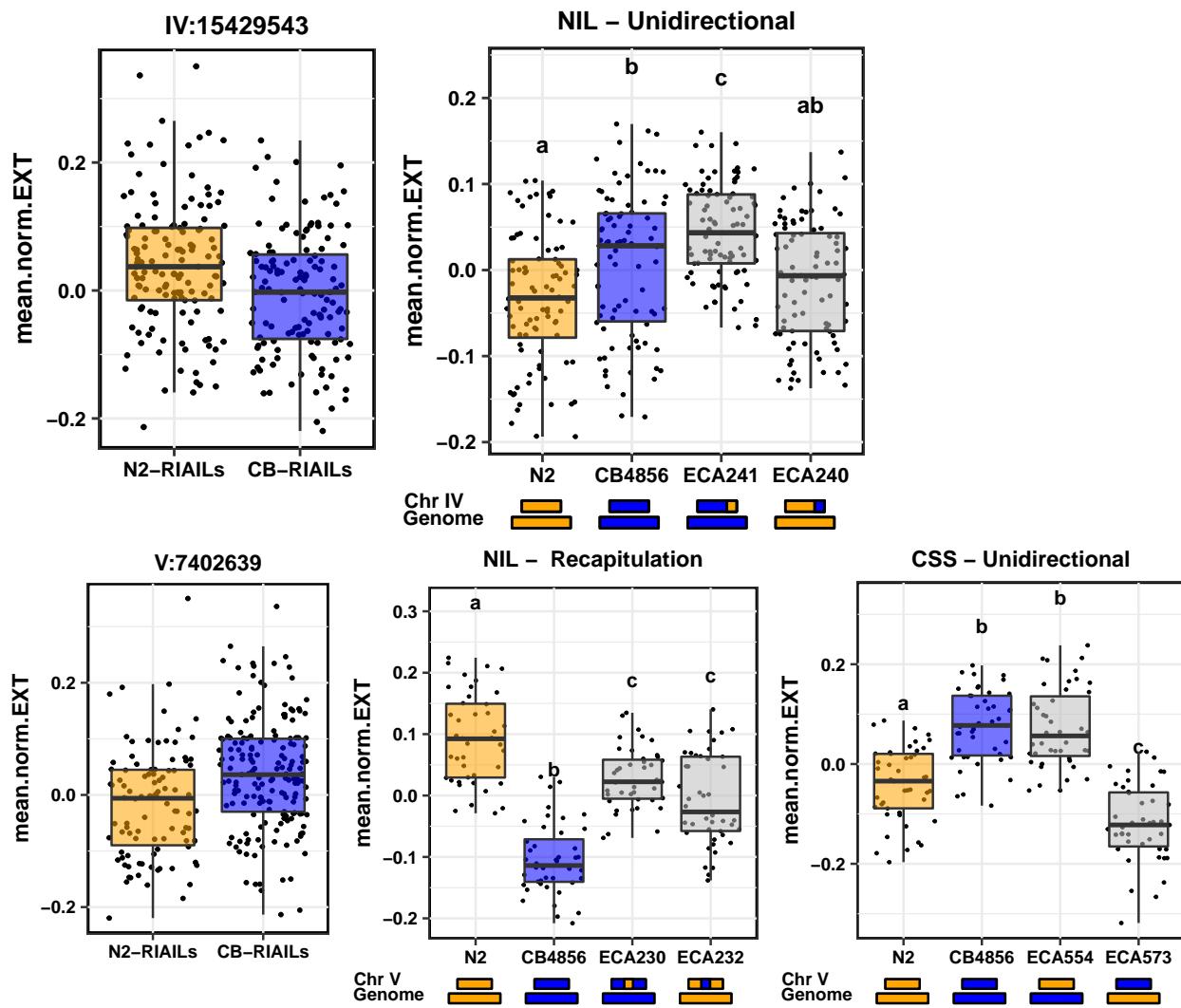


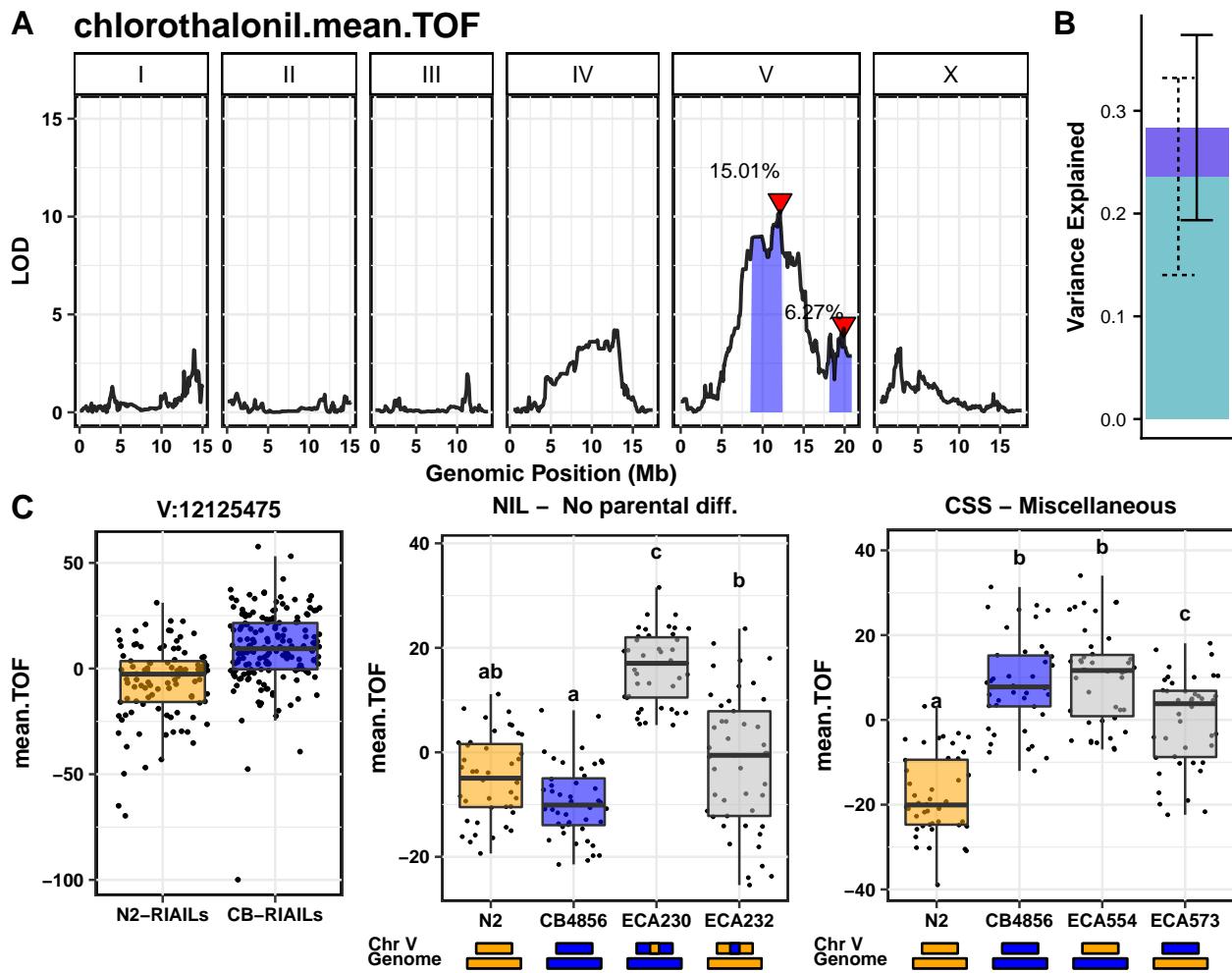


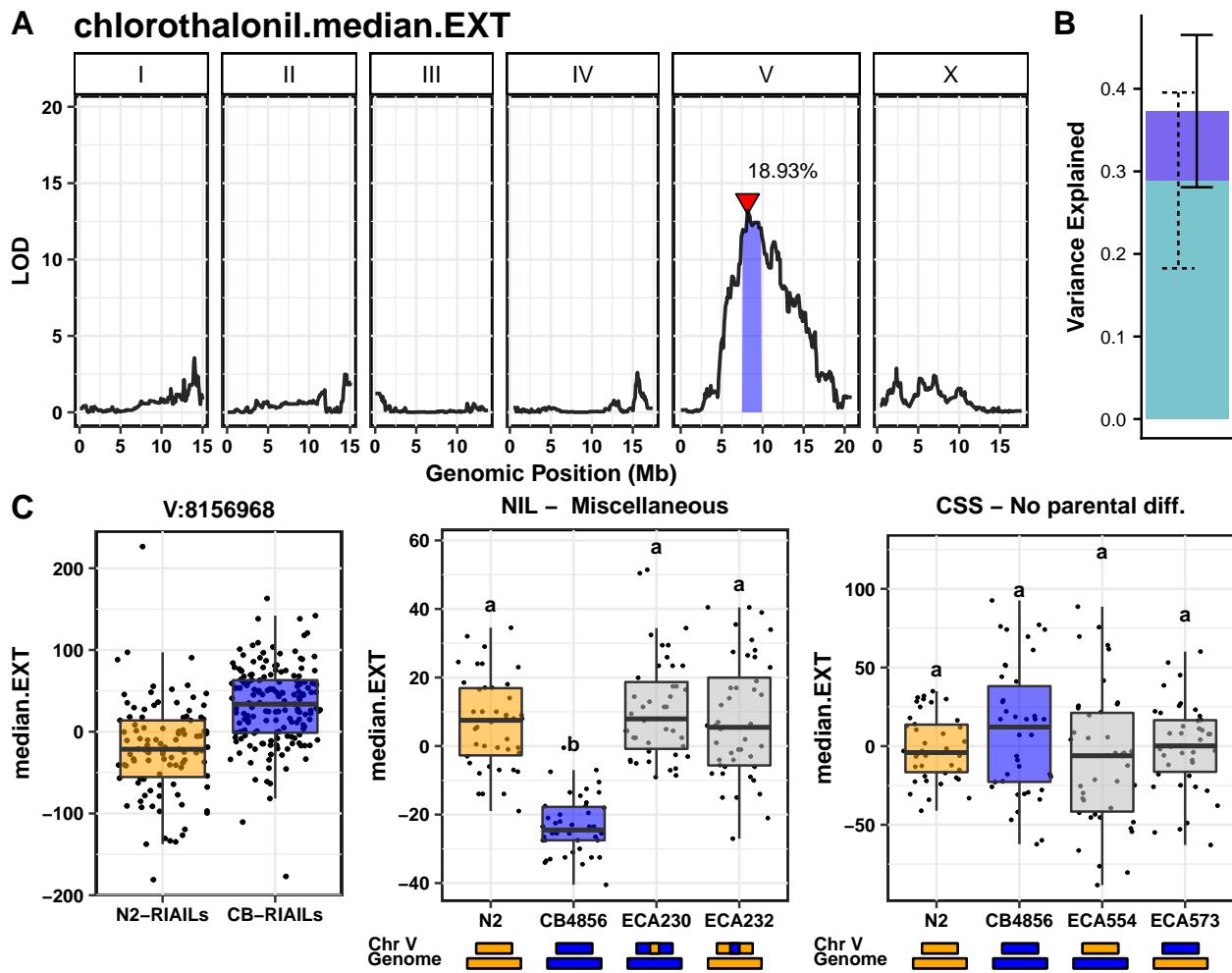




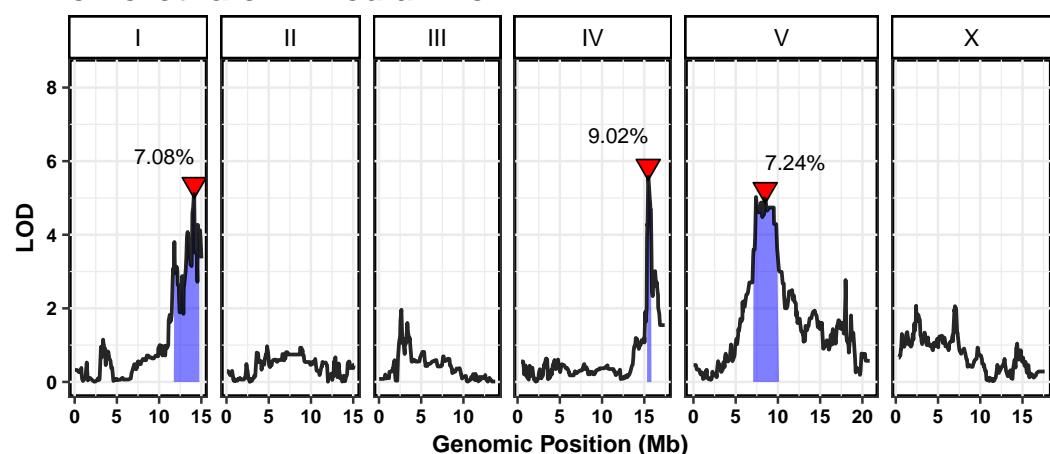
**A chlorothalonil.mean.norm.EXT****B****C**



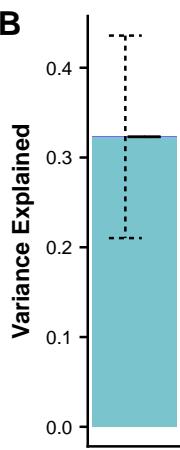




### A chlorothalonil.median.norm.EXT

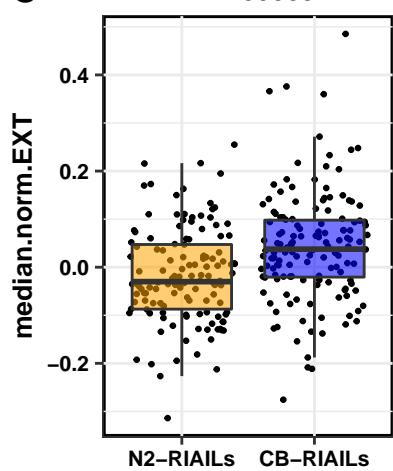


### B

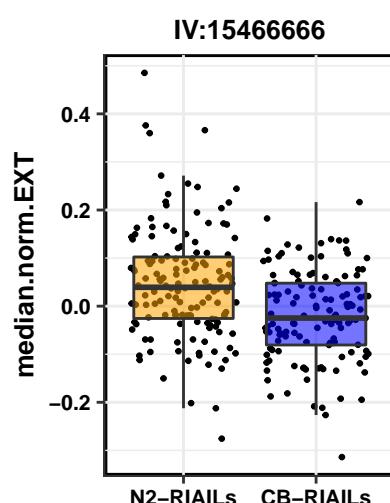


### C

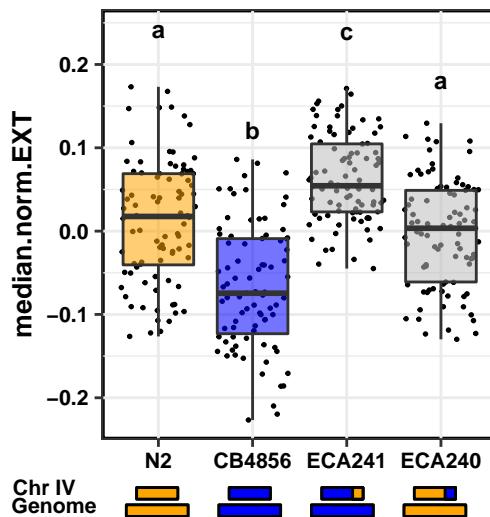
#### I:14155589

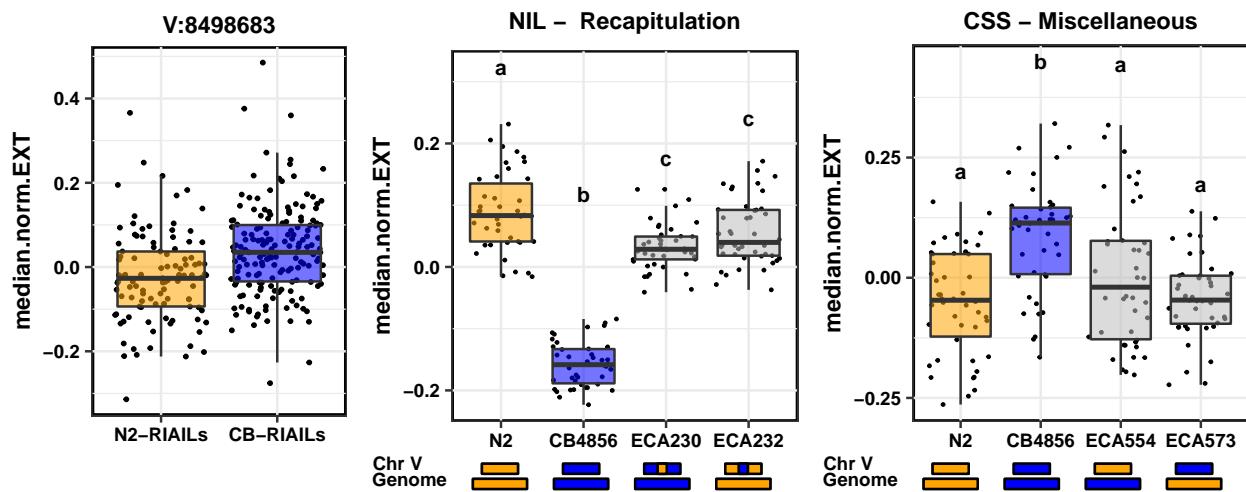


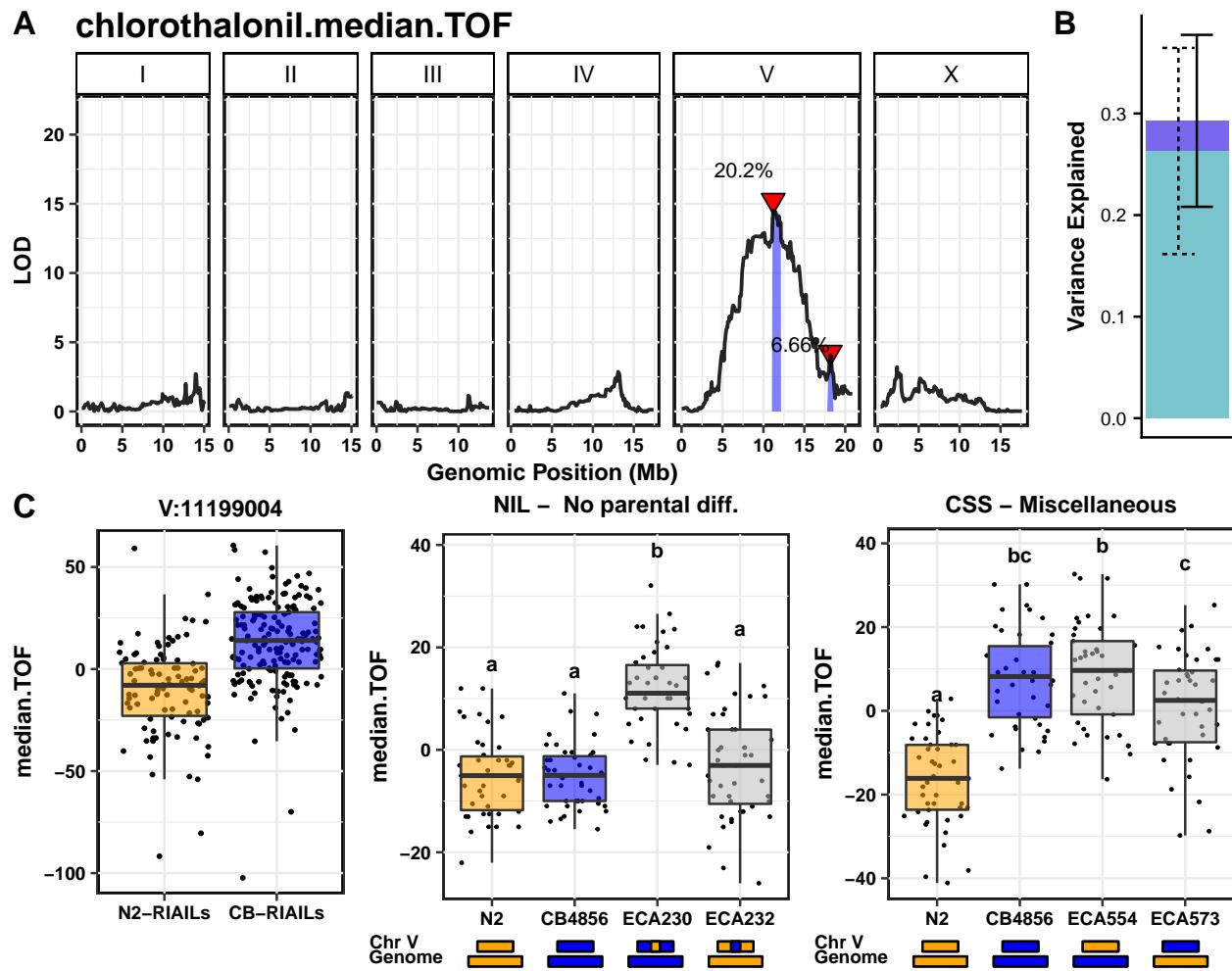
IV:15466666

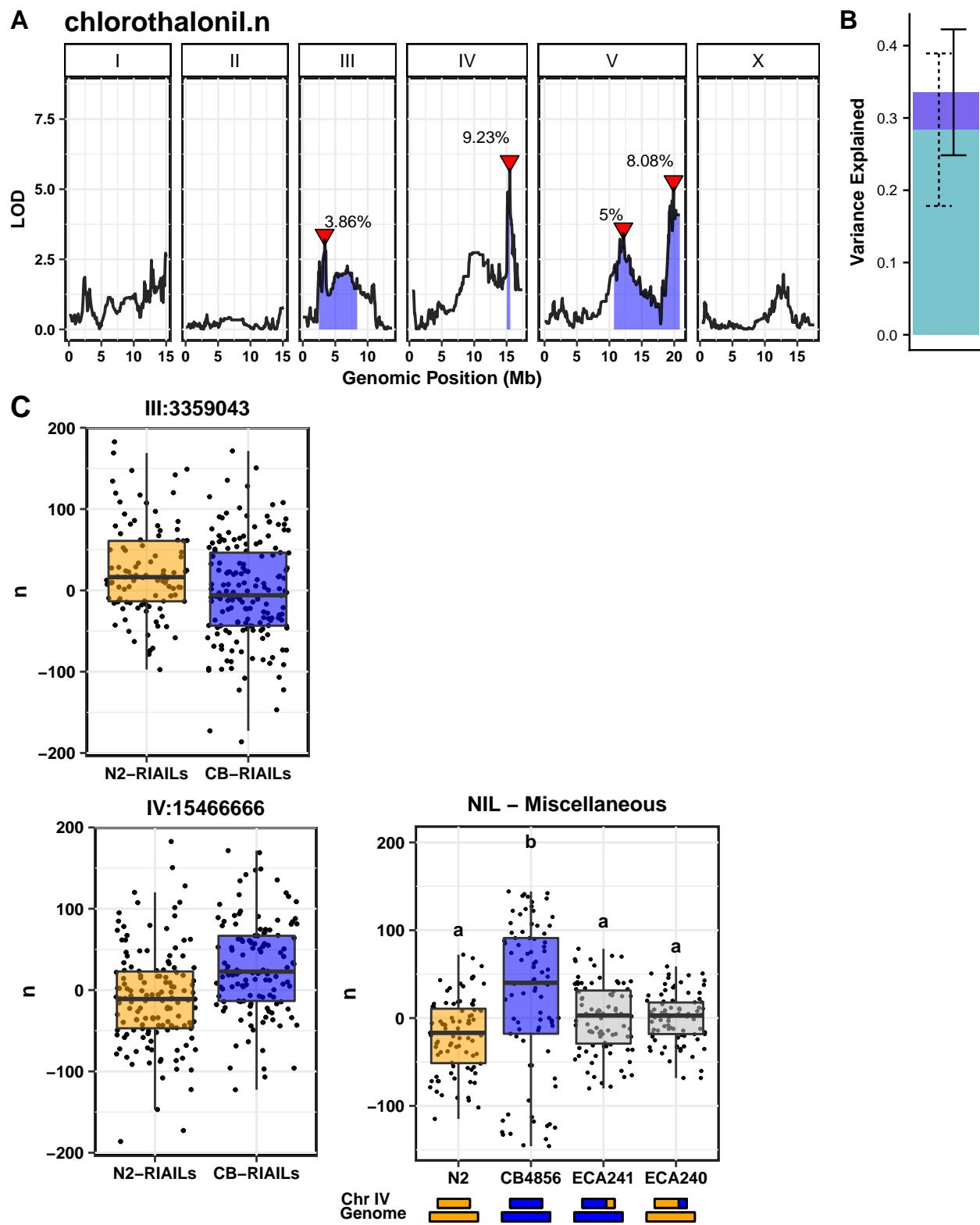


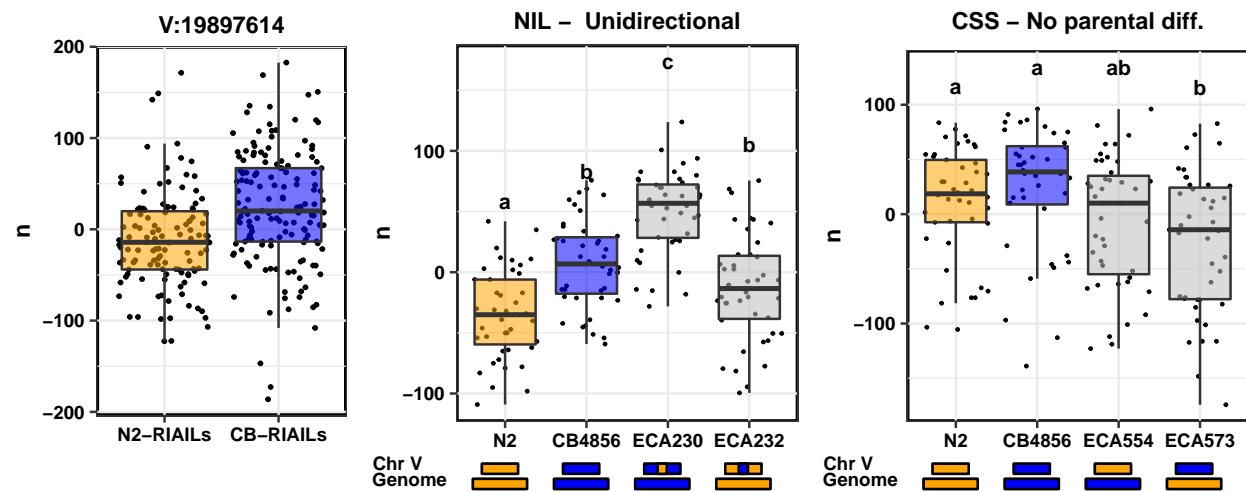
NIL – Unidirectional

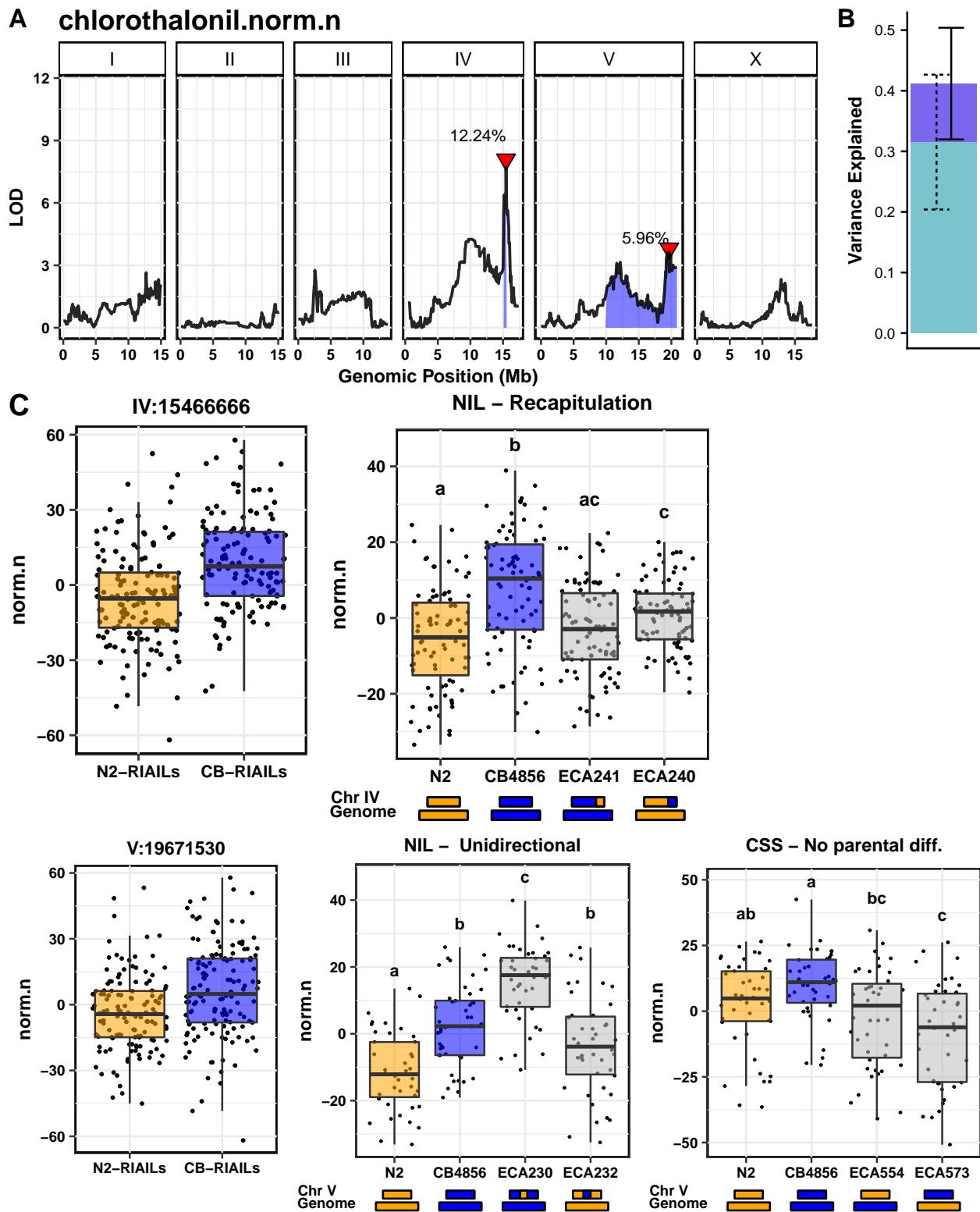




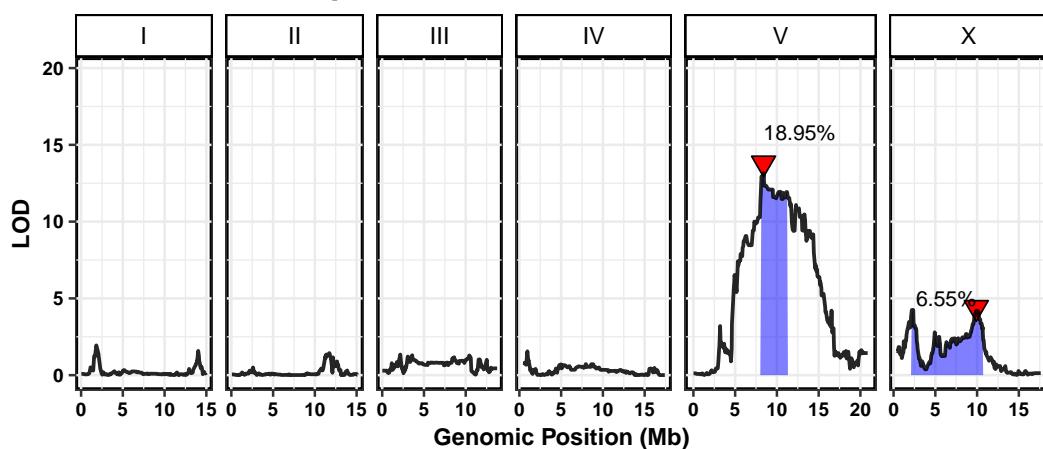




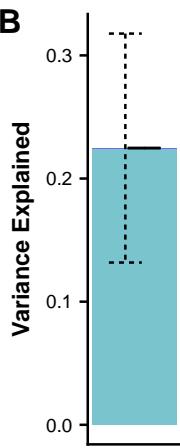




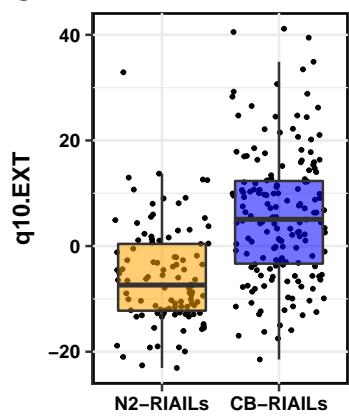
### A chlorothalonil.q10.EXT



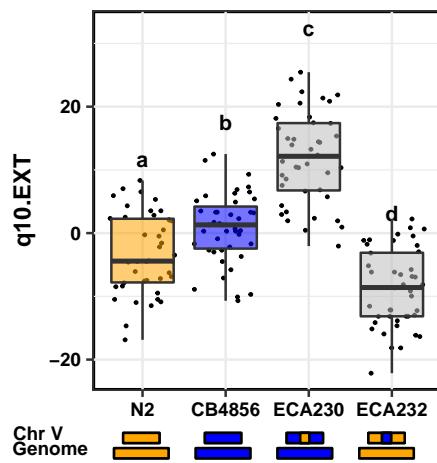
### B



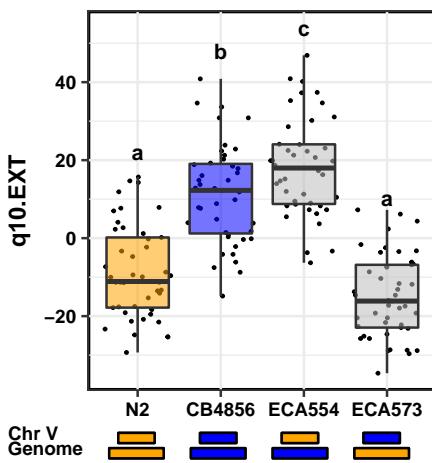
### C V:8398703



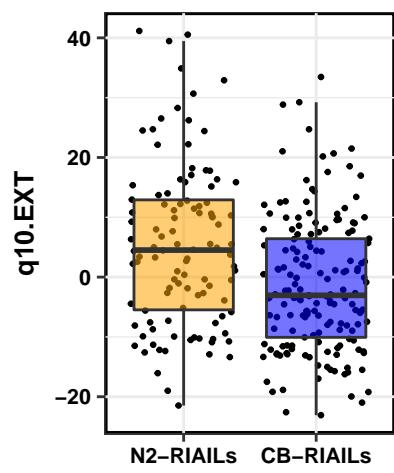
### NIL – Bidirectional

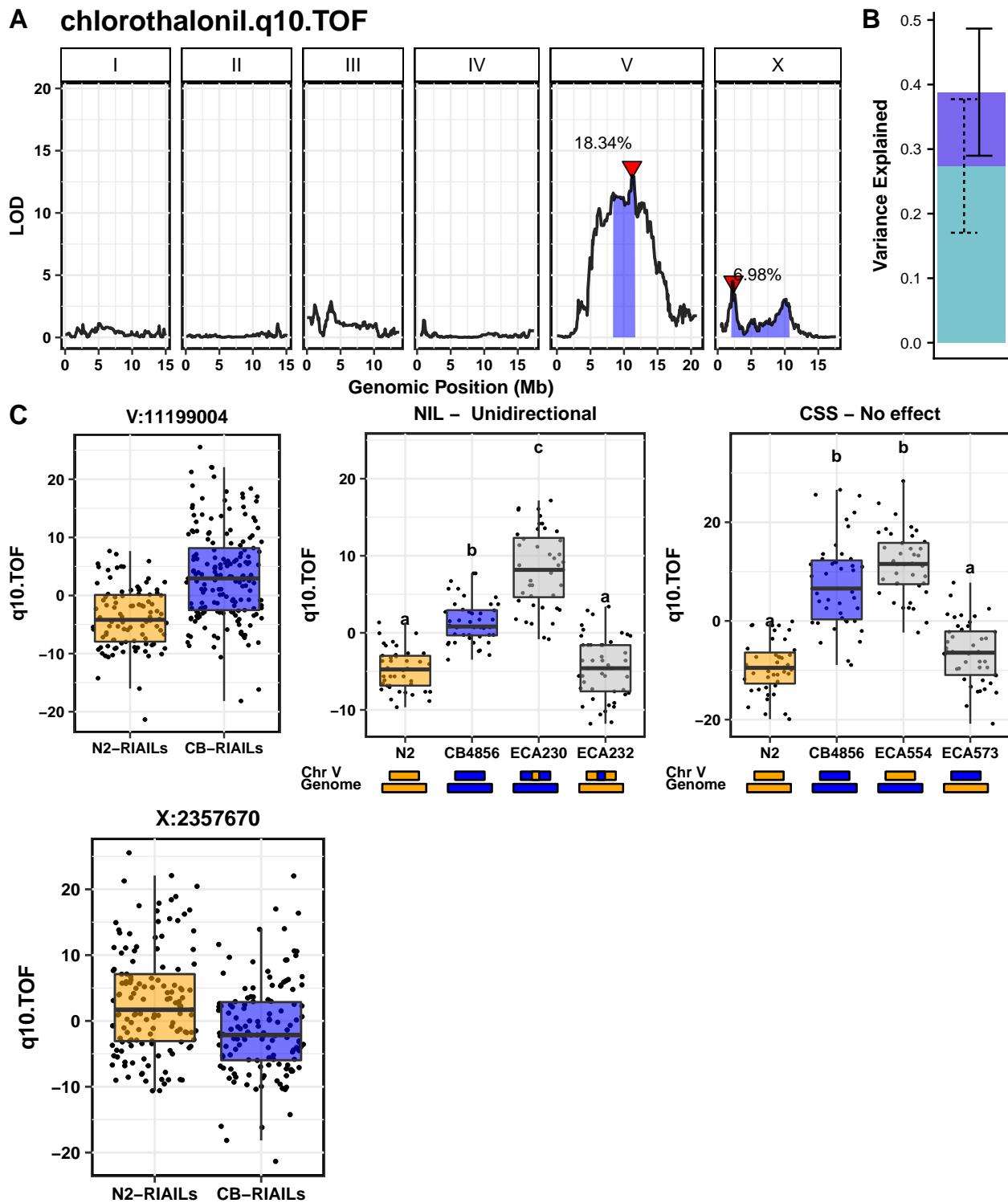


### CSS – Unidirectional

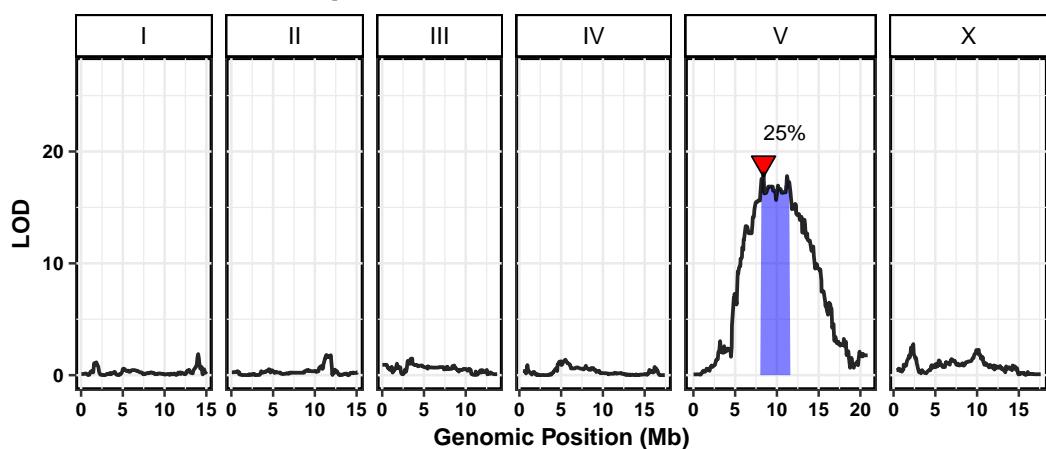


### X:9902384

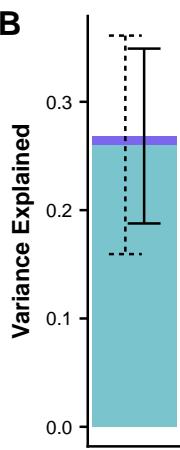




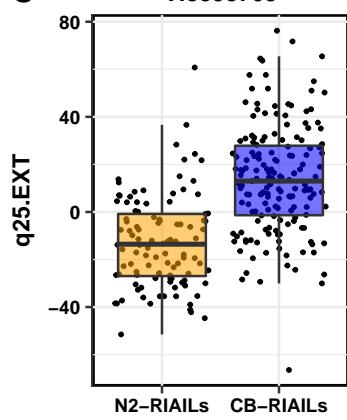
### A chlorothalonil.q25.EXT



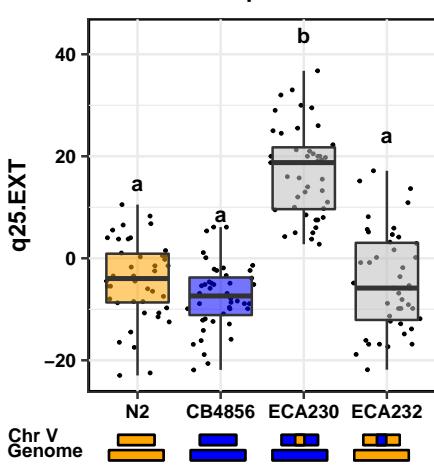
### B



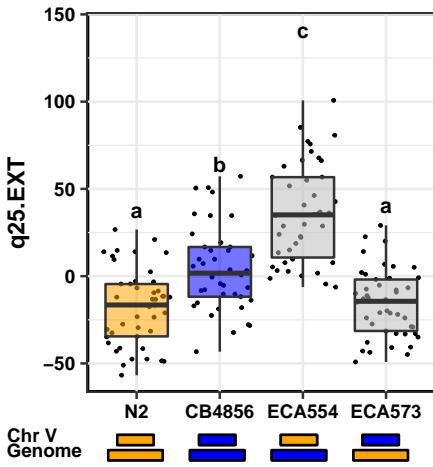
### C V:8398703



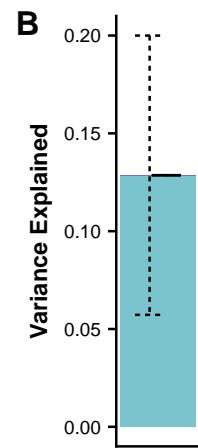
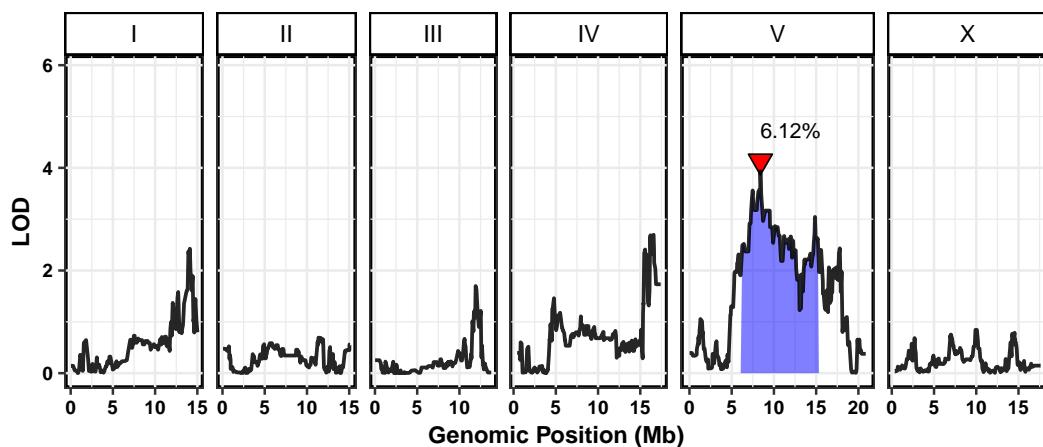
### NIL – No parental diff.



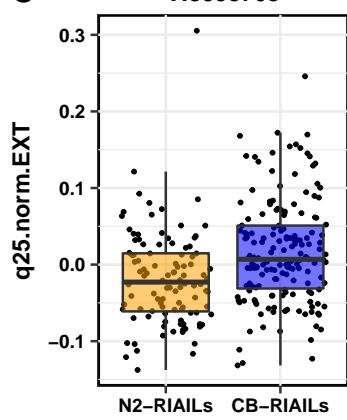
### CSS – Unidirectional



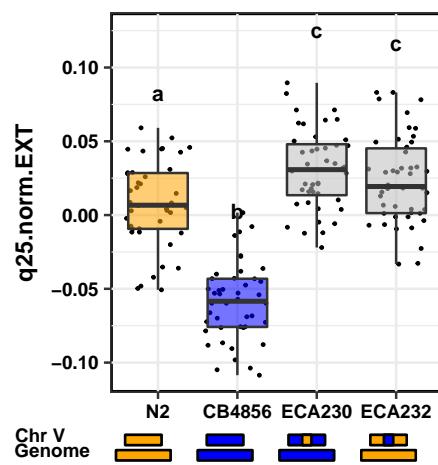
### A chlorothalonil.q25.norm.EXT



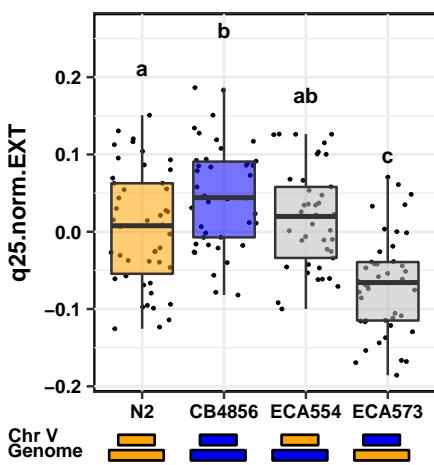
### C V:8398703

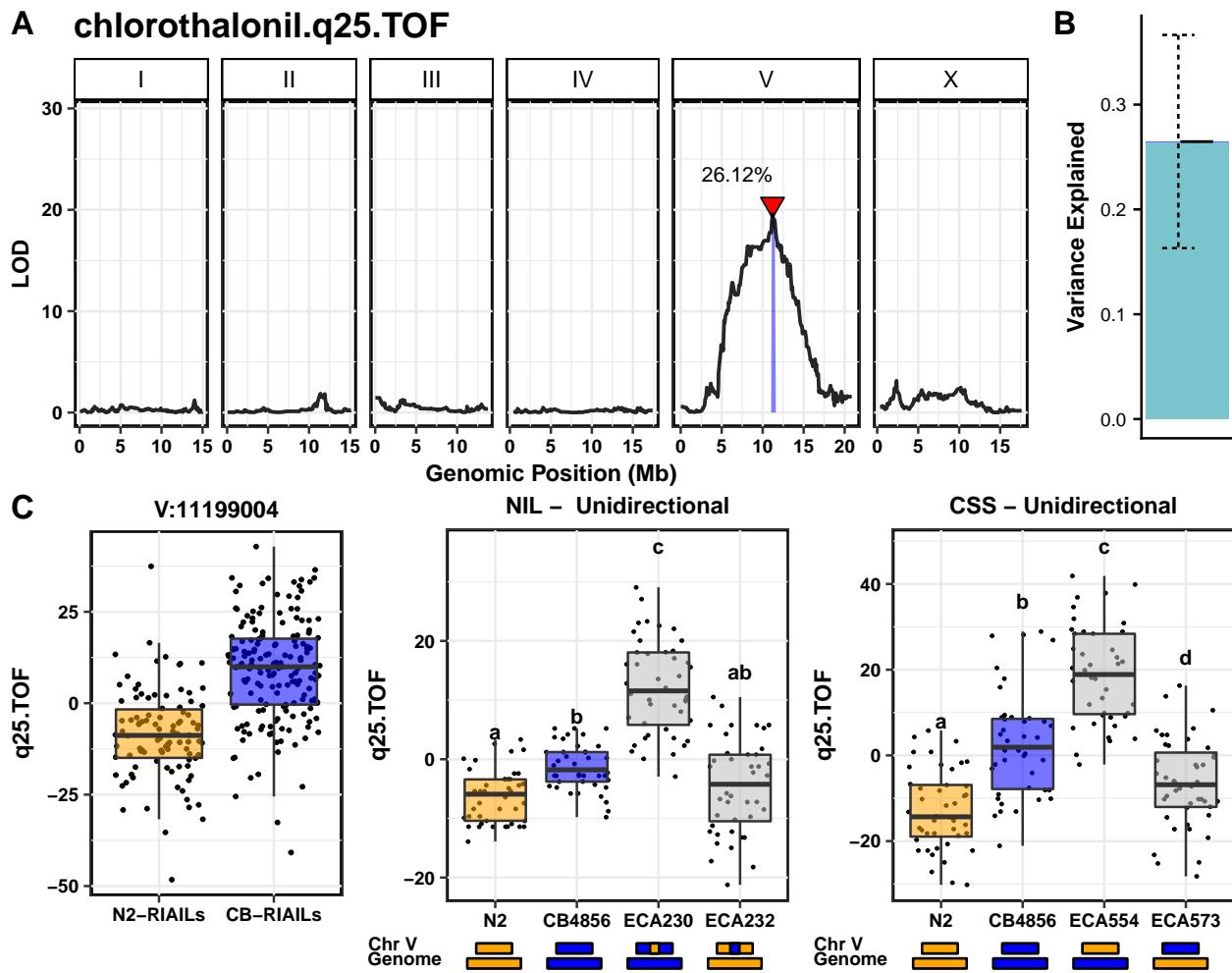


### NIL – Bidirectional

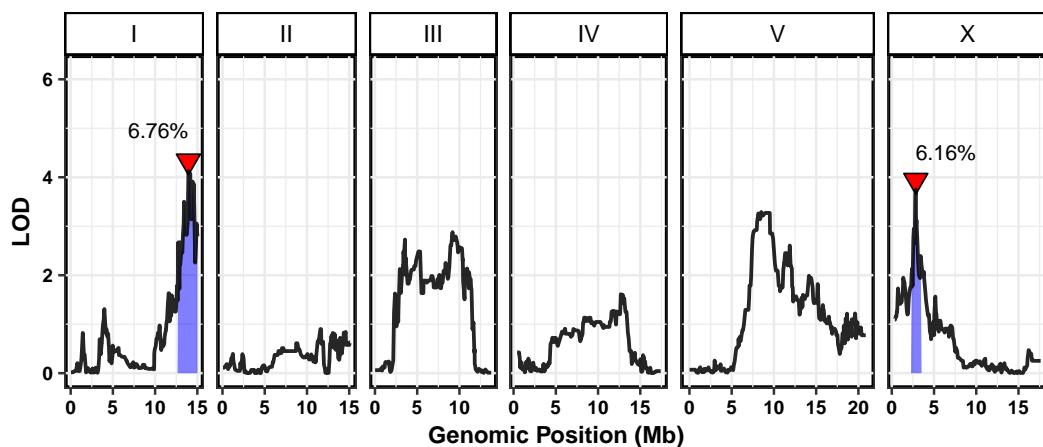


### CSS – Unidirectional

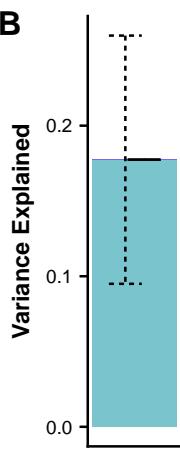




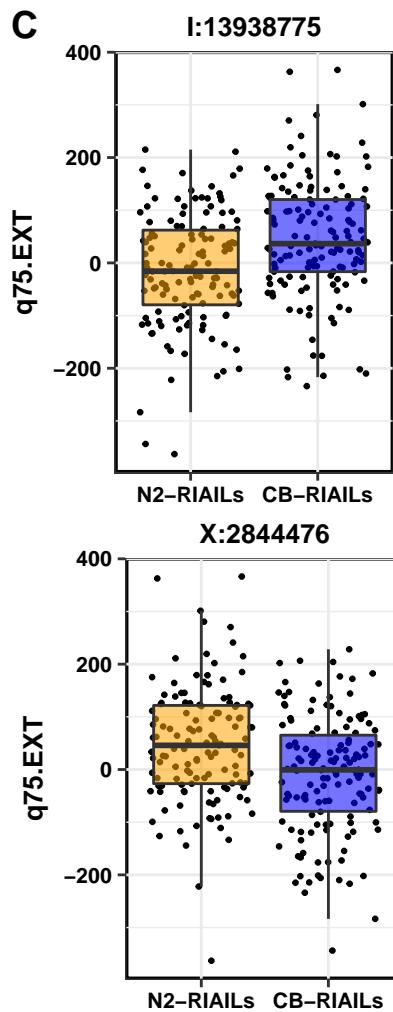
### A chlorothalonil.q75.EXT



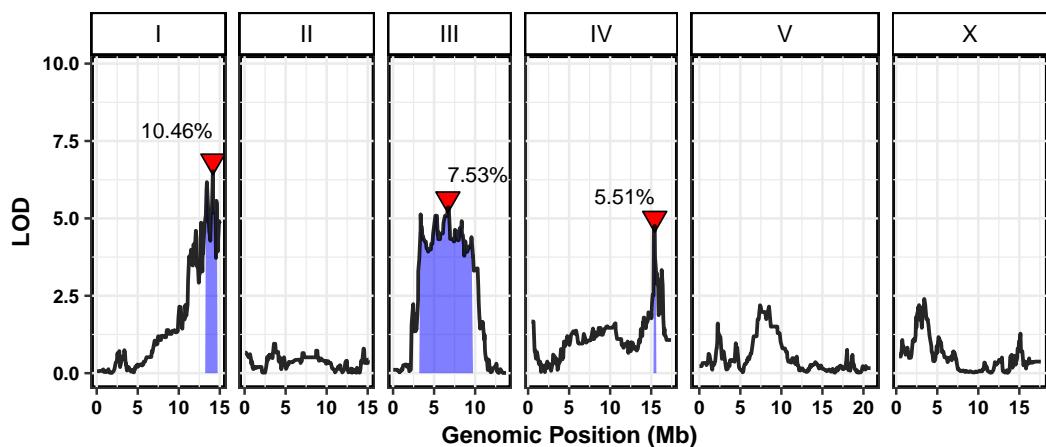
B



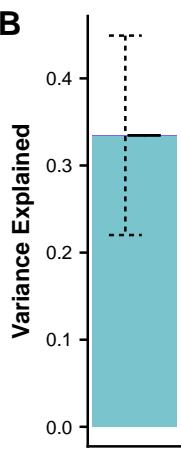
C



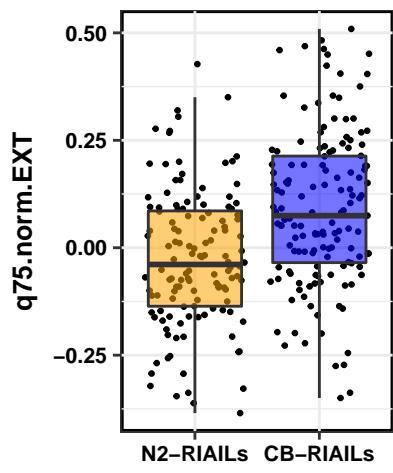
### A chlorothalonil.q75.norm.EXT



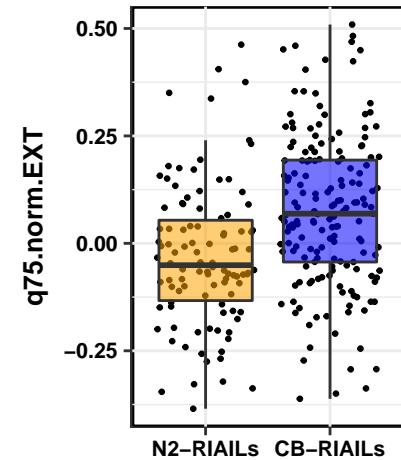
### B

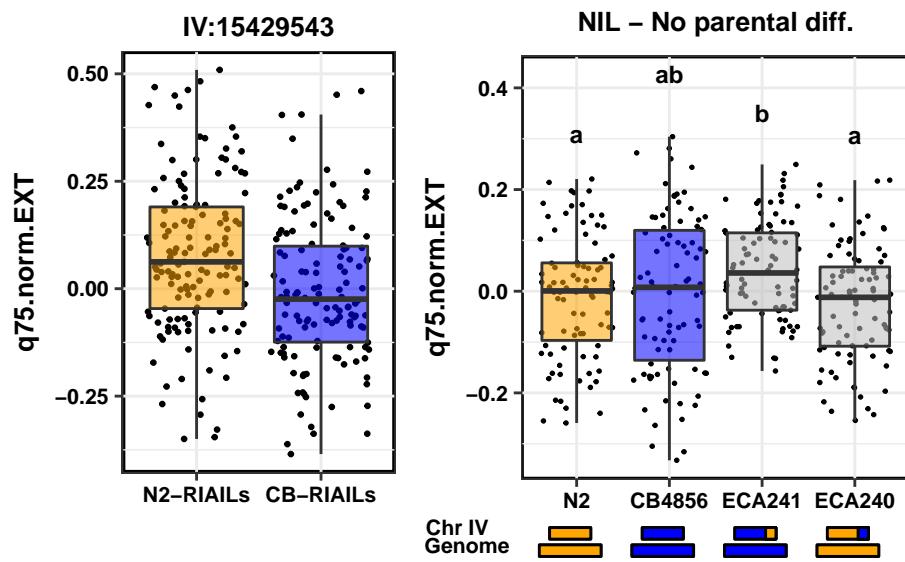


### C I:14155589

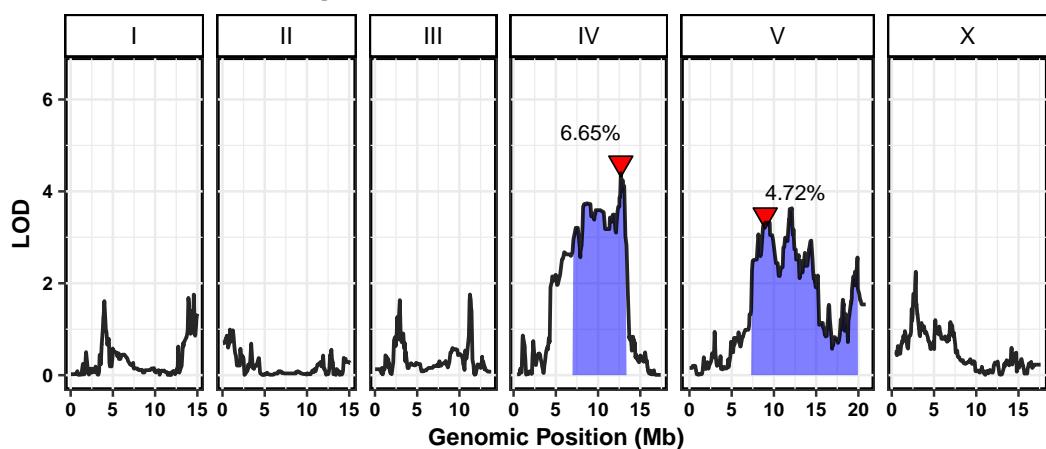


III:6678775

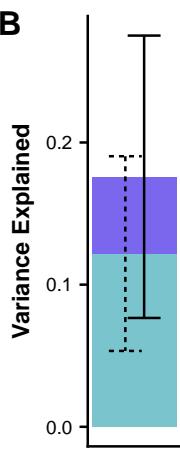




### A chlorothalonil.q75.TOF

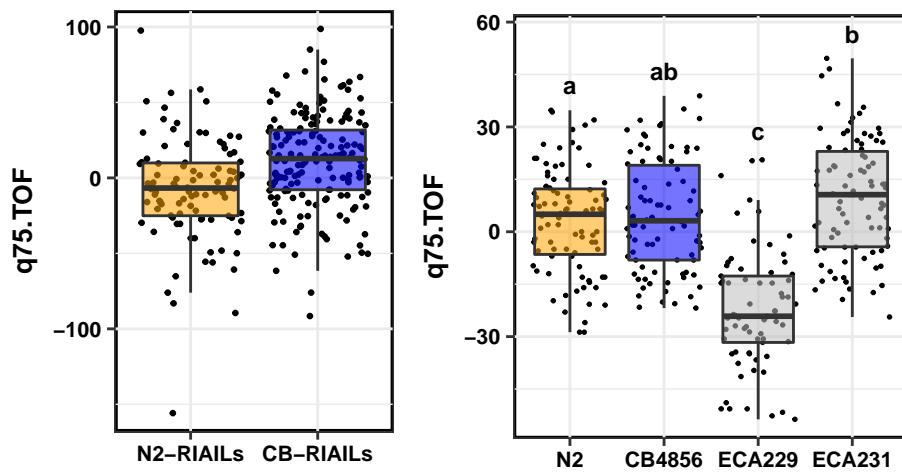


B



C IV:12694976

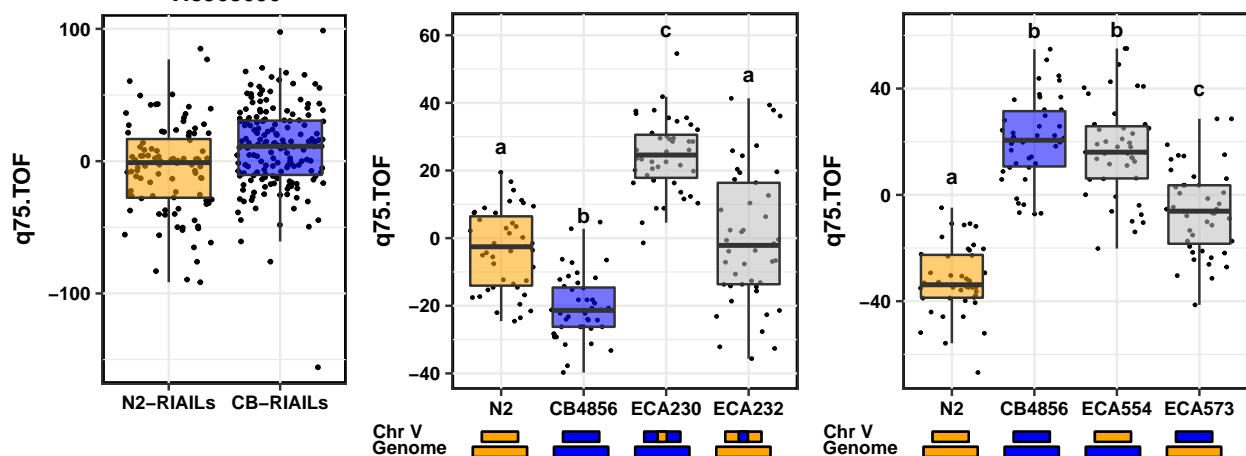
NIL – No parental diff.



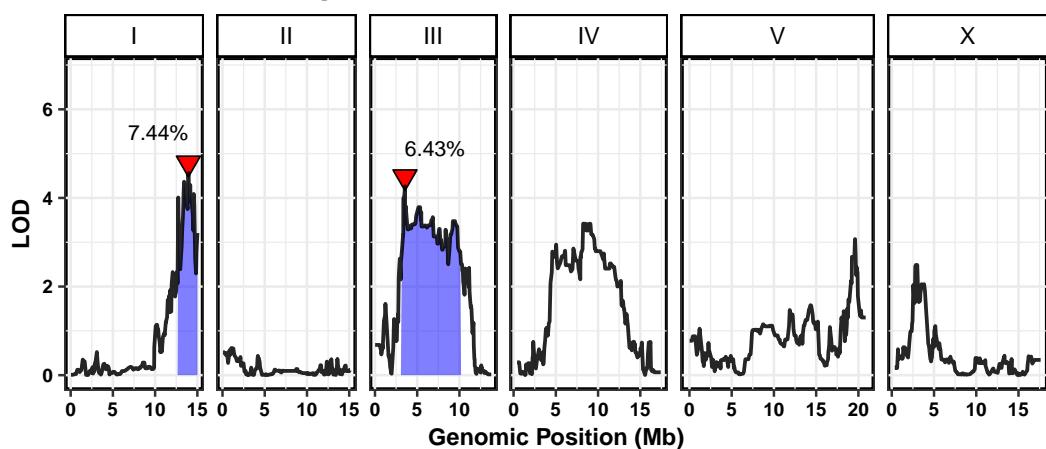
V:8968606

NIL – Unidirectional

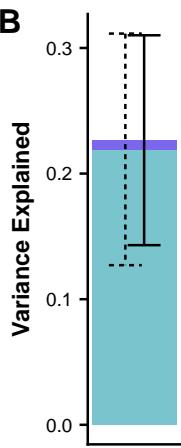
CSS – Miscellaneous



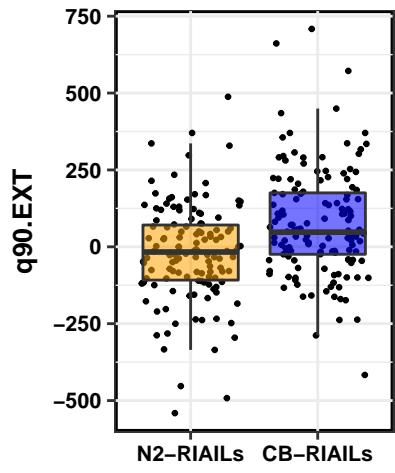
### A chlorothalonil.q90.EXT



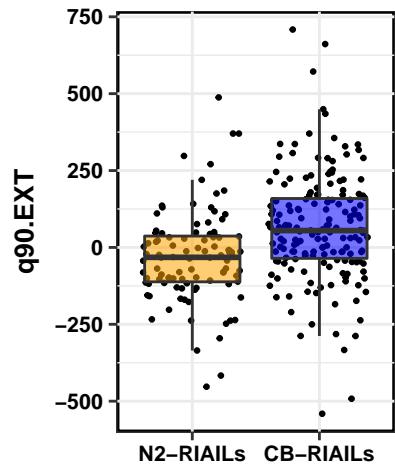
### B



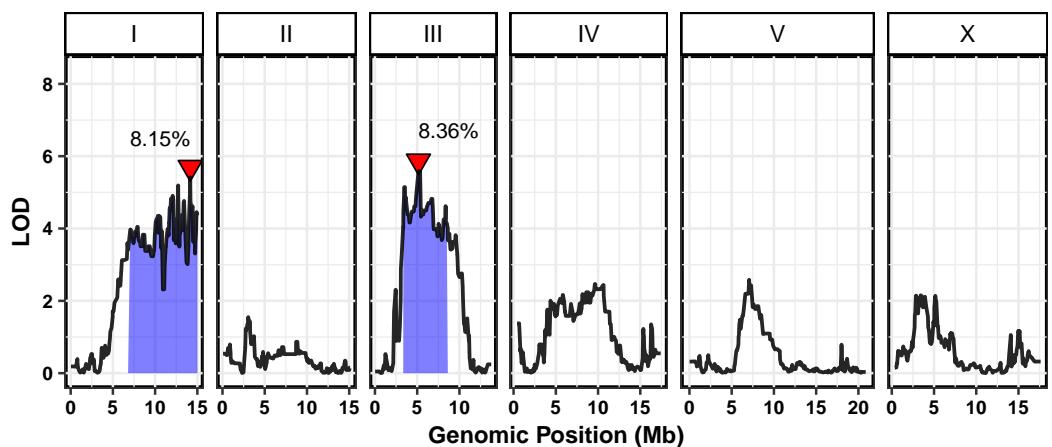
### C I:13938775



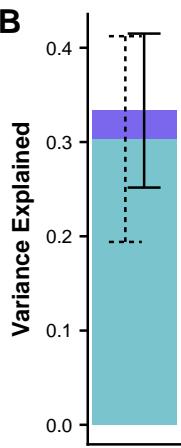
III:3553029



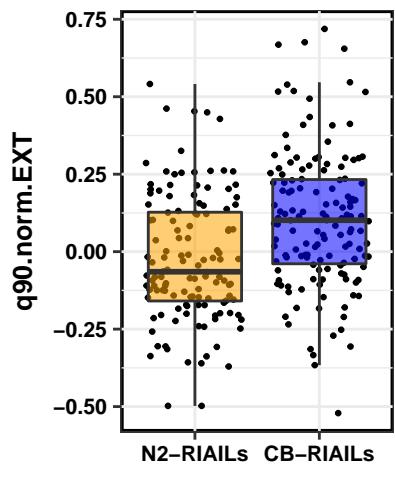
### A chlorothalonil.q90.norm.EXT



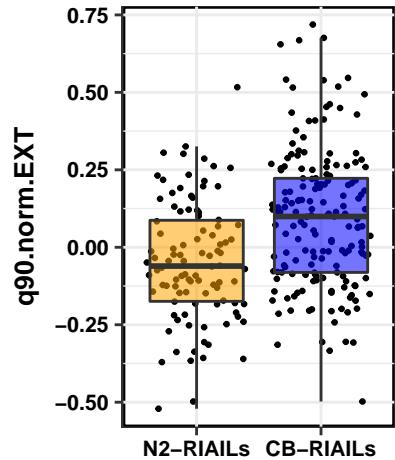
### B

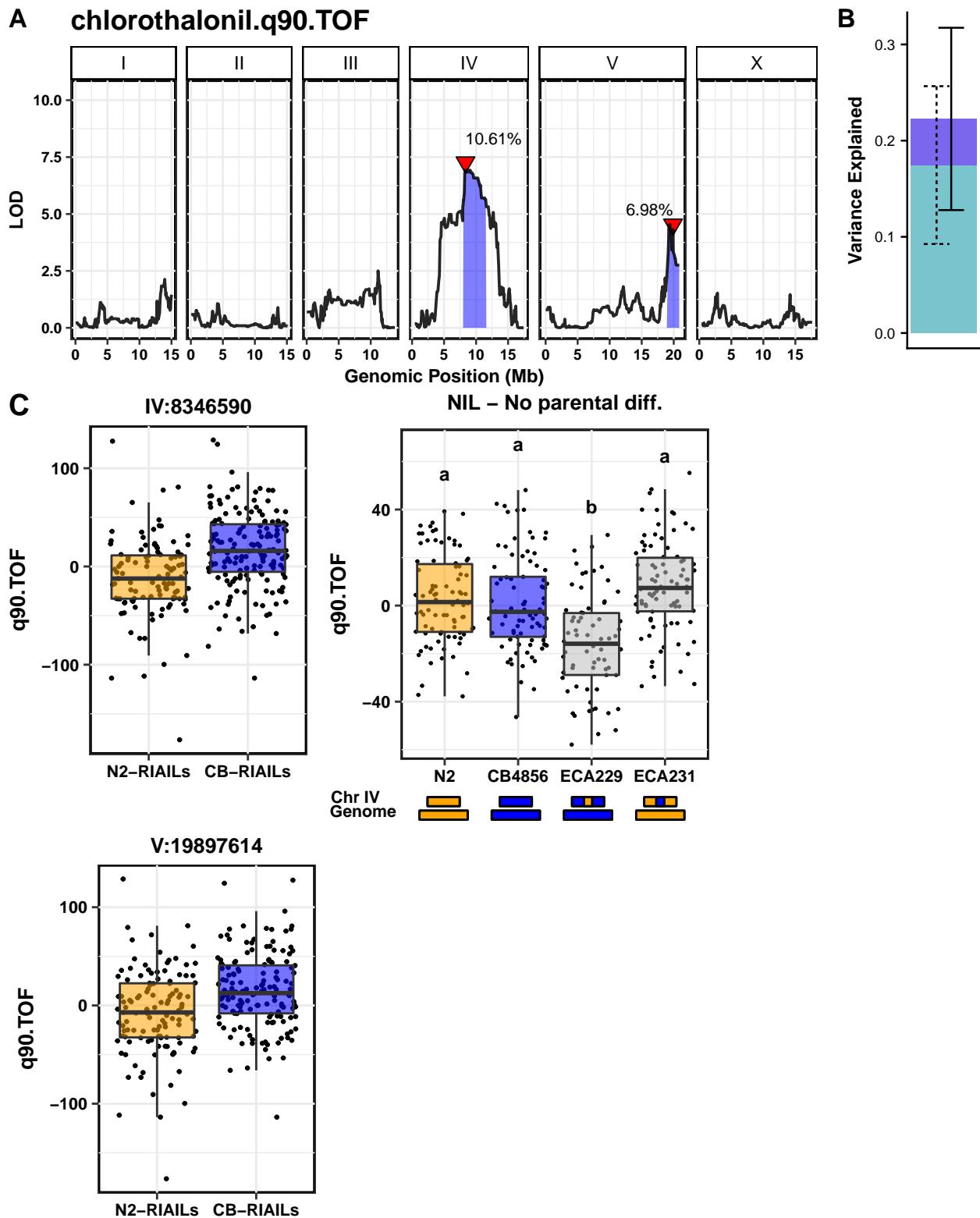


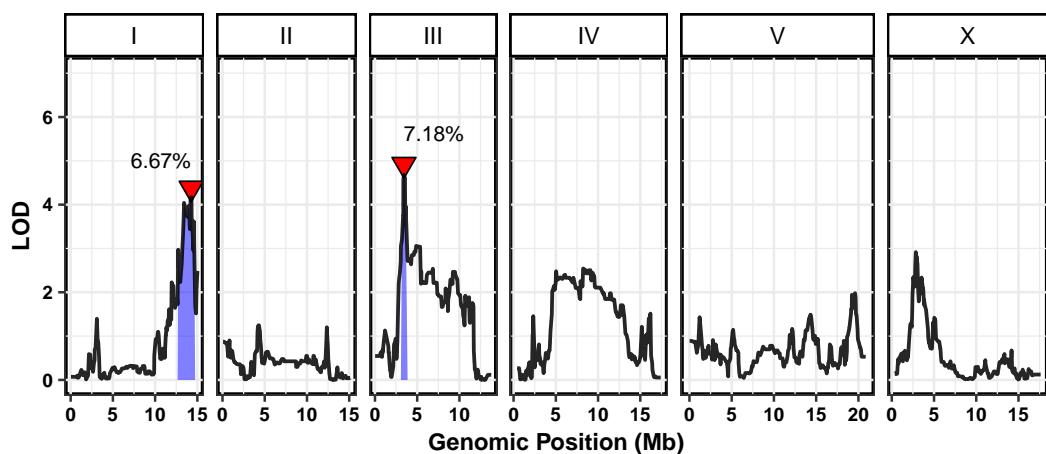
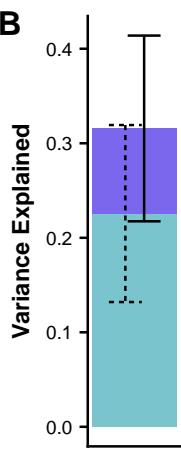
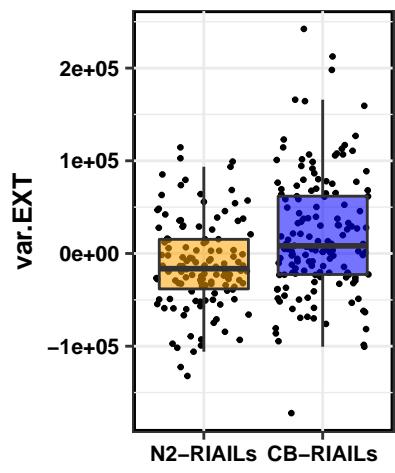
### C I:14155589



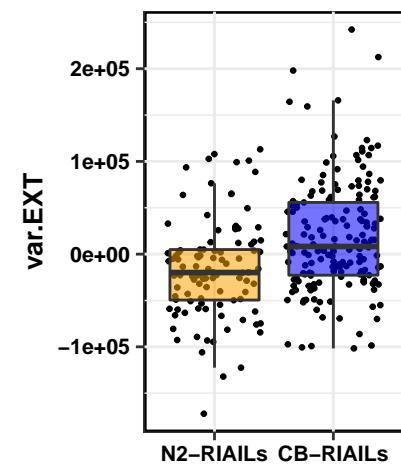
III:5150289



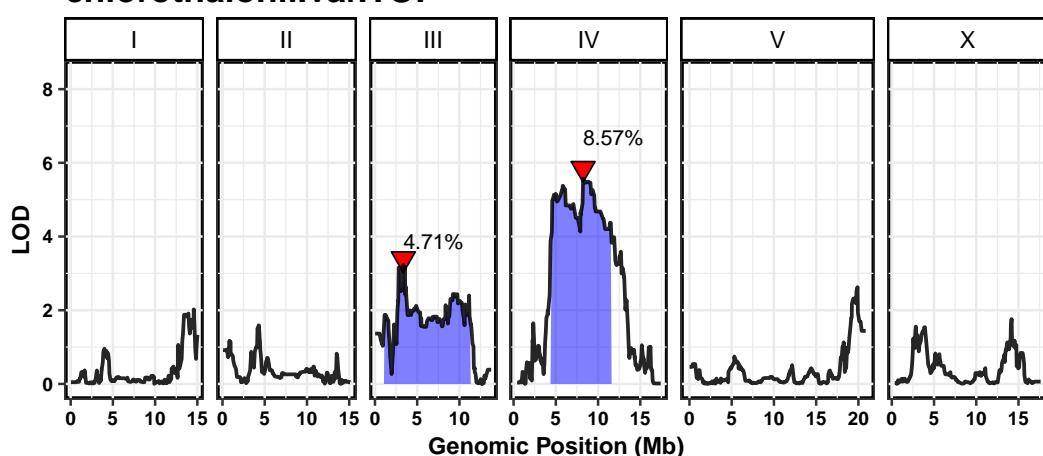


**A chlorothalonil.var.EXT****B****C** I:14266541

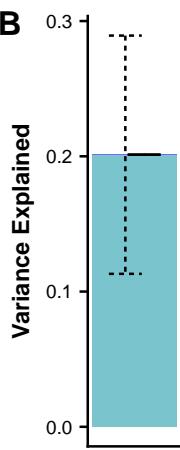
III:3435060



### A chlorothalonil.var.TOF

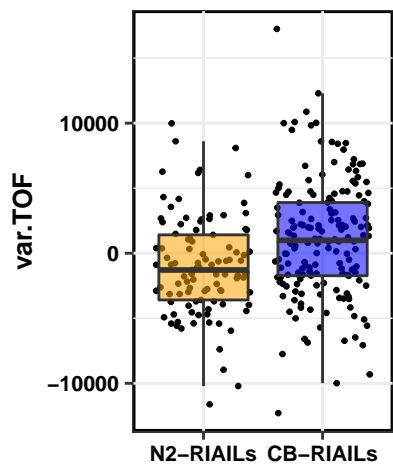


B

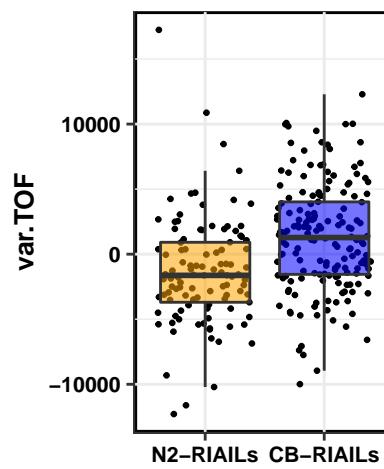


### C

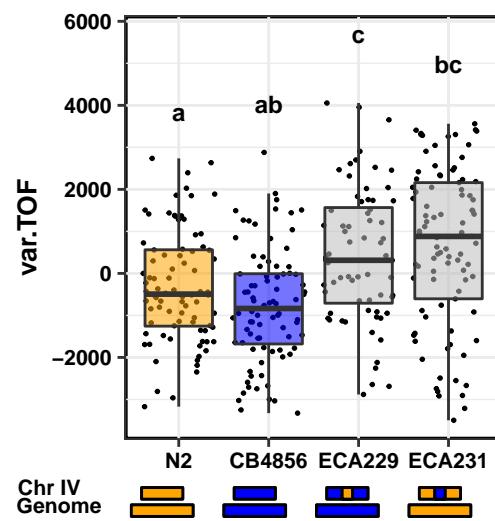
#### III:3359043



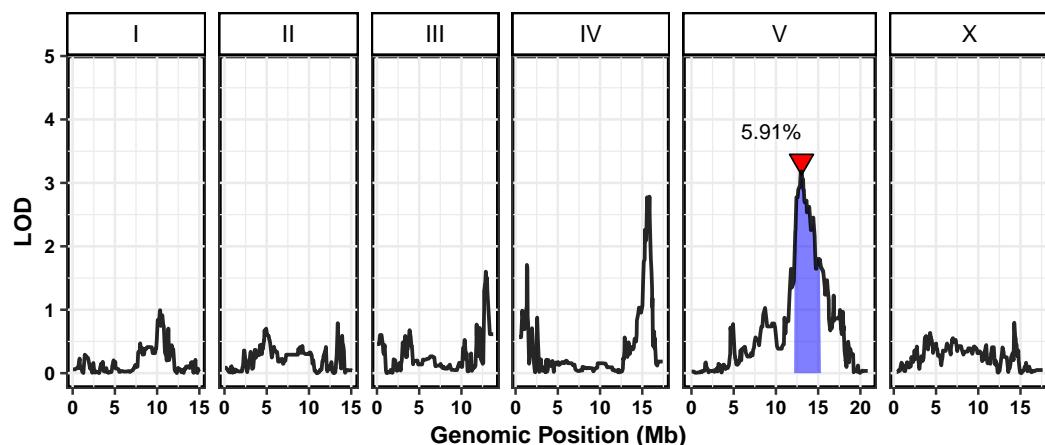
#### IV:8228724



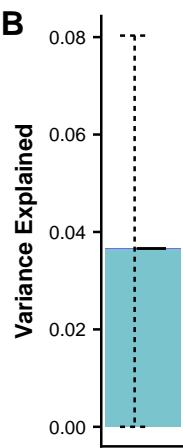
#### NIL – No parental diff.



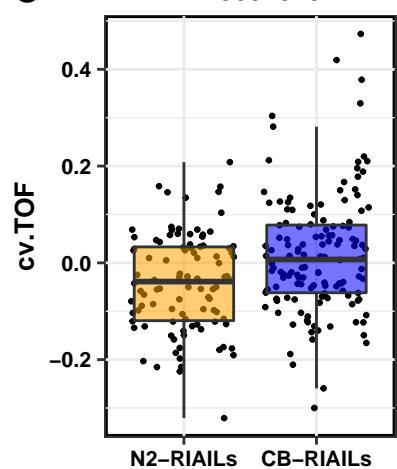
### A chlorpyrifos.cv.TOF



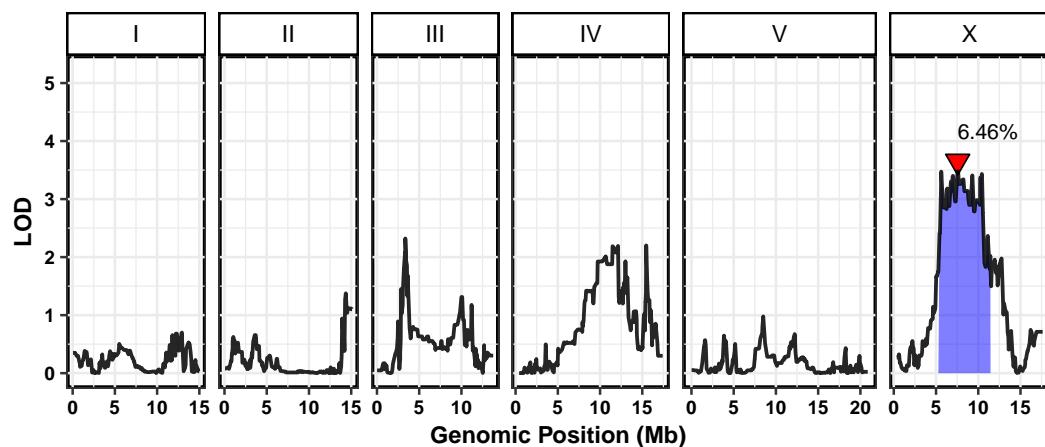
### B



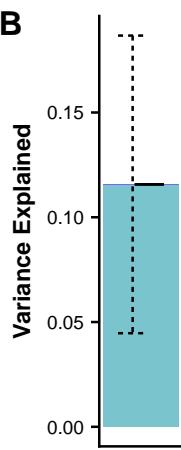
### C V:13031375



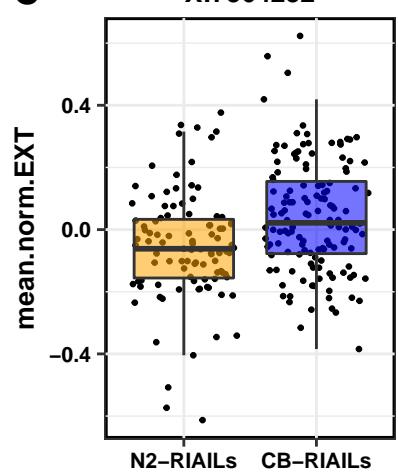
### A chlorpyrifos.mean.norm.EXT



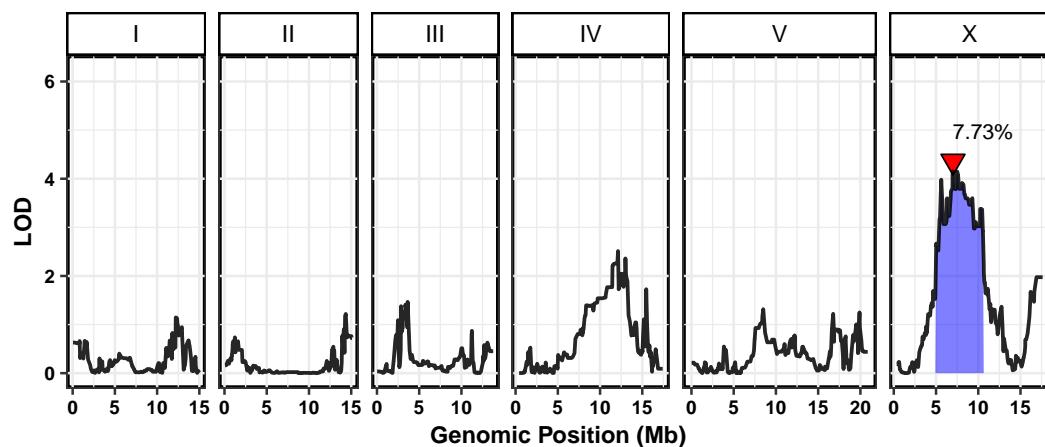
### B



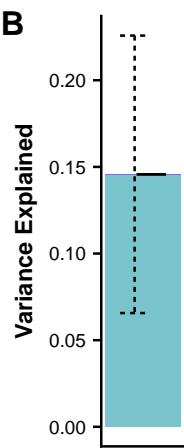
### C X:7564252



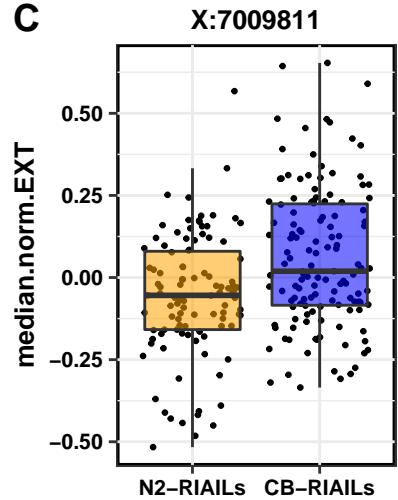
### A chlorpyrifos.median.norm.EXT



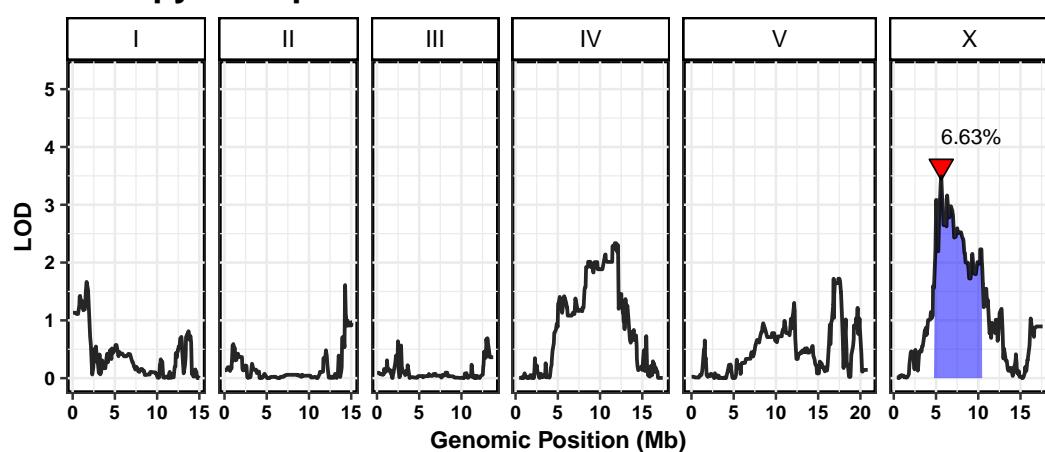
### B



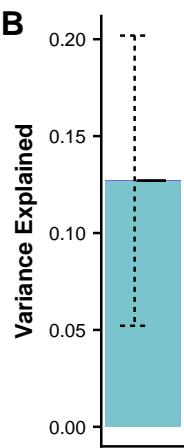
### C



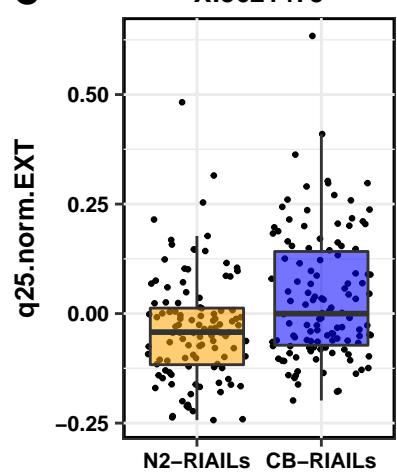
### A chlorpyrifos.q25.norm.EXT



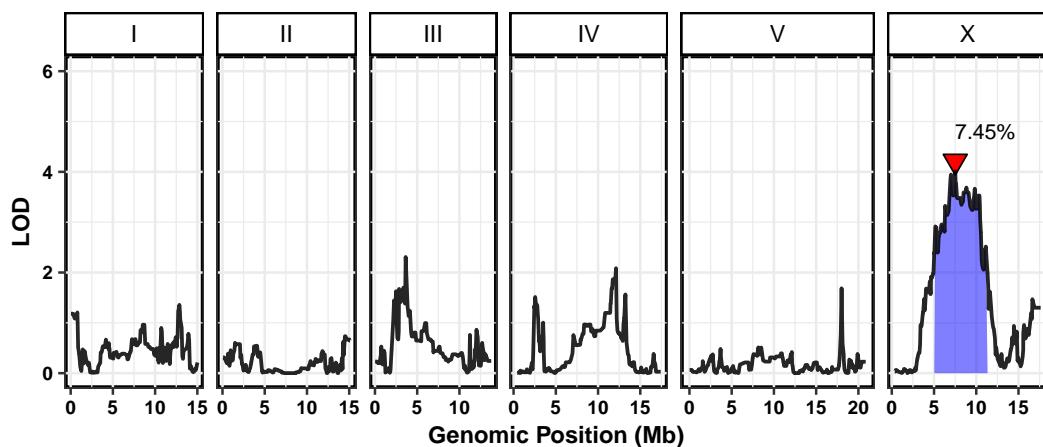
### B



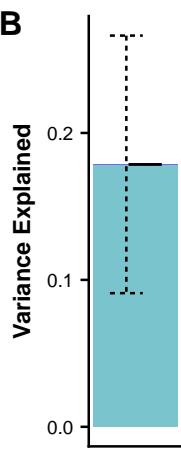
### C X:5621475



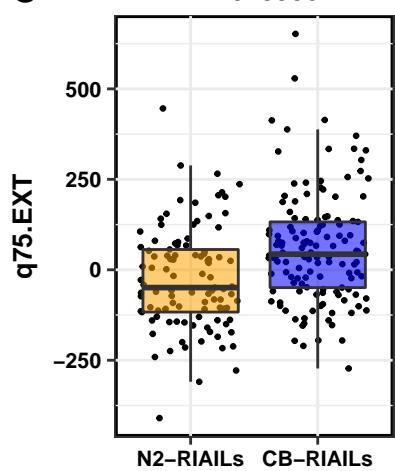
### A chlorpyrifos.q75.EXT



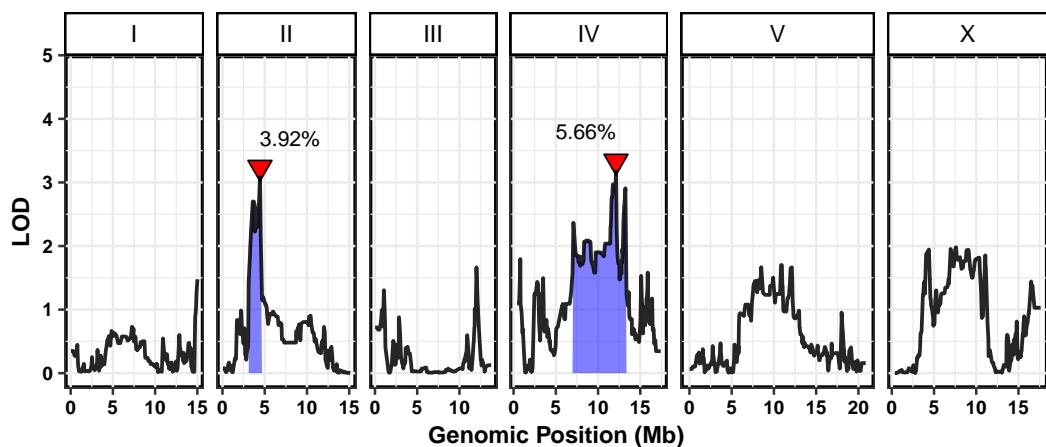
### B



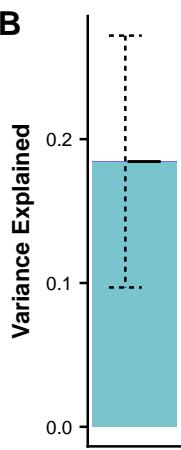
### C X:7513586



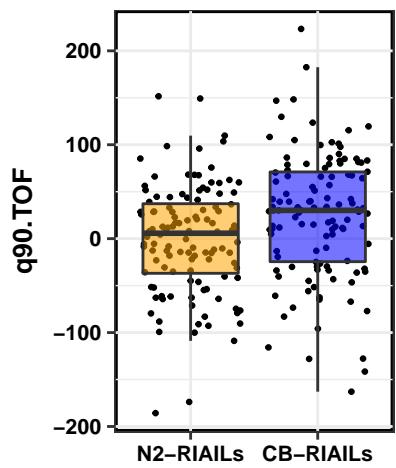
### A chlorpyrifos.q90.TOF



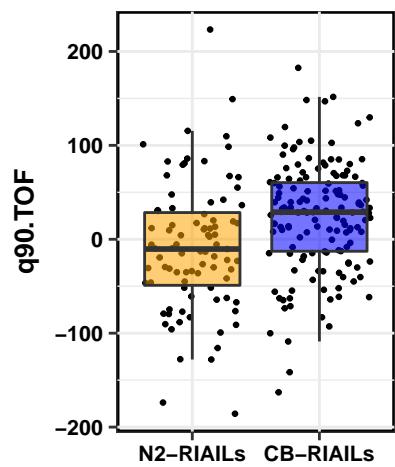
### B



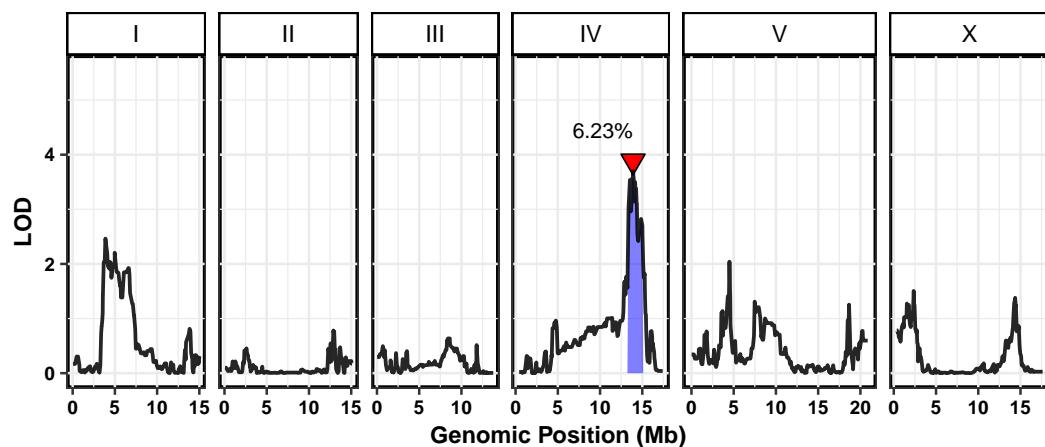
### C II:4434620



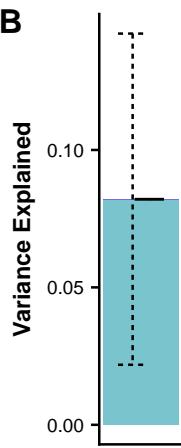
### IV:12124893



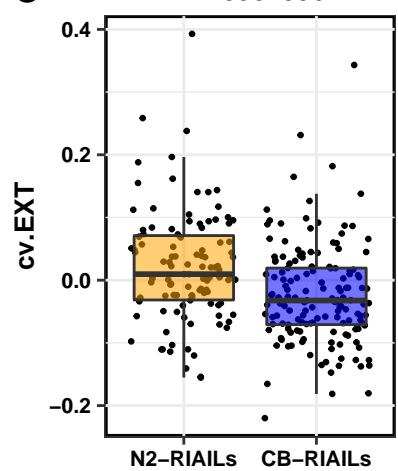
### A cisplatin.cv.EXT



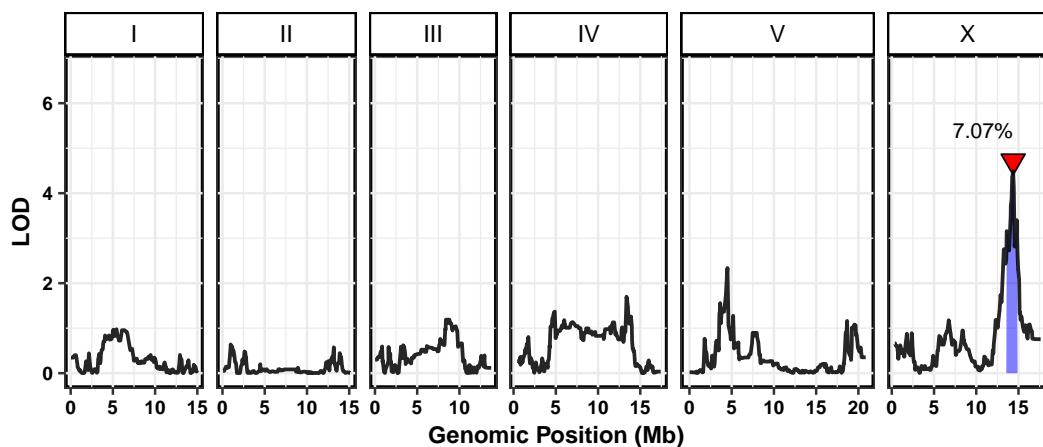
### B



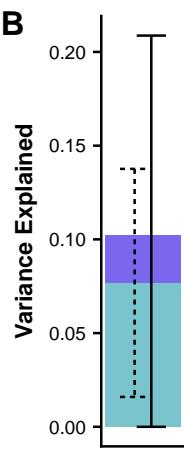
### C IV:13904356



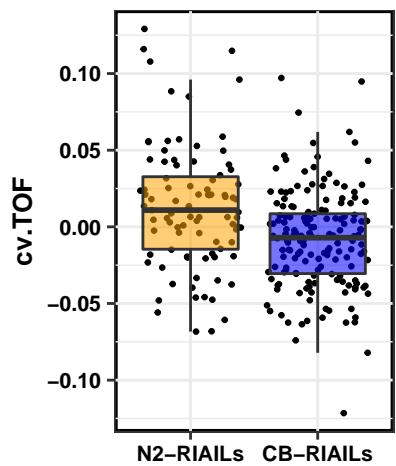
### A cisplatin.cv.TOF

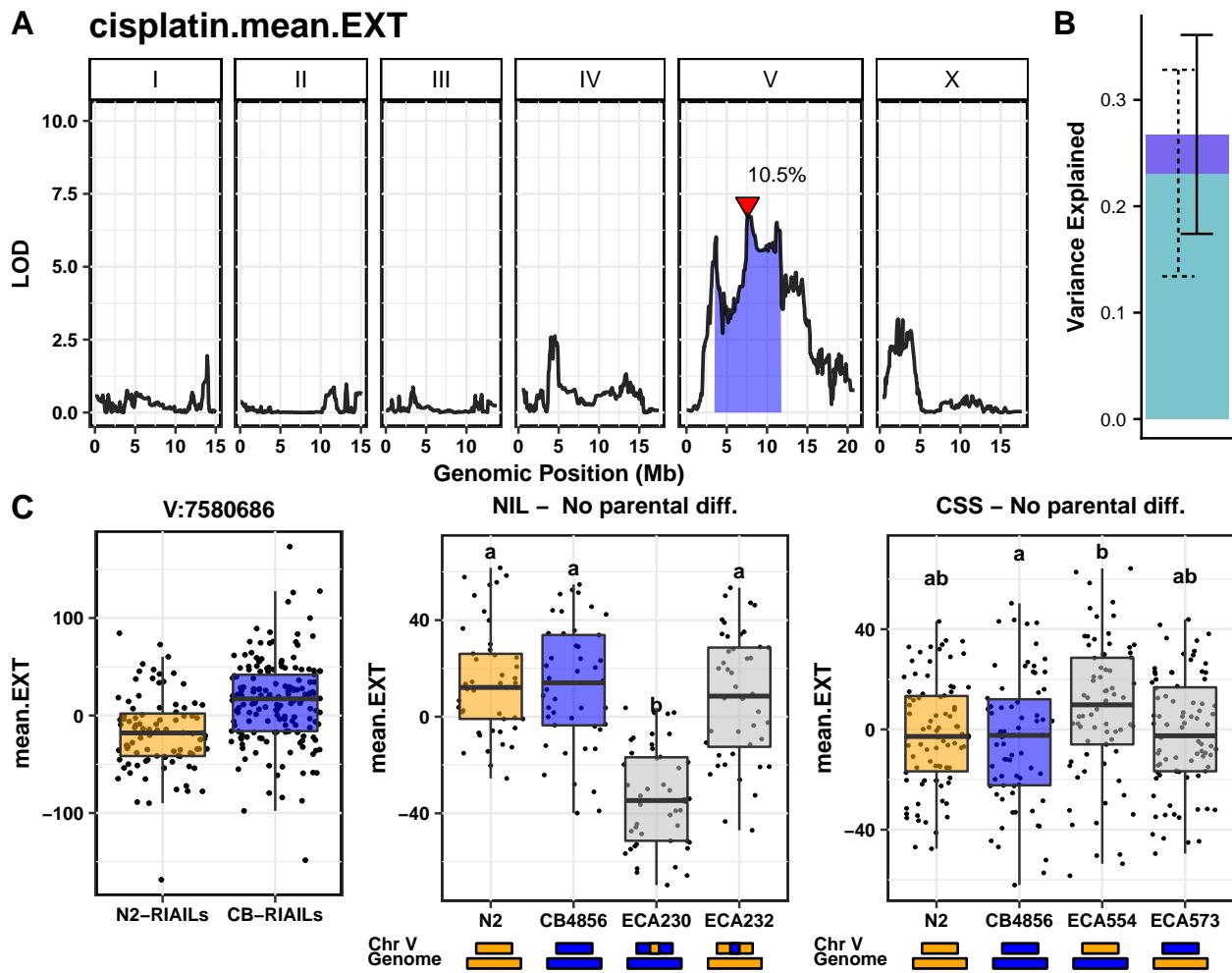


### B

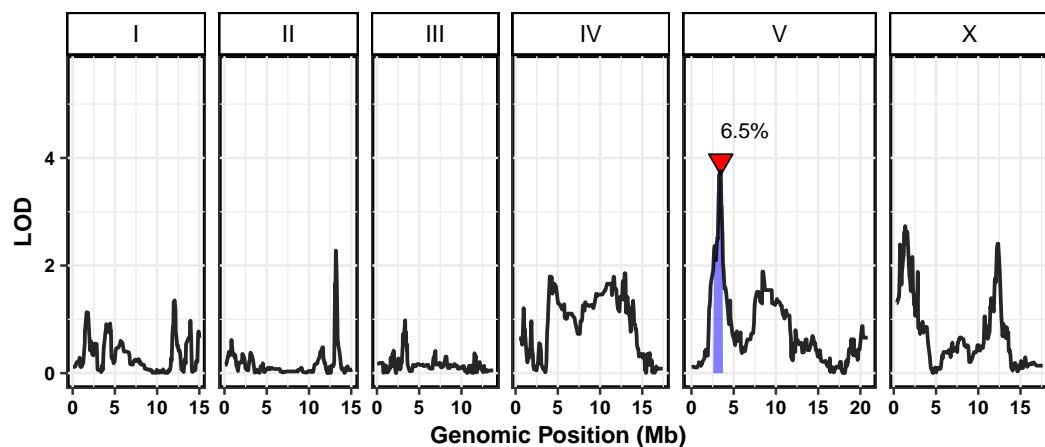


### C X:14364921

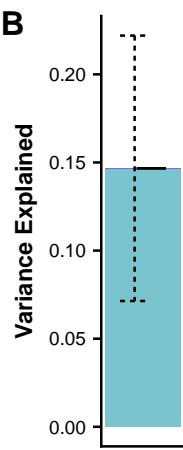




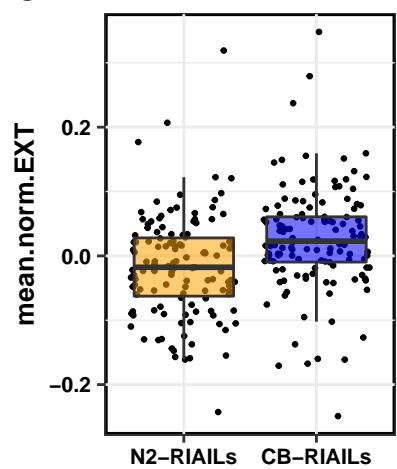
### A cisplatin.mean.norm.EXT



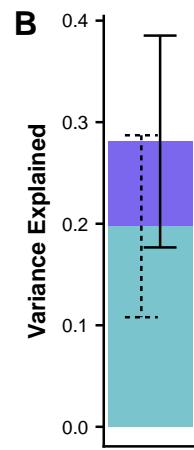
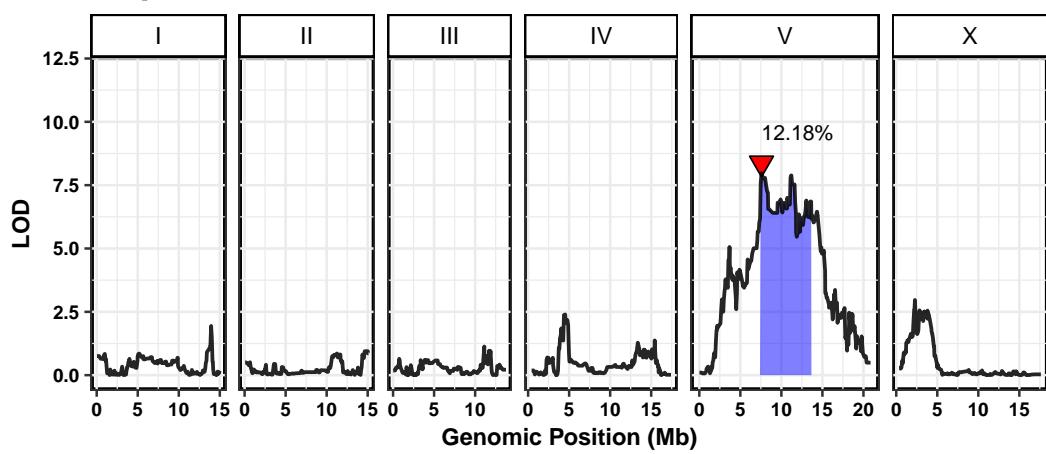
### B



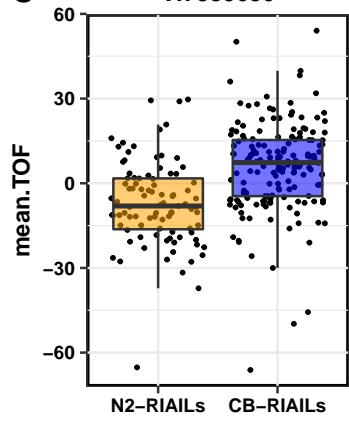
### C V:3473275



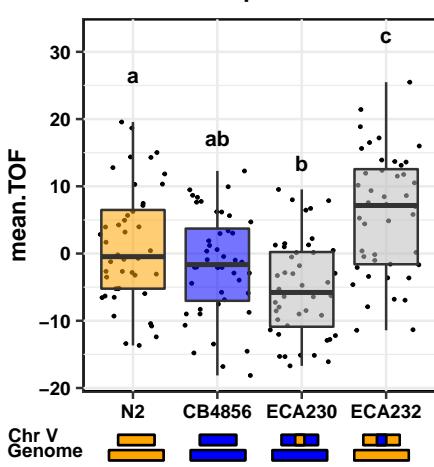
### A cisplatin.mean.TOF



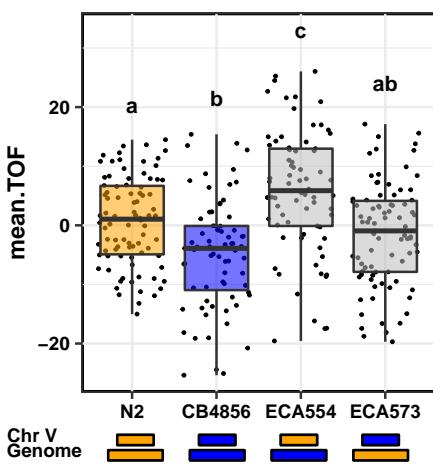
### C V:7580686



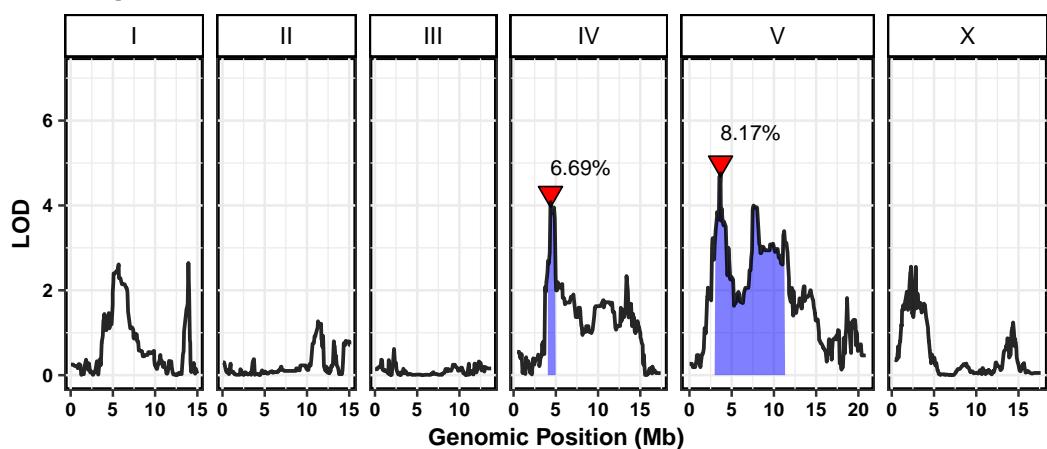
### NIL – No parental diff.



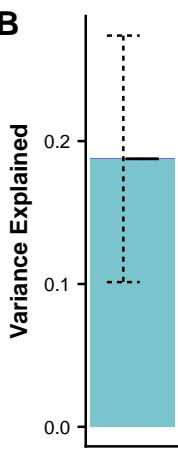
### CSS – Unidirectional



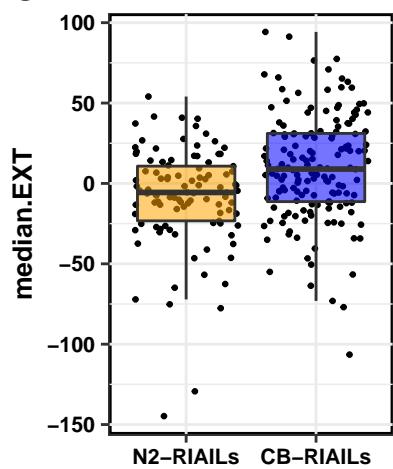
### A cisplatin.median.EXT



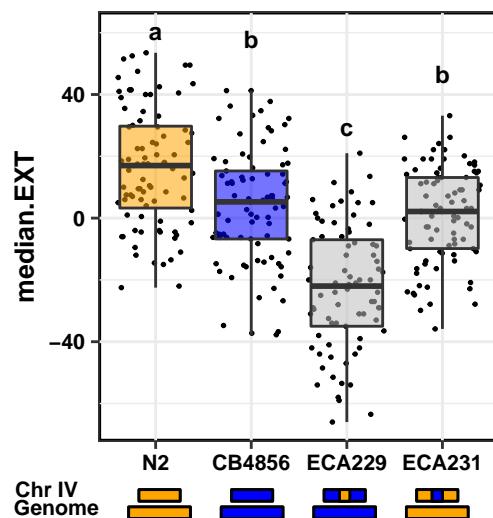
### B



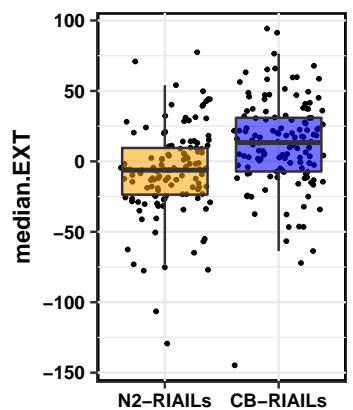
### C IV:4369098



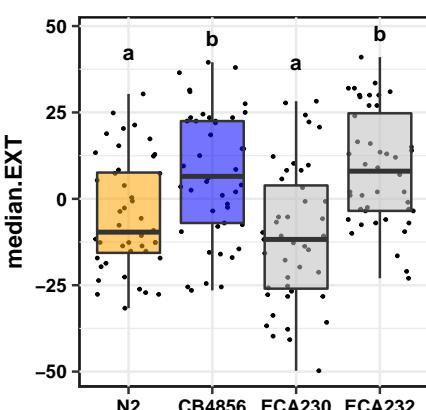
### NIL – Unidirectional



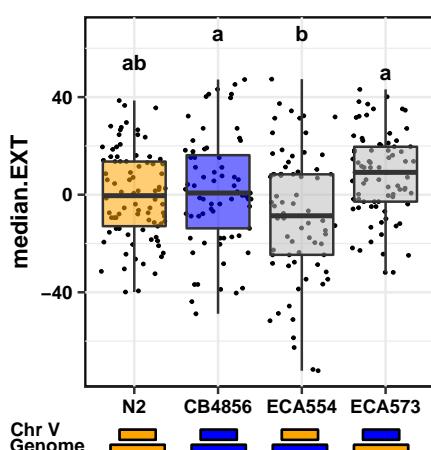
### V:3682108



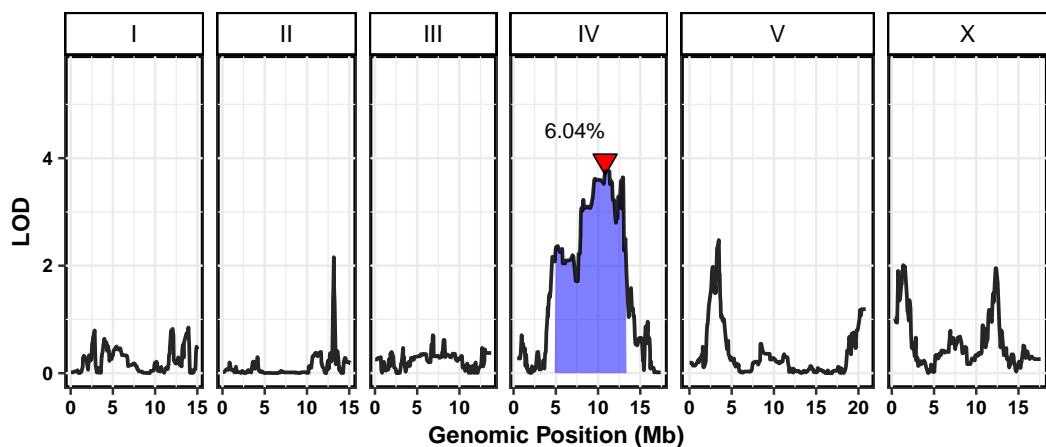
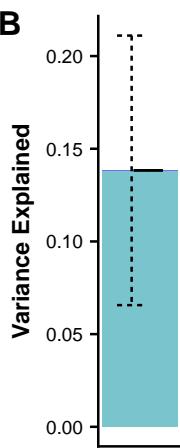
### NIL – Recapitulation



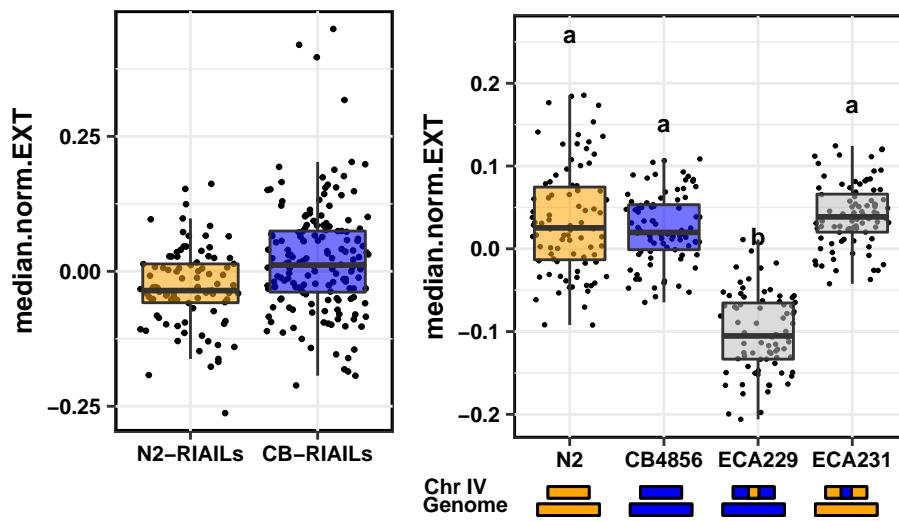
### CSS – No parental diff.



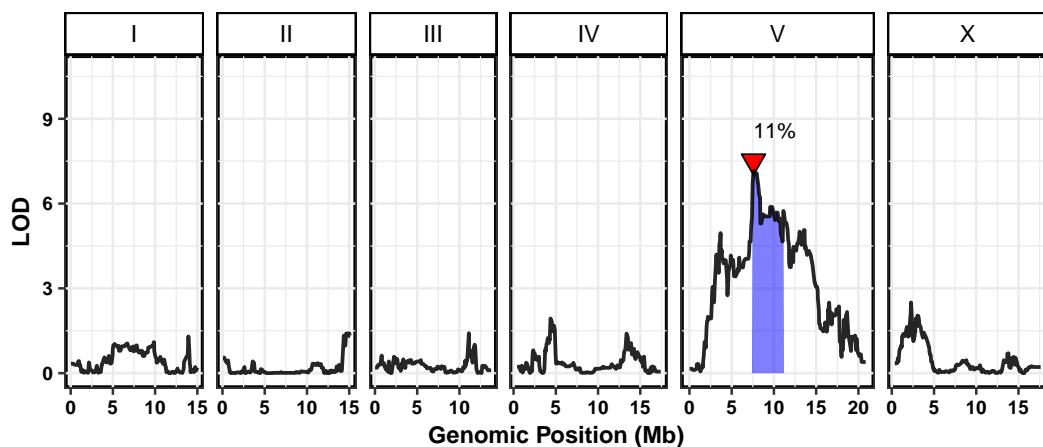
### A cisplatin.median.norm.EXT

**B**

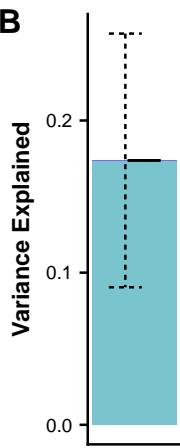
### C IV:10835807



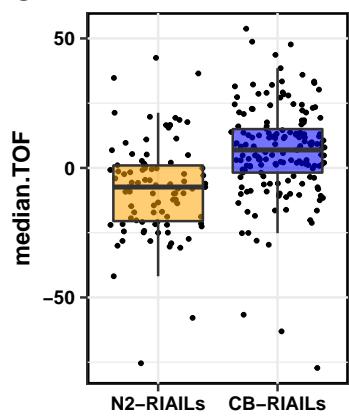
### A cisplatin.median.TOF



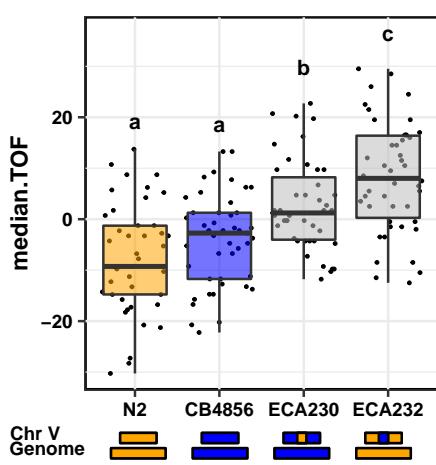
### B



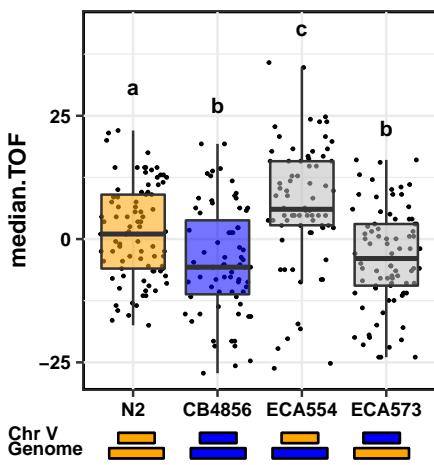
### C V:7580686



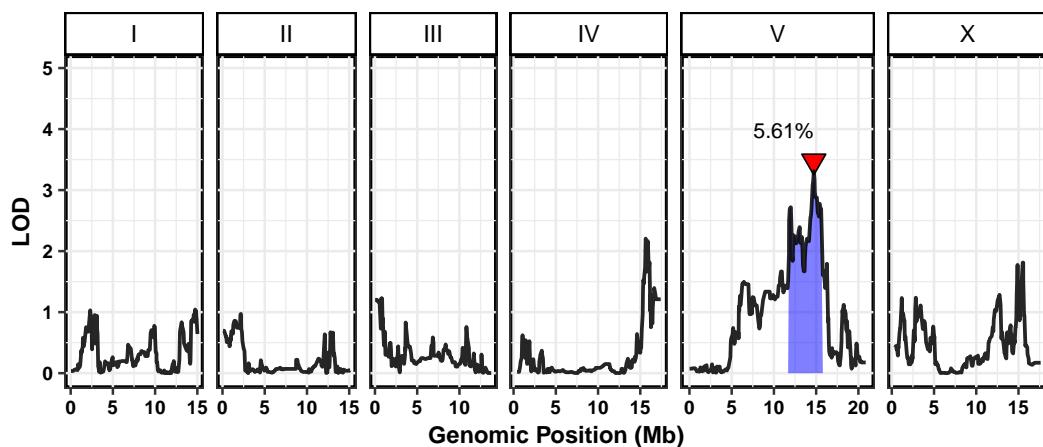
### NIL – No parental diff.



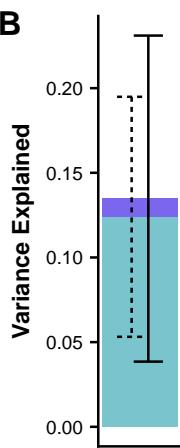
### CSS – Unidirectional



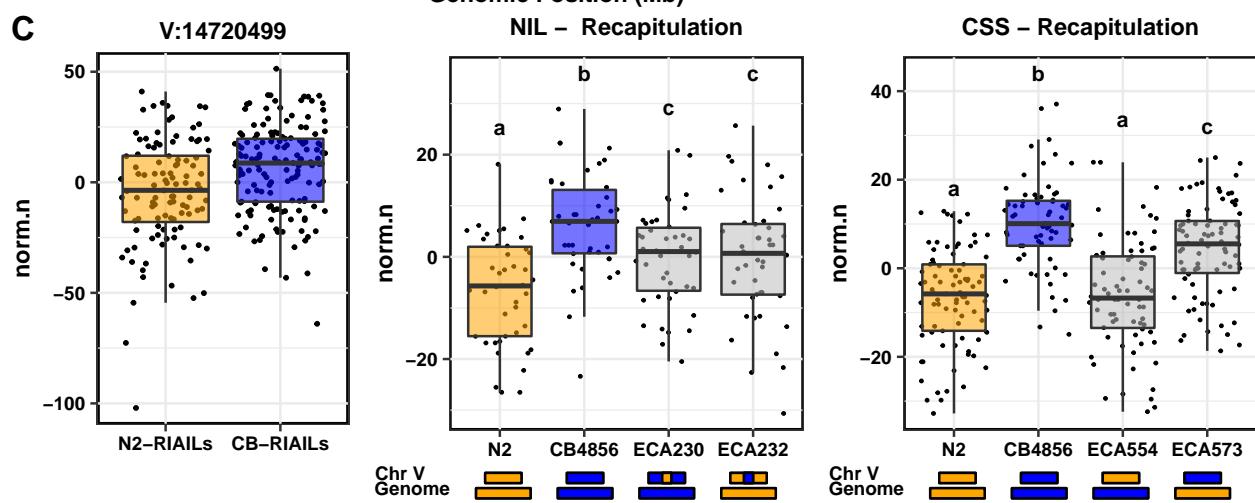
### A cisplatin.norm.n



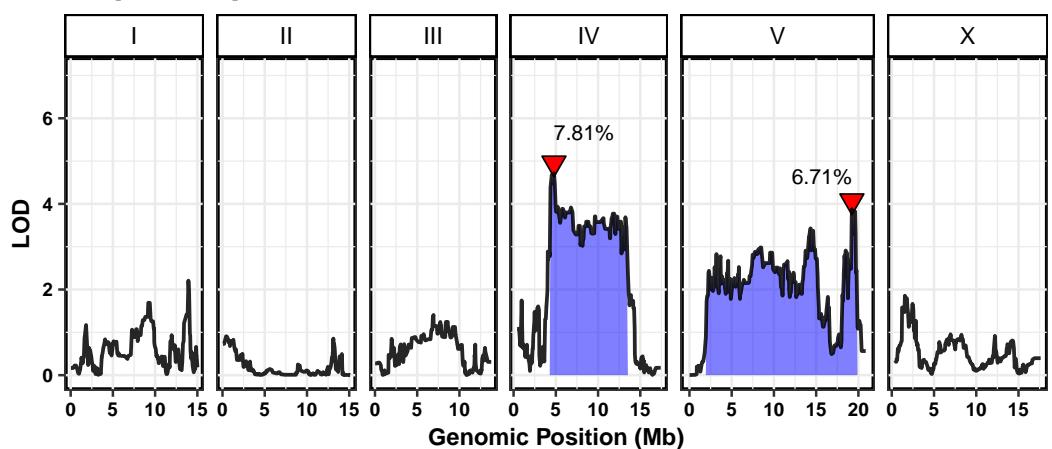
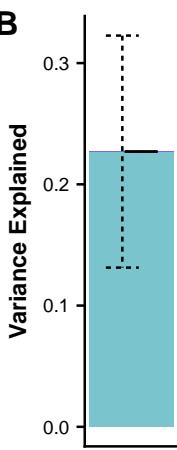
### B



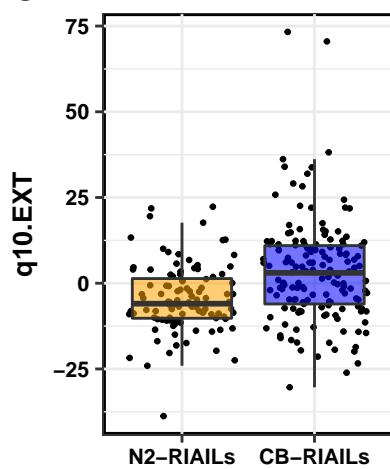
### C



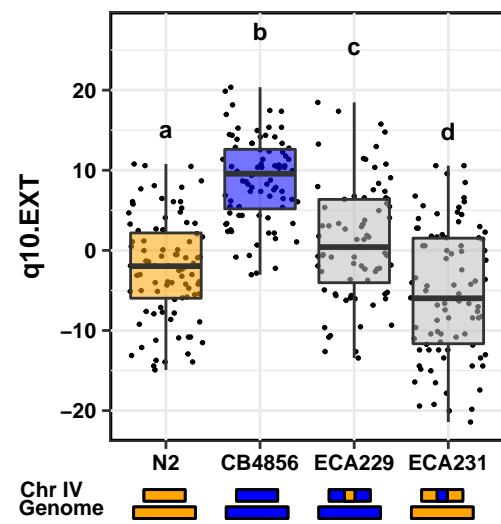
### A cisplatin.q10.EXT


**B**


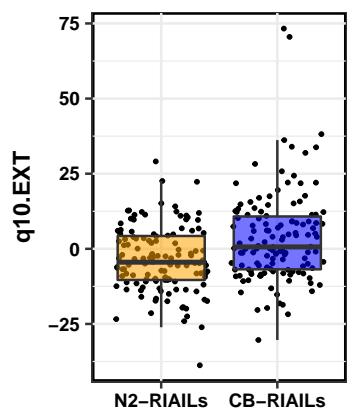
### C IV:4779025



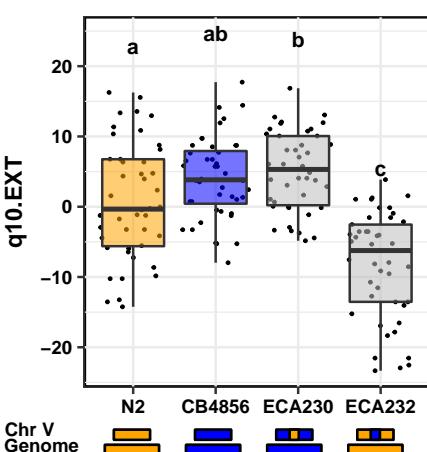
### NIL – Unidirectional



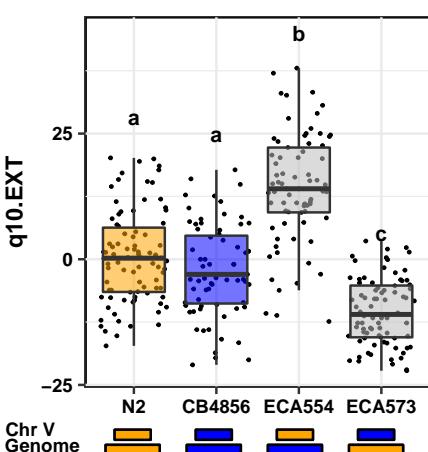
### V:19231588



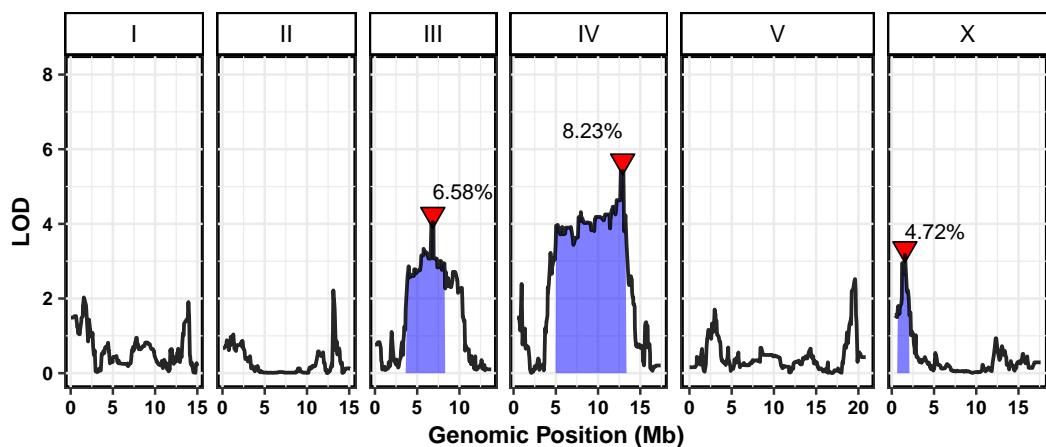
### NIL – No parental diff.



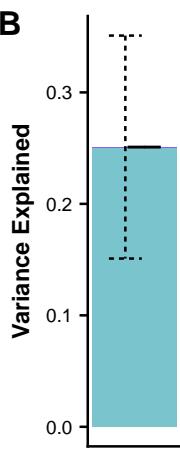
### CSS – No parental diff.



### A cisplatin.q10.norm.EXT

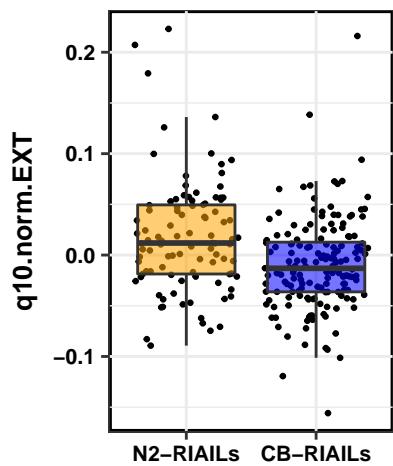


B

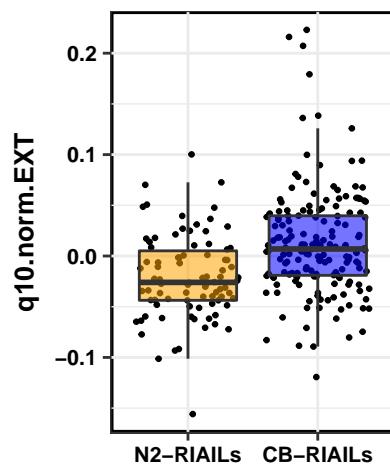


### C

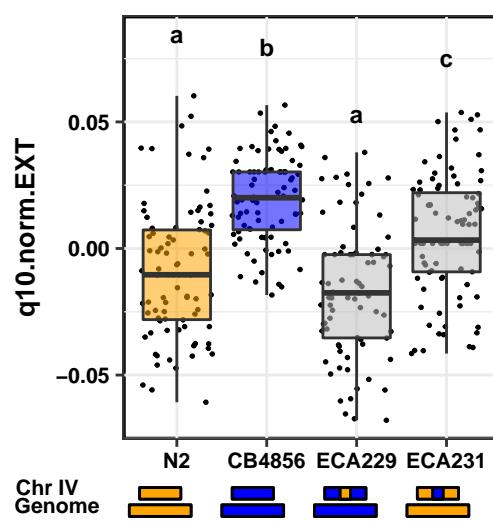
#### III:6847236



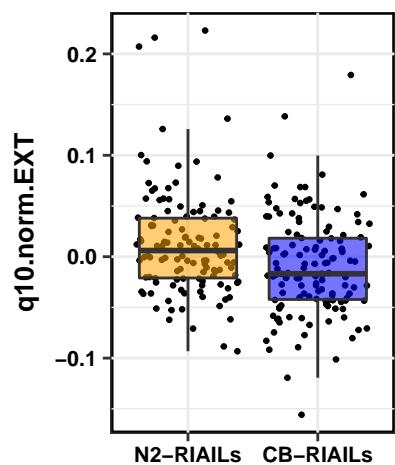
#### IV:12908590



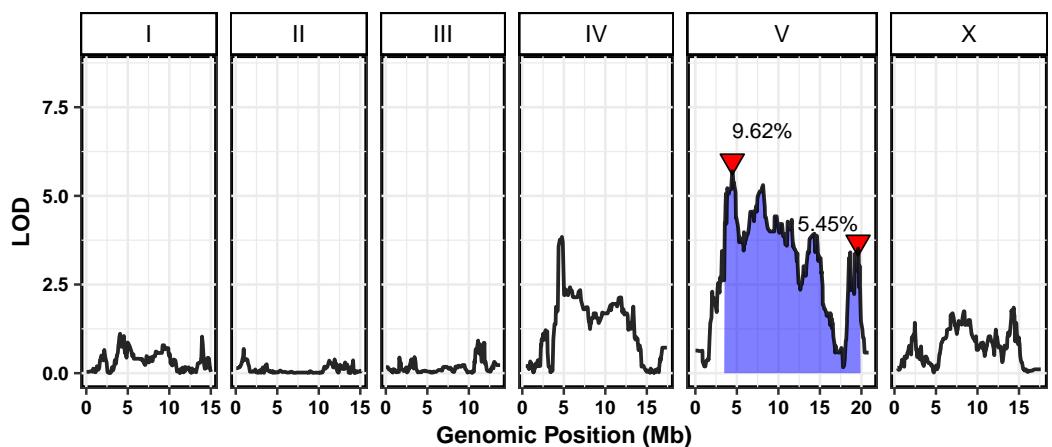
#### NIL – Recapitulation



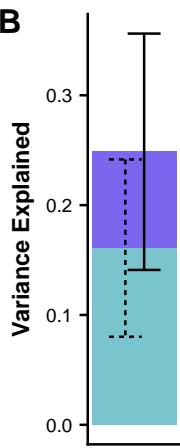
X:1549462



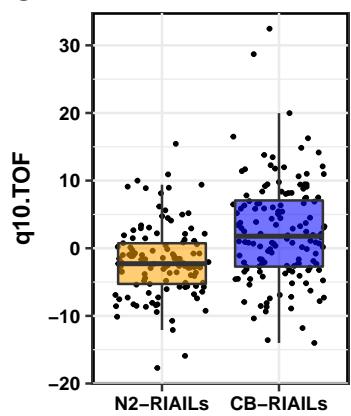
### A cisplatin.q10.TOF



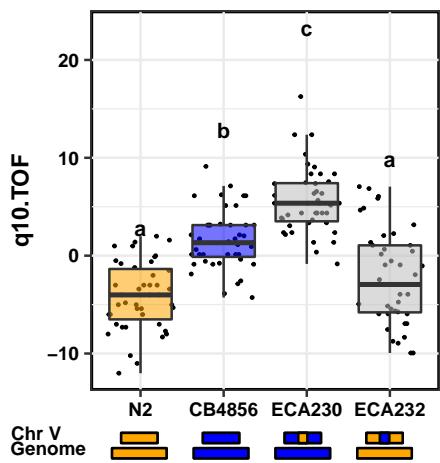
### B



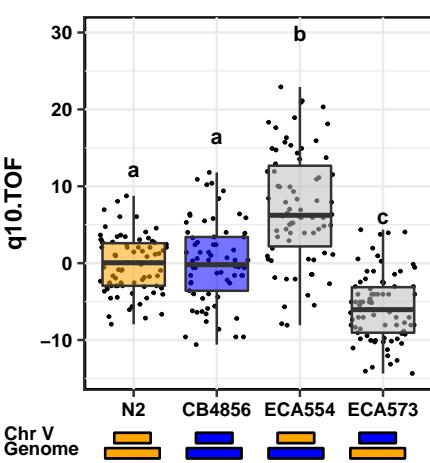
### C V:4442141



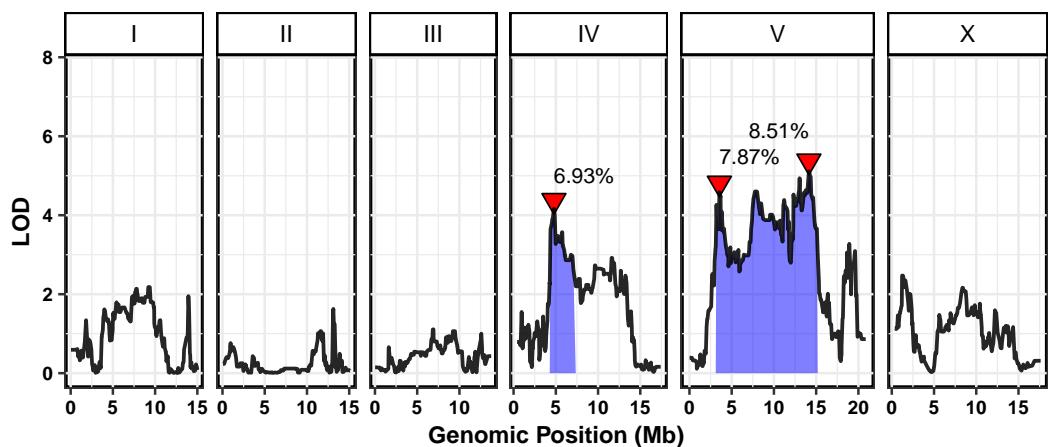
### NIL – Unidirectional



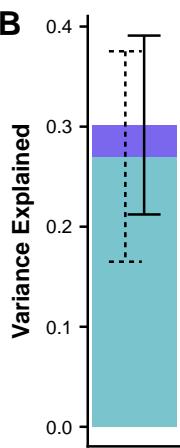
### CSS – No parental diff.



### A cisplatin.q25.EXT



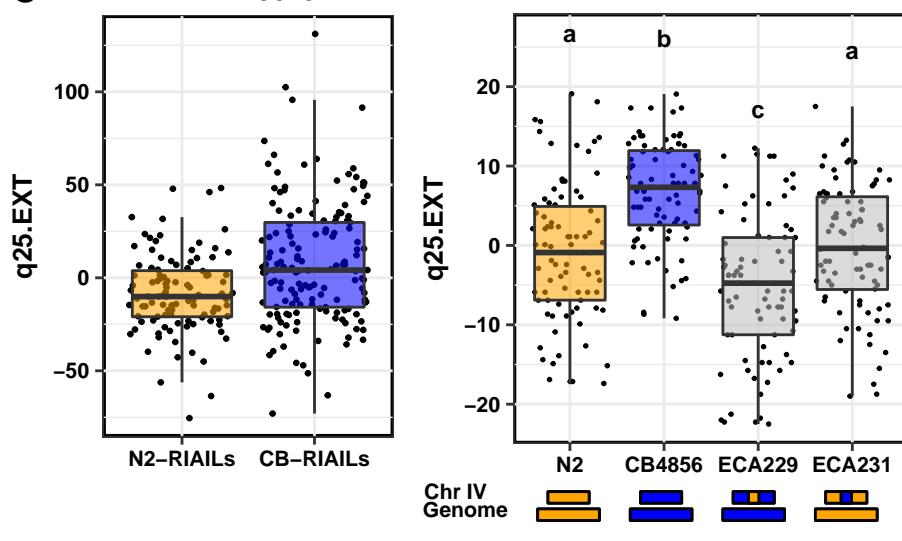
B



C

IV:4779025

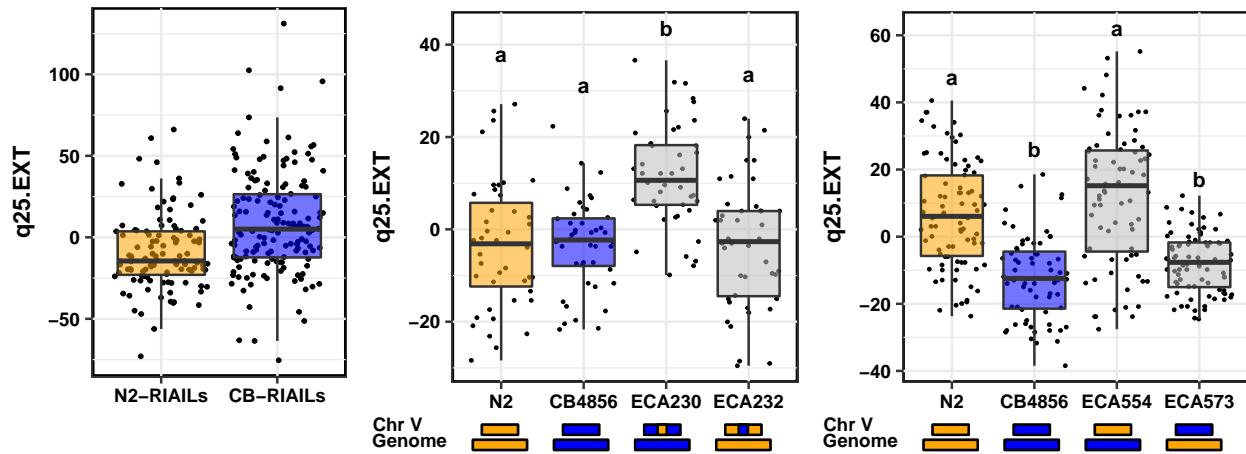
NIL – Unidirectional



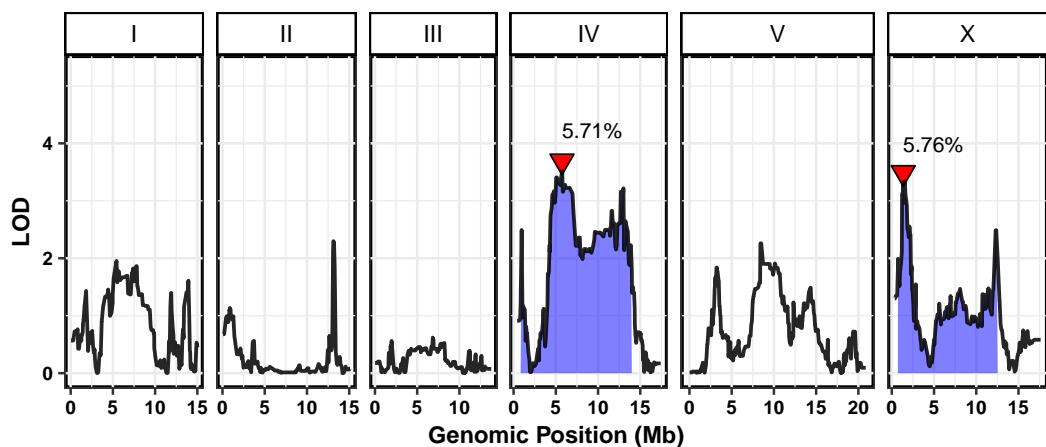
V:14140433

NIL – No parental diff.

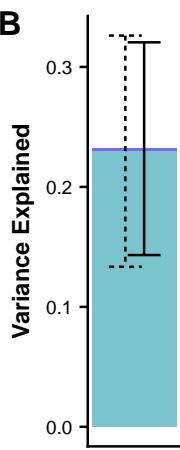
CSS – Recapitulation



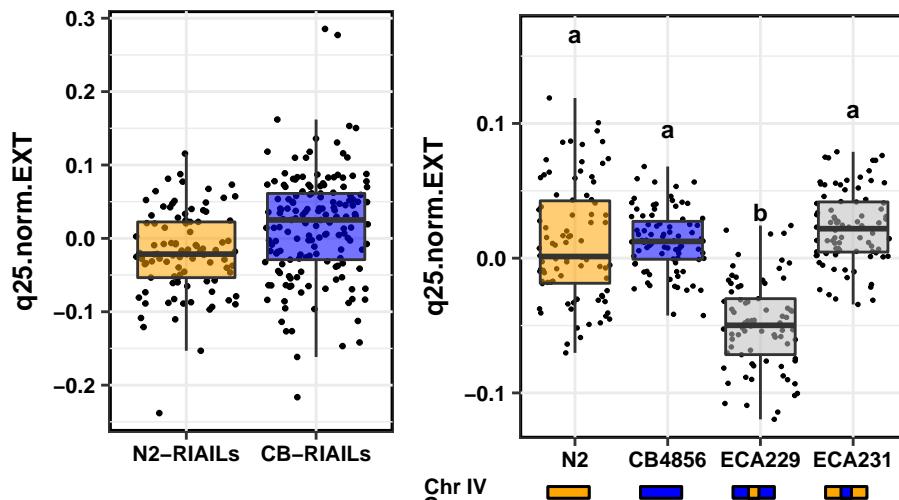
### A cisplatin.q25.norm.EXT



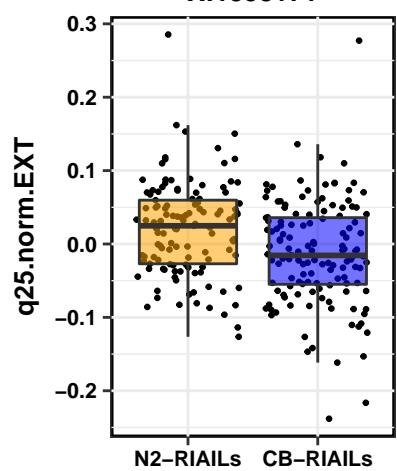
### B



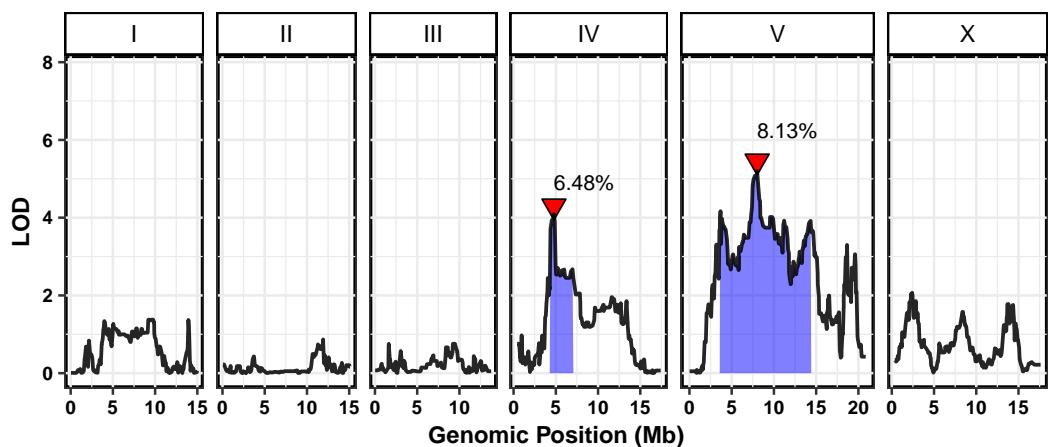
### C IV:5732338



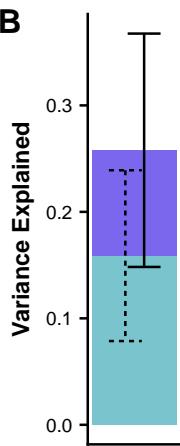
### X:1358171



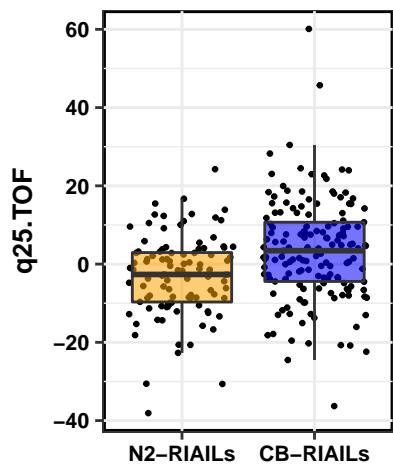
### A cisplatin.q25.TOF



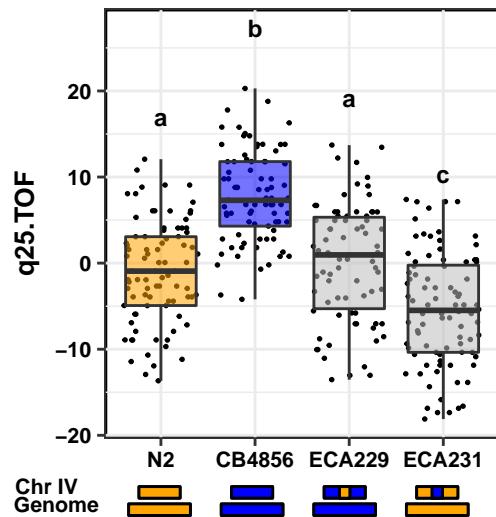
B



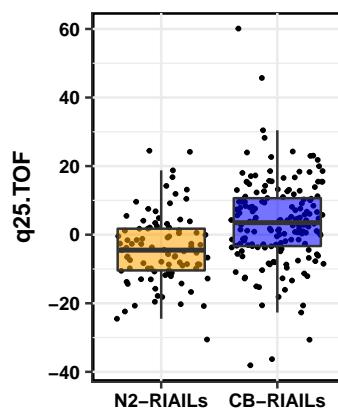
### C IV:4779025



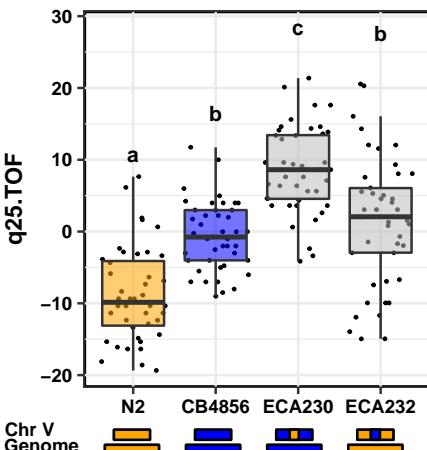
### NIL – Unidirectional



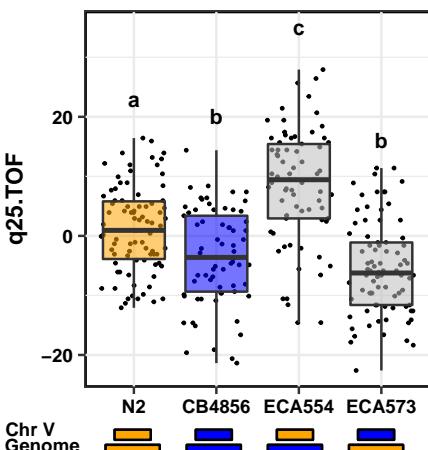
### V:8012277



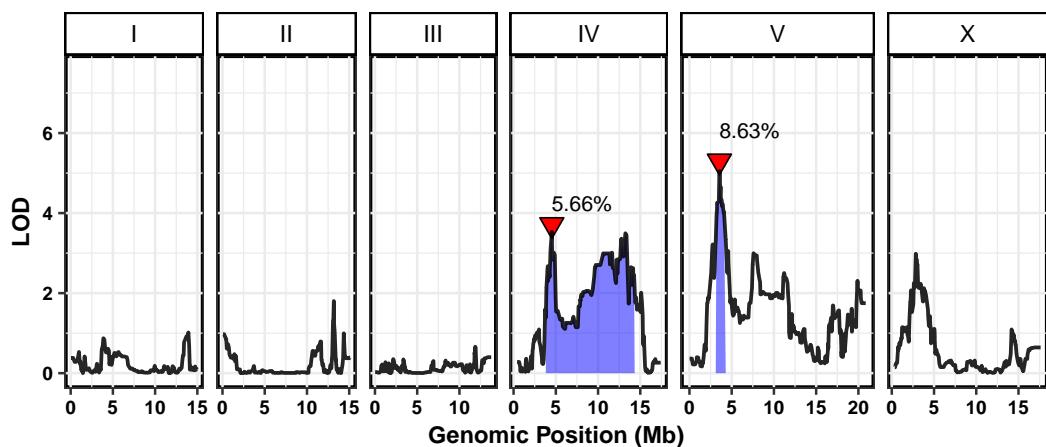
### NIL – Unidirectional



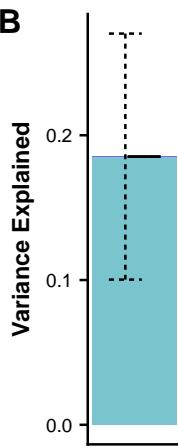
### CSS – Unidirectional



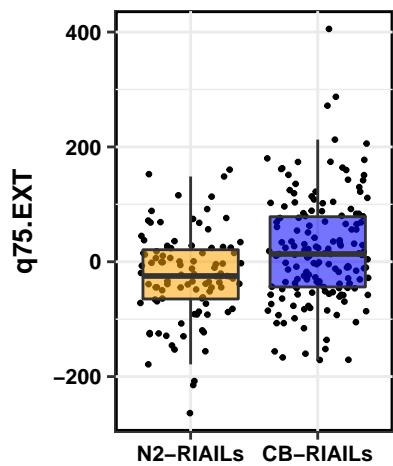
### A cisplatin.q75.EXT



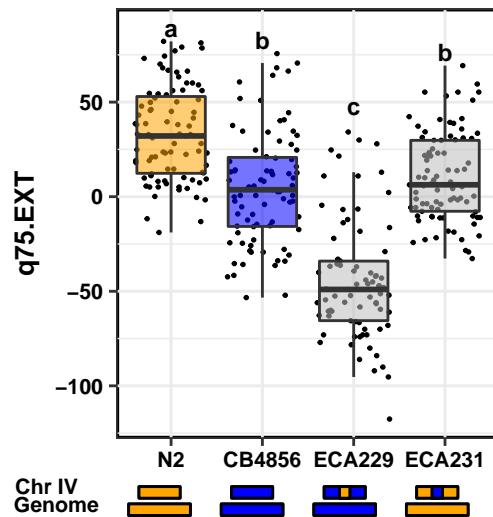
### B



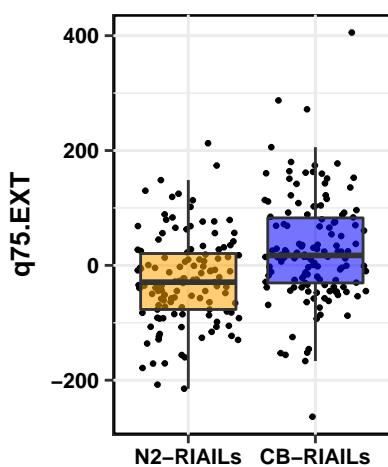
### C IV:4526752



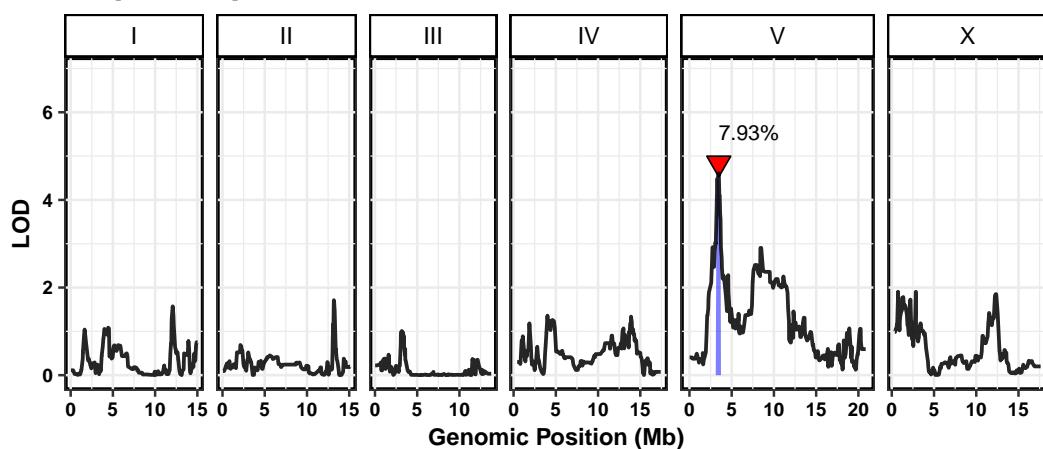
### NIL – Unidirectional



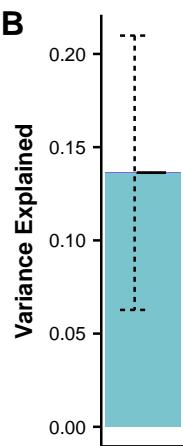
### V:3545006



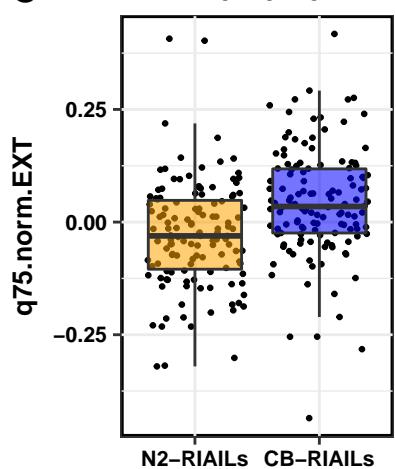
### A cisplatin.q75.norm.EXT



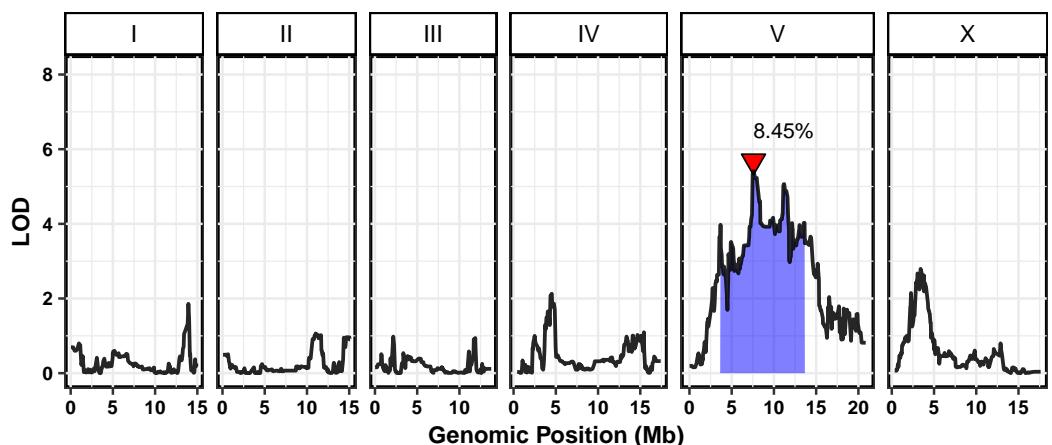
### B



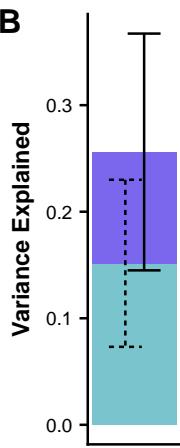
### C V:3473275



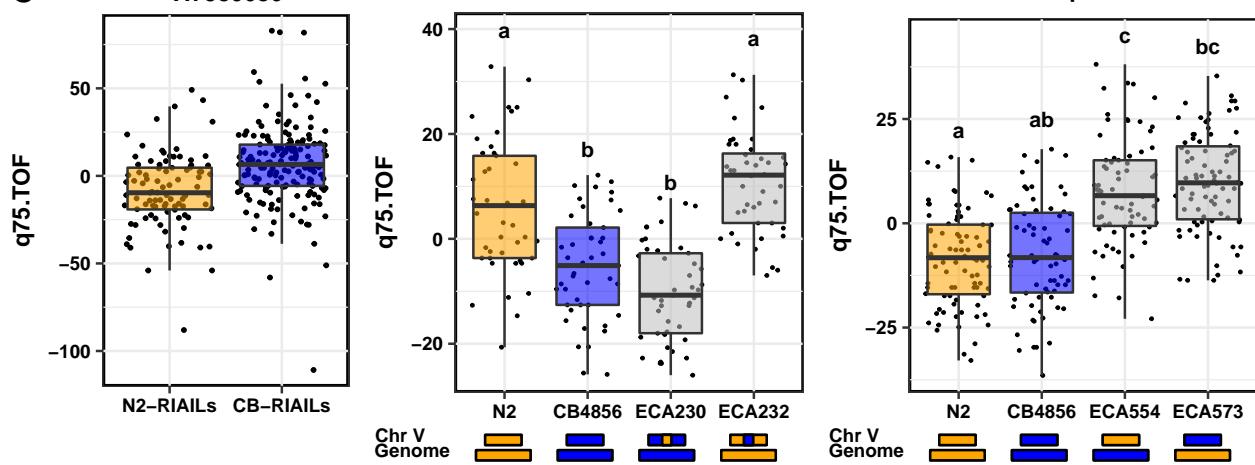
### A cisplatin.q75.TOF



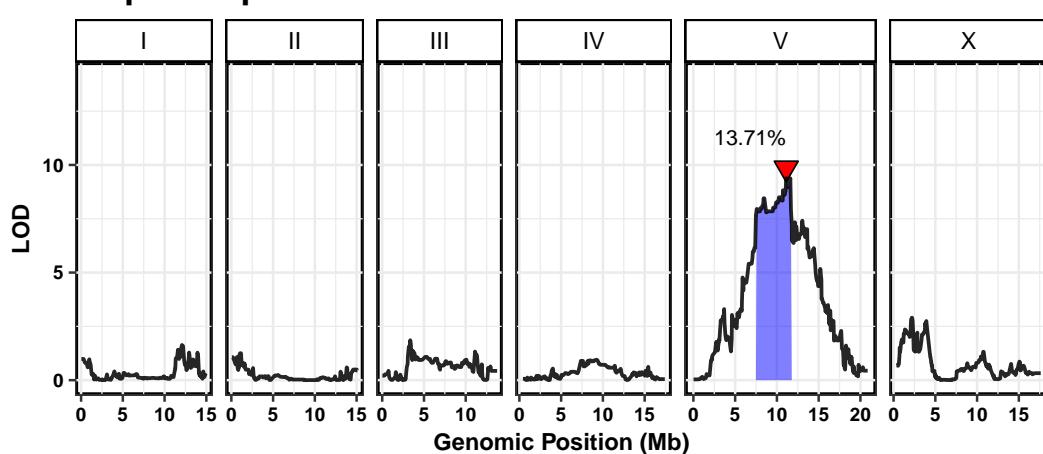
### B



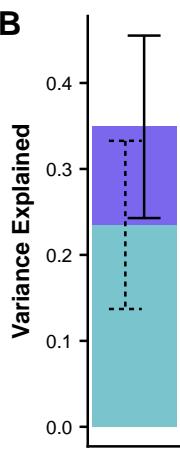
### C V:7580686



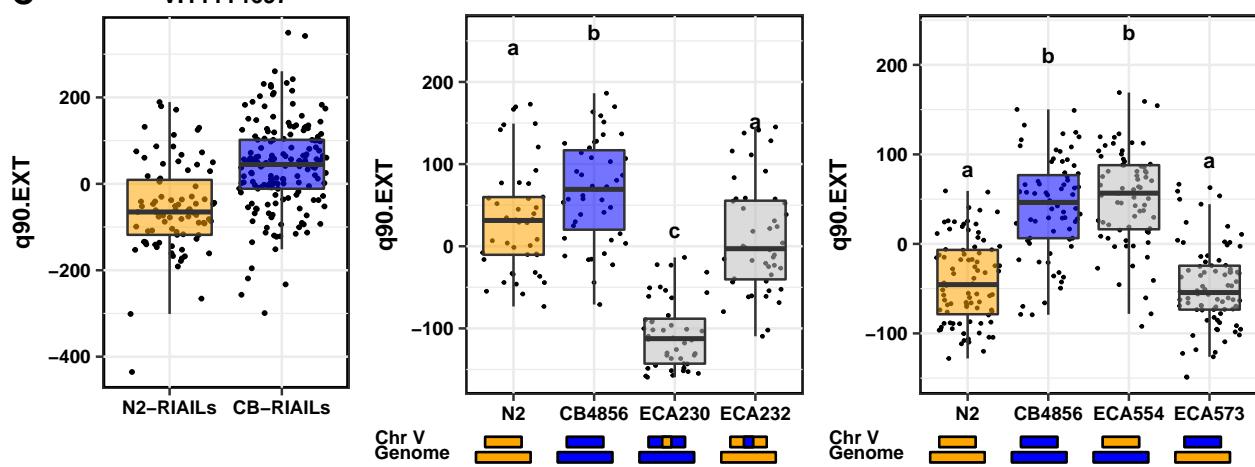
### A cisplatin.q90.EXT



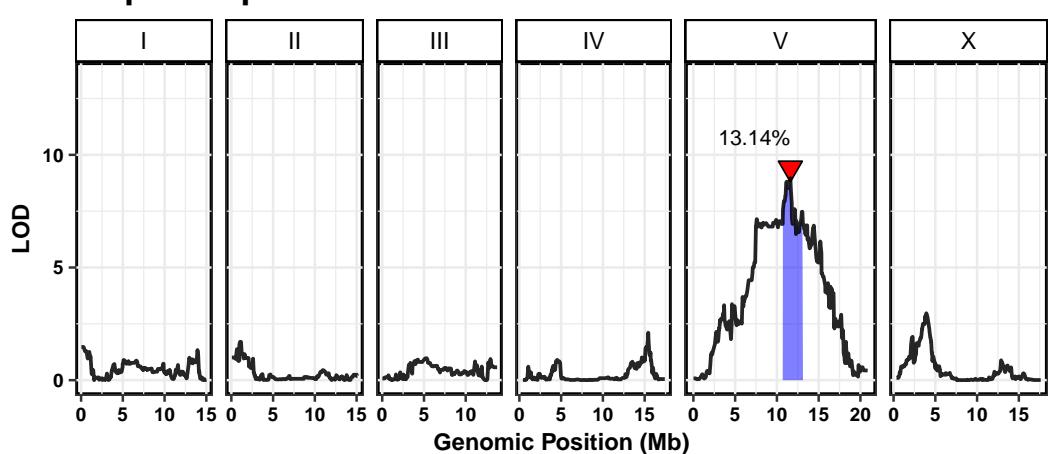
B



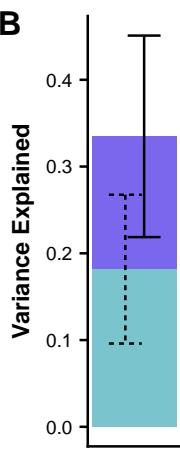
### C V:11114697



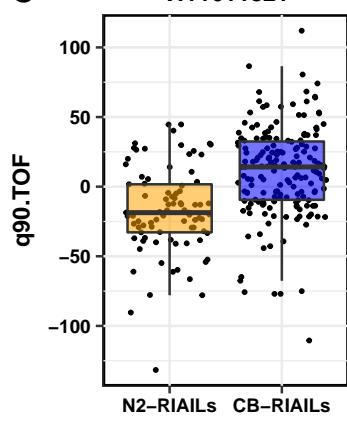
### A cisplatin.q90.TOF



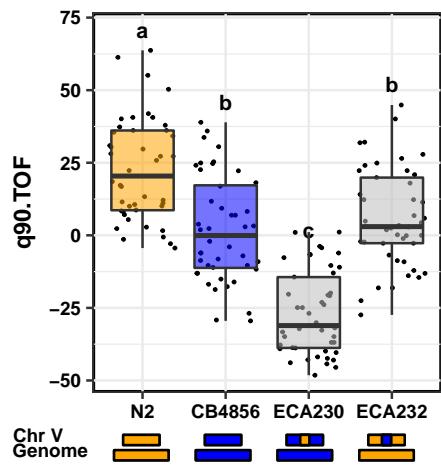
B



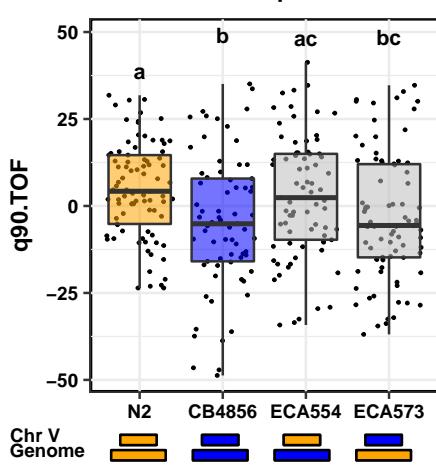
### C V:116111821



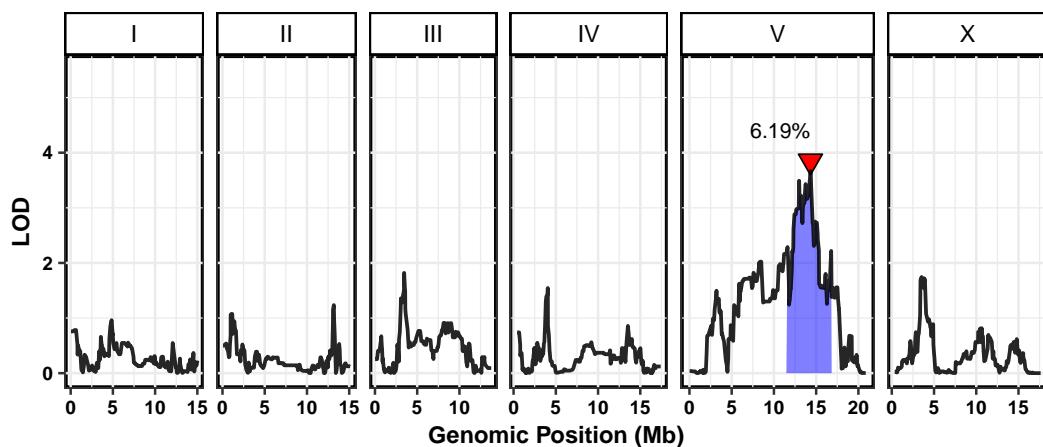
### NIL – Unidirectional



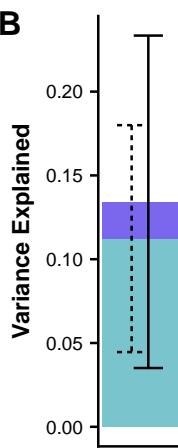
### CSS – Recapitulation



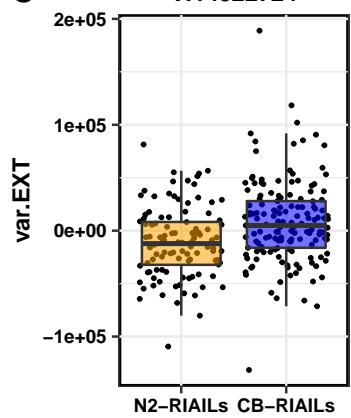
### A cisplatin.var.EXT



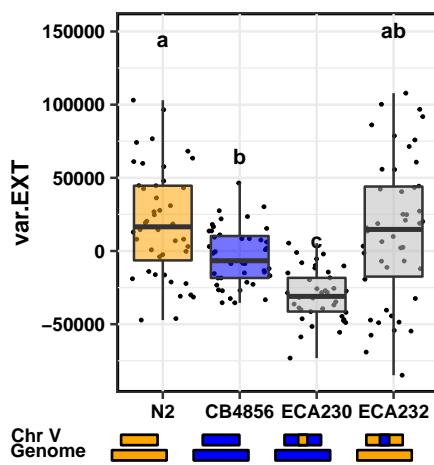
### B



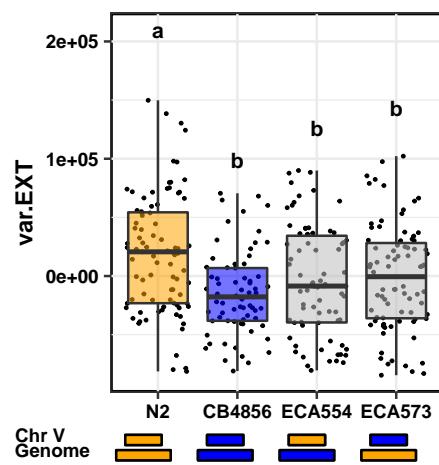
### C V:14322724



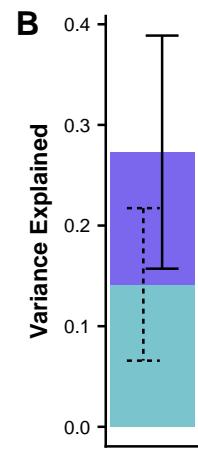
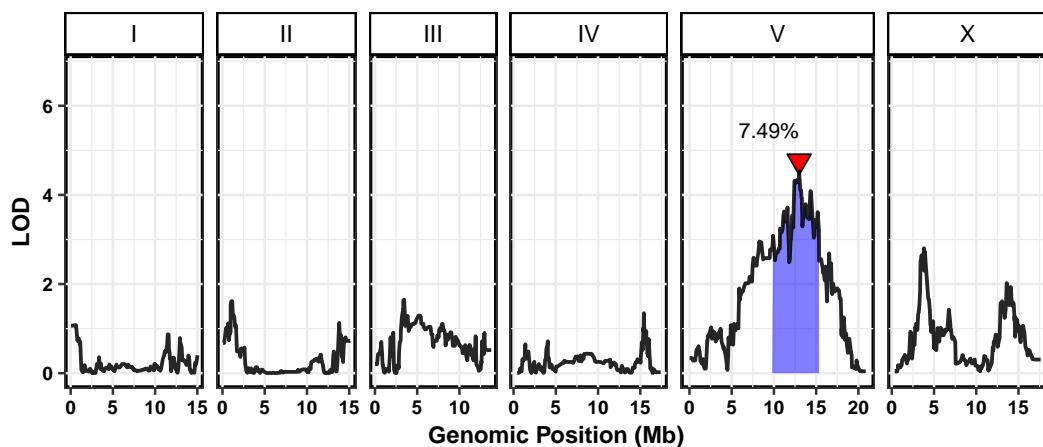
### NIL – Unidirectional



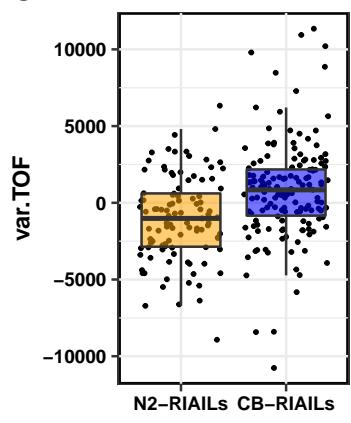
### CSS – Miscellaneous



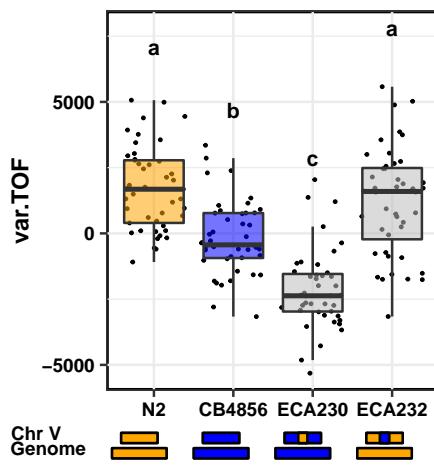
### A cisplatin.var.TOF



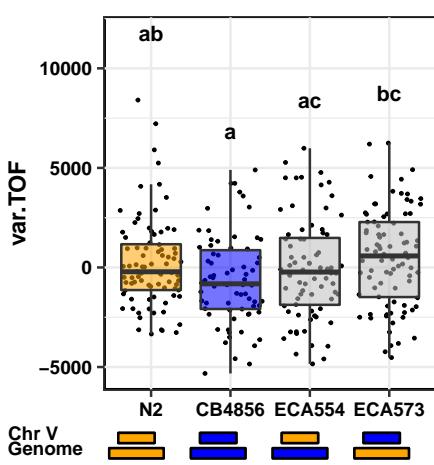
### C V:12985405



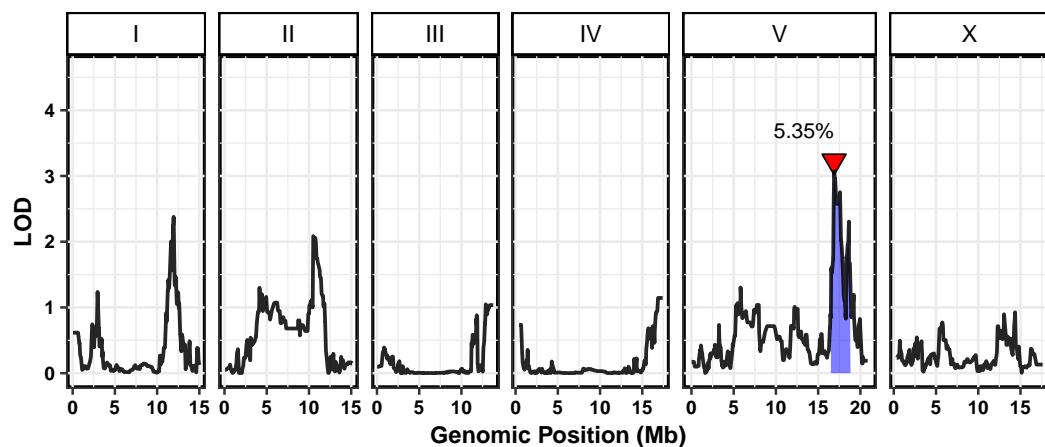
### NIL – Unidirectional



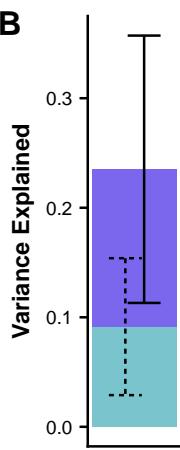
### CSS – No parental diff.



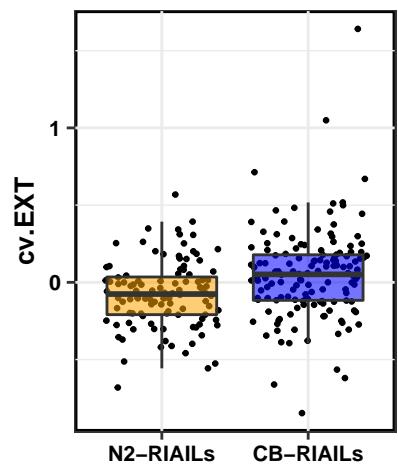
### A copper.cv.EXT



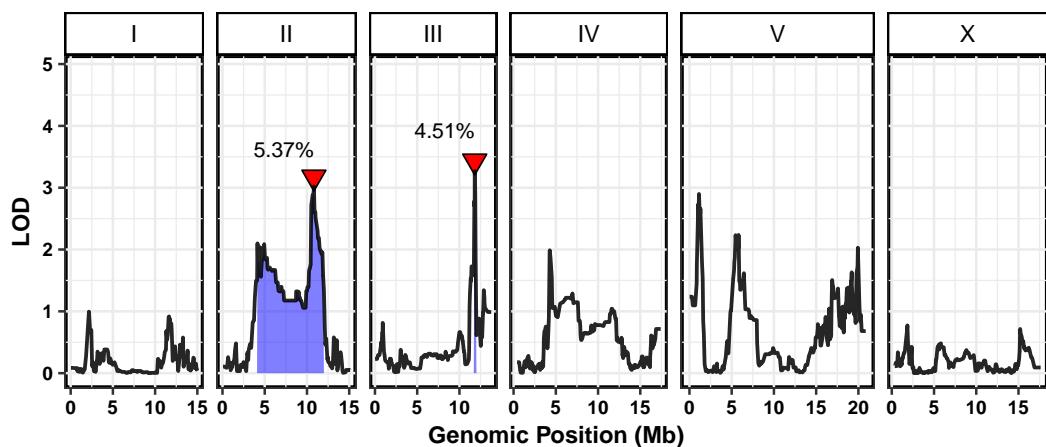
### B



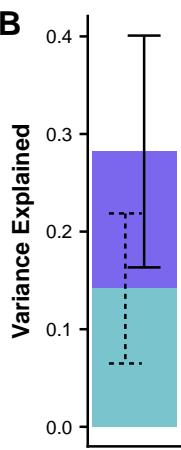
### C V:16888417



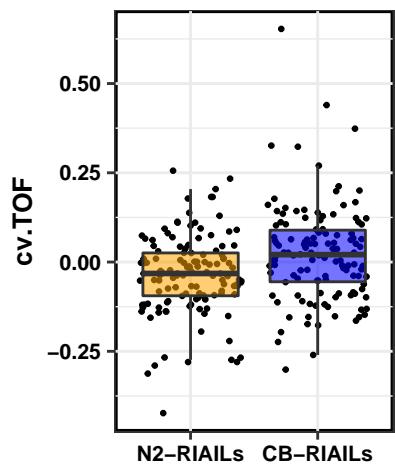
### A copper.cv.TOF



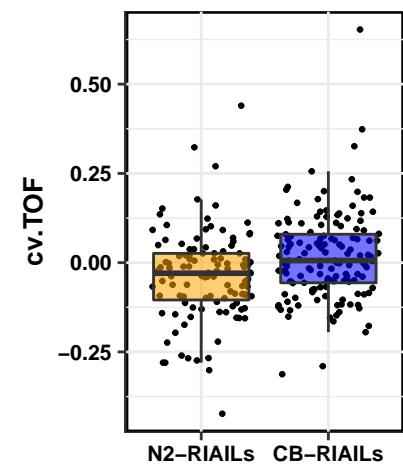
### B



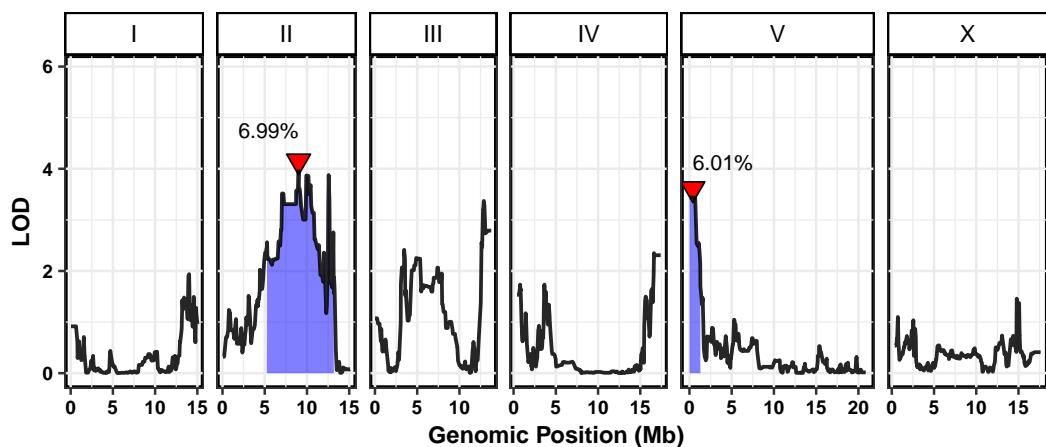
### C II:10821883



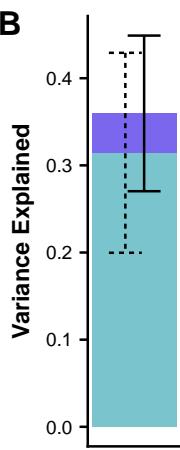
### III:11810541



### A copper.median.EXT

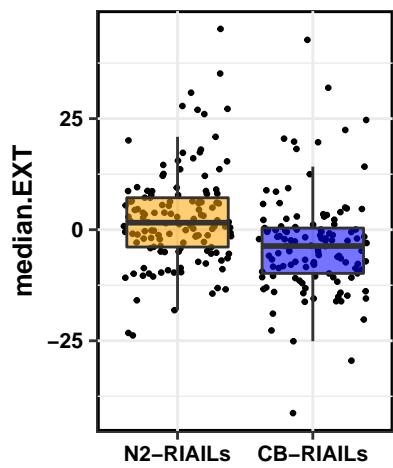


B

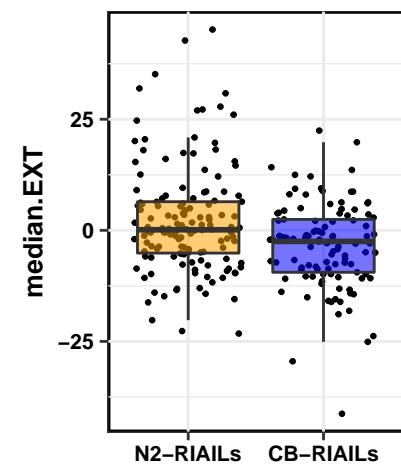


### C

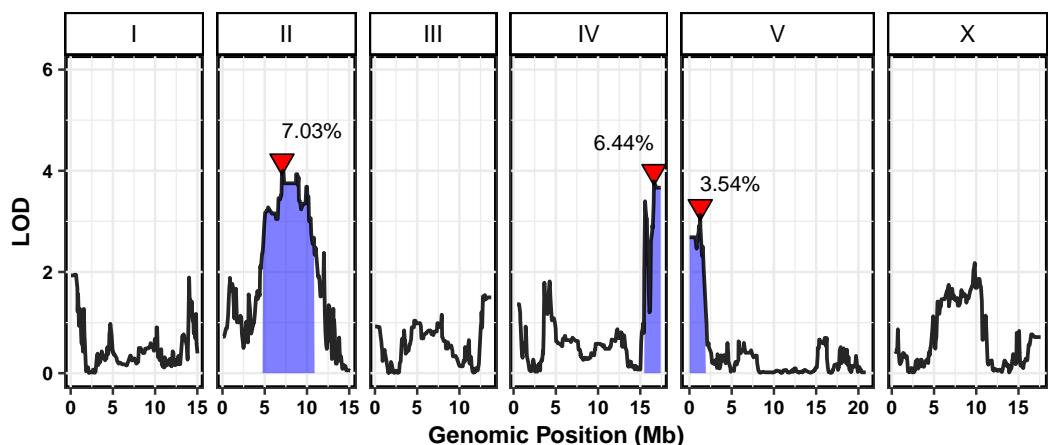
II:9008082



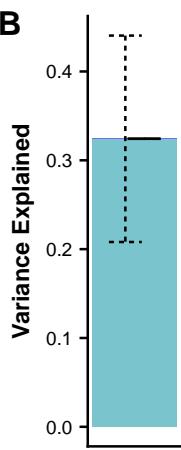
V:399751



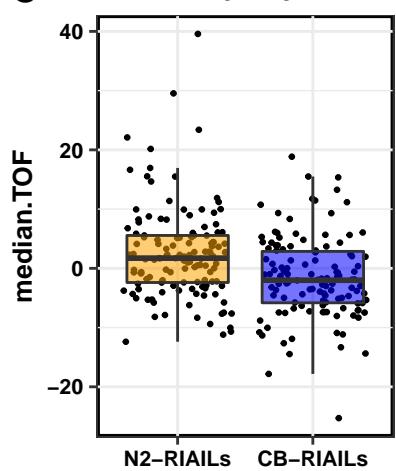
### A copper.median.TOF



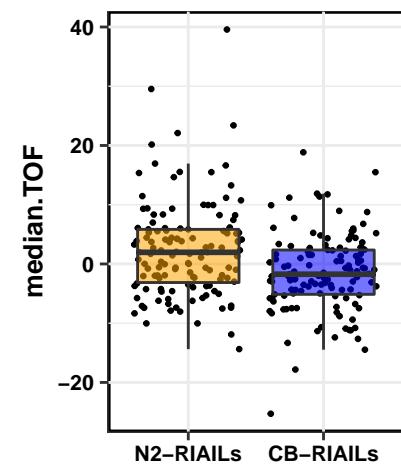
### B

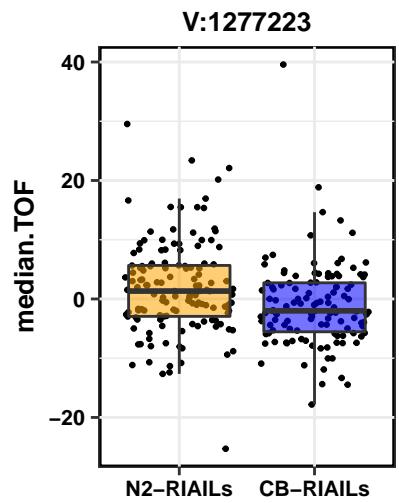


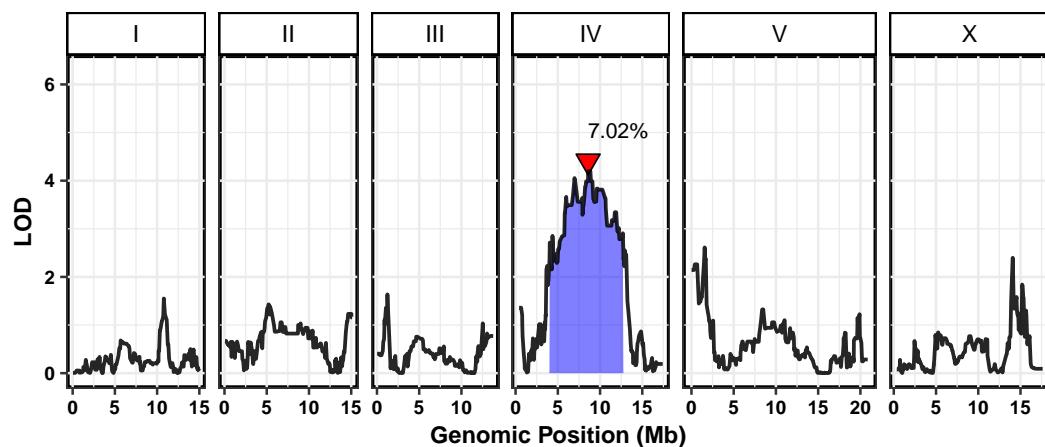
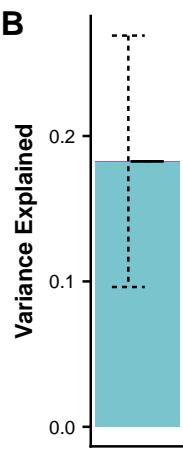
### C II:7041451



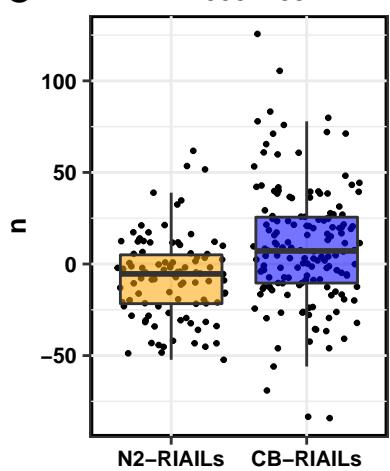
### IV:16624582

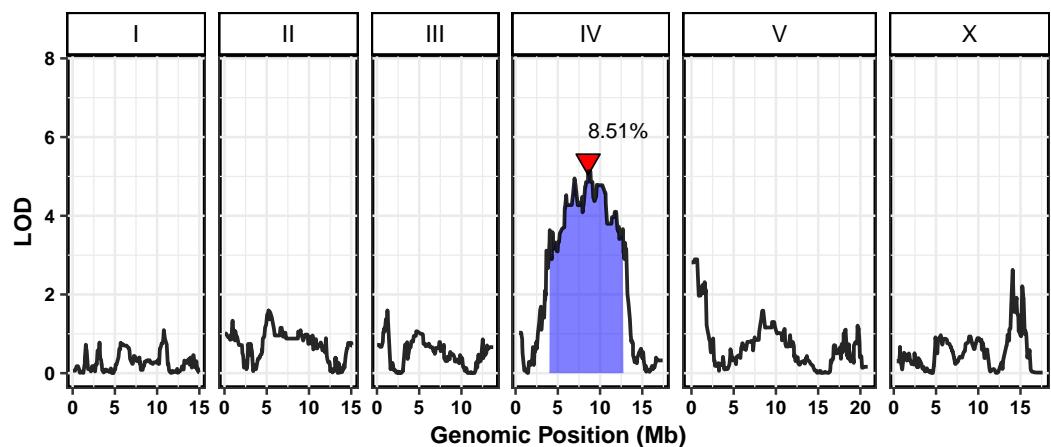
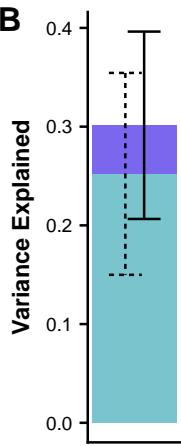




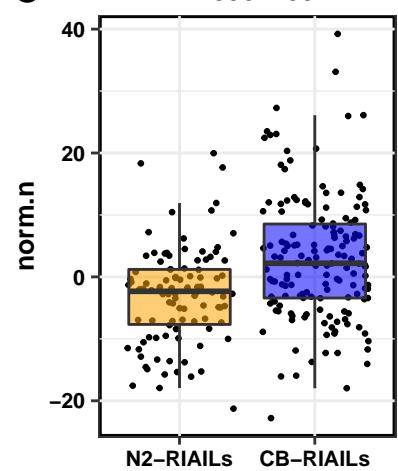
**A copper.n****B****C**

IV:8587439

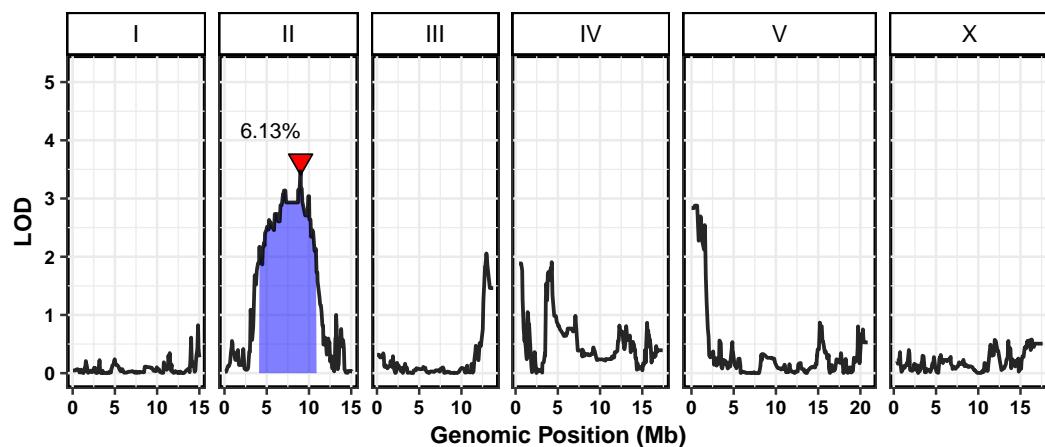


**A copper.norm.n****B****C**

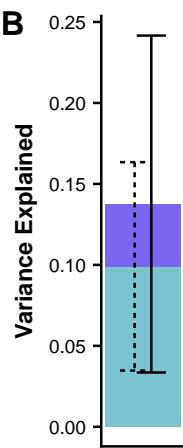
IV:8587439



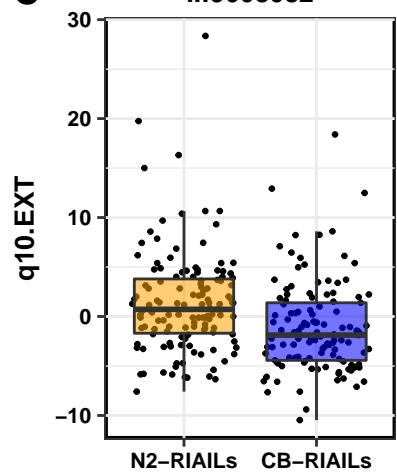
### A copper.q10.EXT

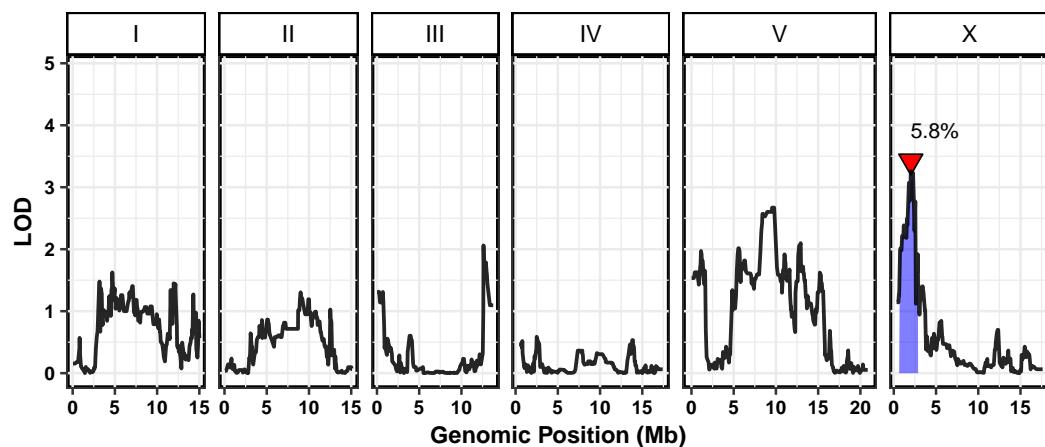
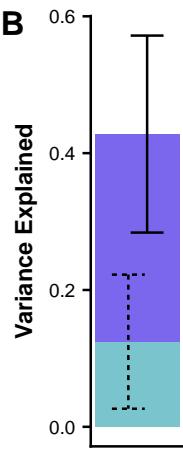
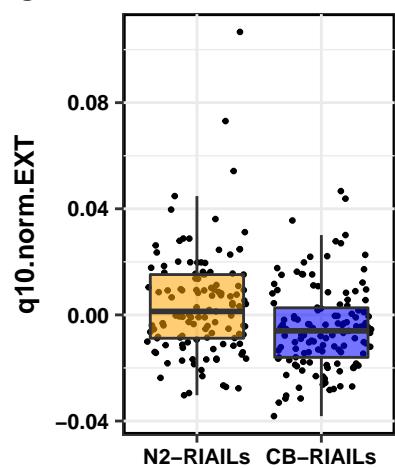


### B

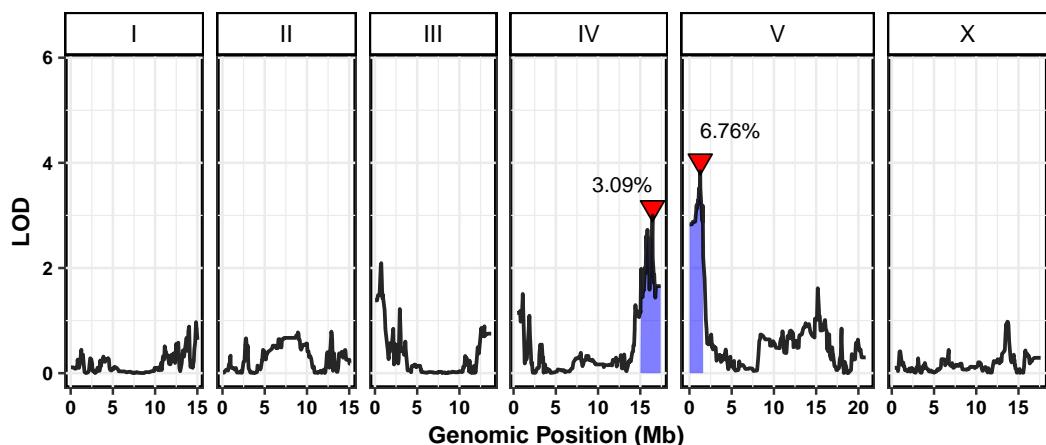


### C II:9008082

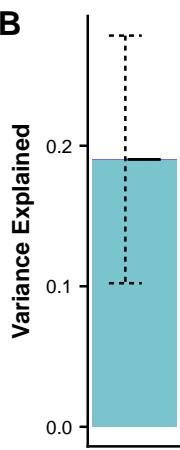


**A copper.q10.norm.EXT****B****C X:2013375**

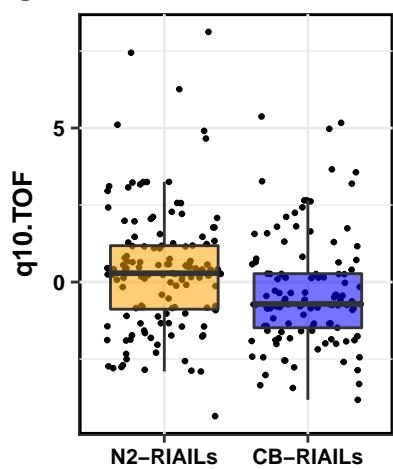
### A copper.q10.TOF



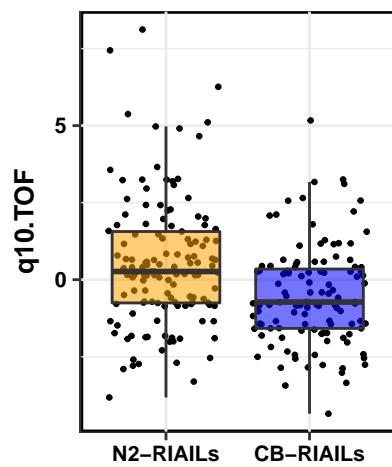
### B



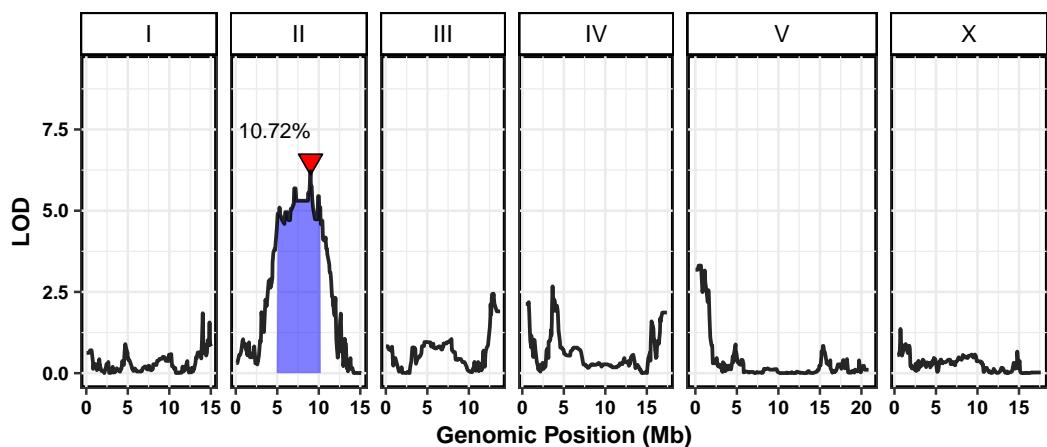
### C IV:16442619



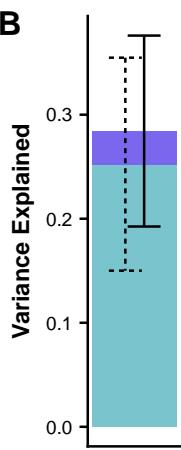
### V:1277223



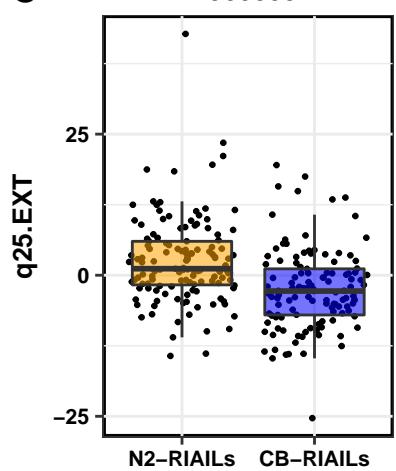
**A copper.q25.EXT**



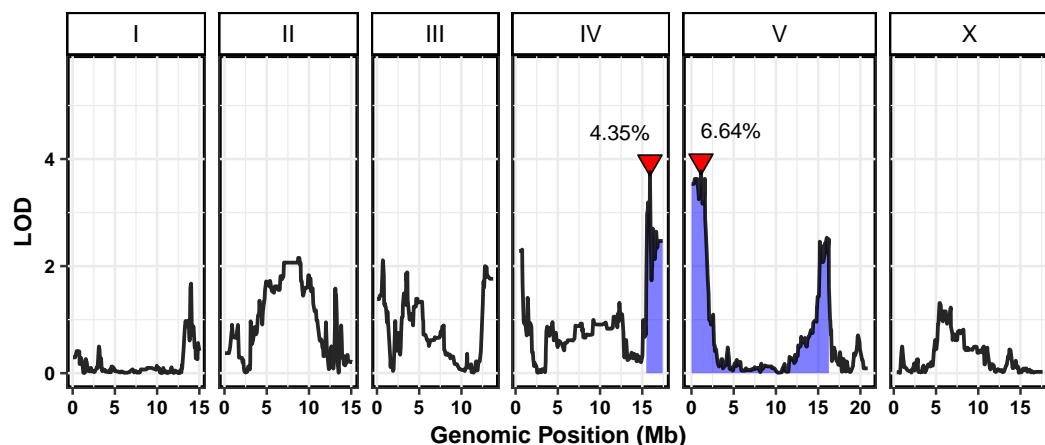
**B**



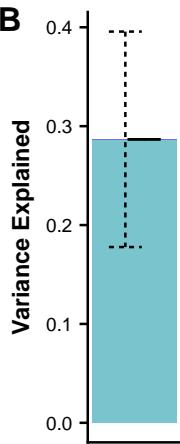
**C II:9008082**



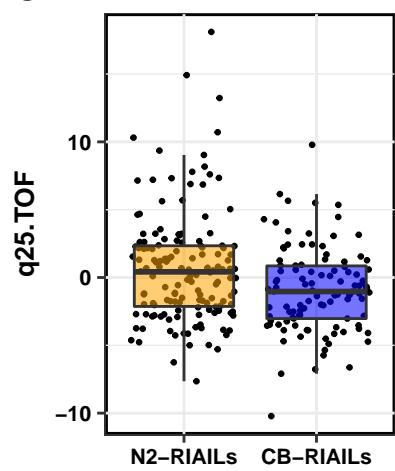
### A copper.q25.TOF



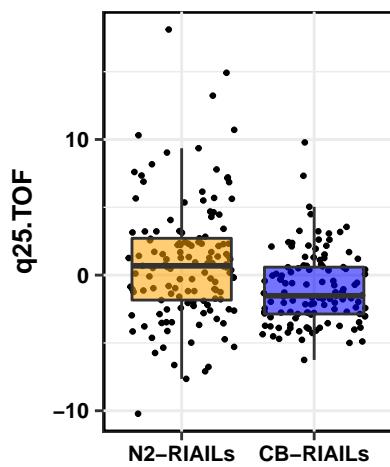
### B



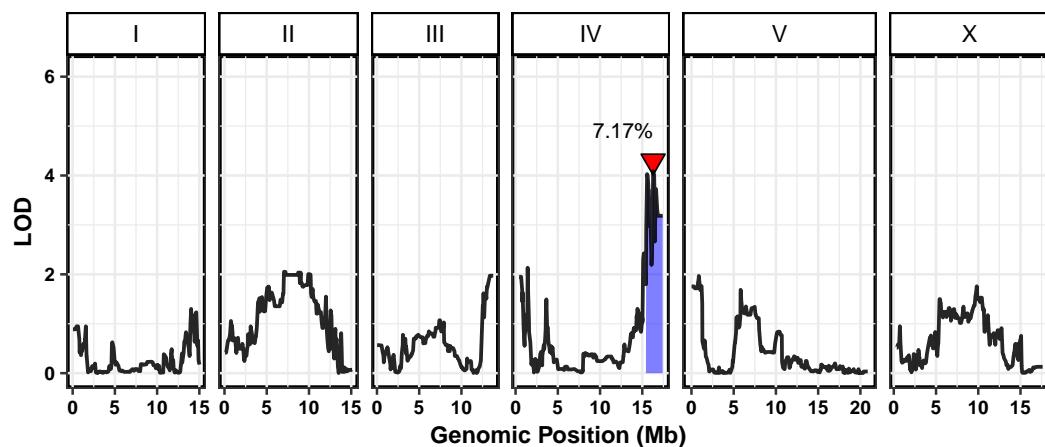
### C IV:15907521



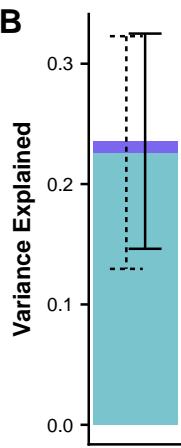
### V:1129299



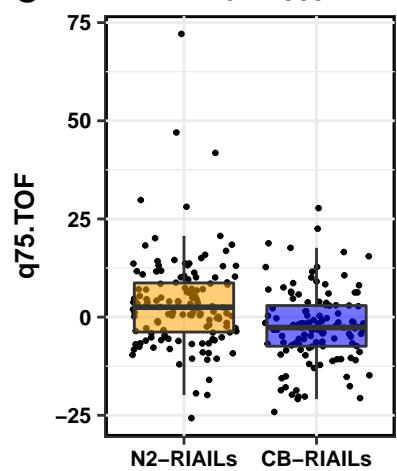
### A copper.q75.TOF

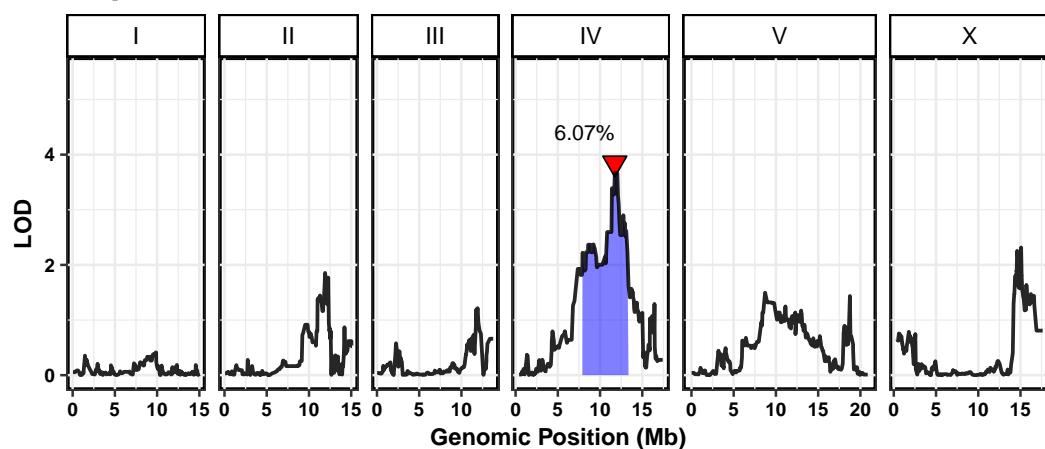
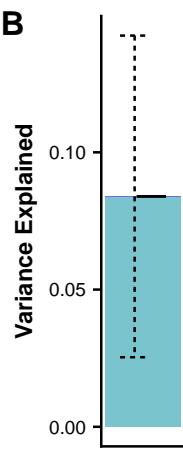
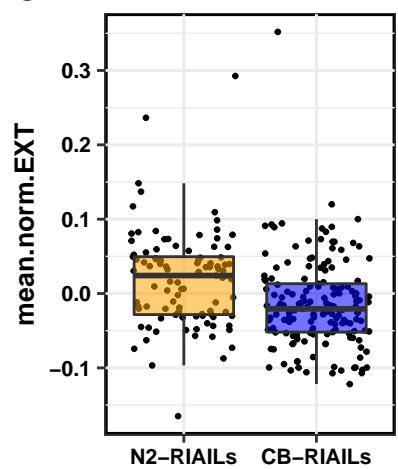


### B

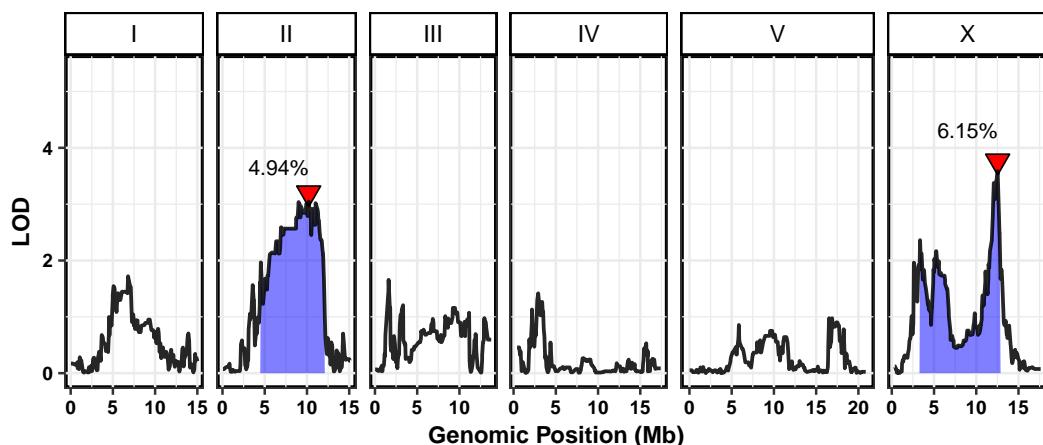


### C IV:16277985

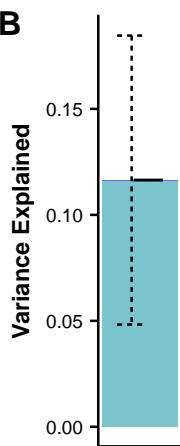


**A diquat.mean.norm.EXT****B****C IV:11747270**

### A diquat.mean.TOF

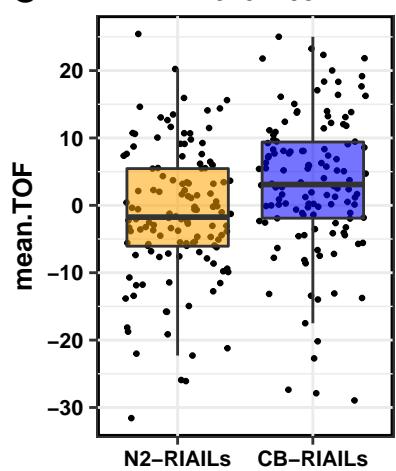


### B

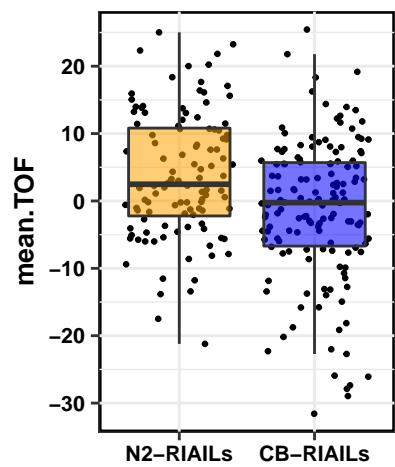


### C

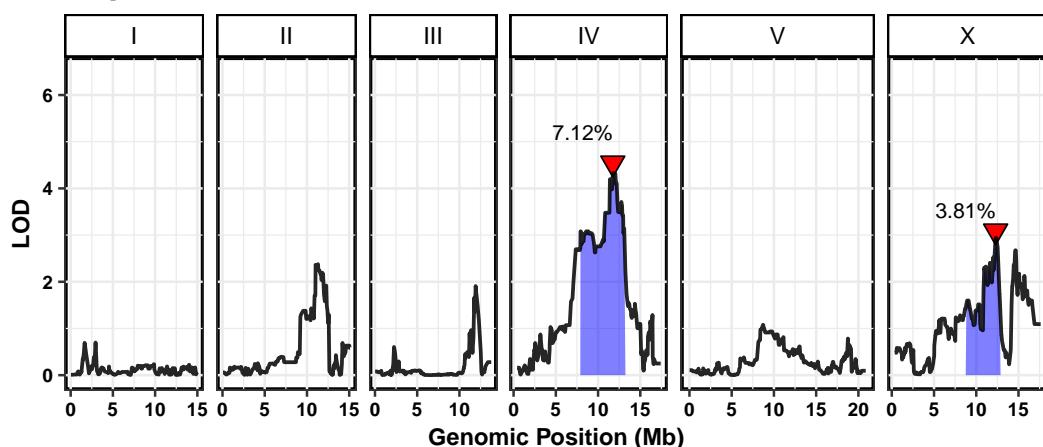
II:10201103



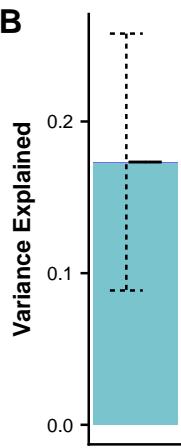
X:12533105



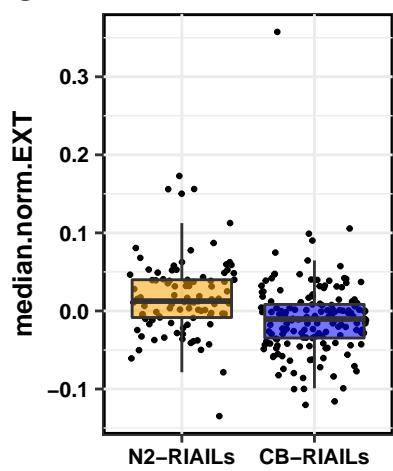
### A diquat.median.norm.EXT



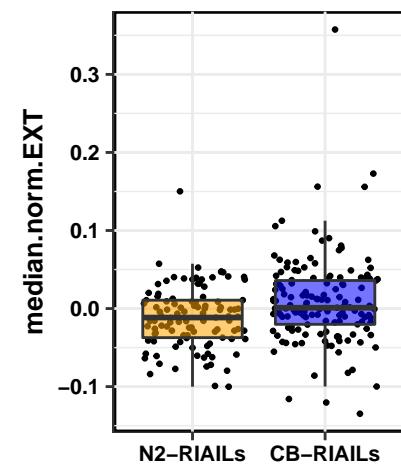
### B



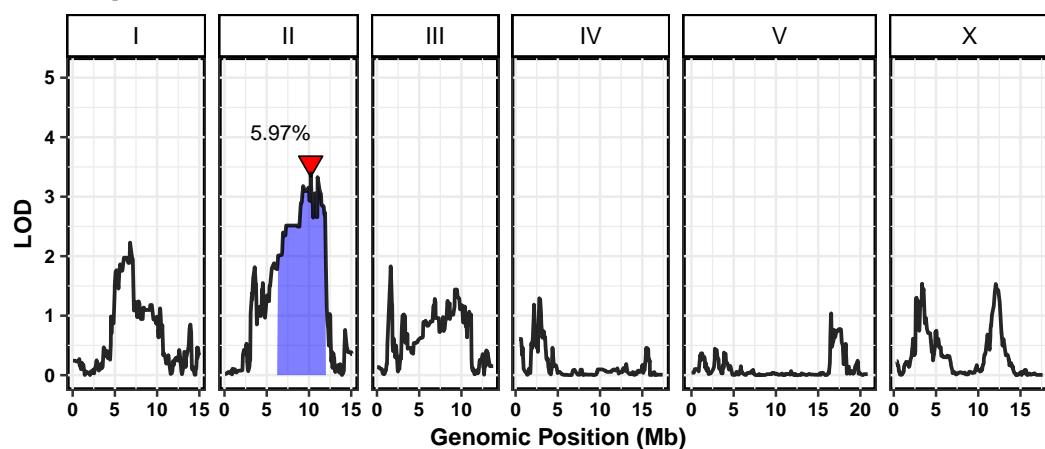
### C IV:11747270



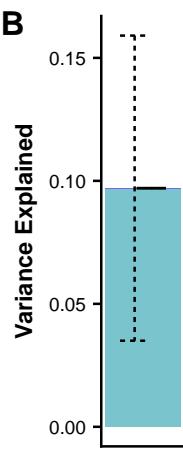
X:12293183



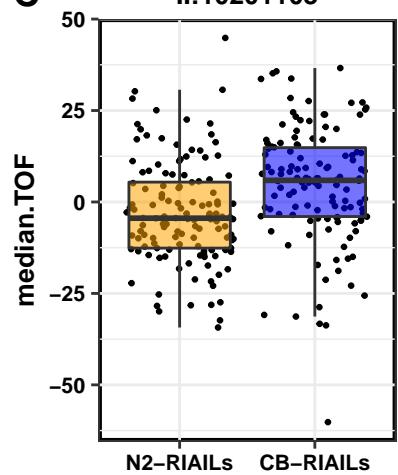
### A diquat.median.TOF

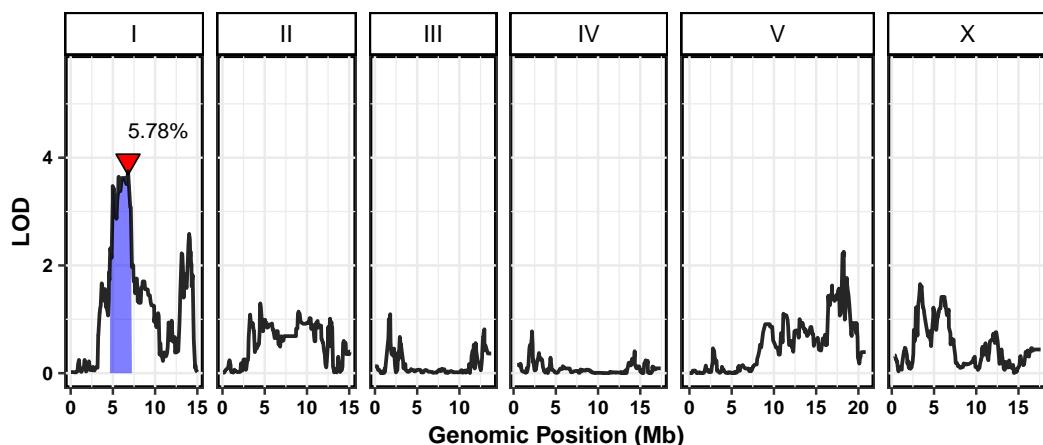
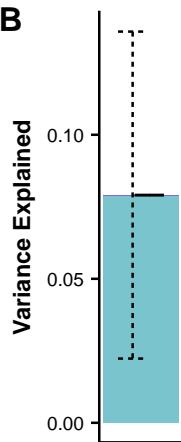
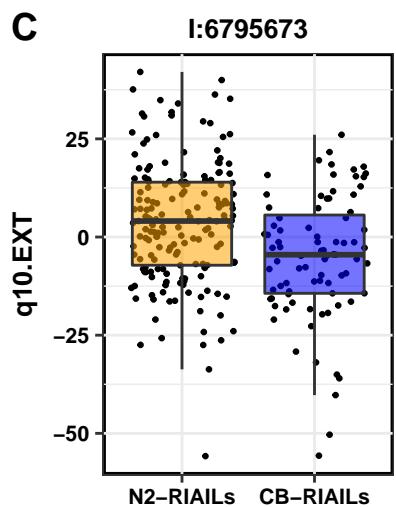


### B

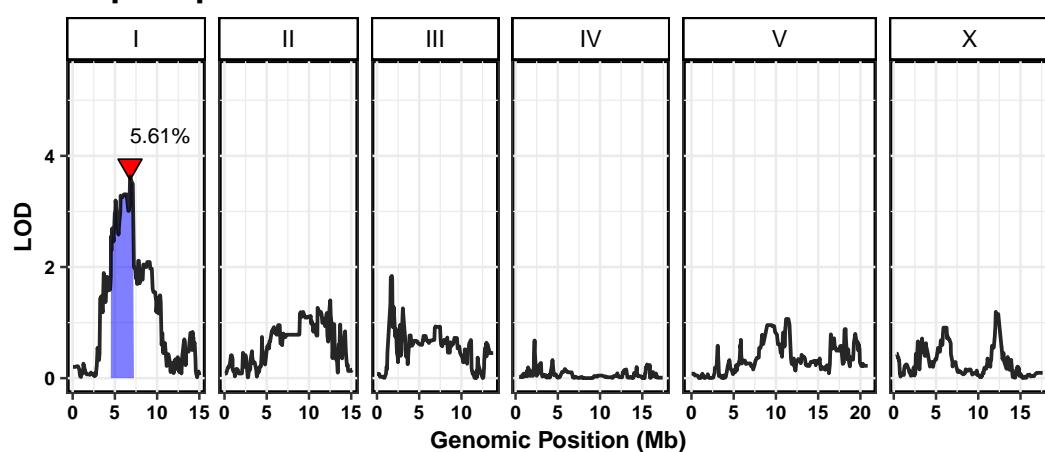


### C II:10201103

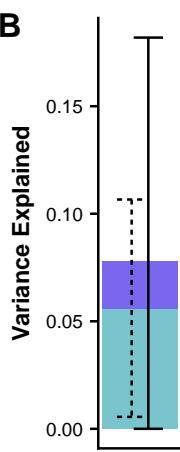


**A diquat.q10.EXT****B****C**

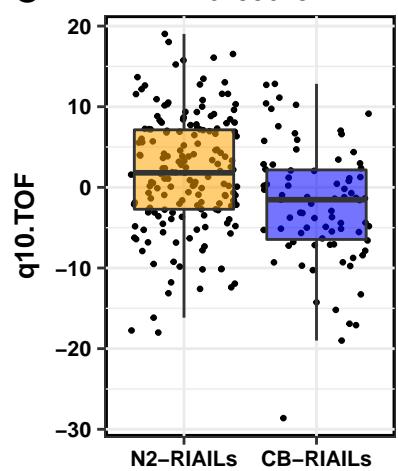
### A diquat.q10.TOF

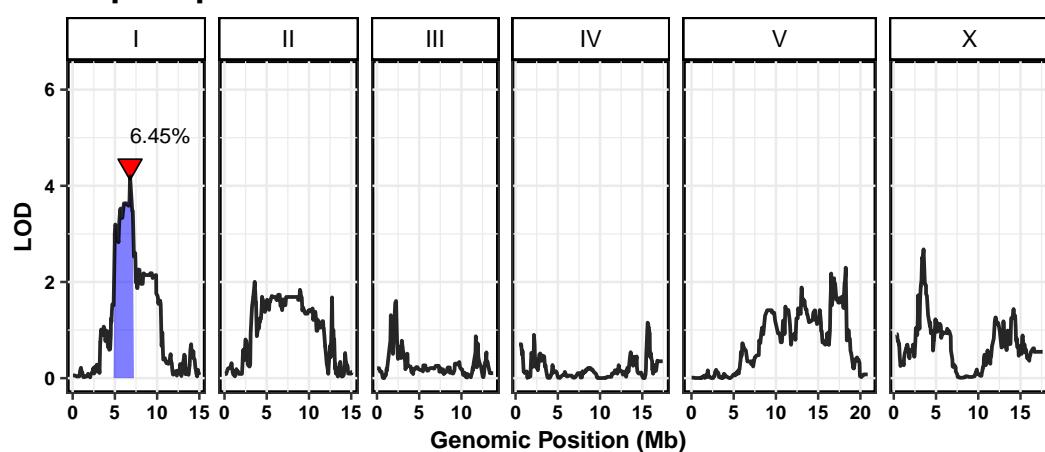
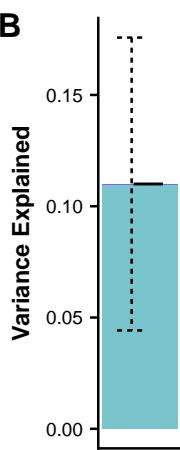
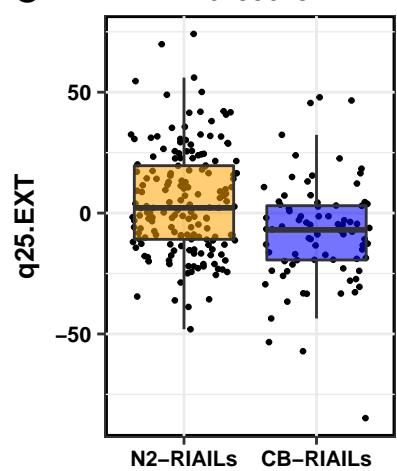


### B

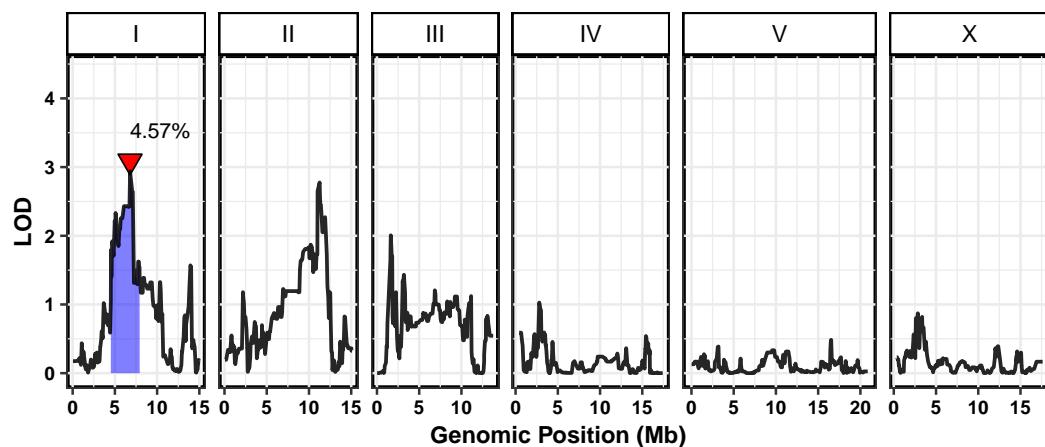


### C I:6795673

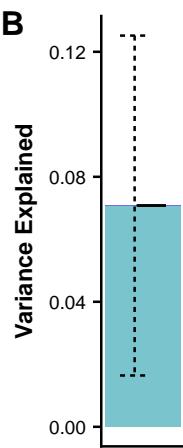


**A diquat.q25.EXT****B****C I:6795673**

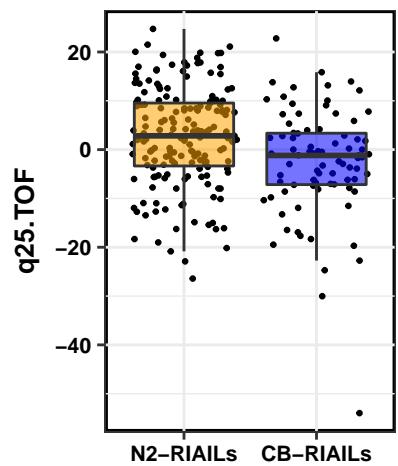
### A diquat.q25.TOF



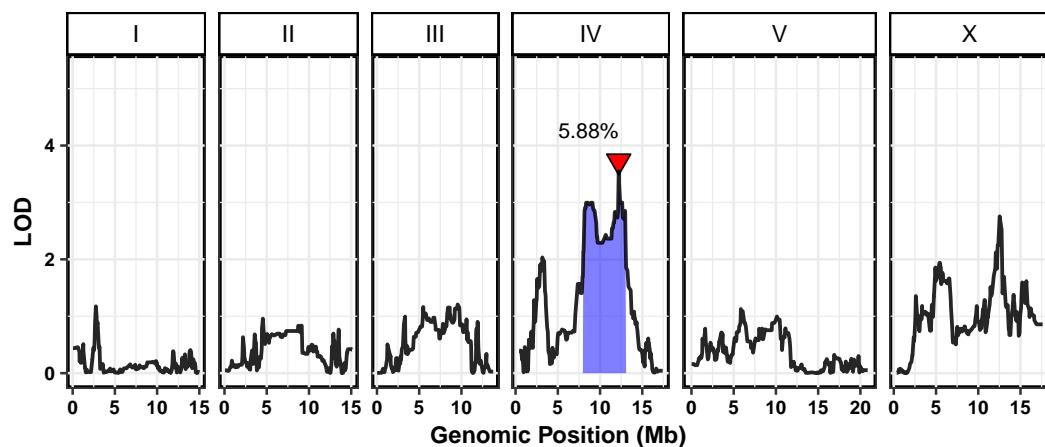
### B



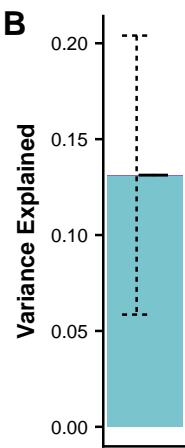
### C I:6795673



### A diquat.q75.EXT

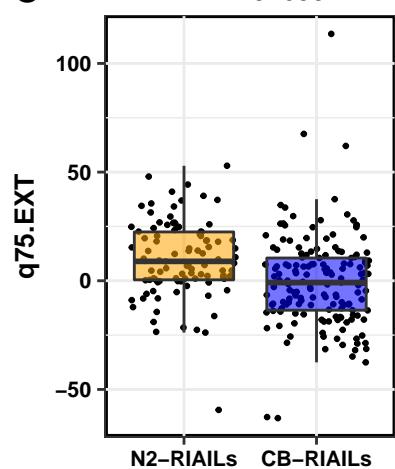


### B

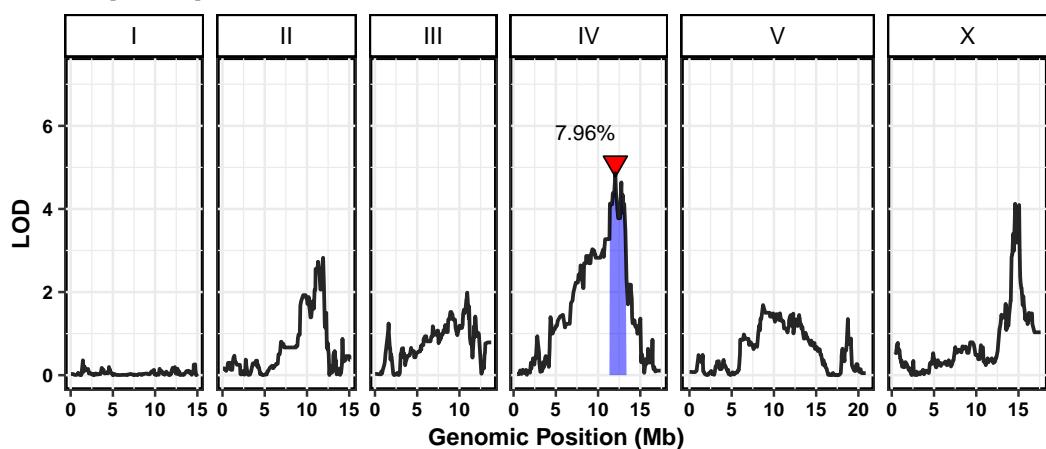


### C

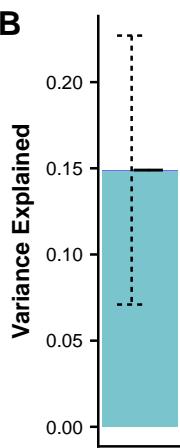
IV:12207650



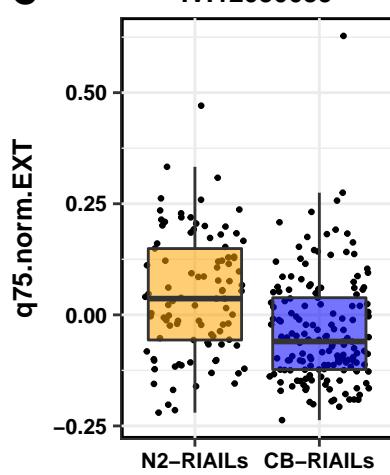
### A diquat.q75.norm.EXT



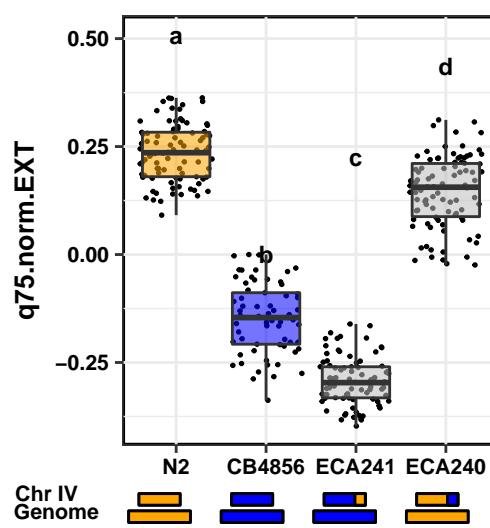
### B



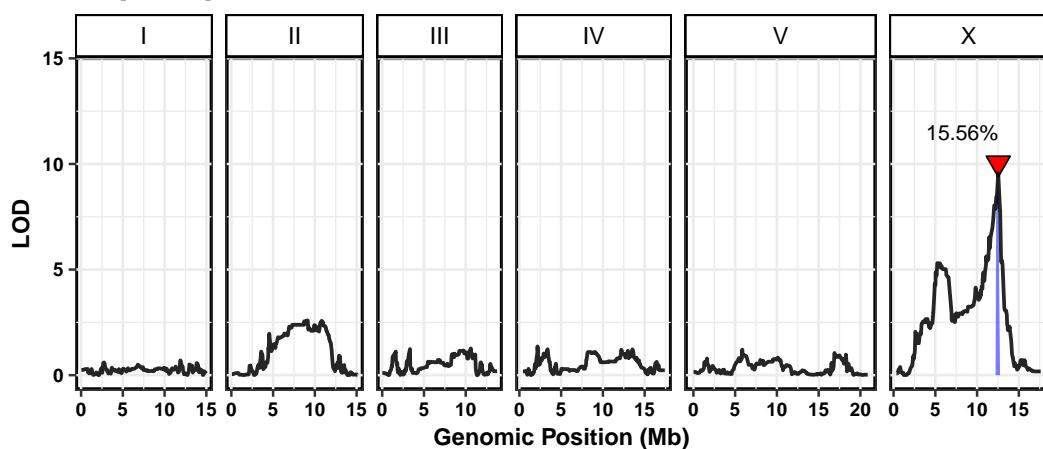
### C IV:12050039



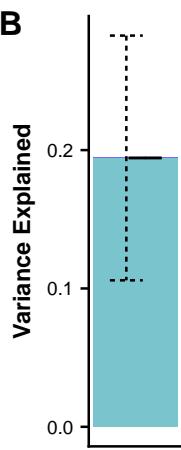
### NIL – Unidirectional



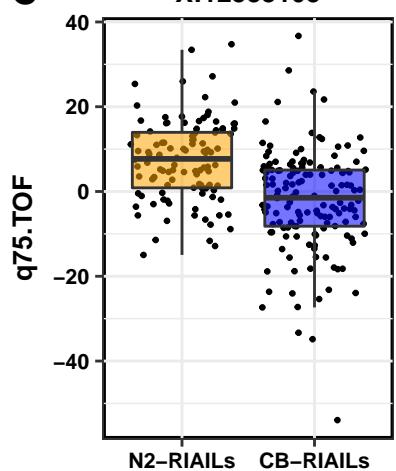
### A diquat.q75.TOF



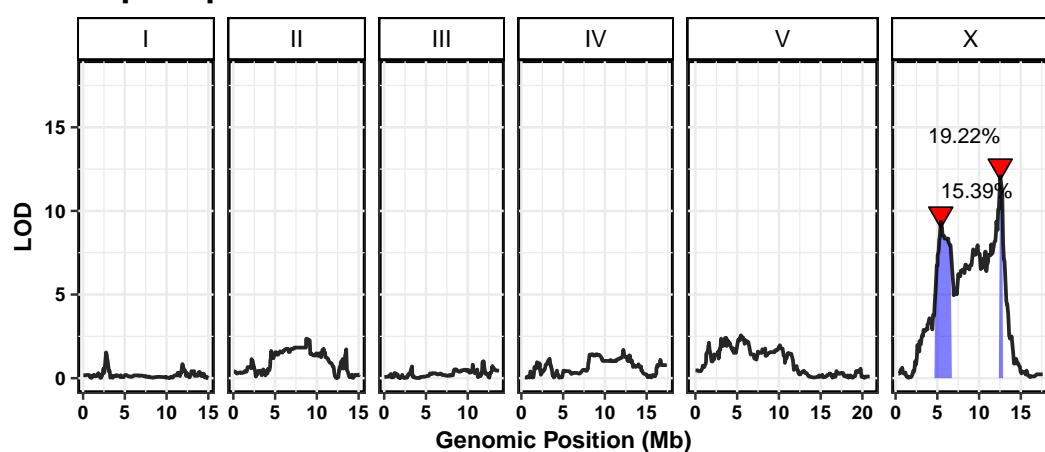
### B



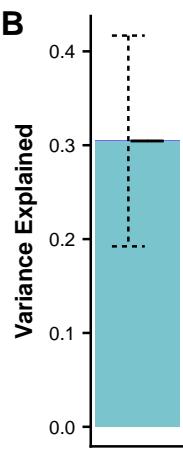
### C X:12533105



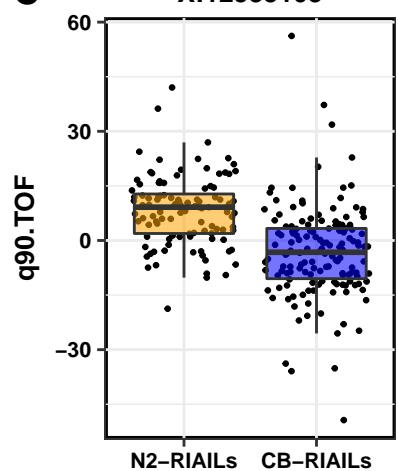
### A diquat.q90.TOF

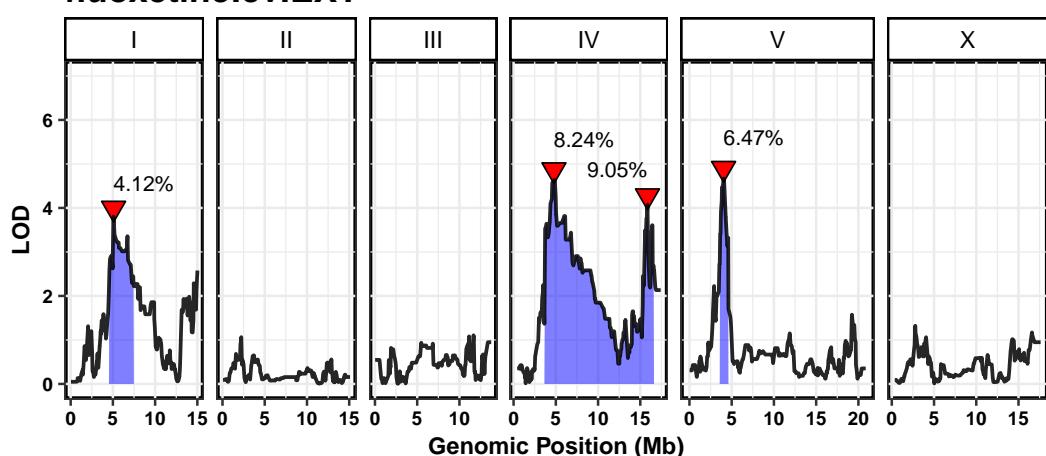
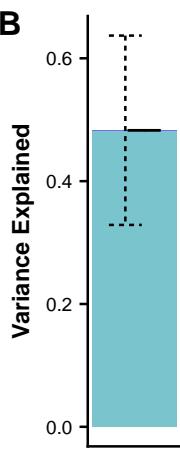
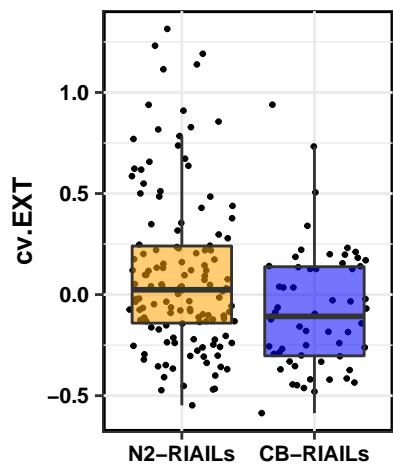
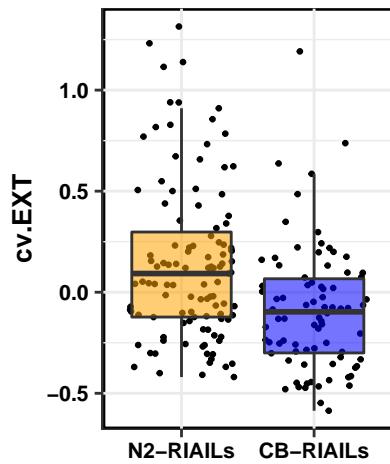


### B

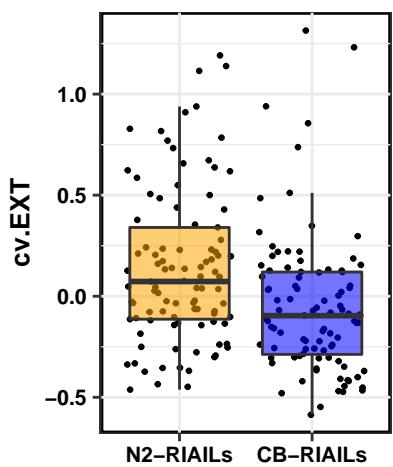


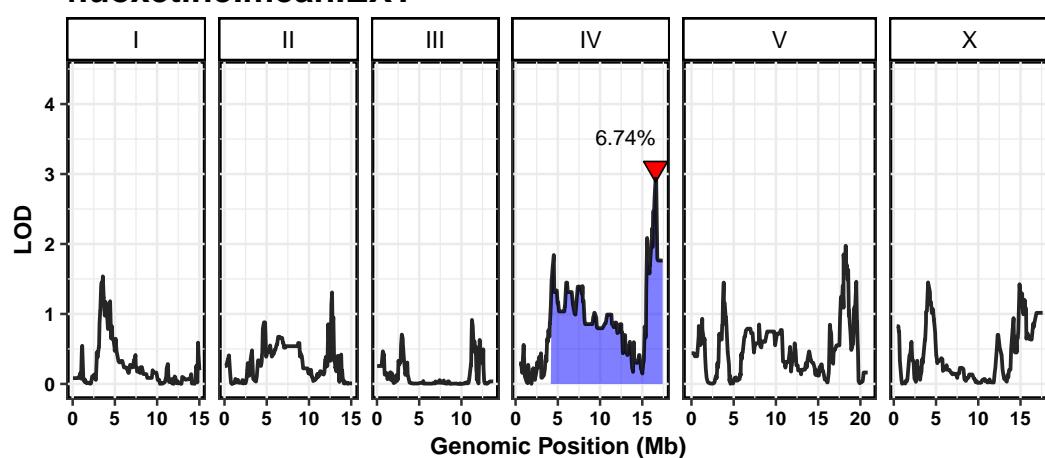
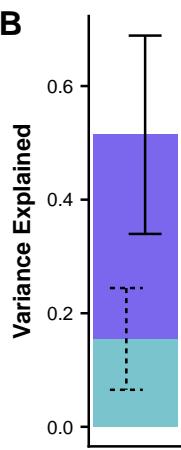
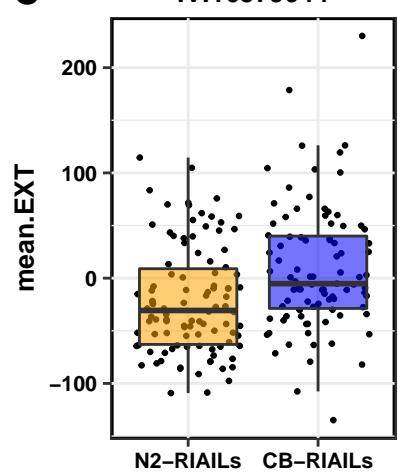
### C X:12533105

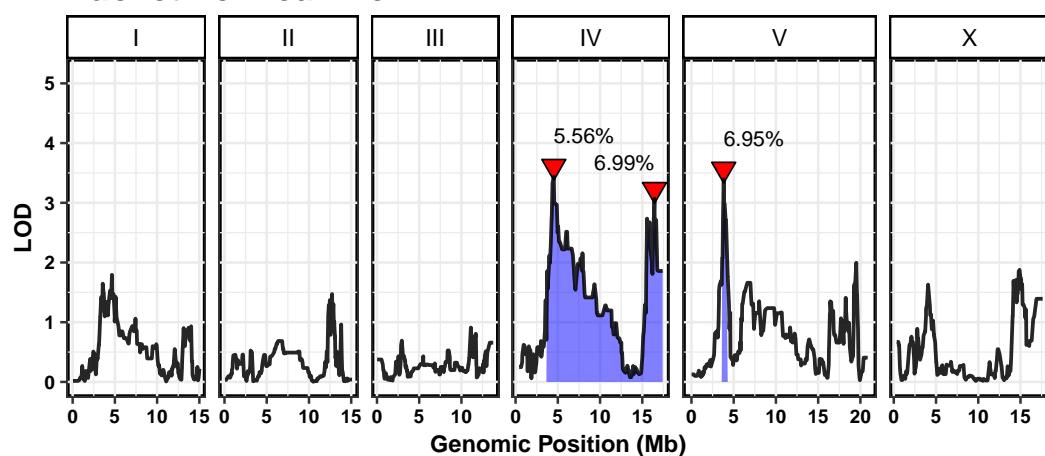
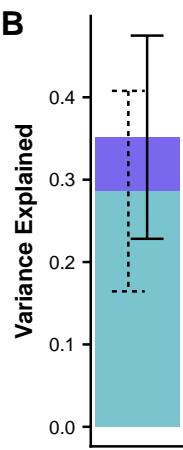


**A fluoxetine.cv.EXT****B****C I:5083458****IV:15849940**

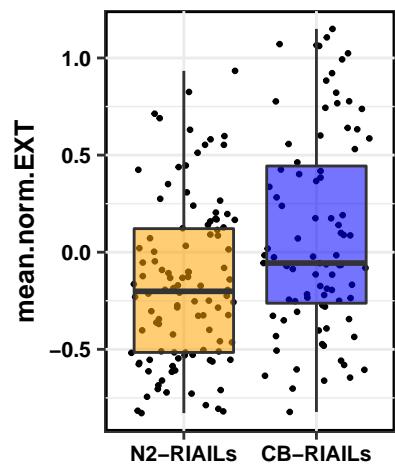
V:4043502



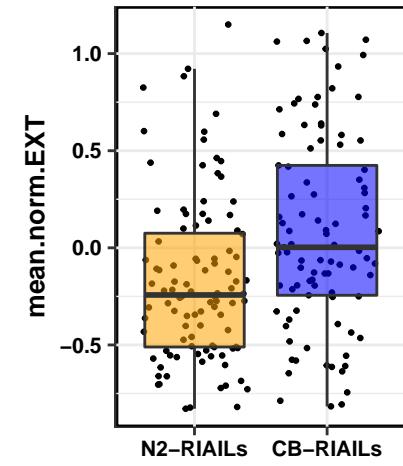
**A fluoxetine.mean.EXT****B****C IV:16579044**

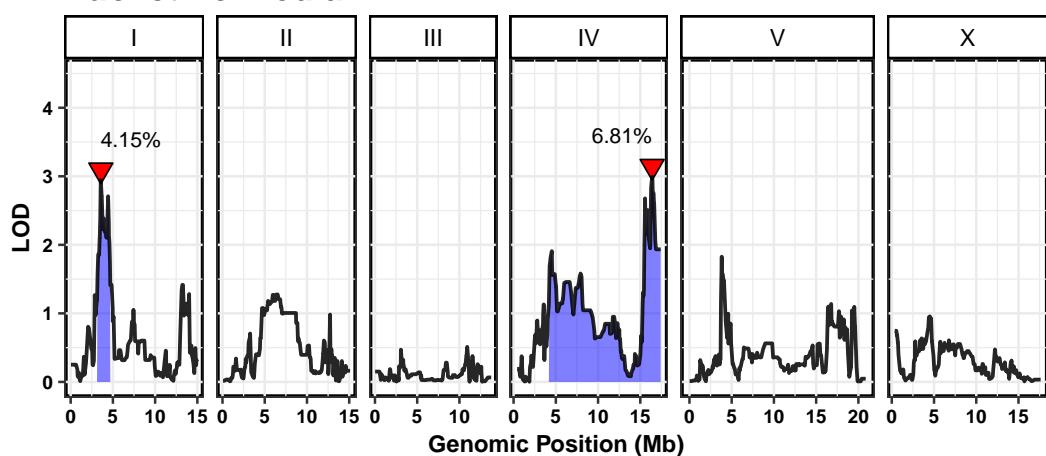
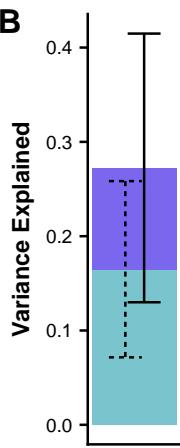
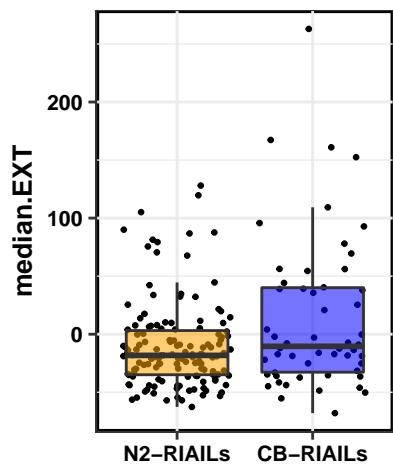
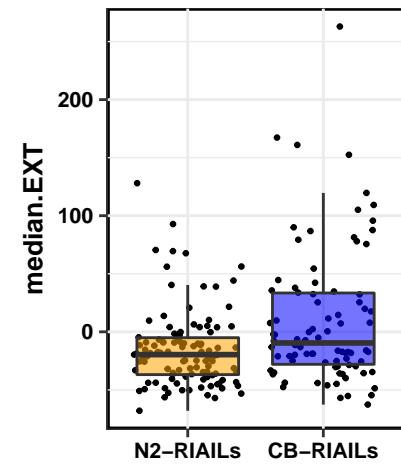
**A fluoxetine.mean.norm.EXT****B****C**

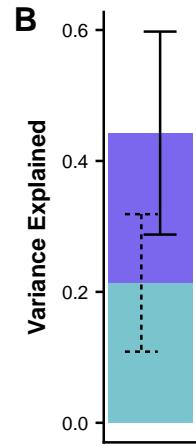
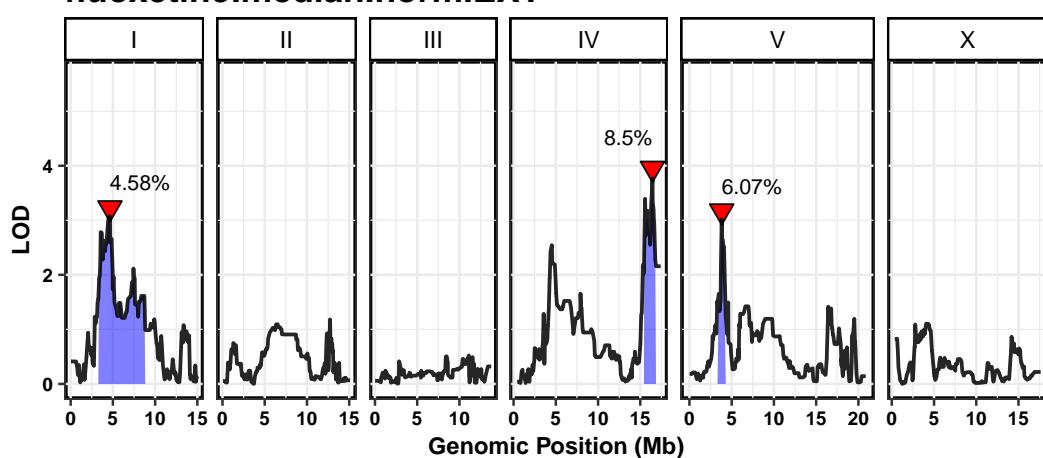
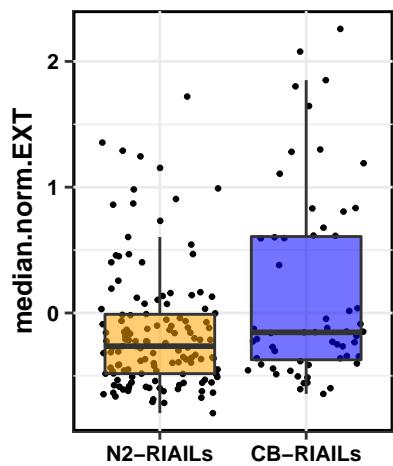
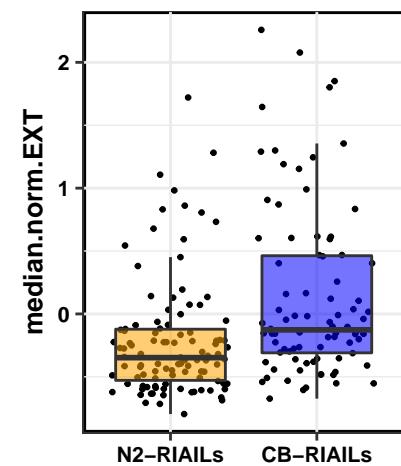
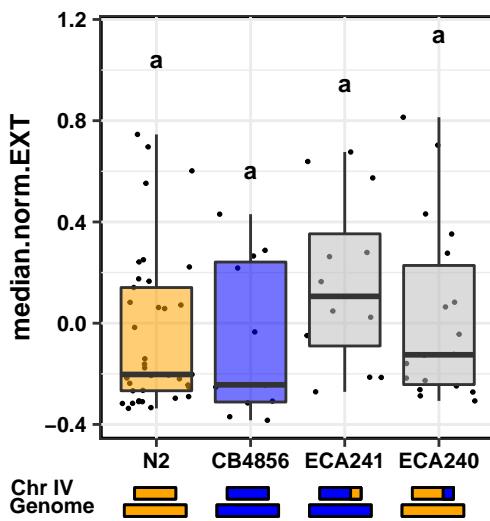
IV:16442619



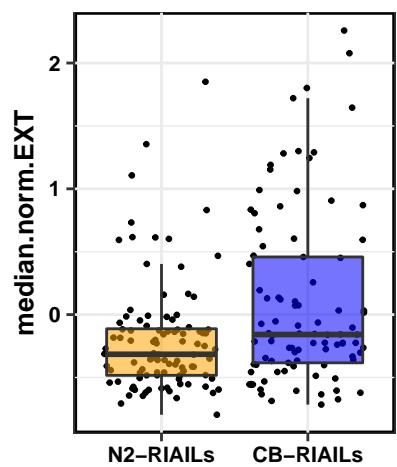
V:3819945

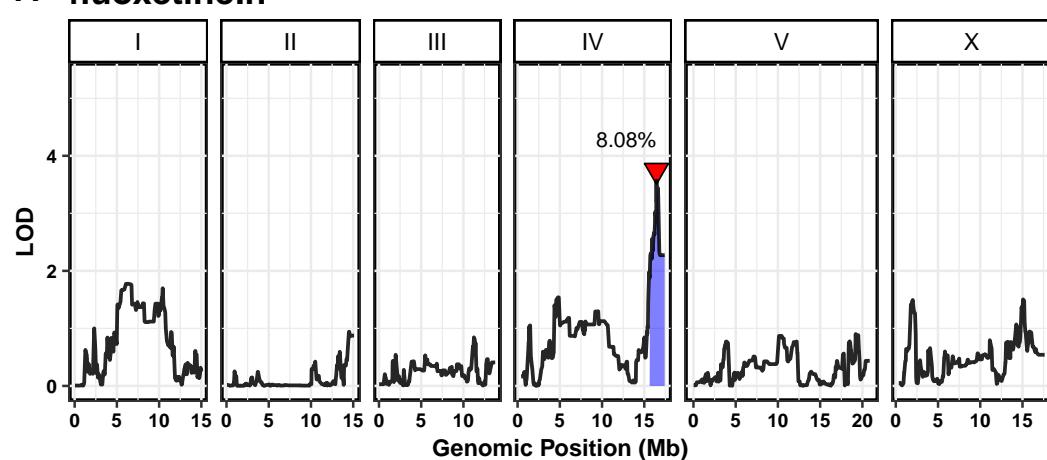
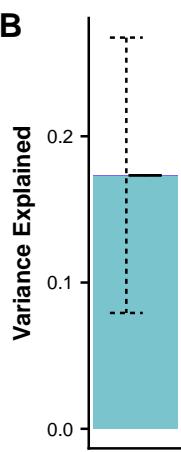


**A fluoxetine.median.EXT****B****C I:3573191****IV:16403255**

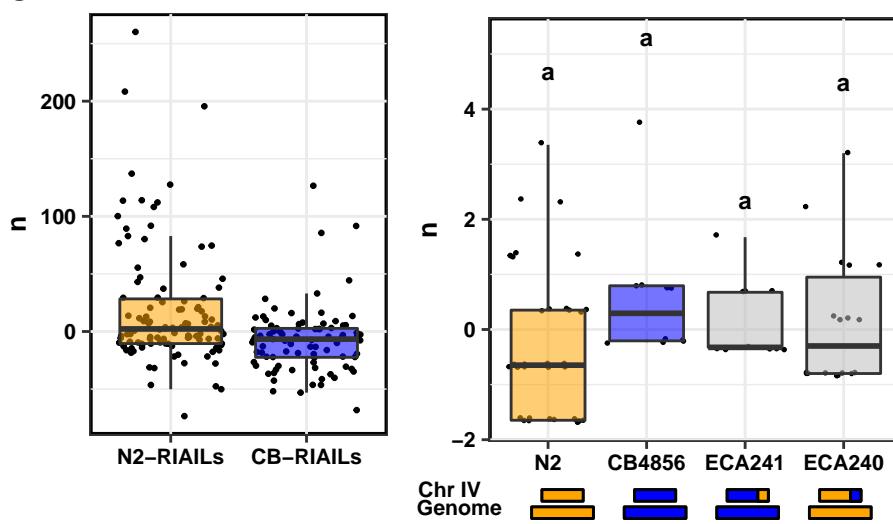
**A fluoxetine.median.norm.EXT****C I:4651938****IV:16442619****NIL – No parental diff.**

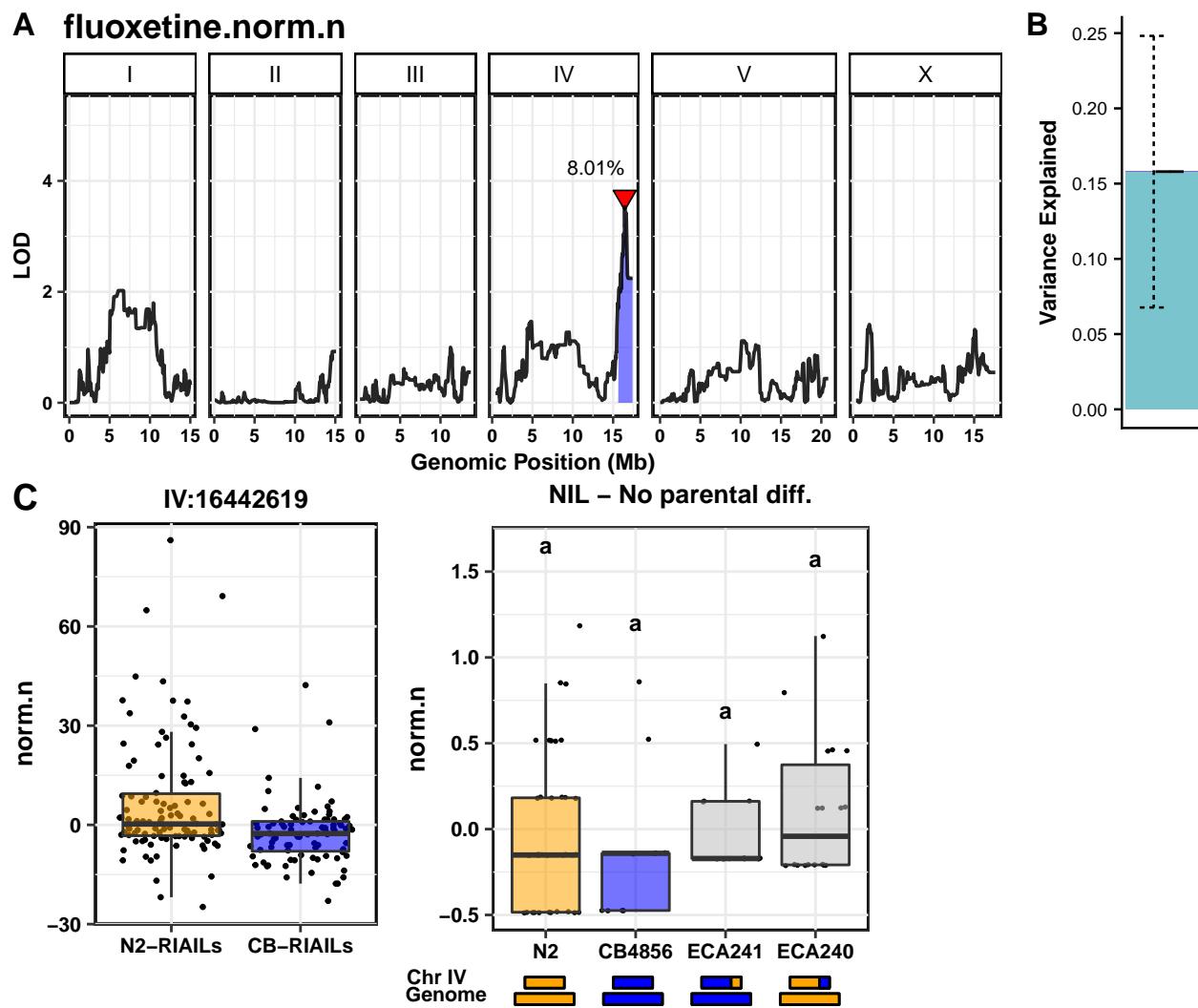
V:3819945



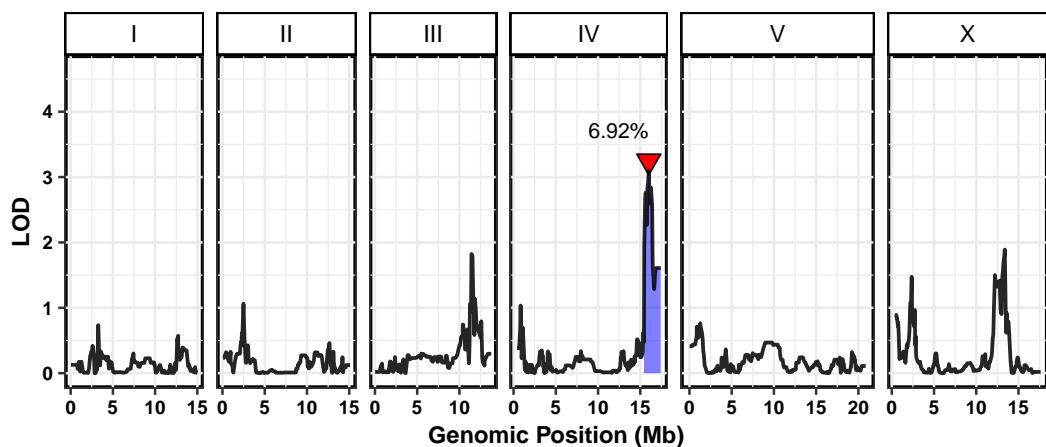
**A fluoxetine.n****B****C IV:16442619**

NIL – No parental diff.

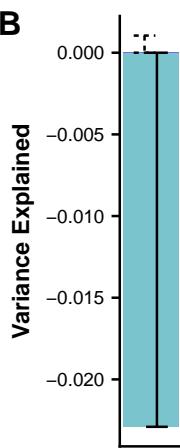




### A fluoxetine.q10.EXT

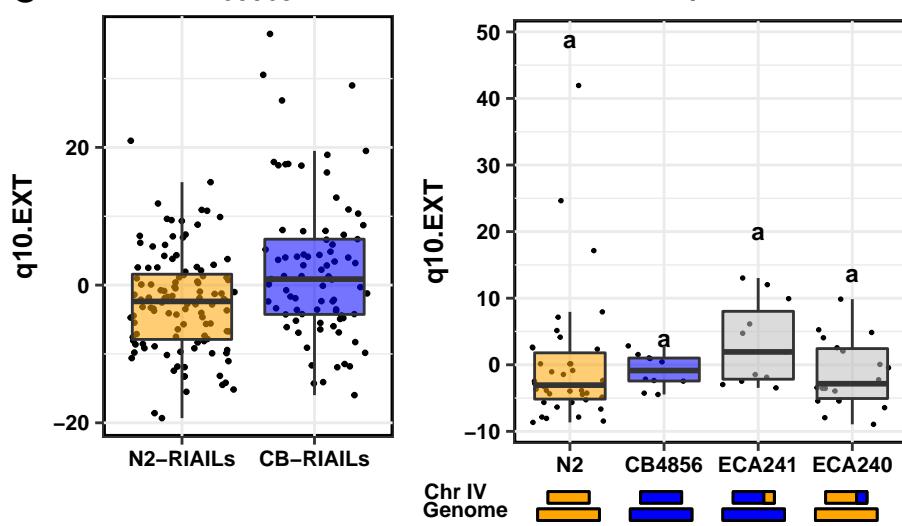


### B

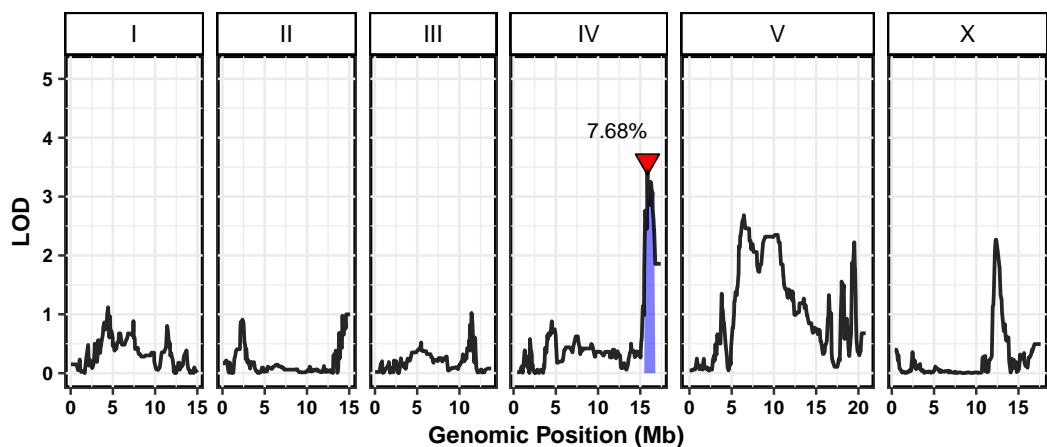


### C IV:16006324

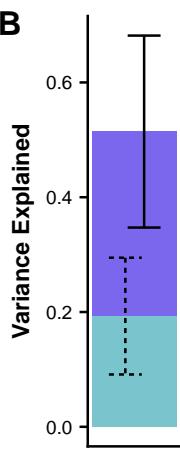
NIL – No parental diff.



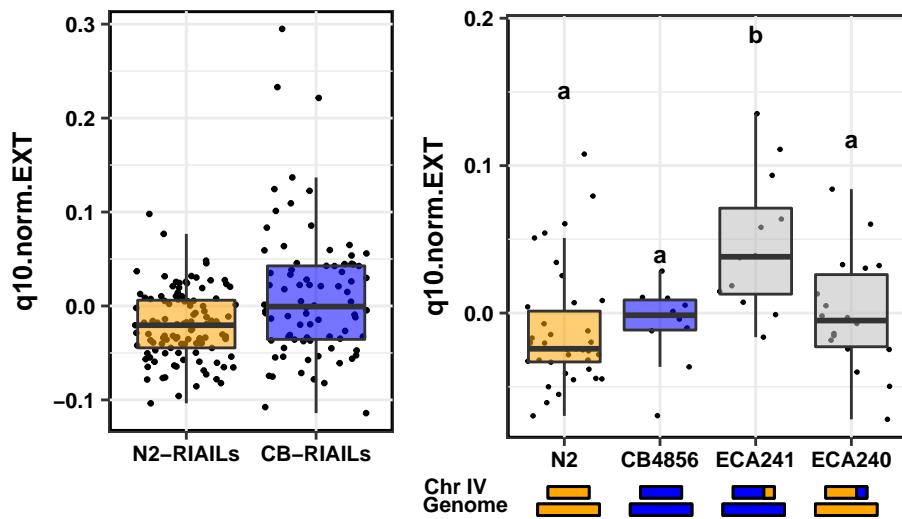
### A fluoxetine.q10.norm.EXT



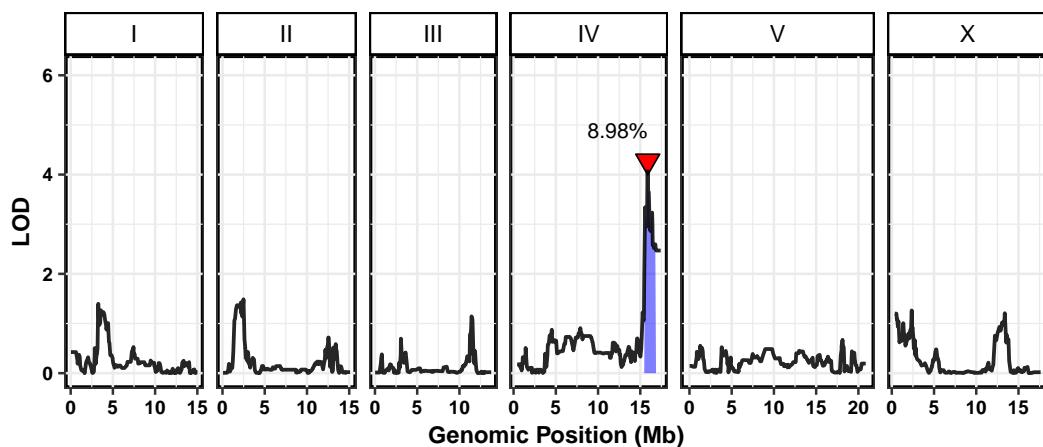
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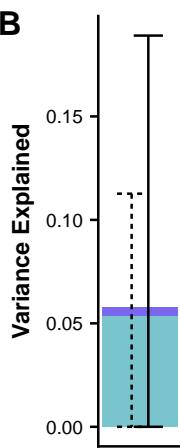
### C IV:15849940



### A fluoxetine.q25.EXT

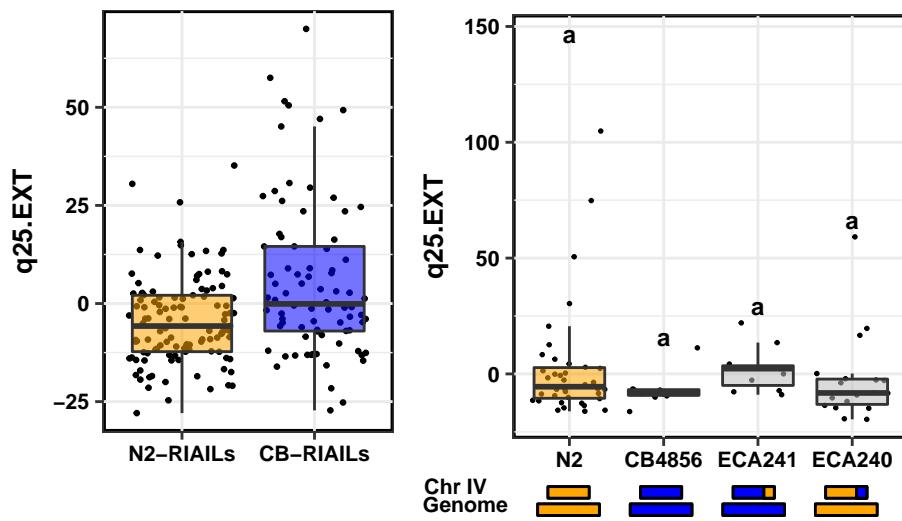


### B

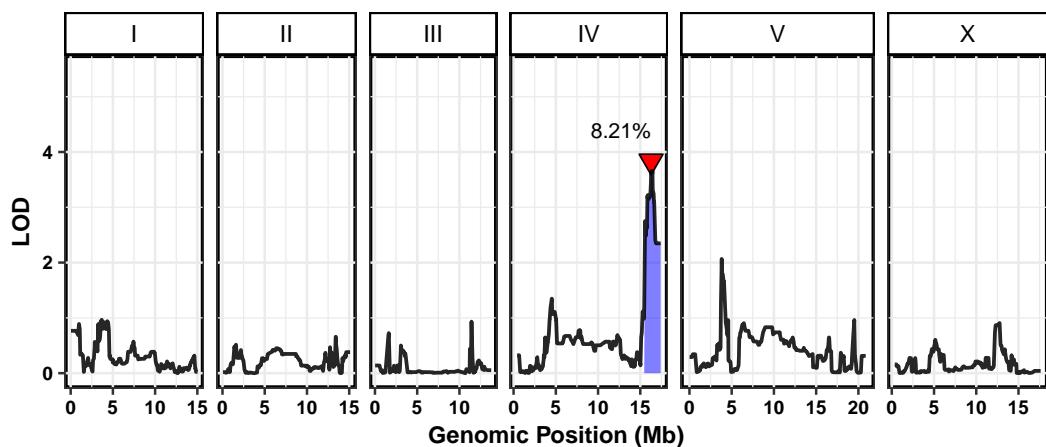


### C IV:15879951

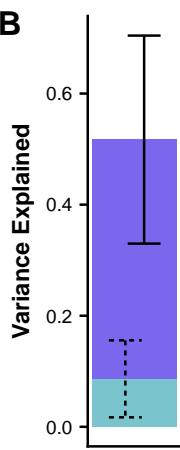
NIL – No parental diff.



### A fluoxetine.q25.norm.EXT

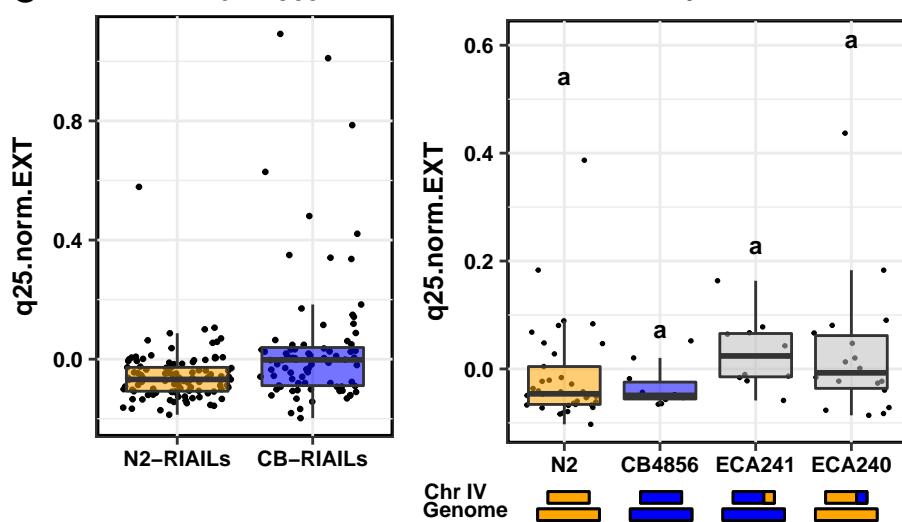


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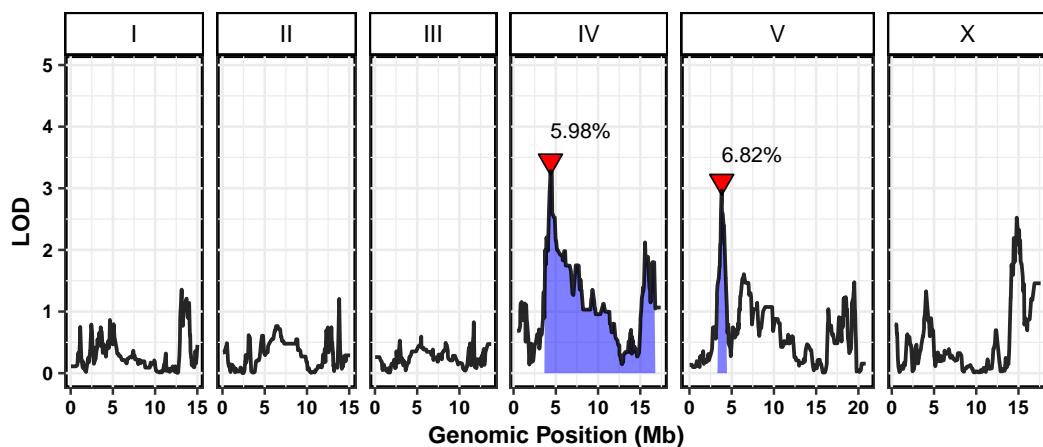


### C IV:16277985

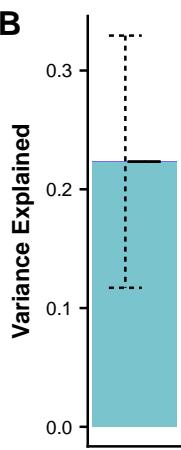
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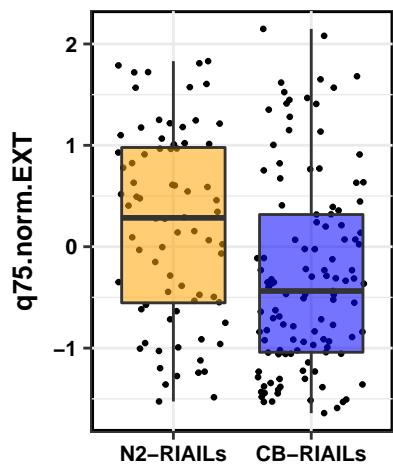
### A fluoxetine.q75.norm.EXT



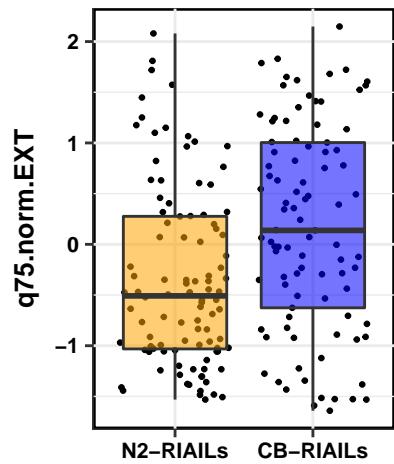
### B

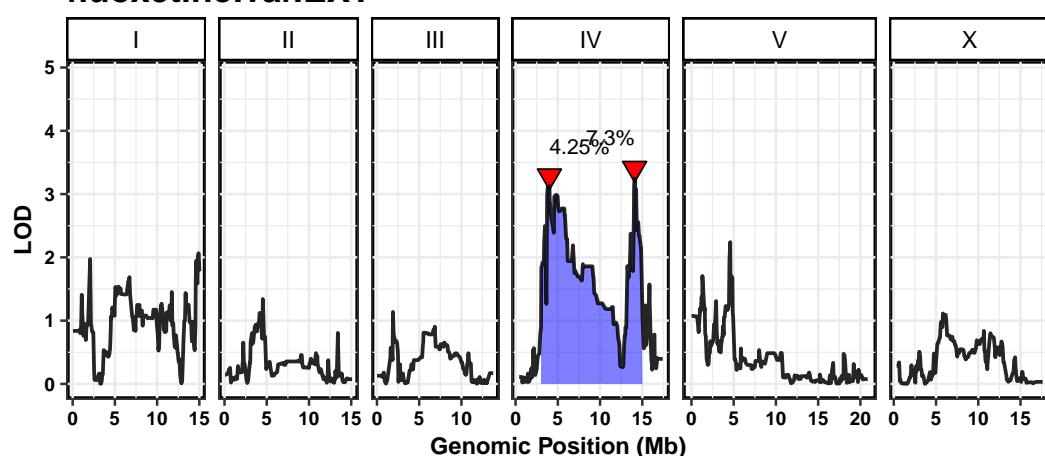
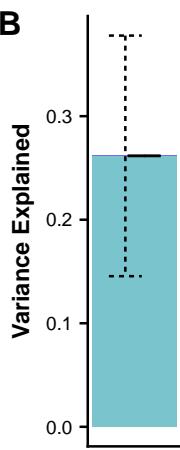
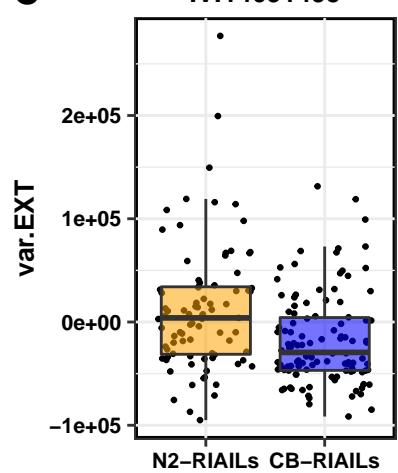


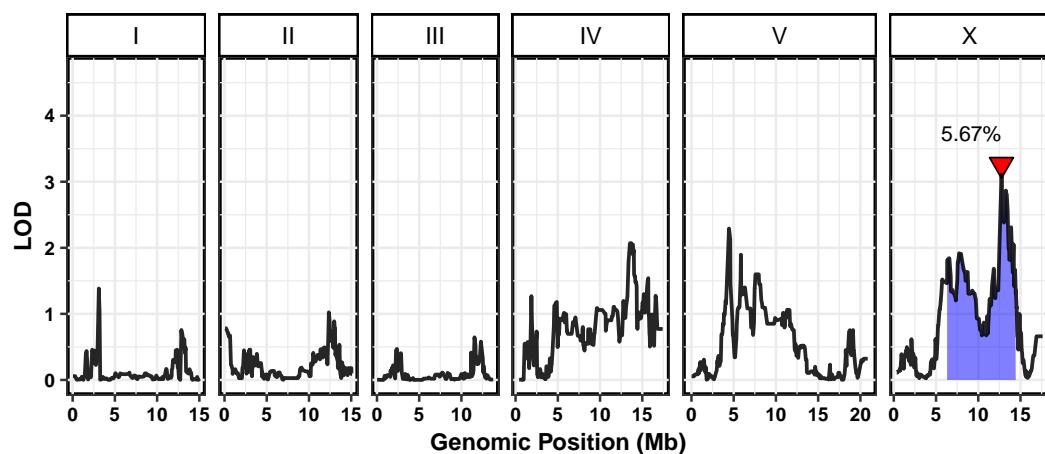
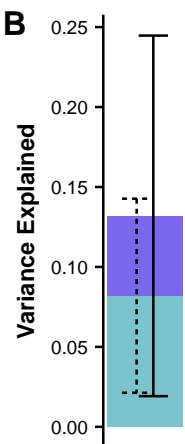
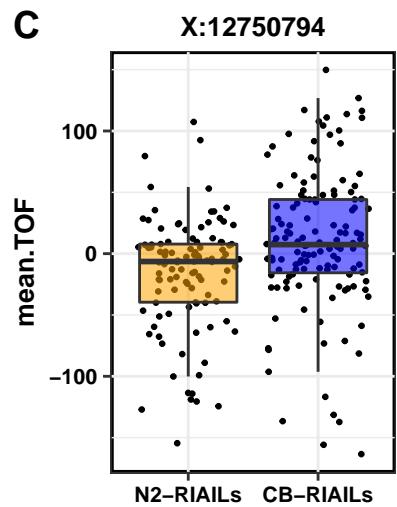
### C IV:4369098

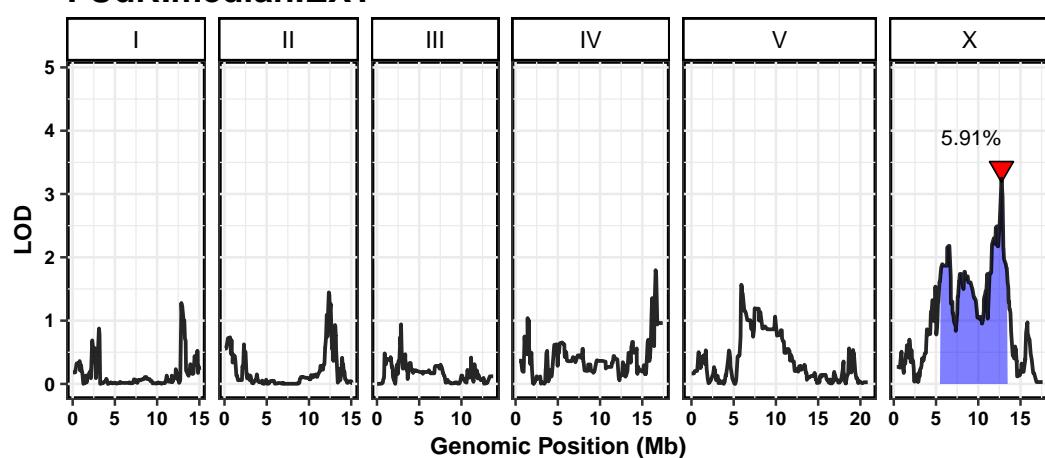
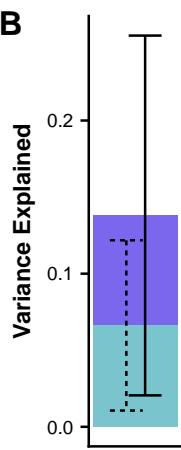
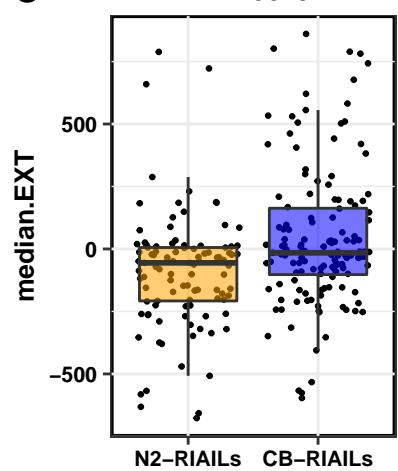


### V:3819945

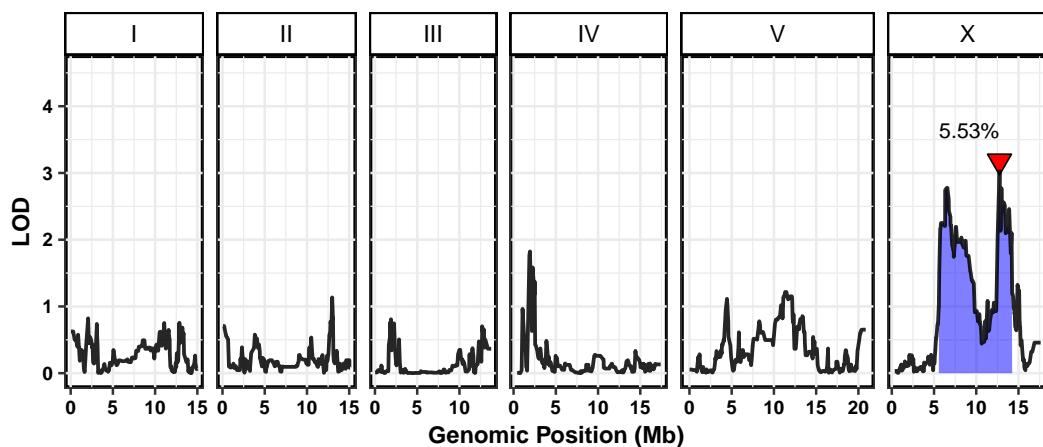


**A fluoxetine.var.EXT****B****C IV:14091495**

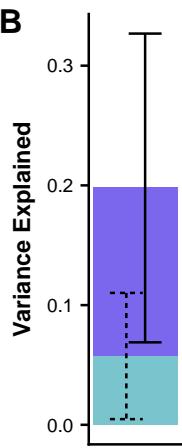
**A FUdR.mean.TOF****B****C**

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

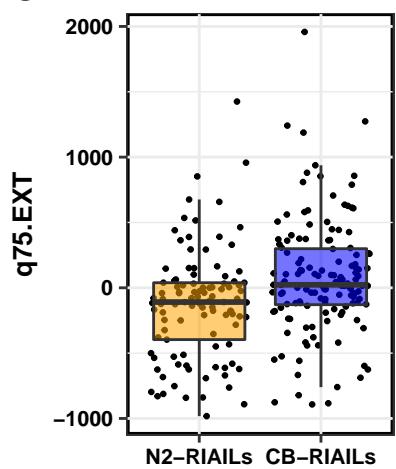
### A FUdR.q75.EXT



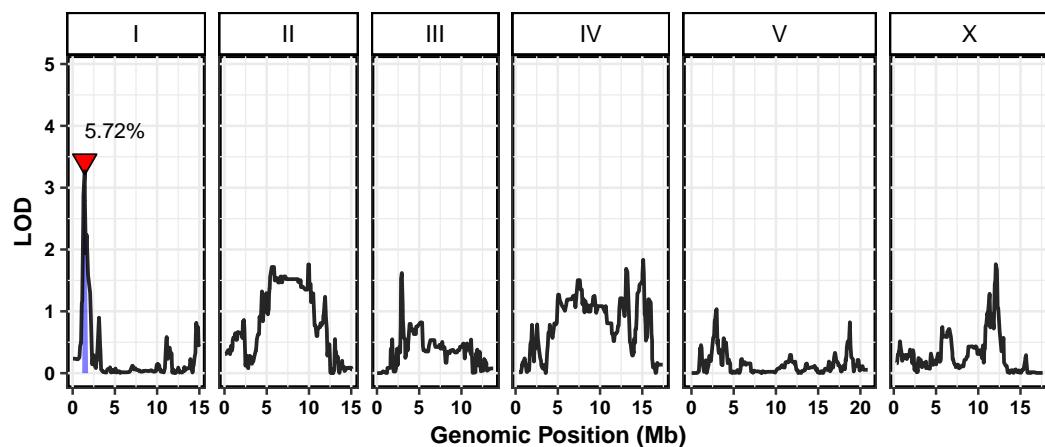
### B



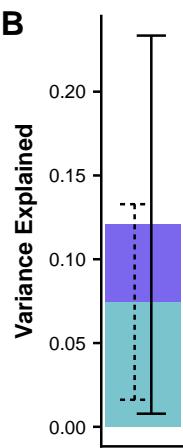
### C X:12750794



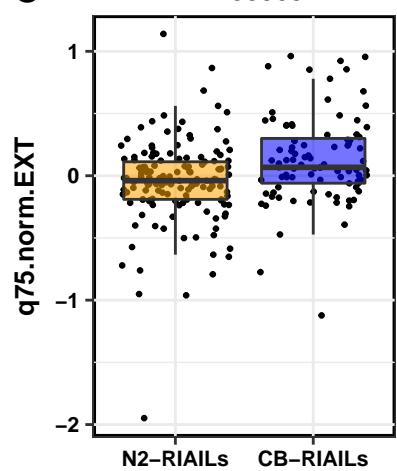
### A FUdR.q75.norm.EXT



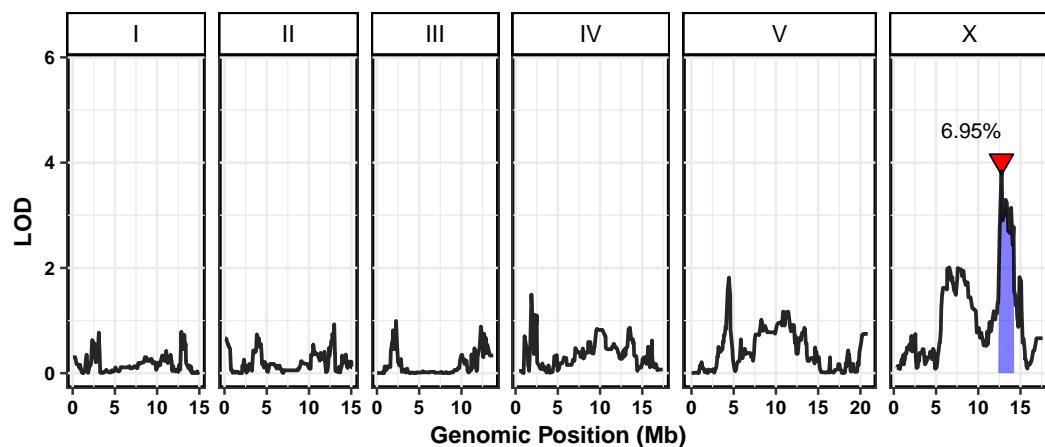
### B



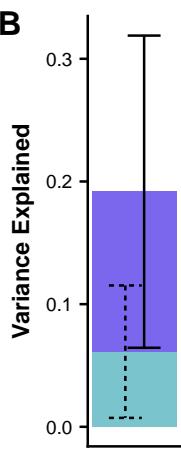
### C I:1433303



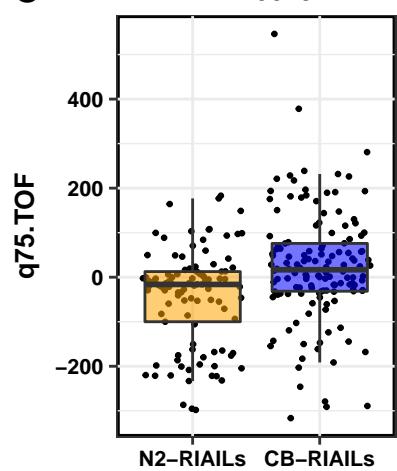
### A FUdR.q75.TOF

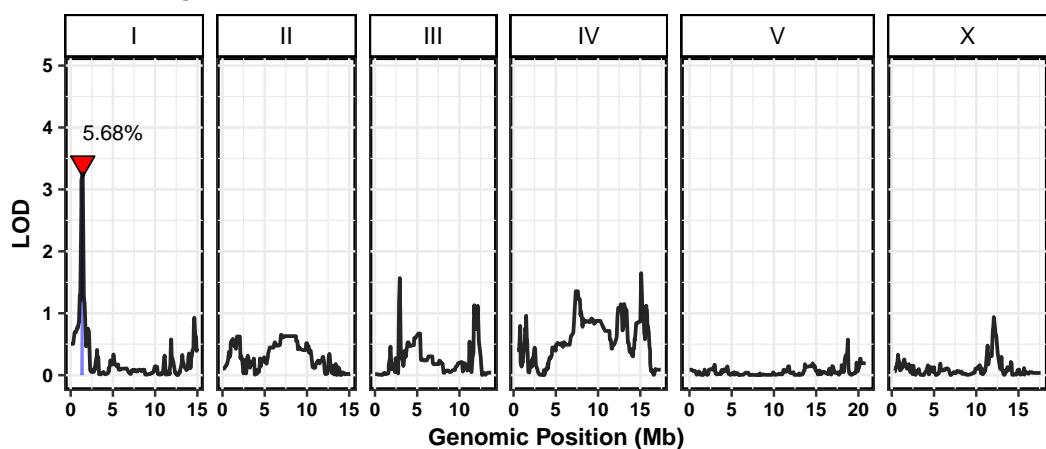
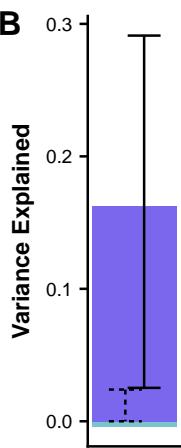
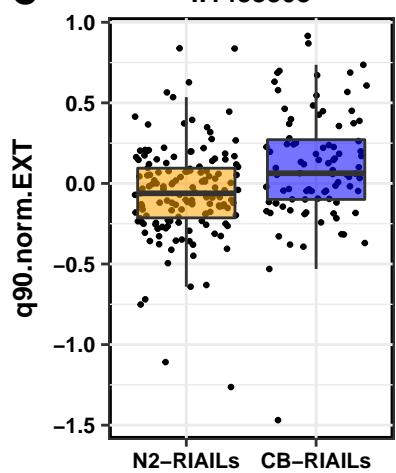


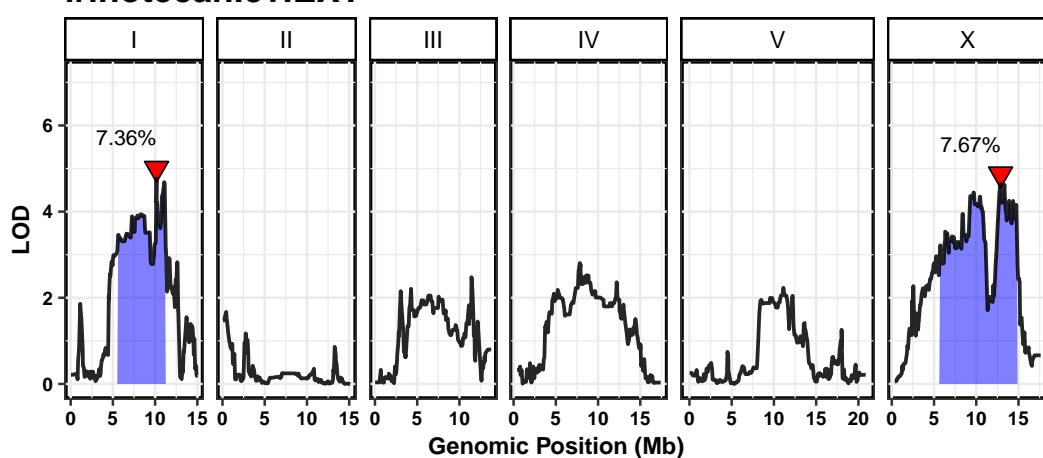
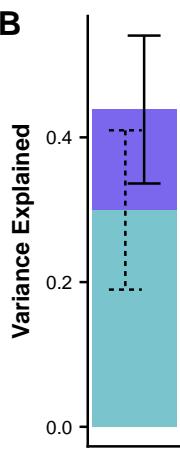
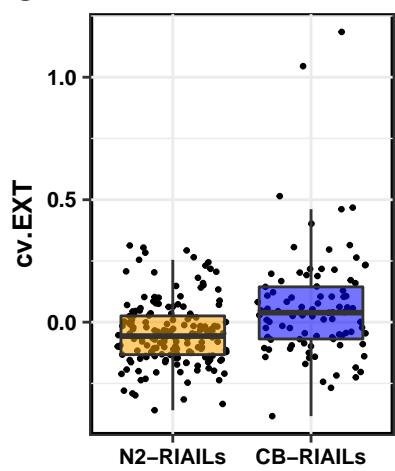
### B



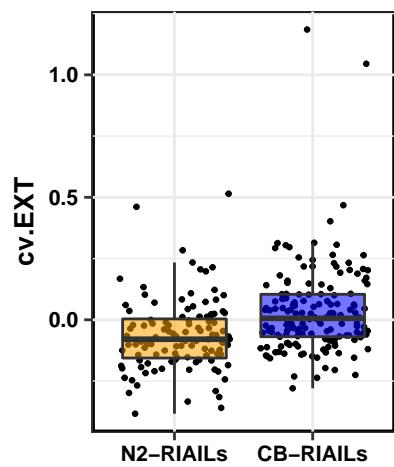
### C X:12750794

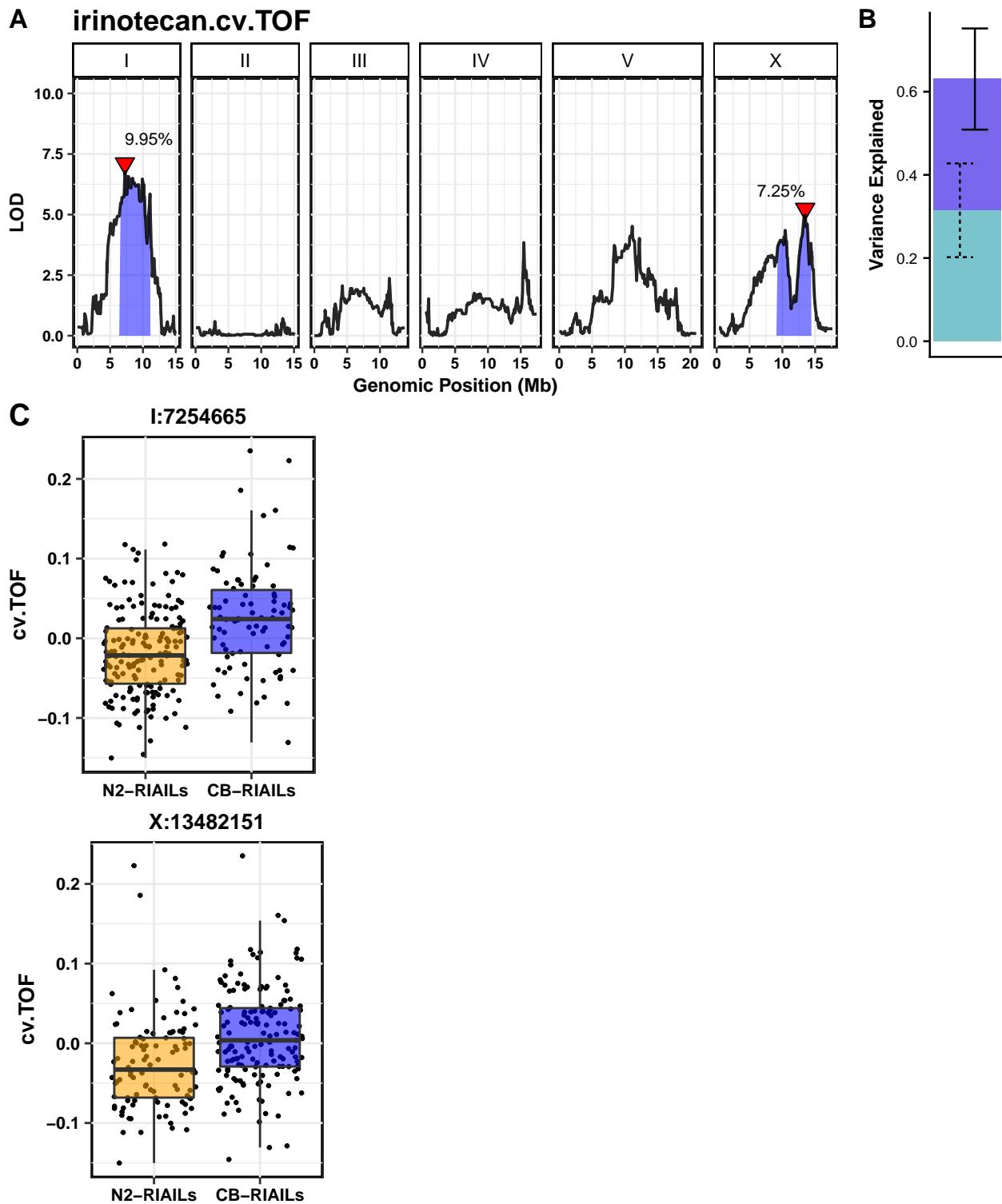


**A FUdR.q90.norm.EXT****B****C I:1433303**

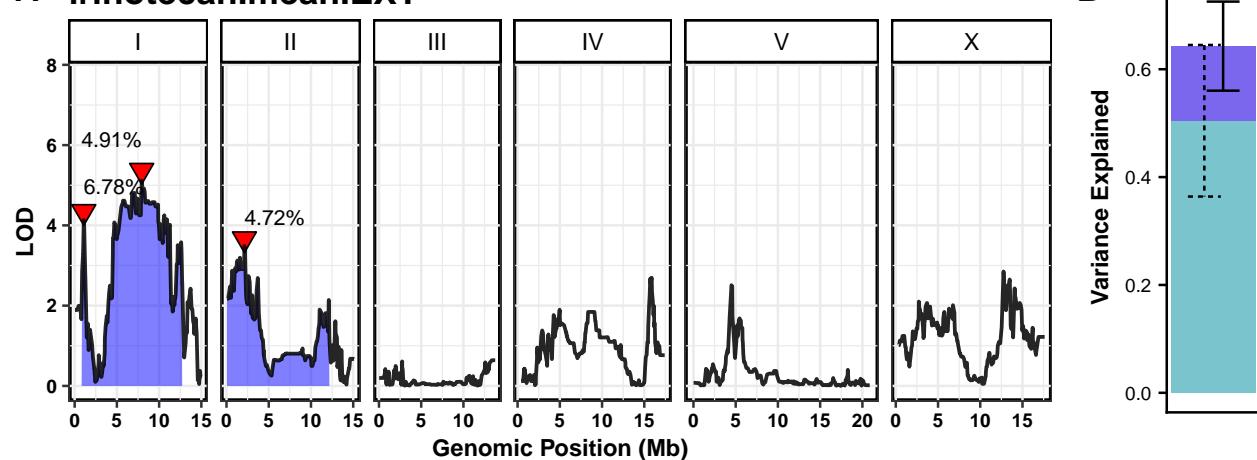
**A irinotecan.cv.EXT****B****C** I:10163992

## X:12878202

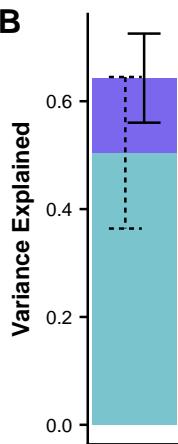




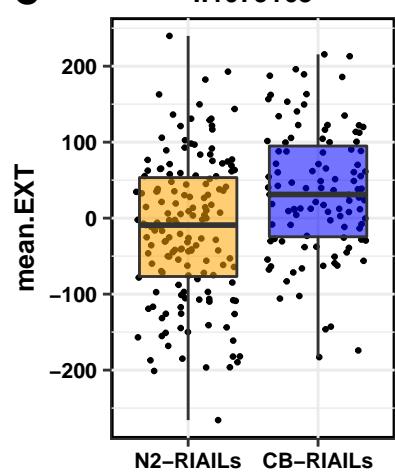
### A irinotecan.mean.EXT



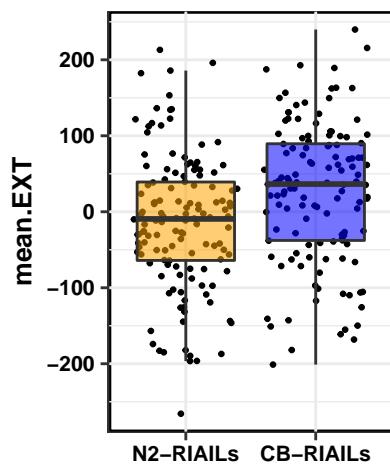
### B

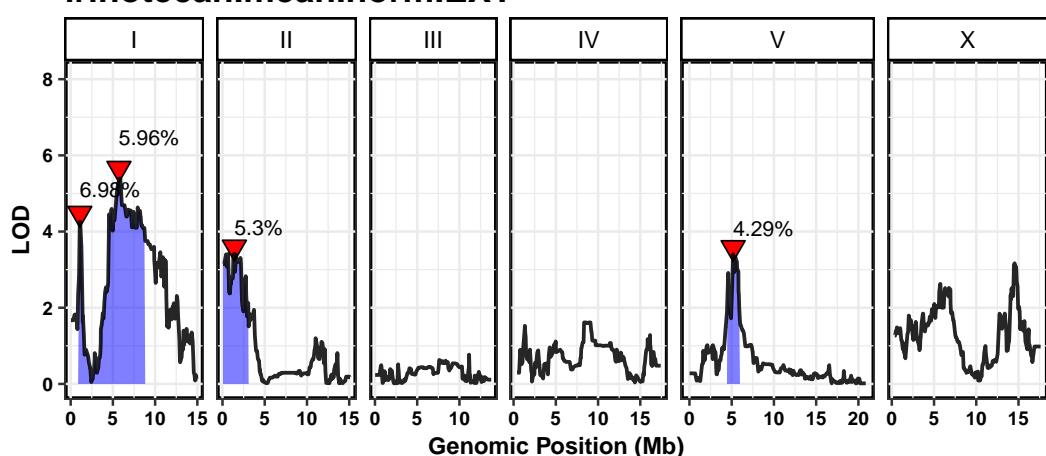
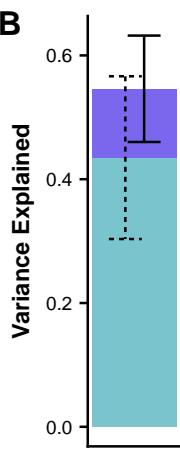
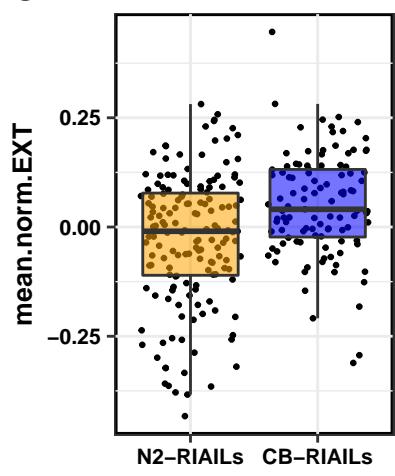
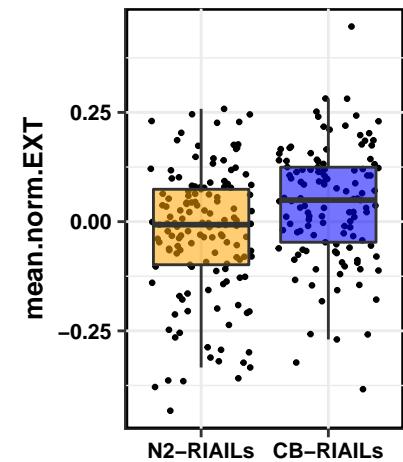


### C I:1079163

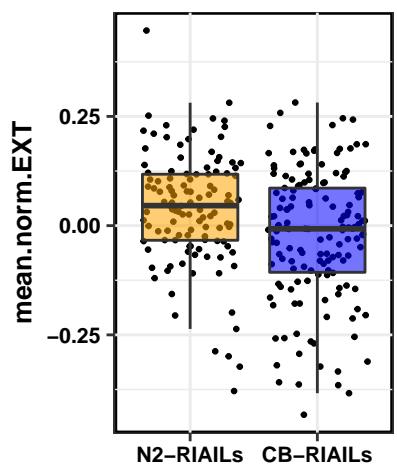


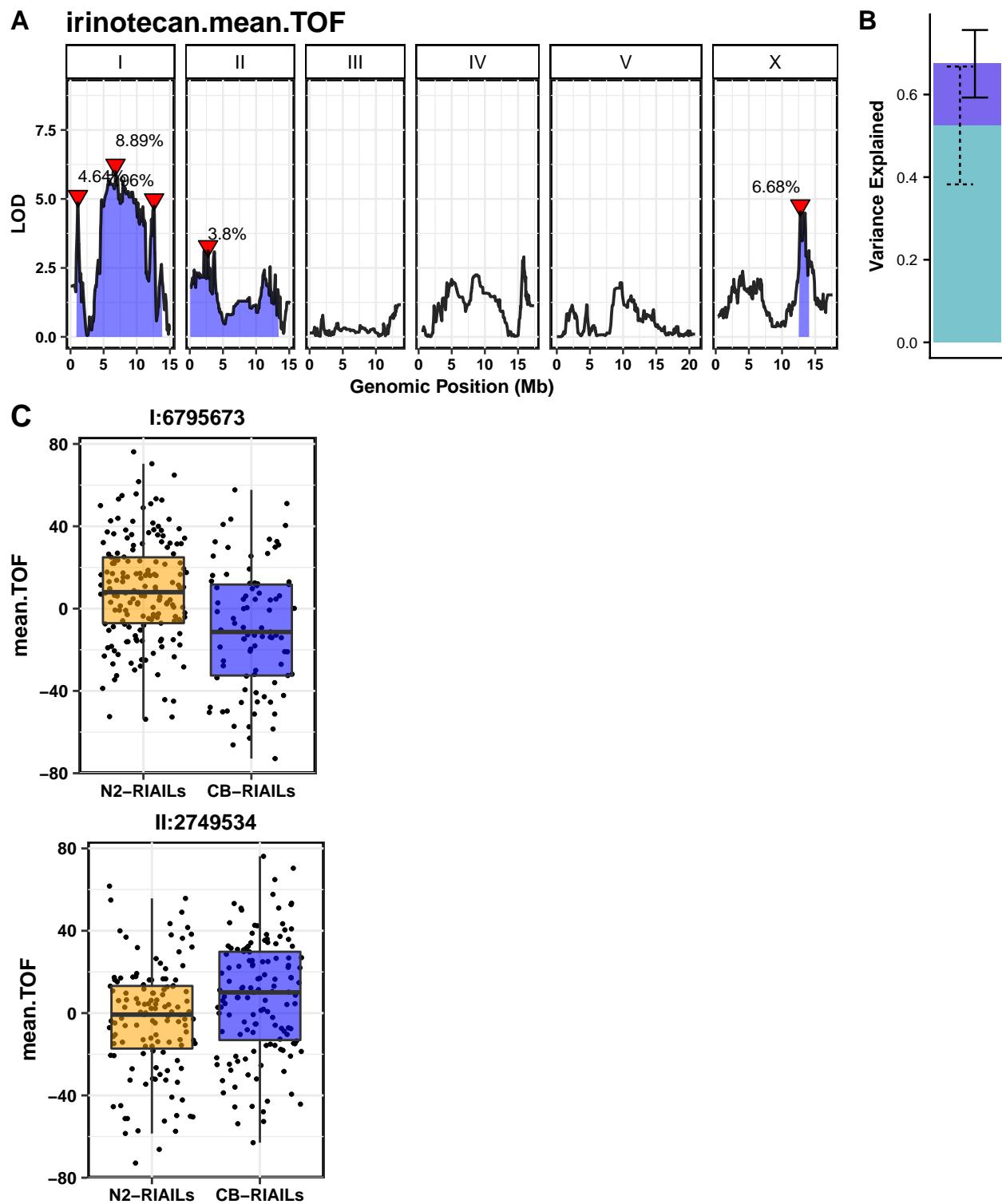
### II:2121017

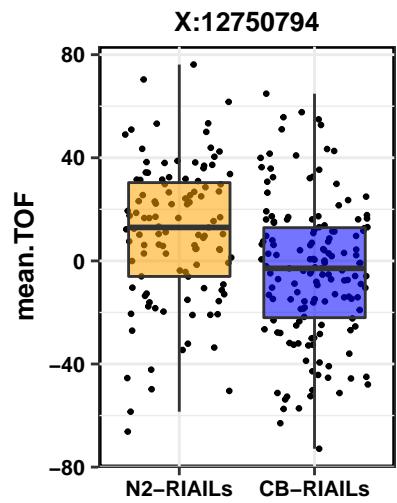


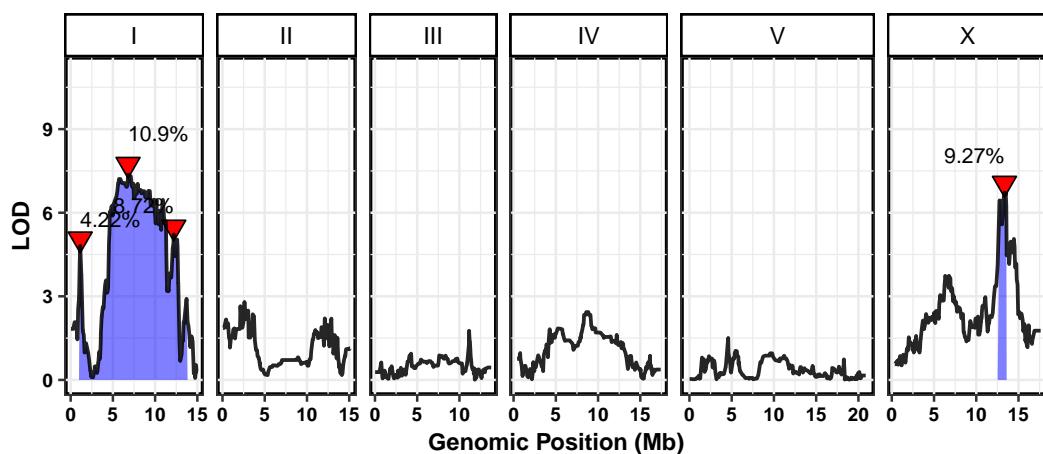
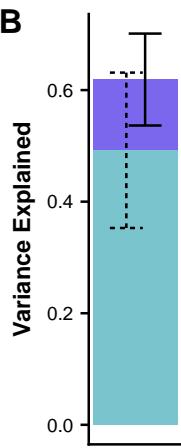
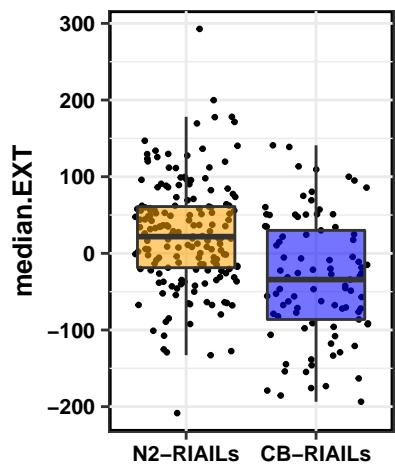
**A irinotecan.mean.norm.EXT****B****C I:1079163****II:1407379**

V:5173502

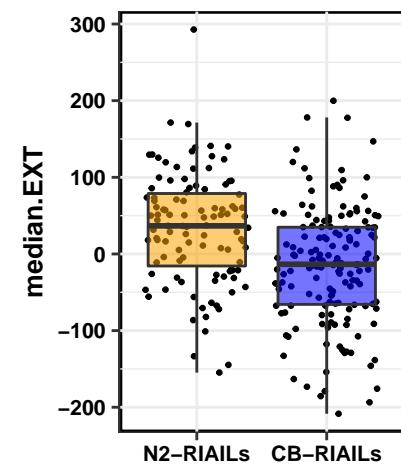


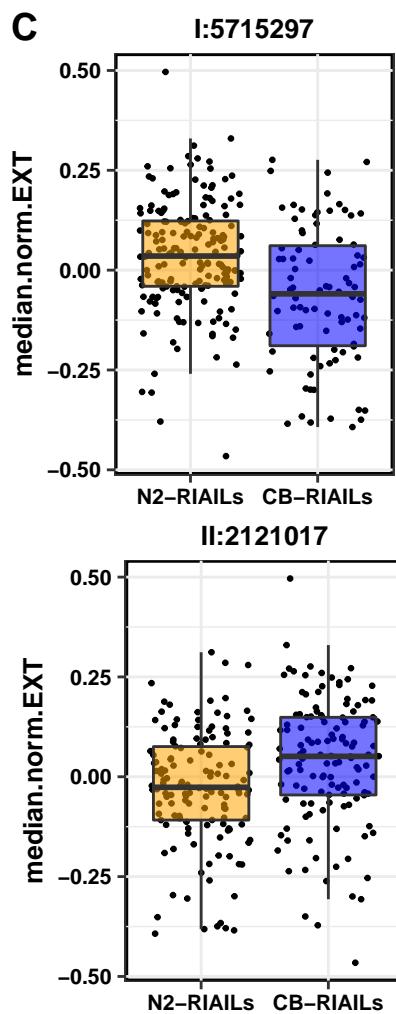
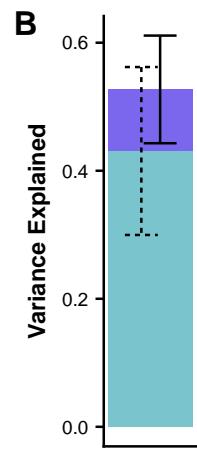
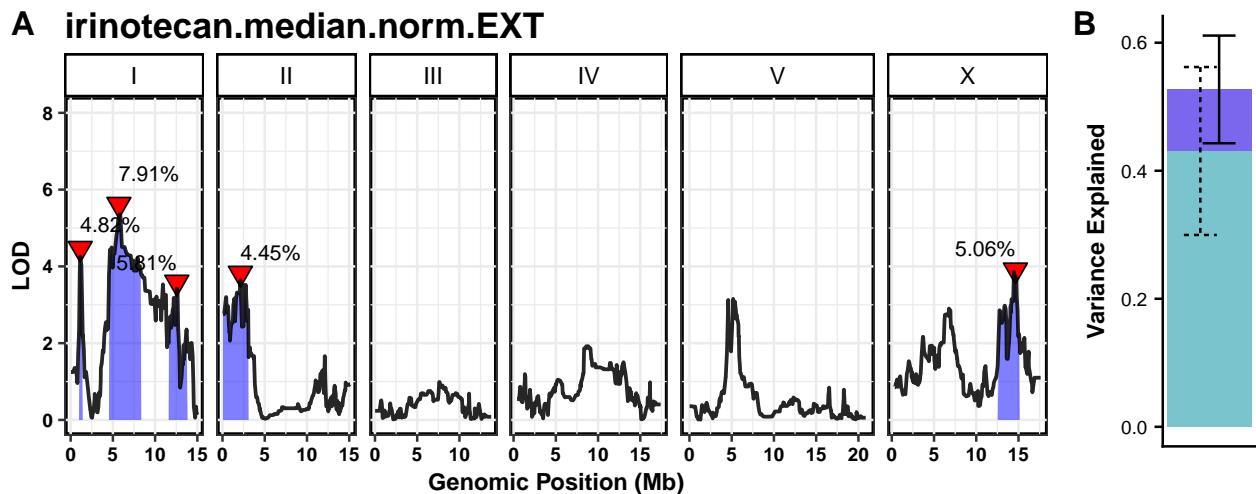


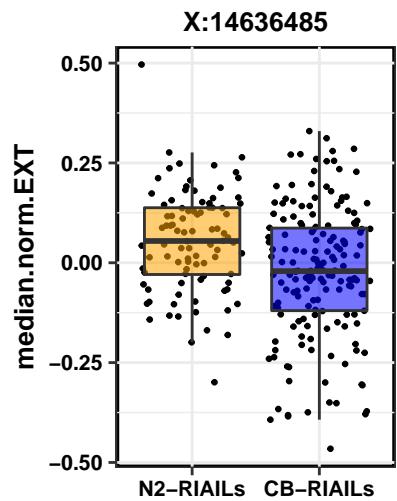


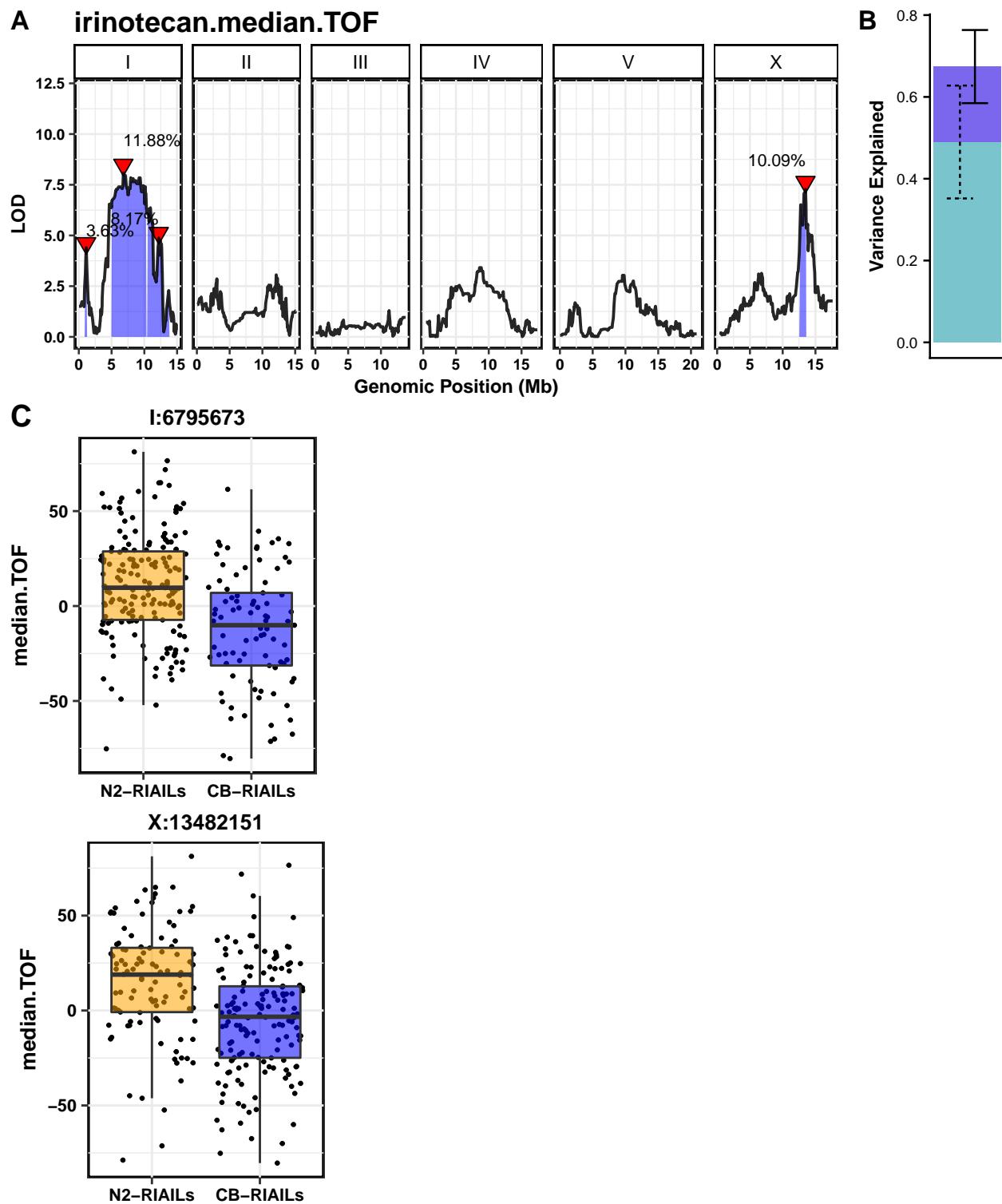
**A irinotecan.median.EXT****B****C** I:6795673

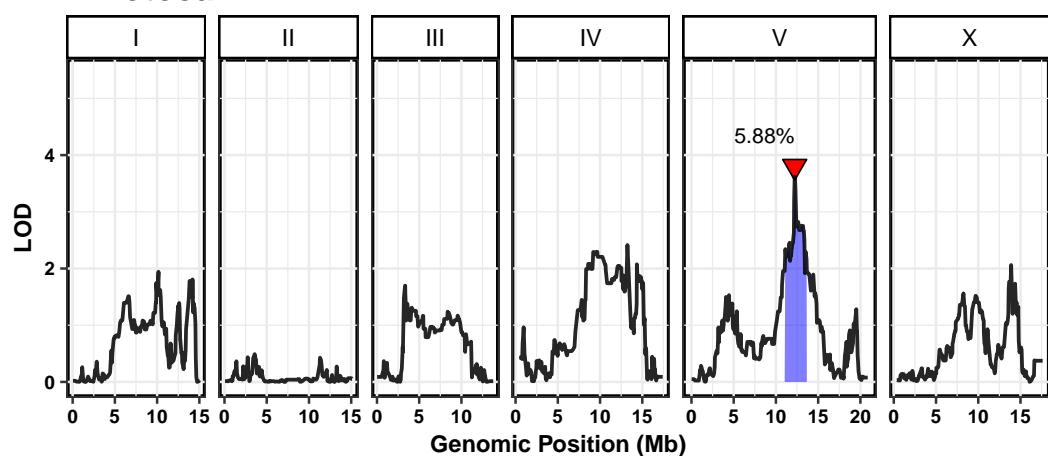
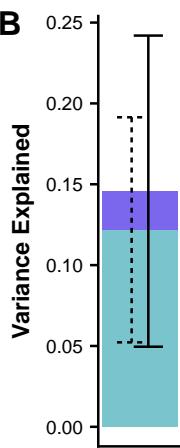
## X:13339646



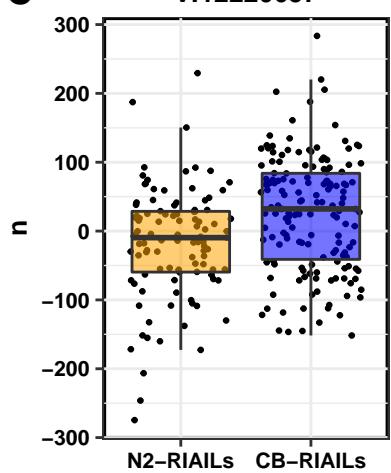


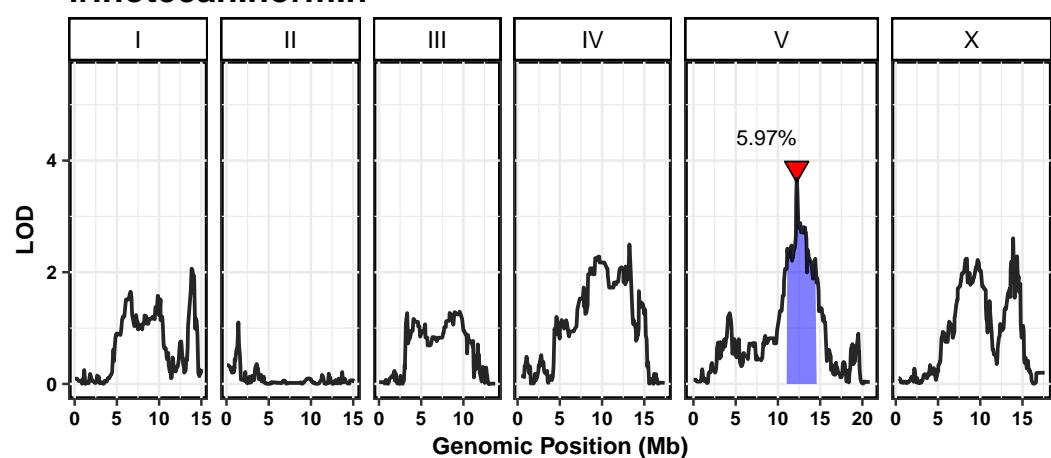
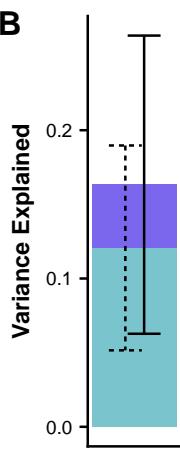
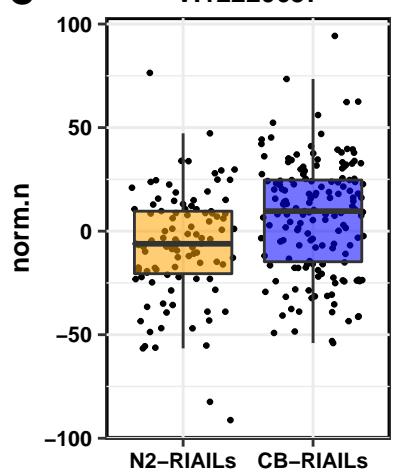


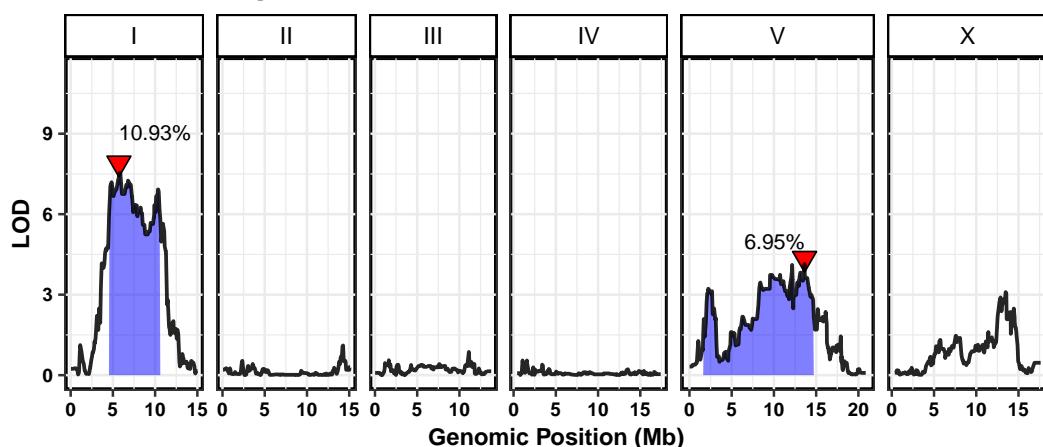
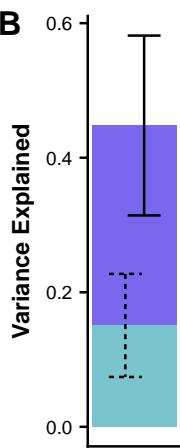
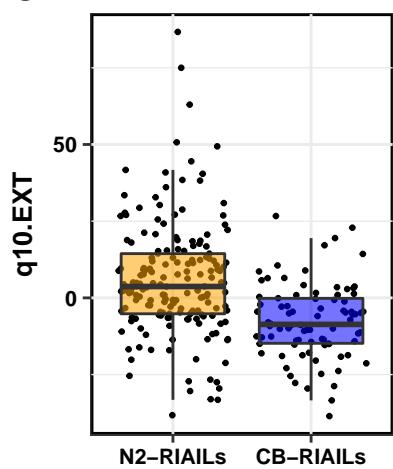


**A irinotecan.n****B****C**

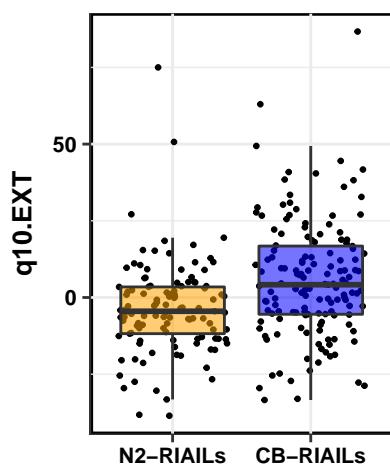
V:12220657



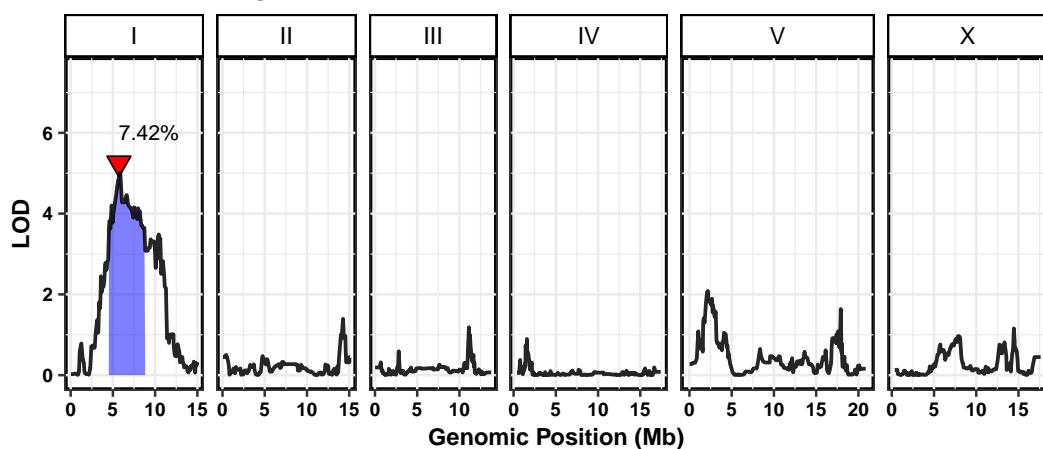
**A irinotecan.norm.n****B****C V:12220657**

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

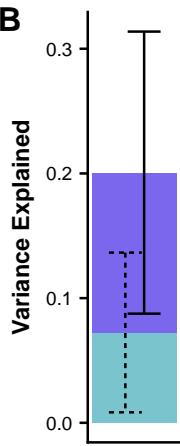
## V:13628670



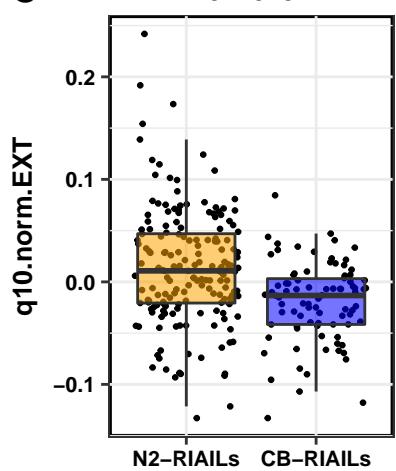
**A irinotecan.q10.norm.EXT**



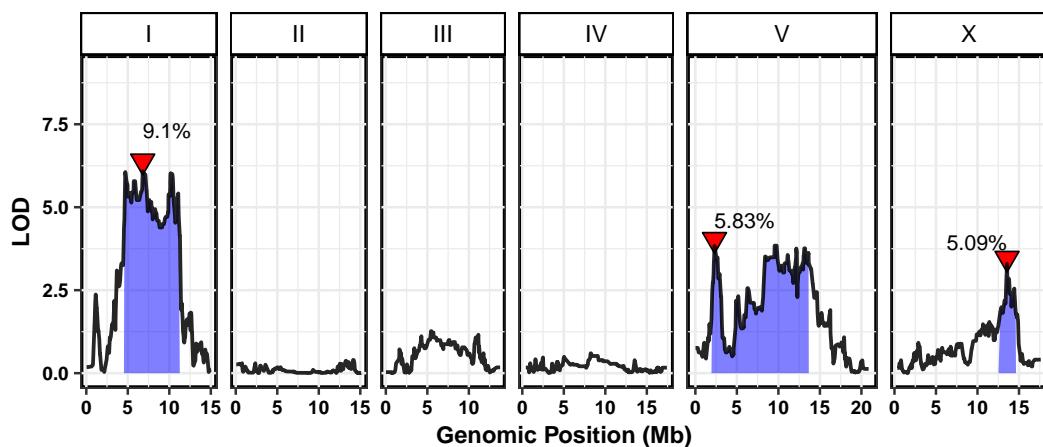
**B**



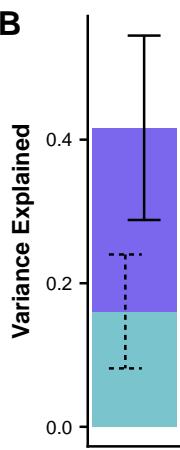
**C I:5715297**



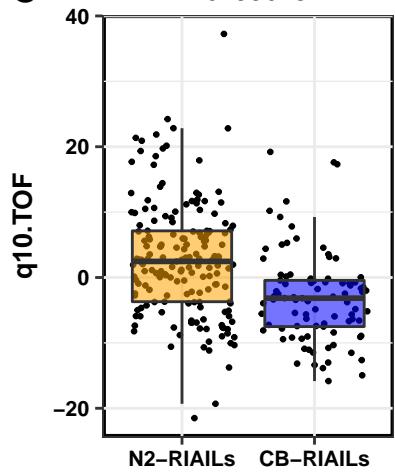
### A irinotecan.q10.TOF



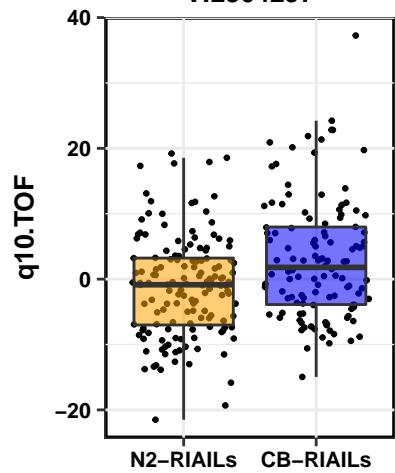
### B

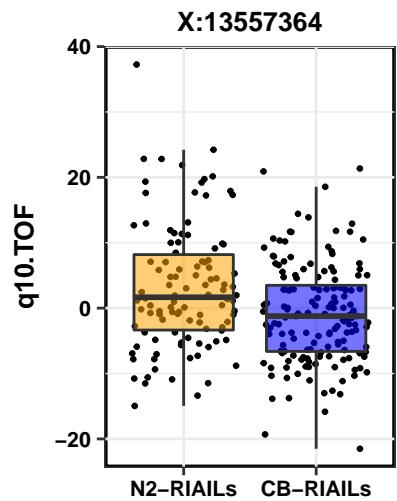


### C I:6795673

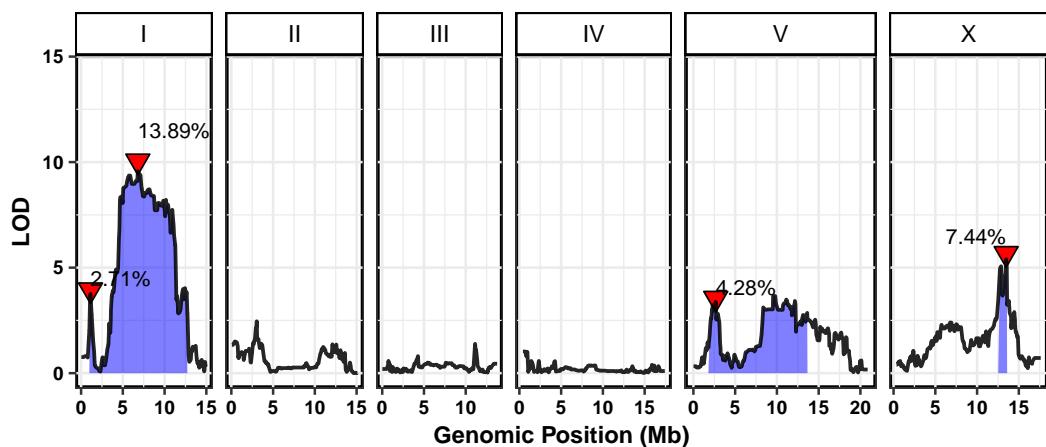


V:2304297

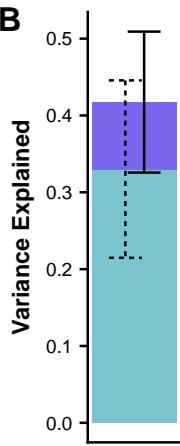




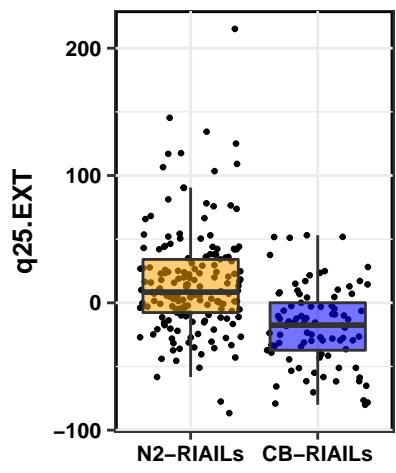
### A irinotecan.q25.EXT



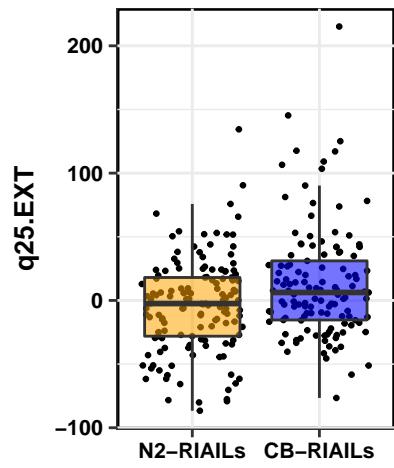
### B

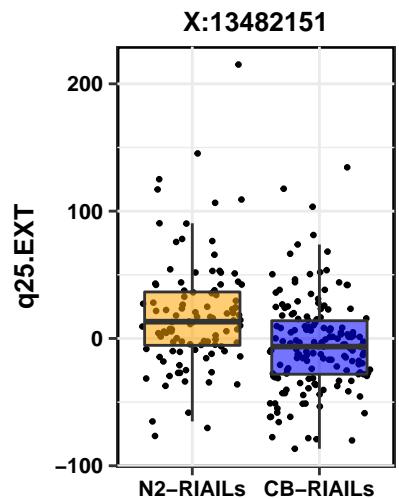


### C I:6795673

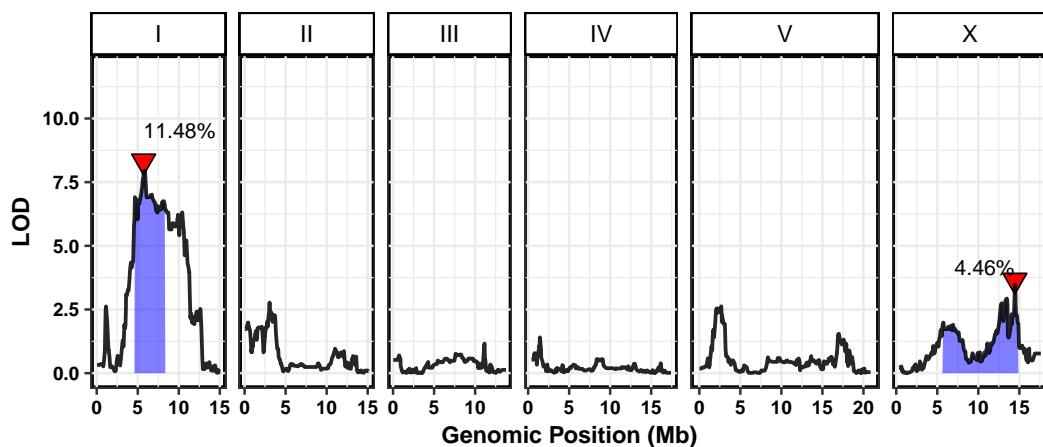


### V:2675410

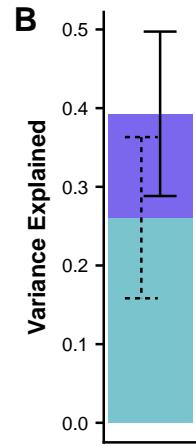




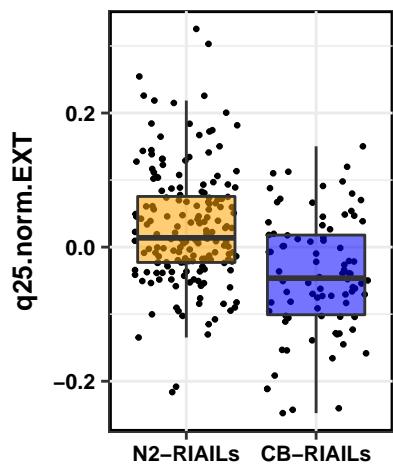
### A irinotecan.q25.norm.EXT



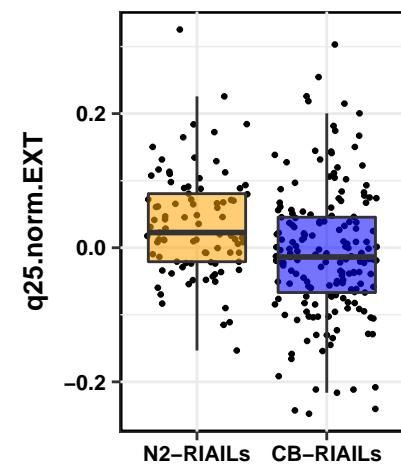
### B

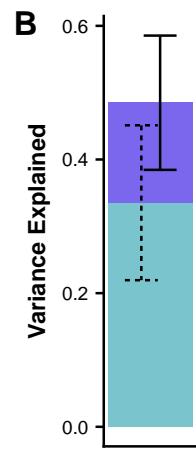
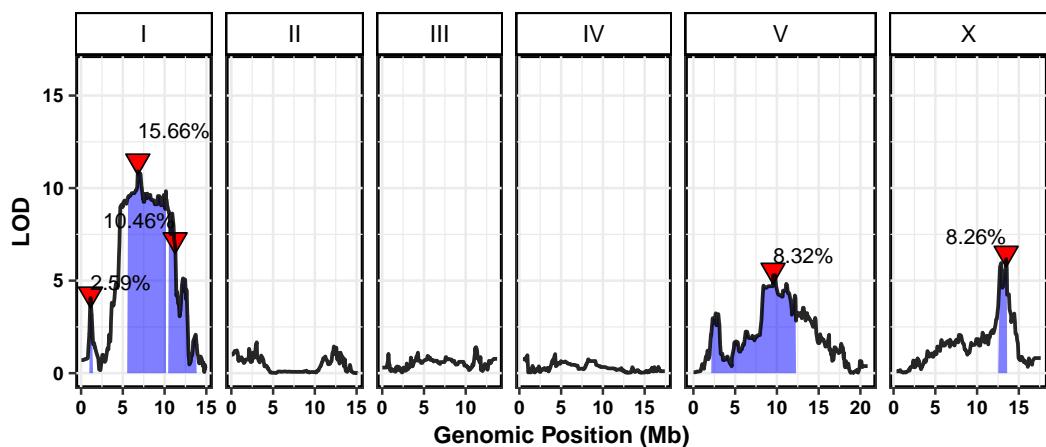
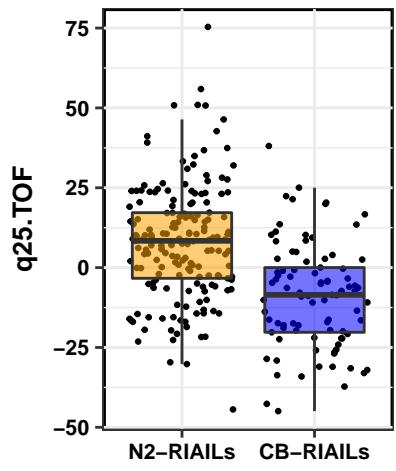
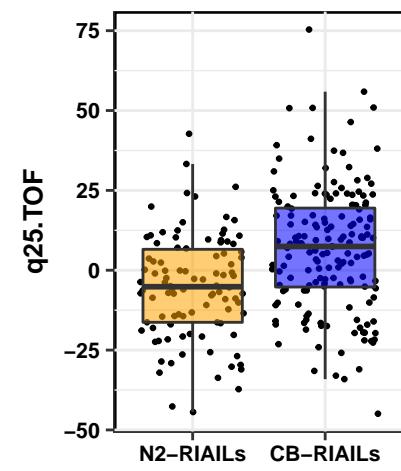


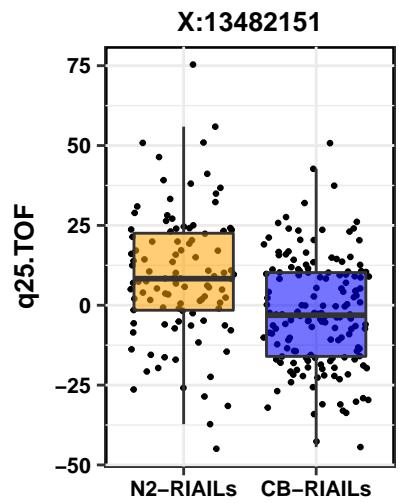
### C I:5715297



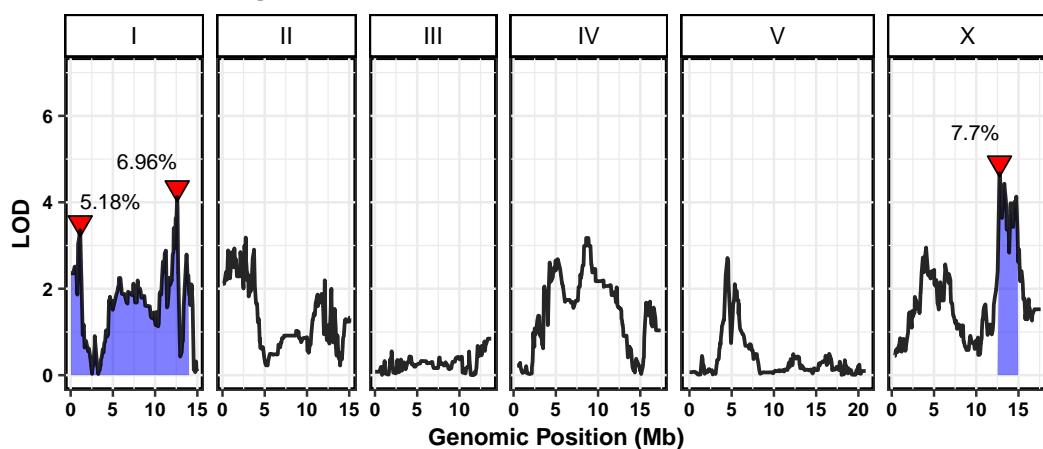
X:14451350



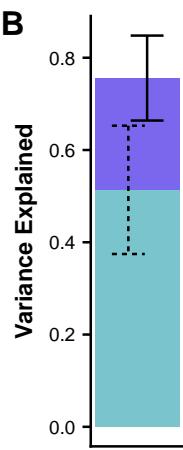
**A irinotecan.q25.TOF****C I:6795673****V:9542083**



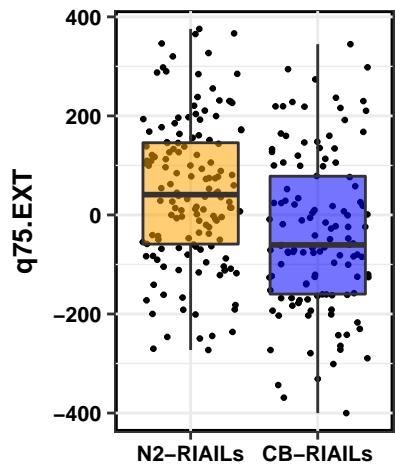
### A irinotecan.q75.EXT



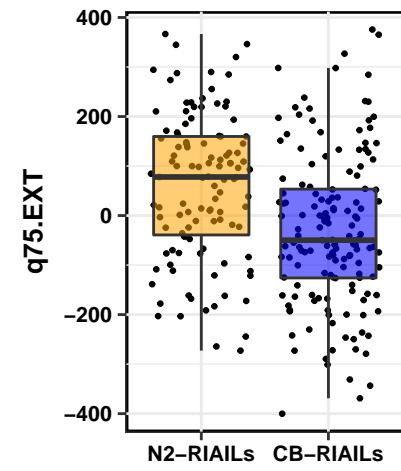
### B



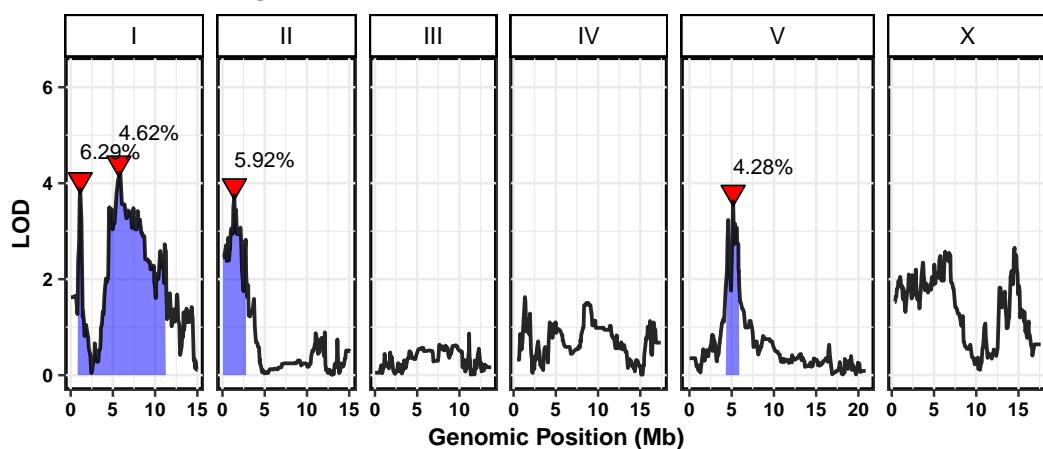
### C I:12612109



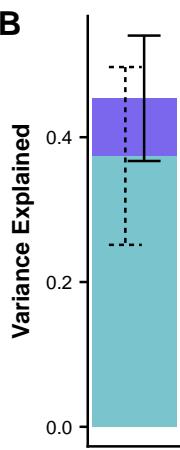
X:12750794



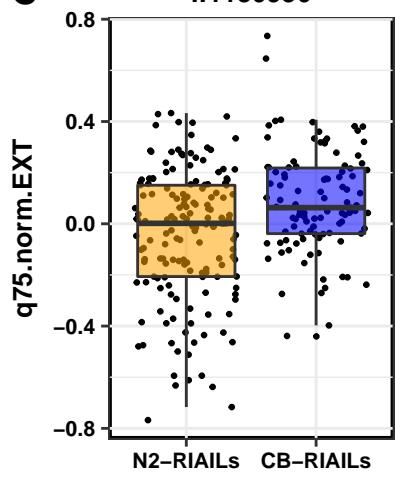
### A irinotecan.q75.norm.EXT



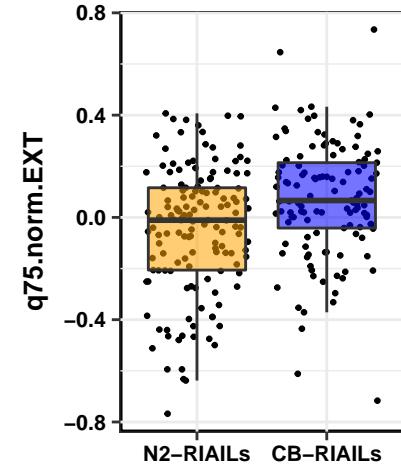
### B

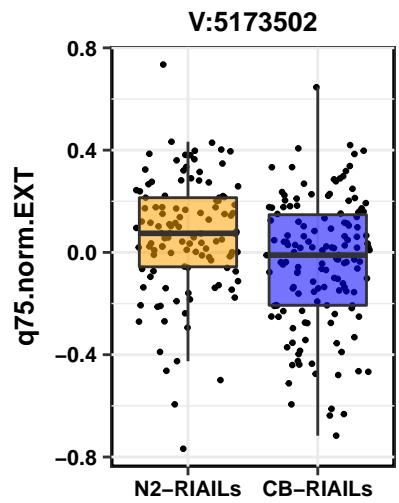


### C I:1130936

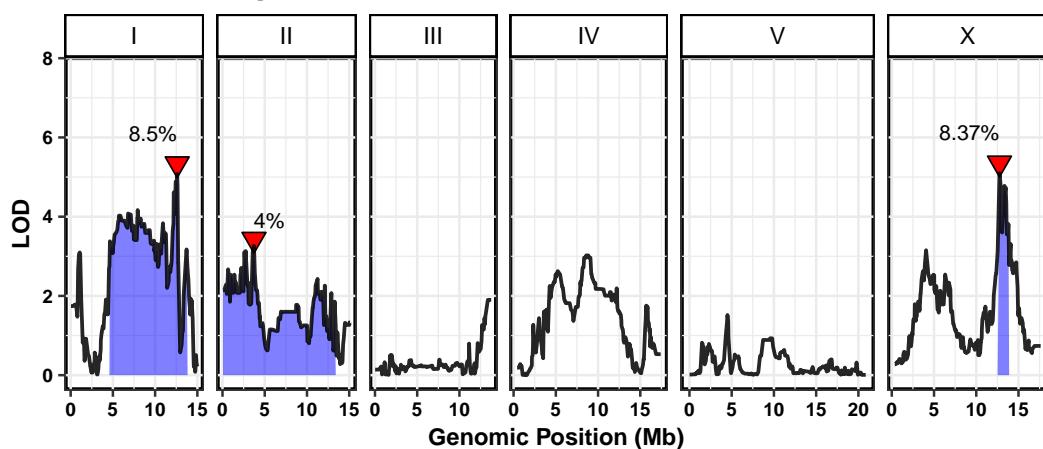


II:1407379

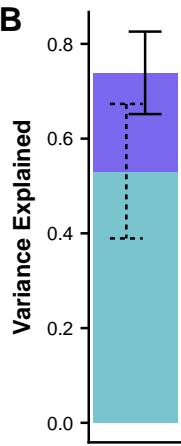




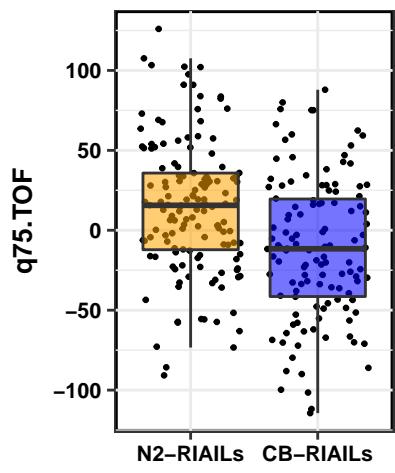
### A irinotecan.q75.TOF



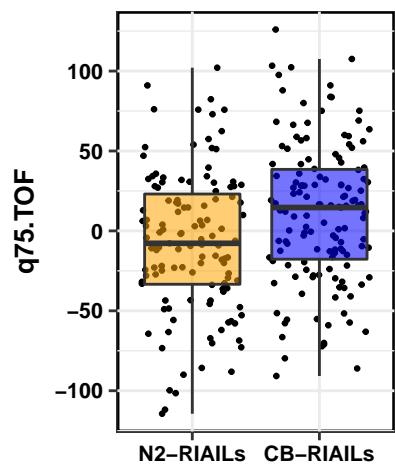
### B

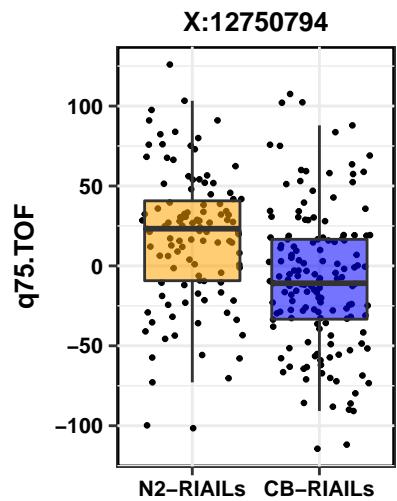


### C I:12612109

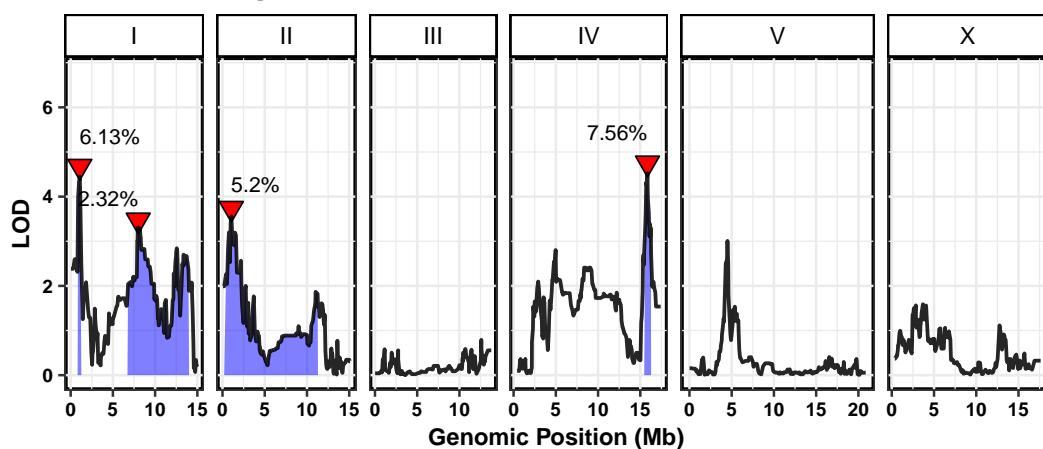


### II:3729095

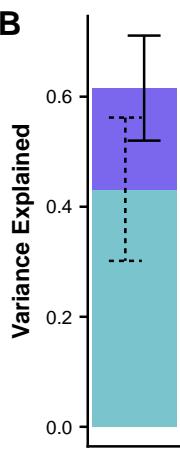




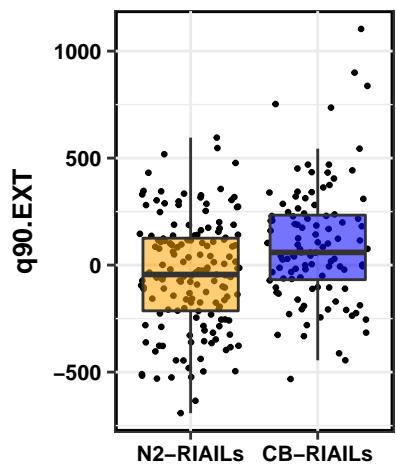
### A irinotecan.q90.EXT



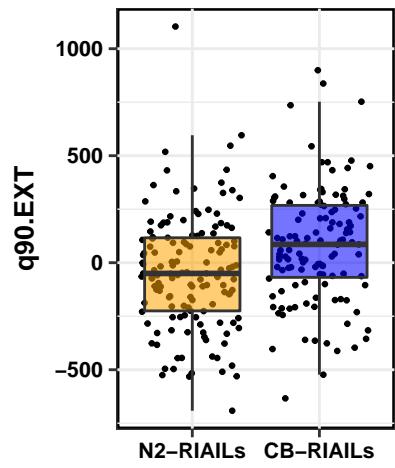
### B

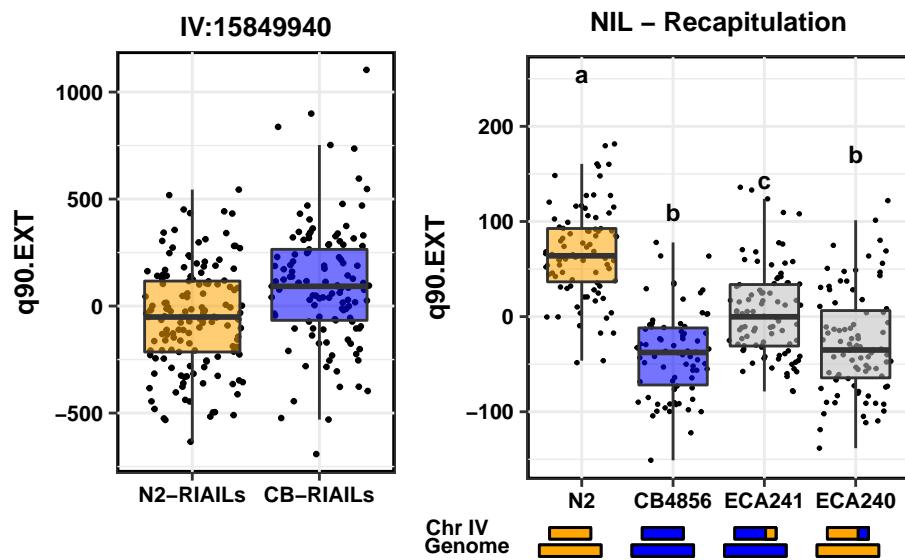


### C I:1079163

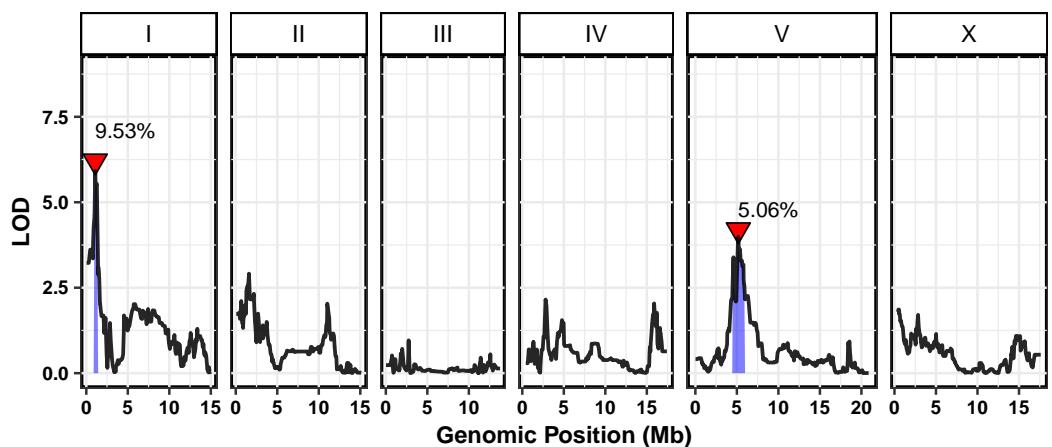


### II:1043218

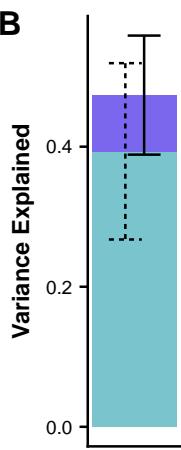




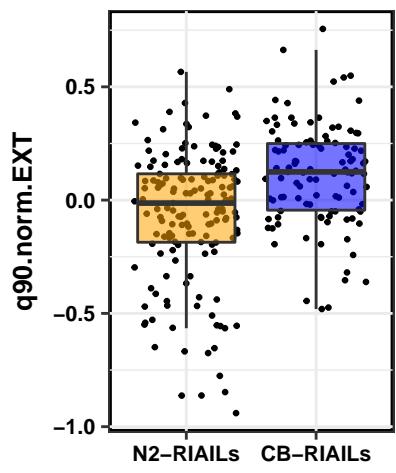
### A irinotecan.q90.norm.EXT



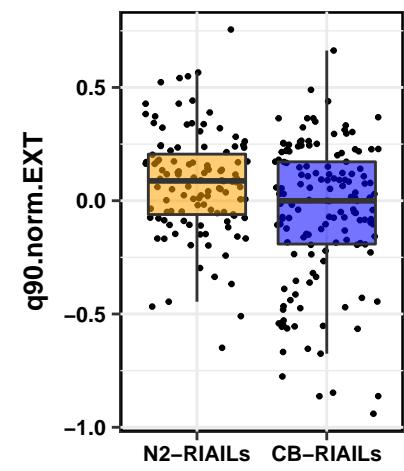
### B



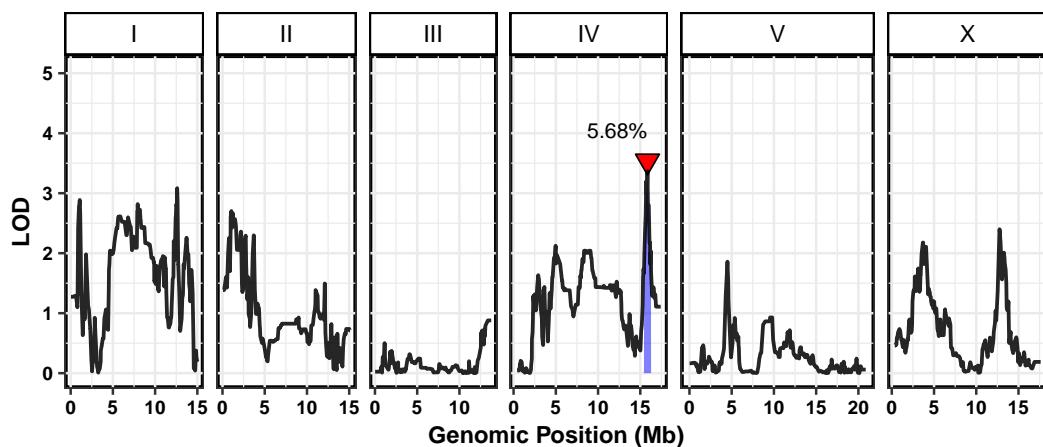
### C I:1079163



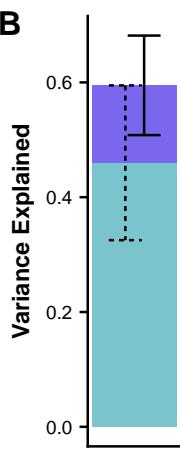
V:5173502



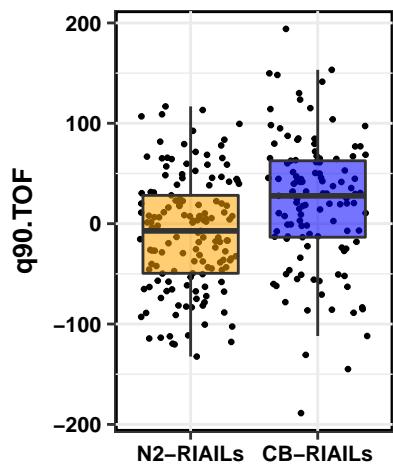
### A irinotecan.q90.TOF



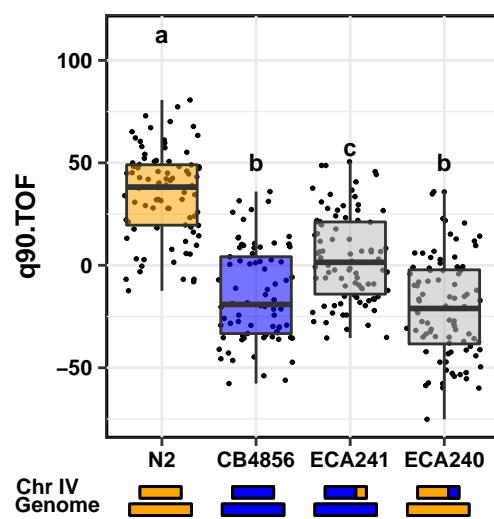
### B

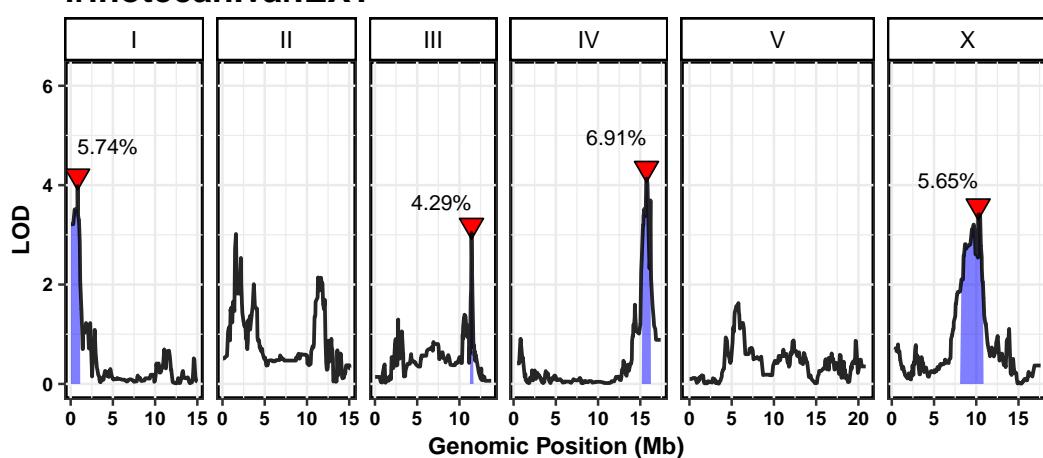
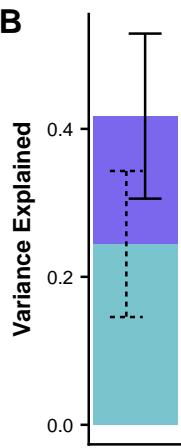
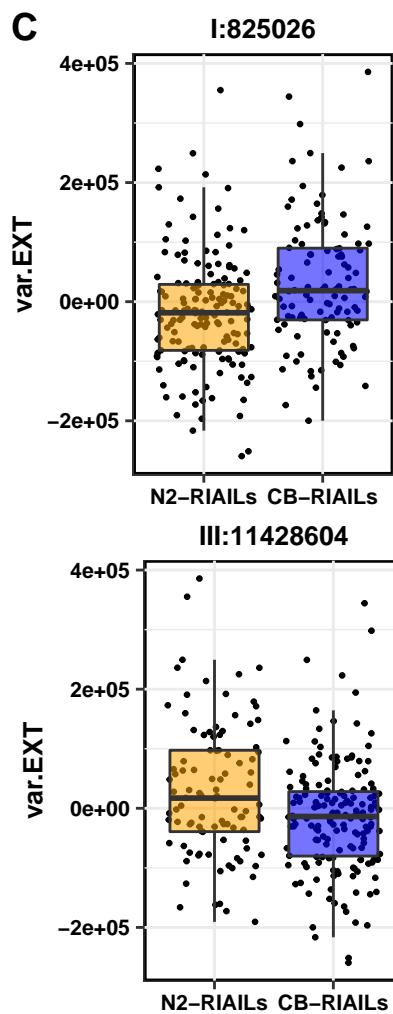


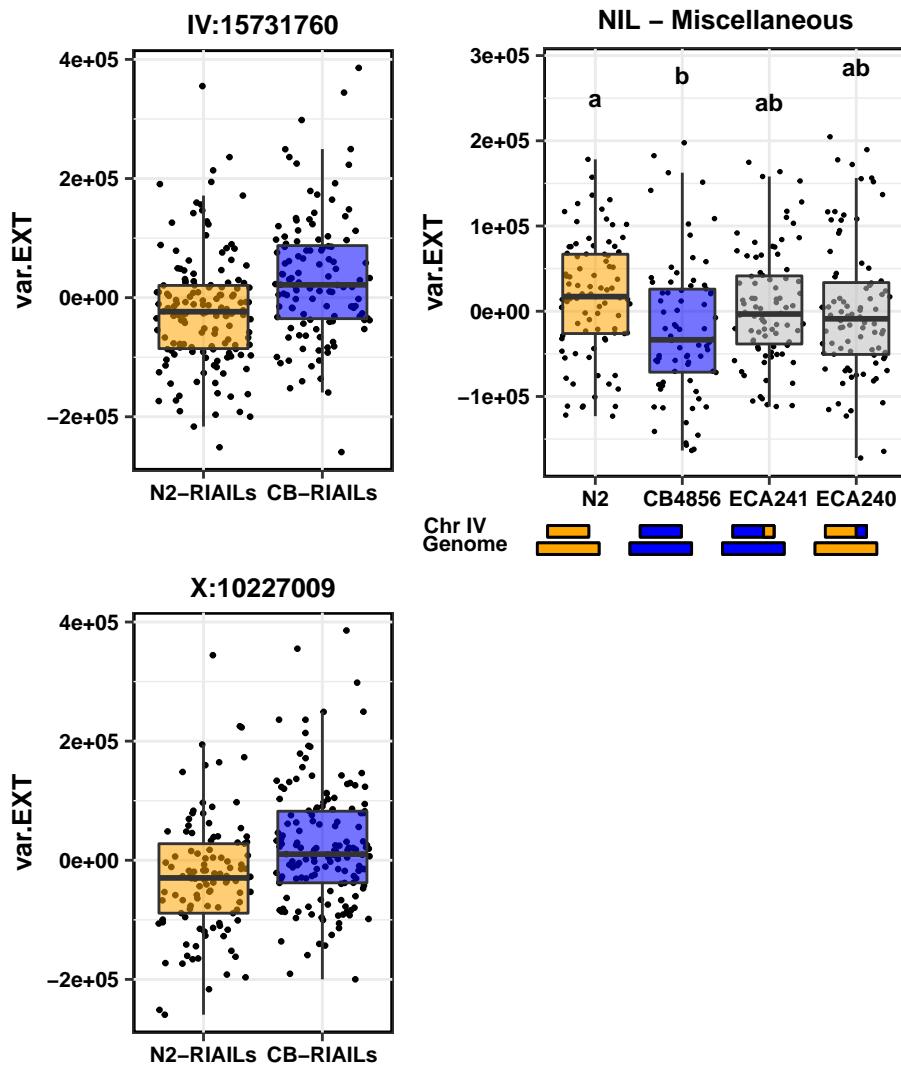
### C IV:15849940

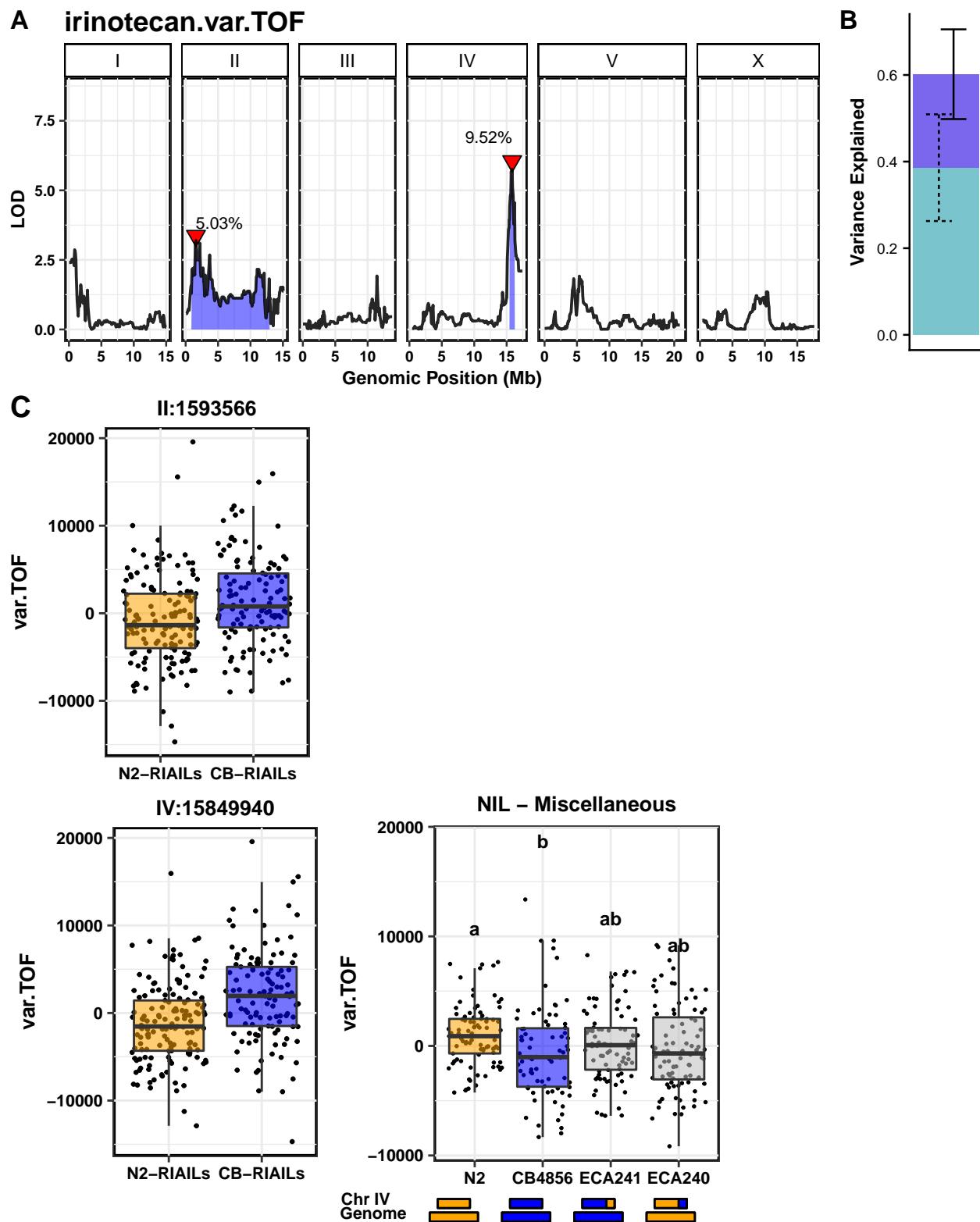


### NIL – Recapitulation

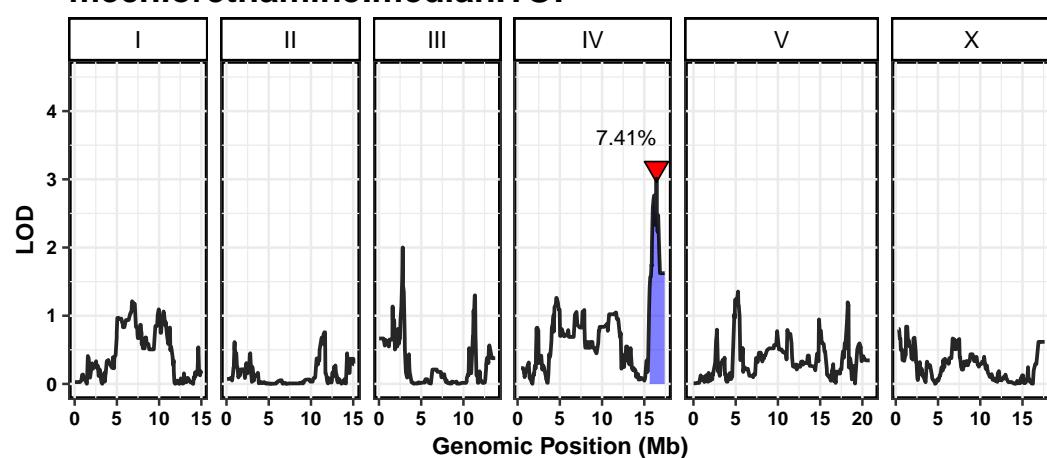


**A irinotecan.var.EXT****B****C**

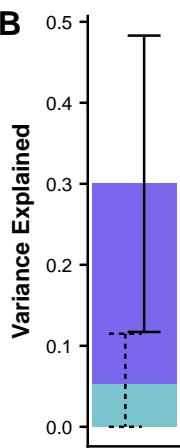




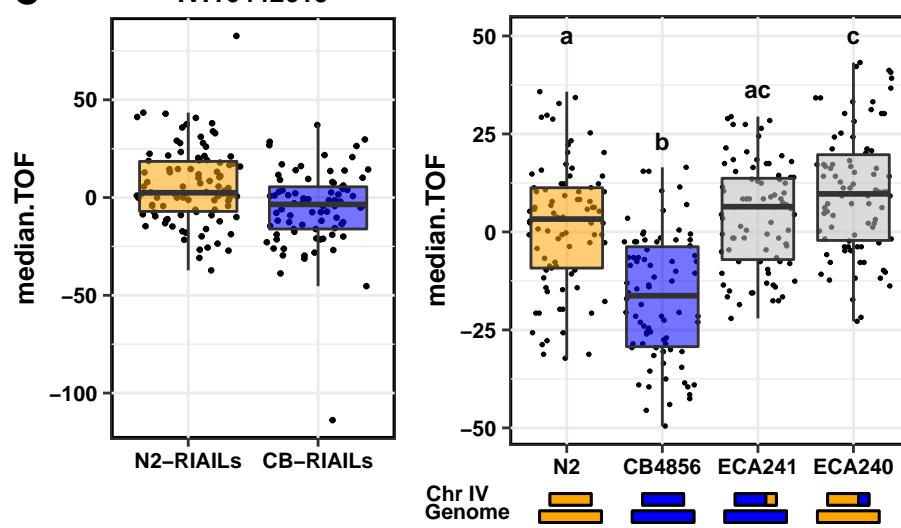
### A mechlorethamine.median.TOF

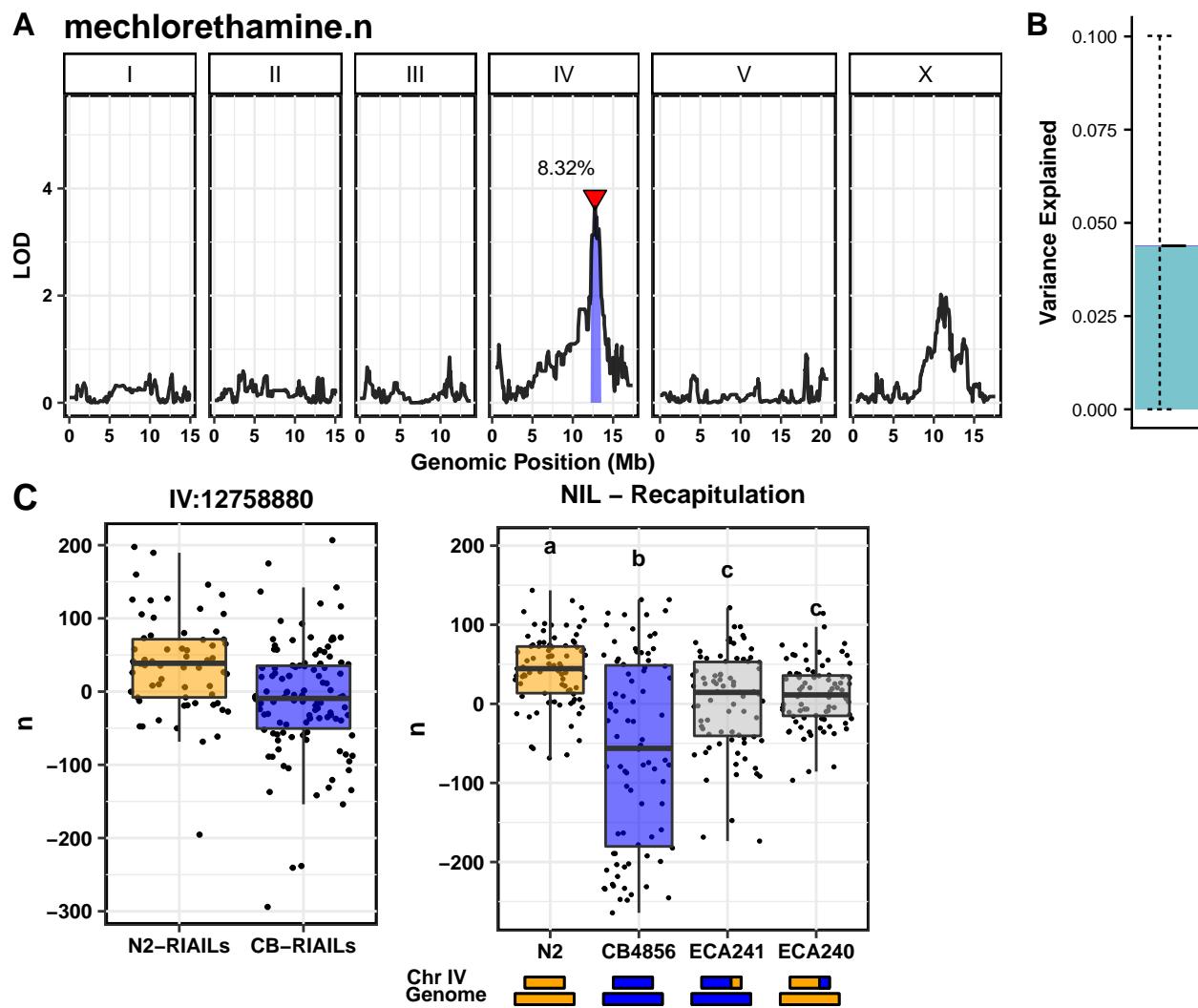


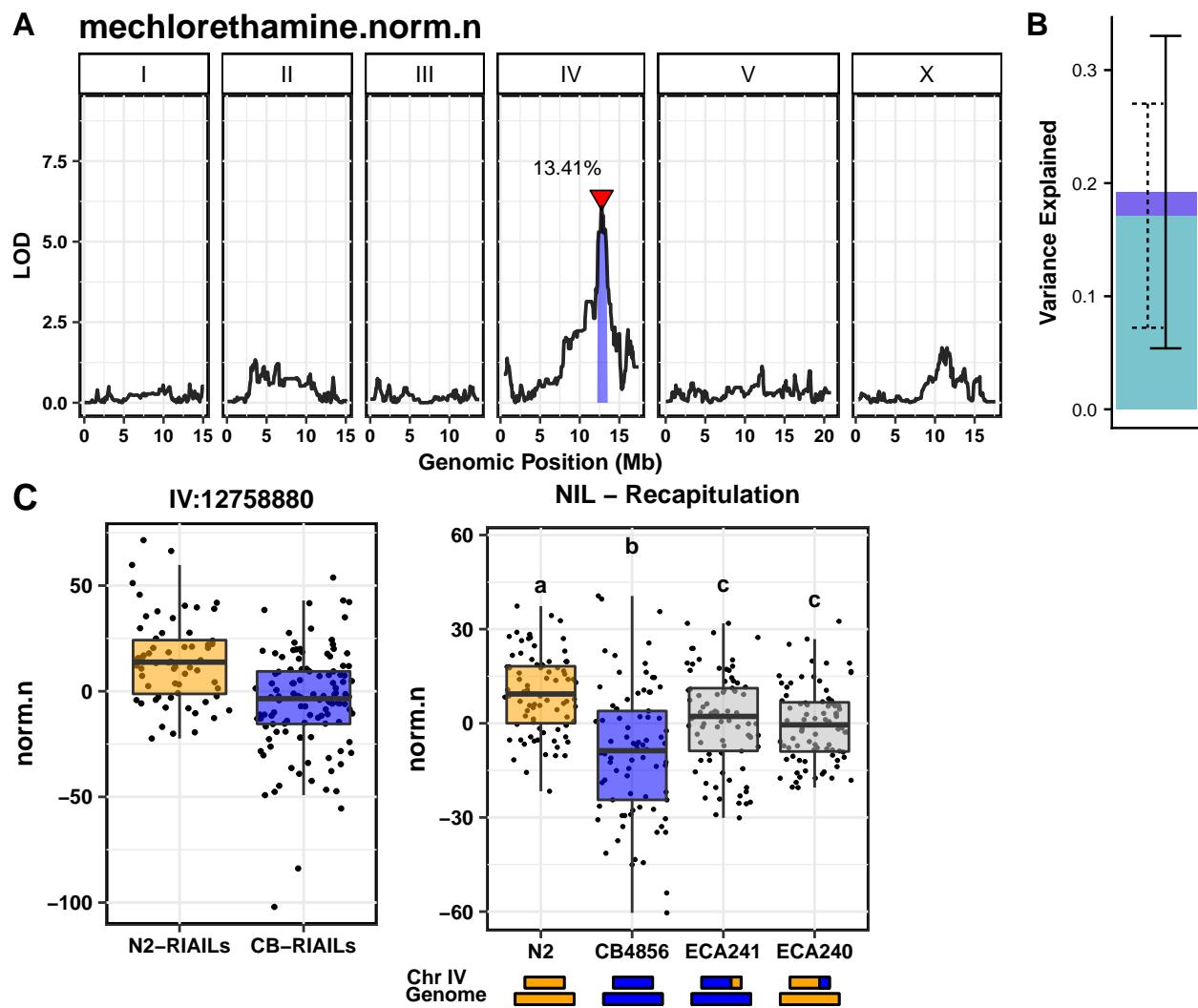
### B



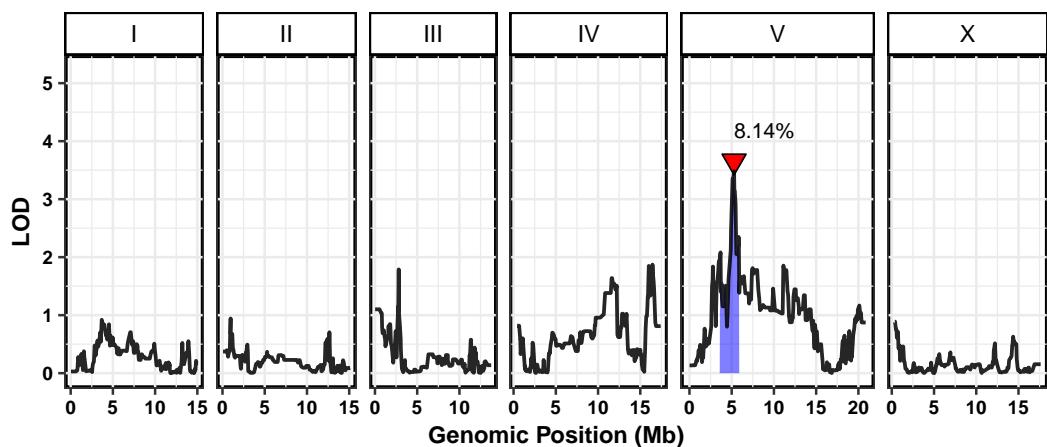
### C IV:16442619



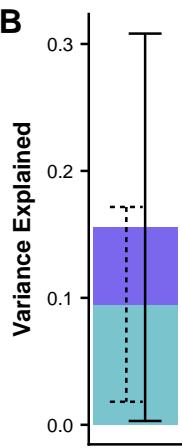




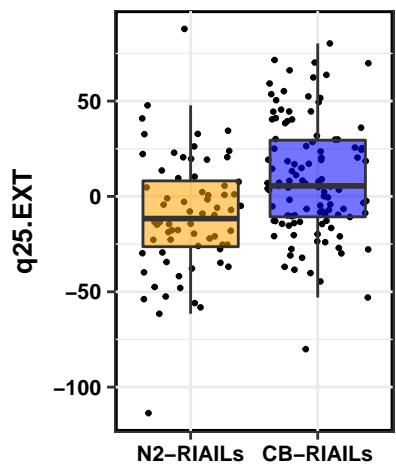
### A mechlorethamine.q25.EXT



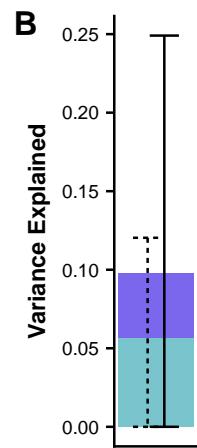
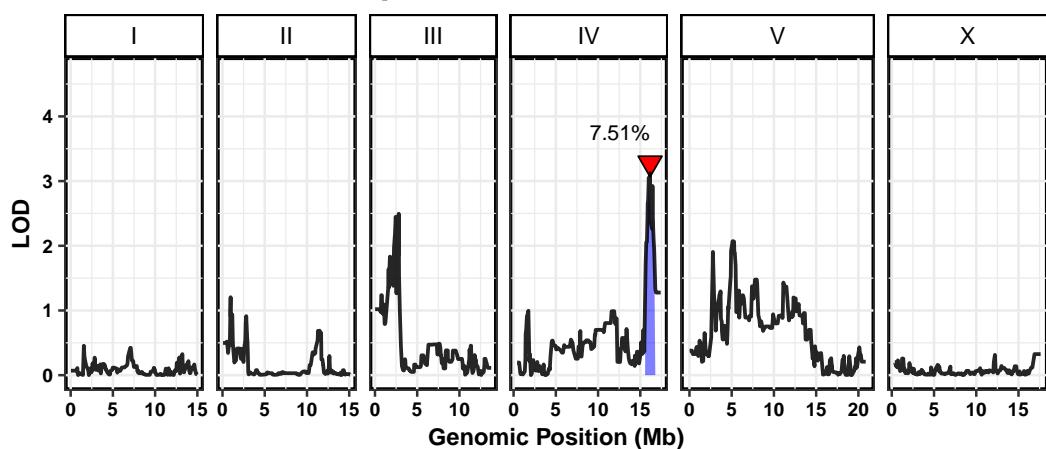
### B



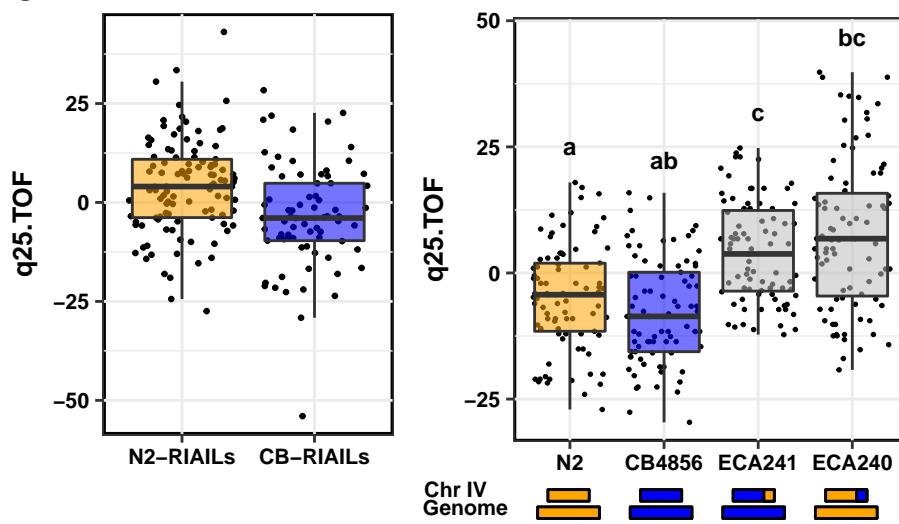
### C V:5281983

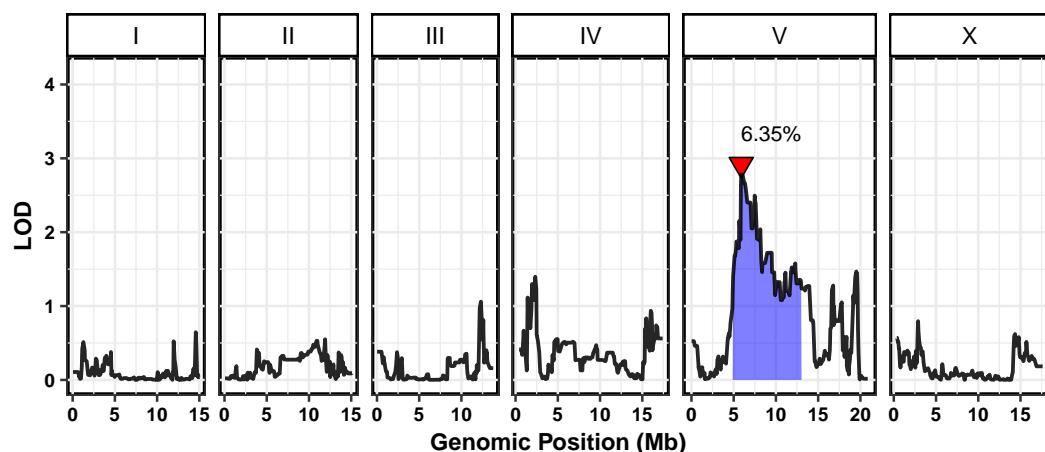
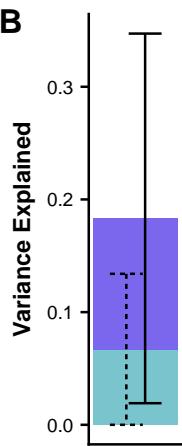


### A mechlorethamine.q25.TOF

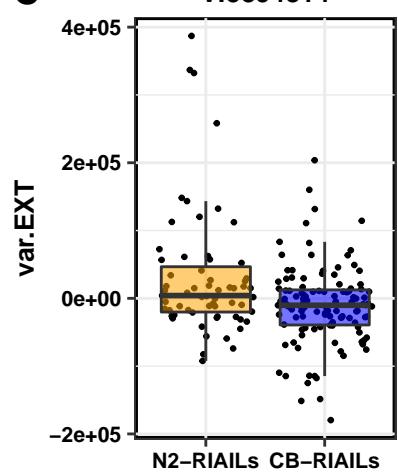


### C IV:16160242

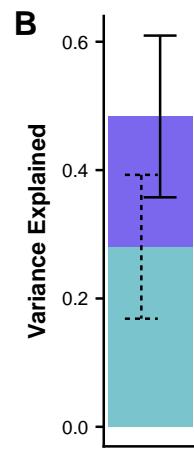
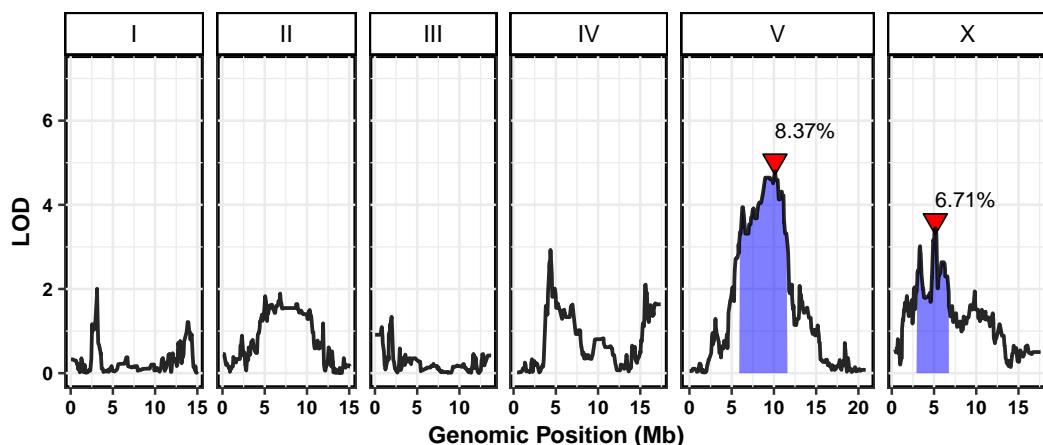


**A mechlorethamine.var.EXT****B****C**

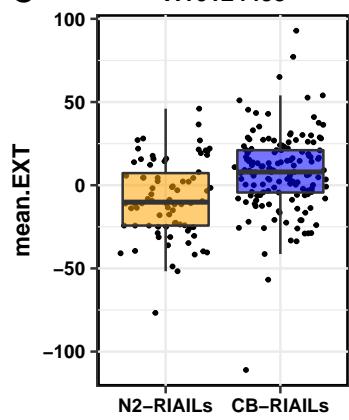
V:5894814



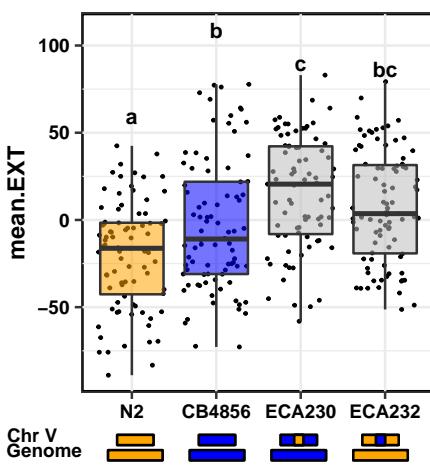
### A paraquat.mean.EXT



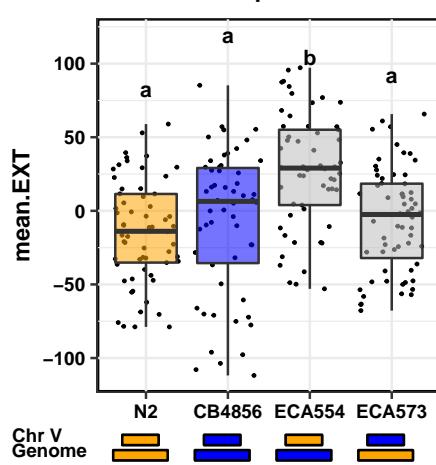
### V:10124453



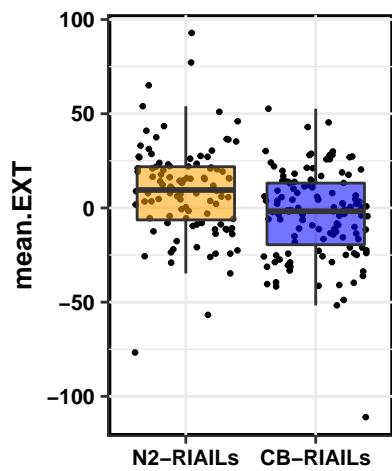
### NIL – Unidirectional



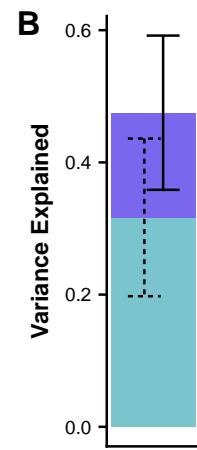
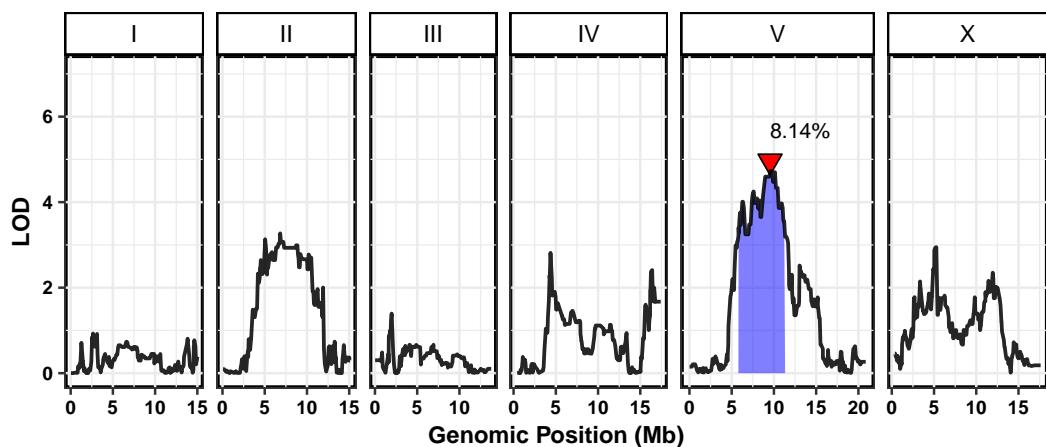
### CSS – No parental diff.



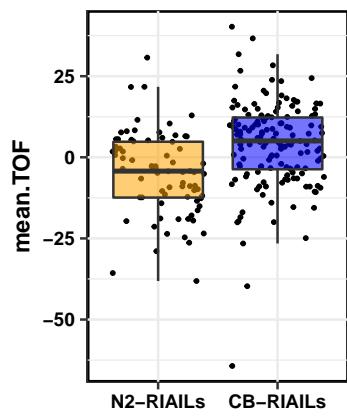
### X:5152523



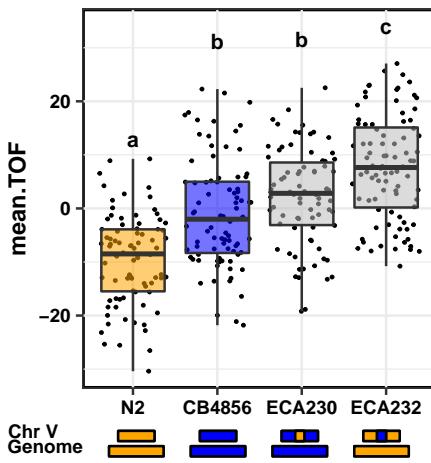
### A paraquat.mean.TOF



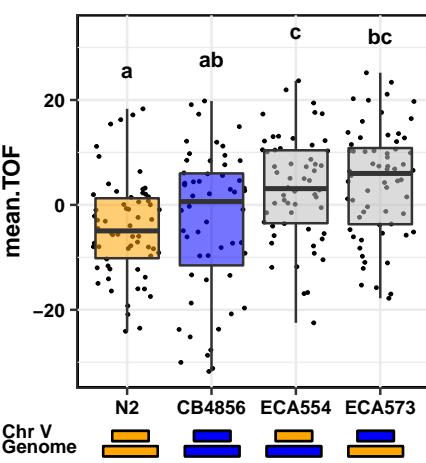
### C V:9542083



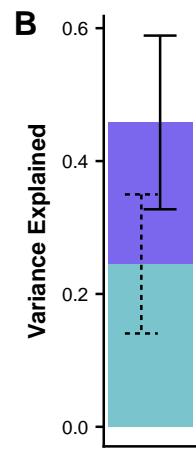
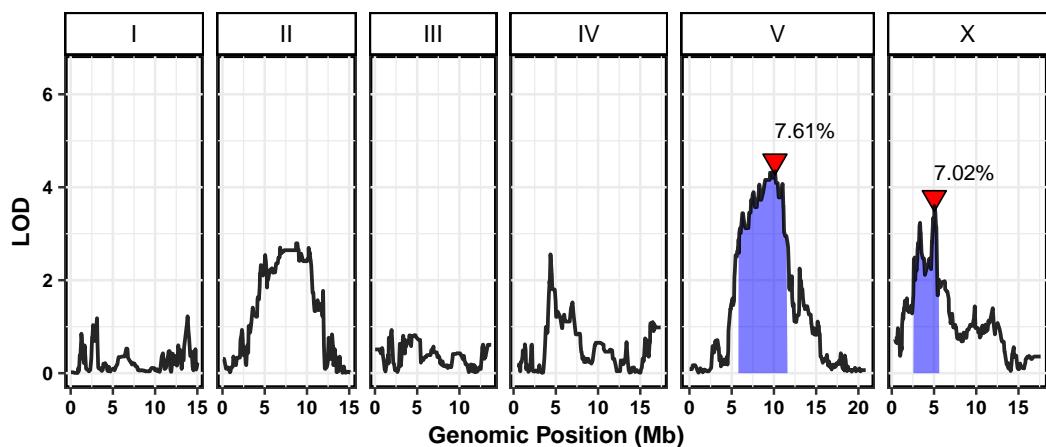
### NIL – Unidirectional



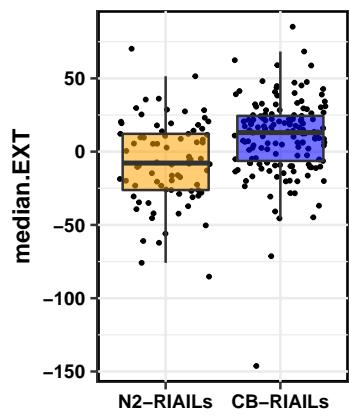
### CSS – No parental diff.



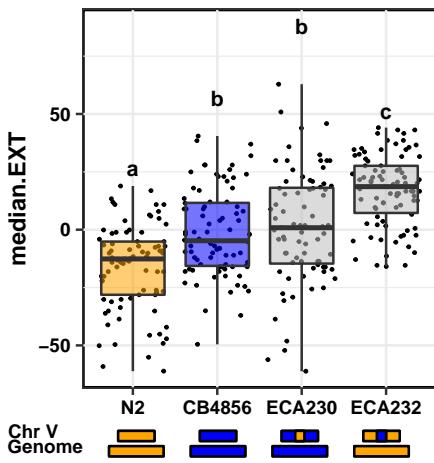
### A paraquat.median.EXT



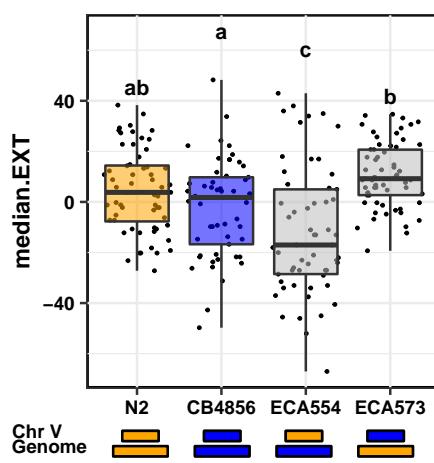
### C V:10124453



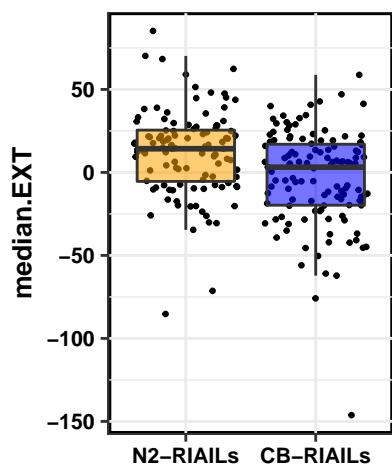
### NIL – Unidirectional



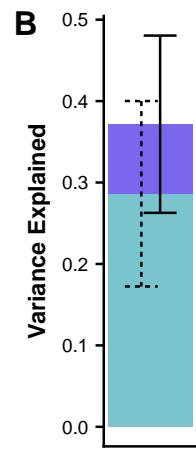
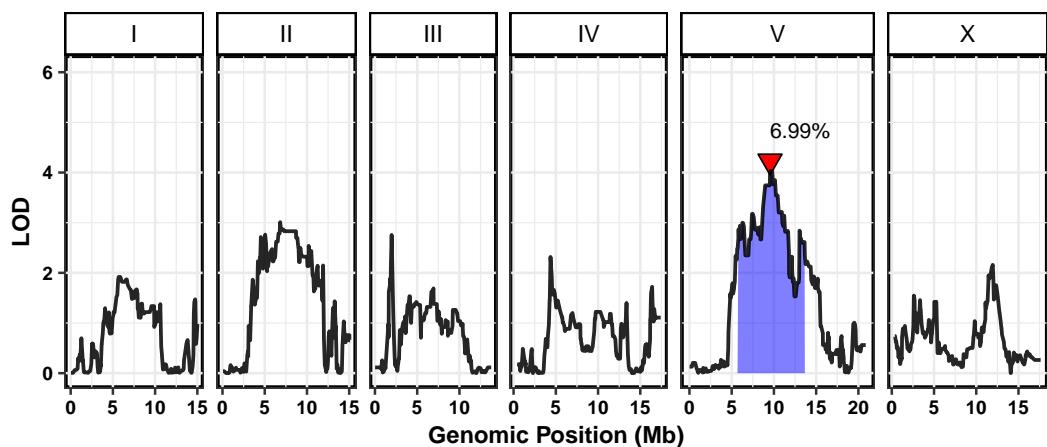
### CSS – No parental diff.



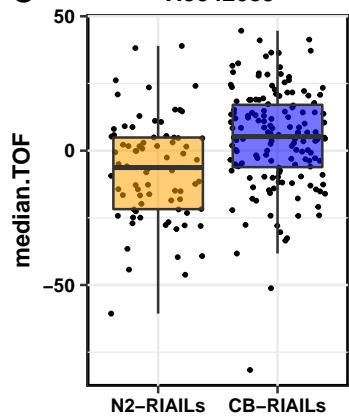
### X:5033476



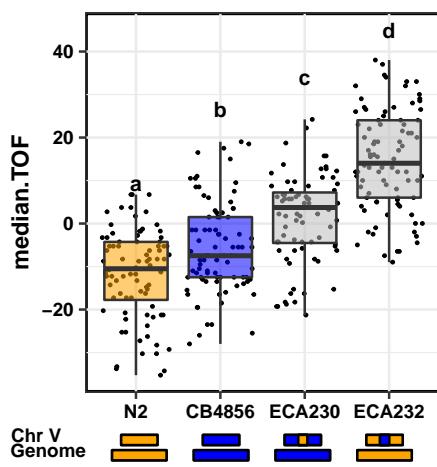
### A paraquat.median.TOF



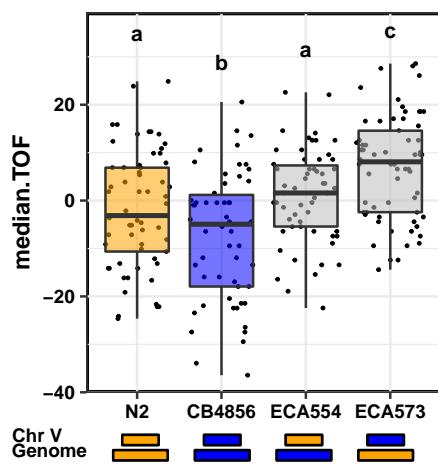
### C V:9542083



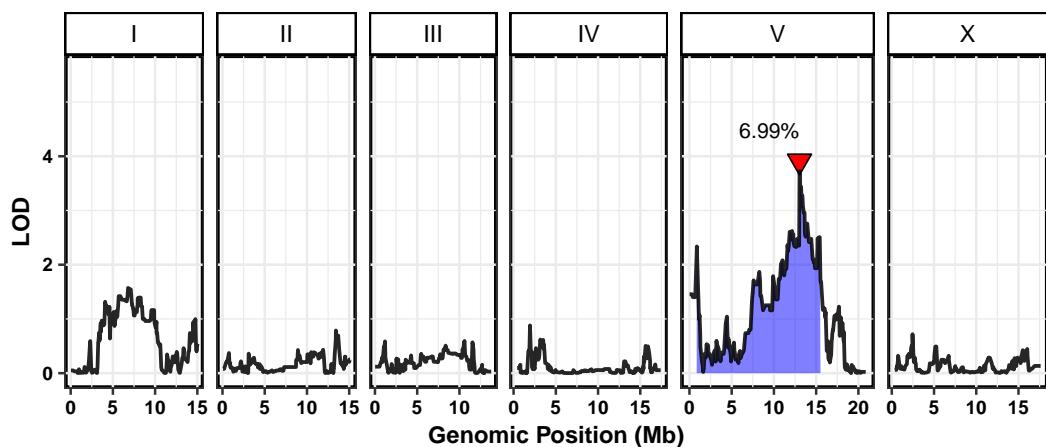
### NIL – Bidirectional



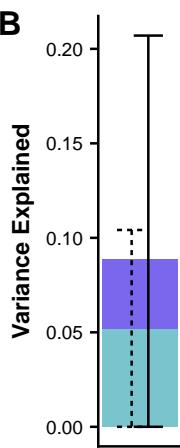
### CSS – Unidirectional



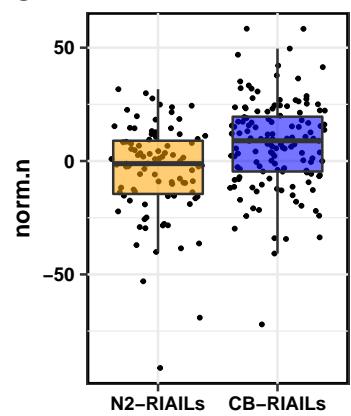
### A paraquat.norm.n



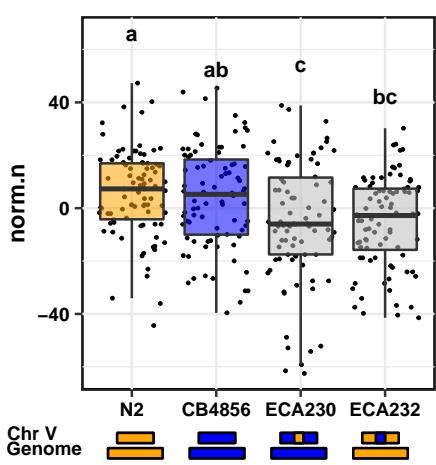
### B



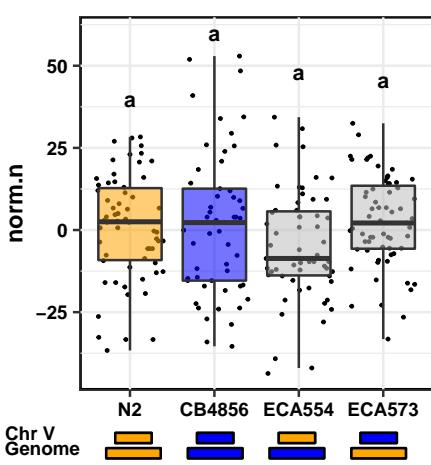
### C V:13031375



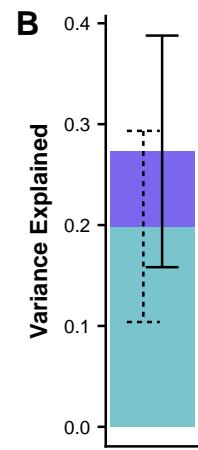
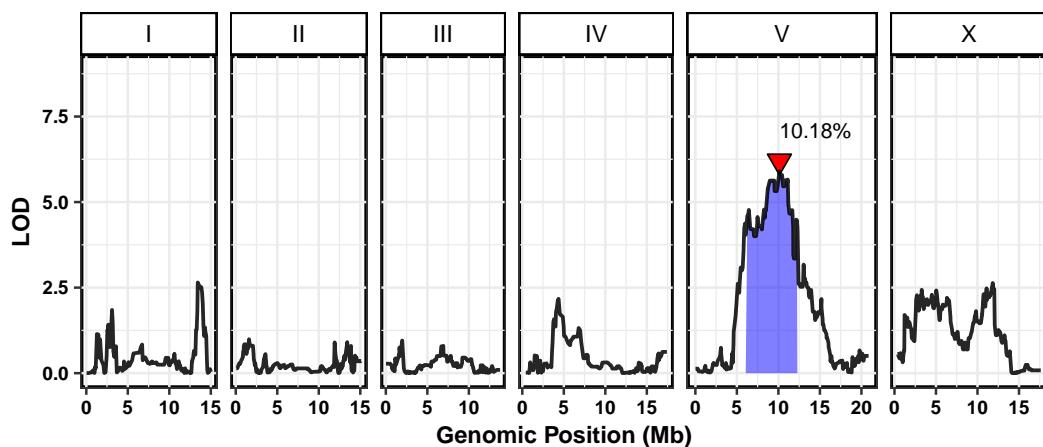
### NIL – No parental diff.



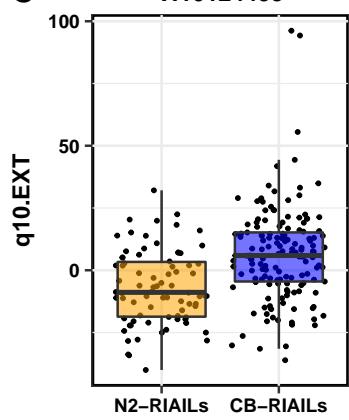
### CSS – No parental diff.



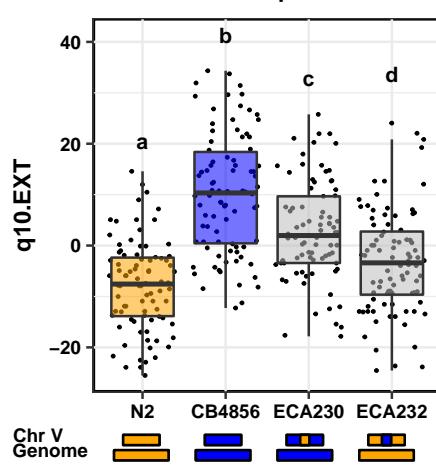
### A paraquat.q10.EXT



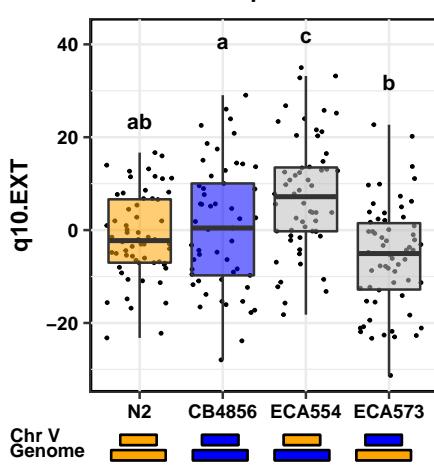
### C V:10124453

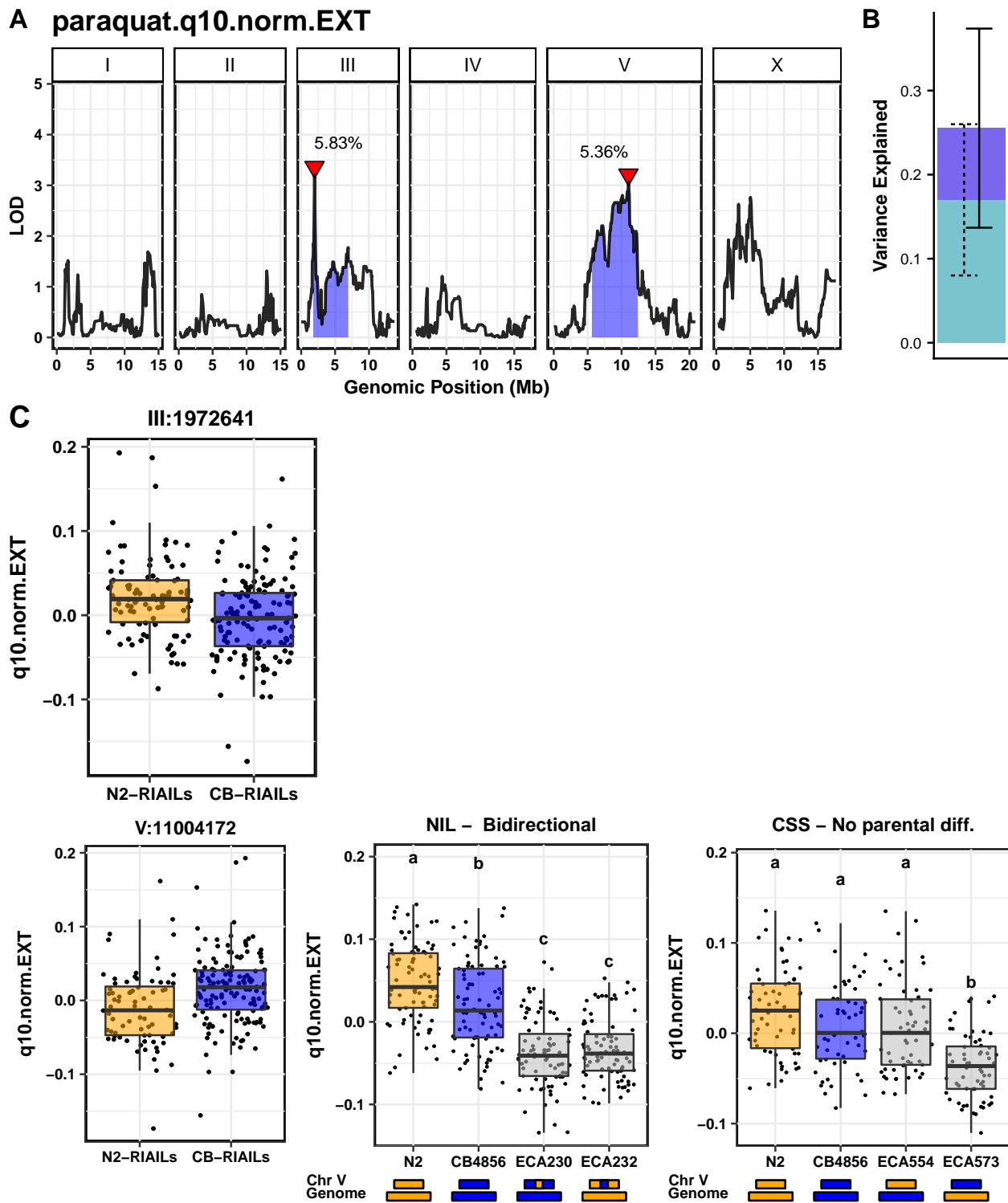


### NIL – Recapitulation

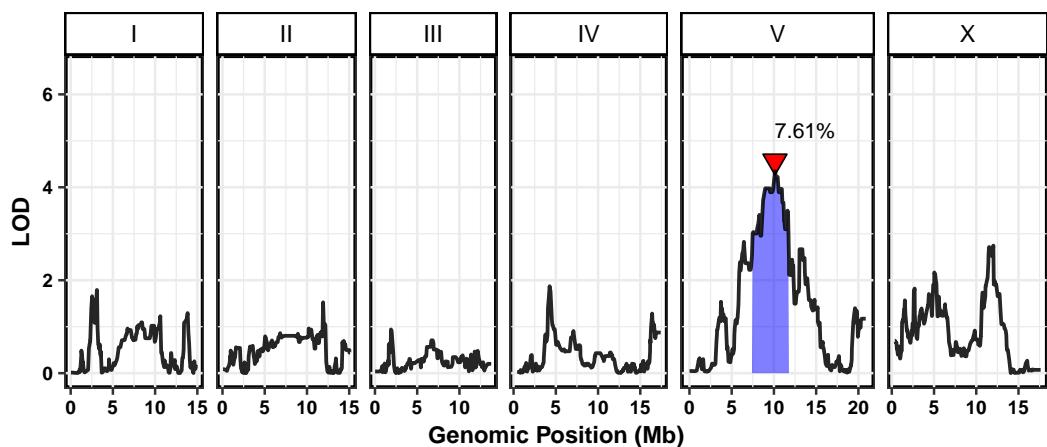


### CSS – No parental diff.

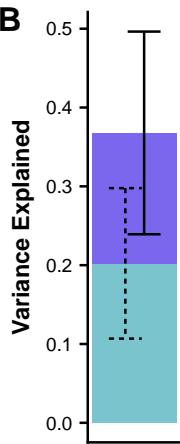




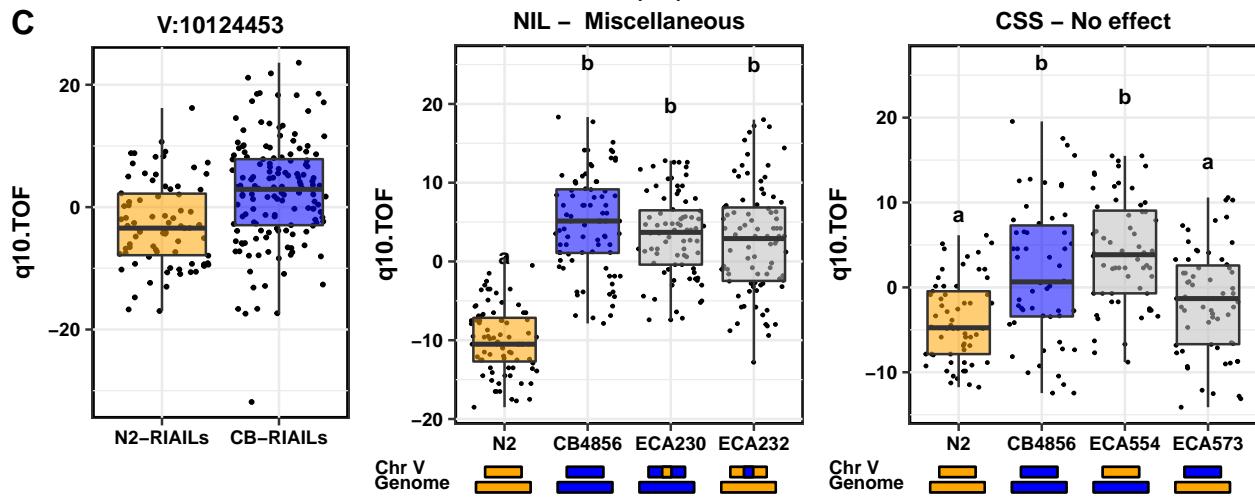
### A paraquat.q10.TOF



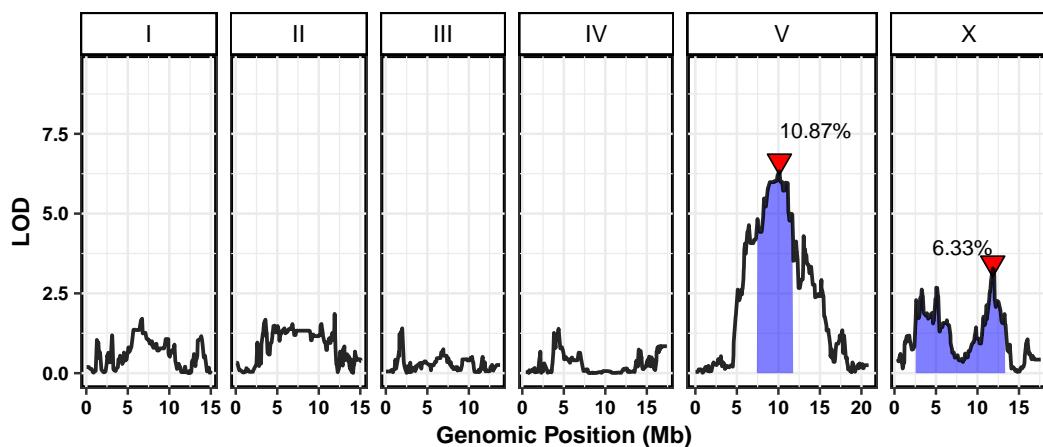
B



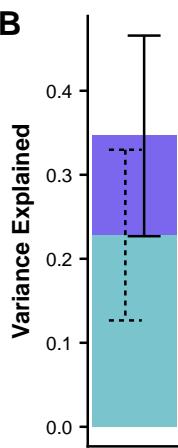
C



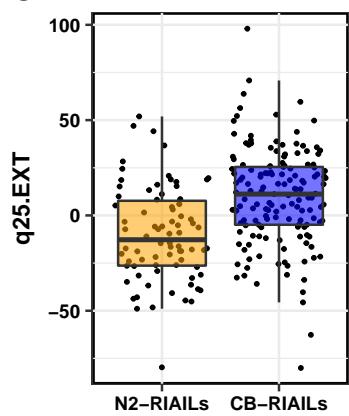
### A paraquat.q25.EXT



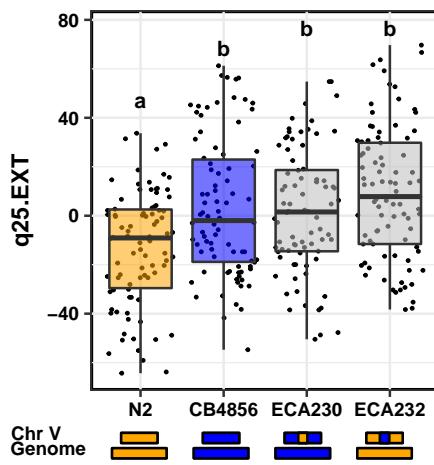
### B



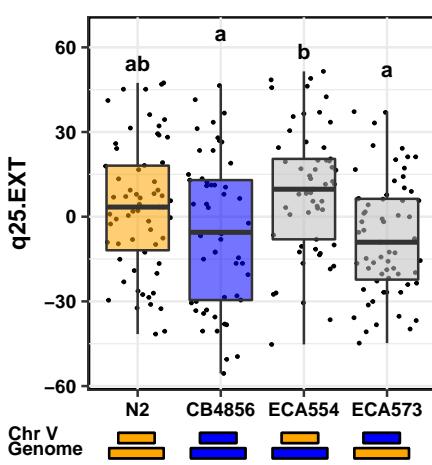
### C V:10124453



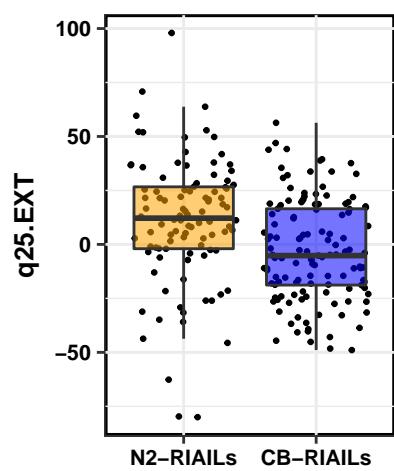
### NIL – Miscellaneous

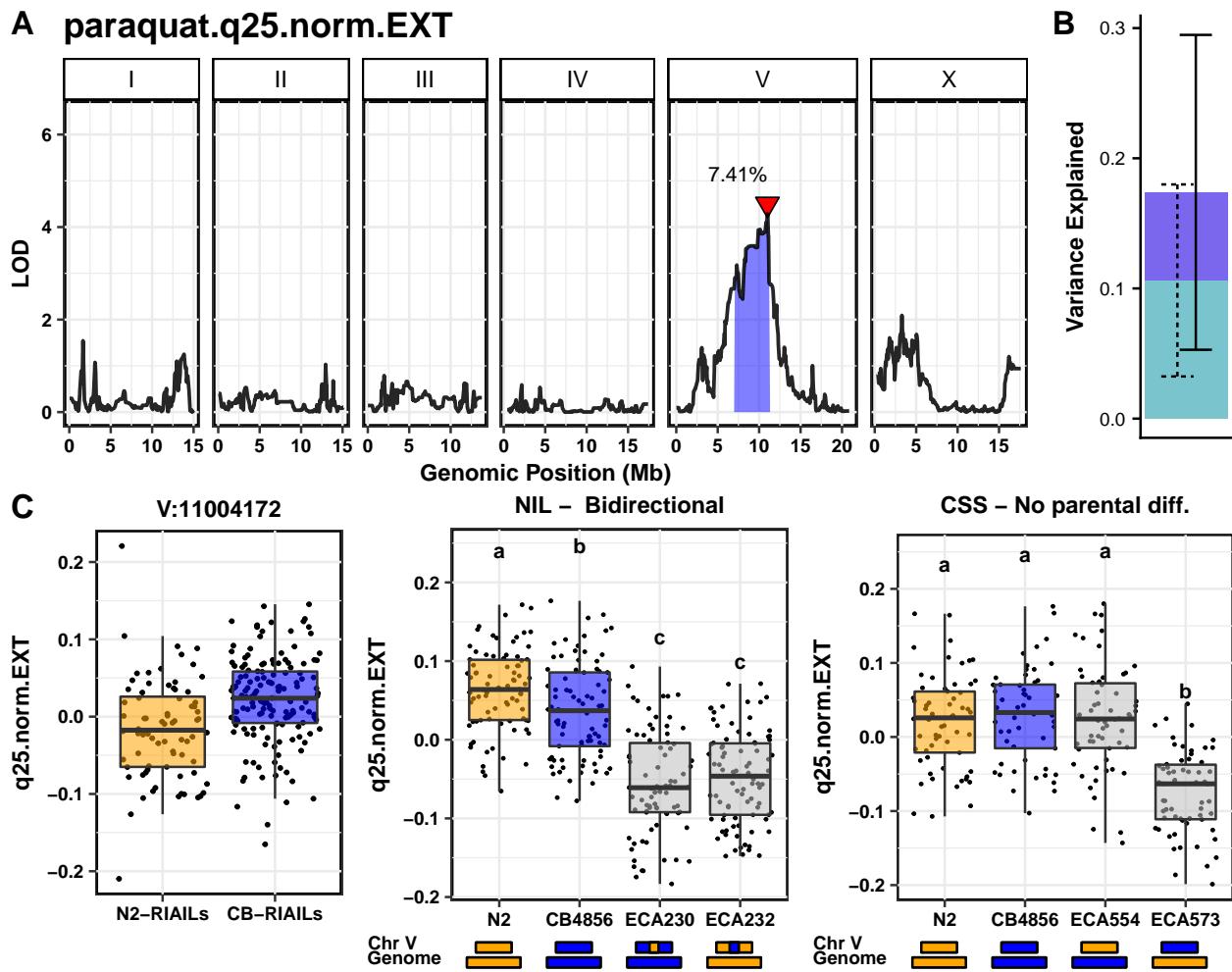


### CSS – No parental diff.

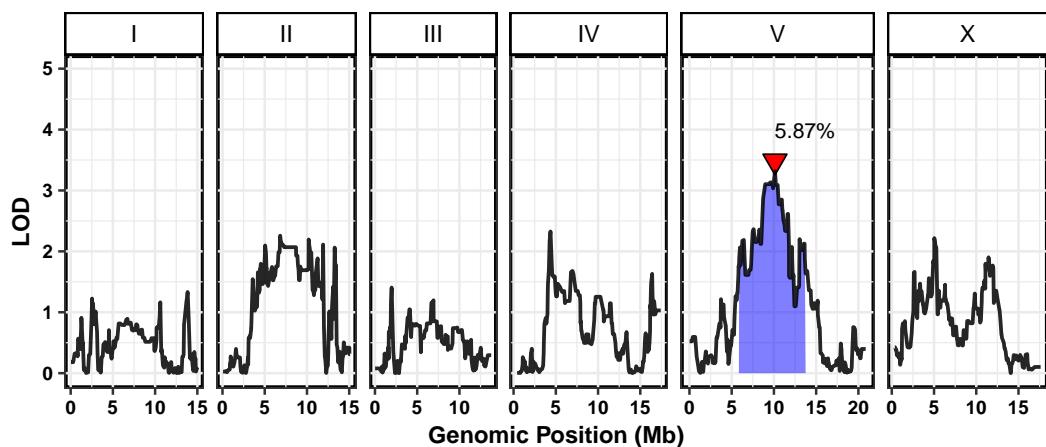


### X:11836735

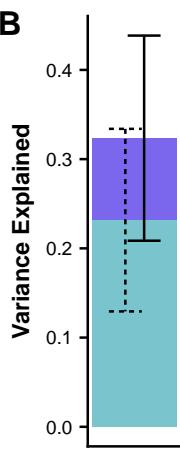




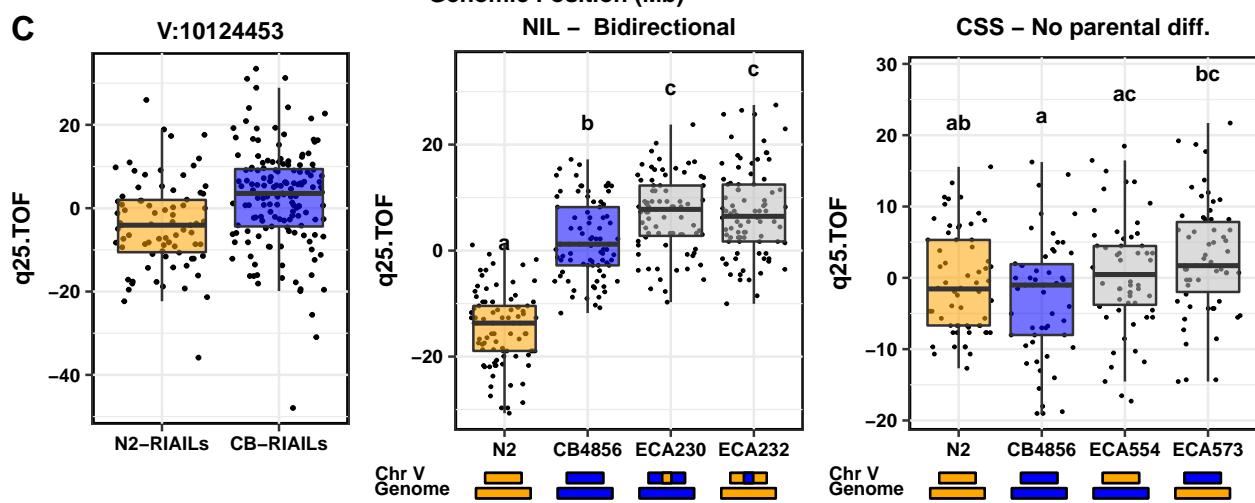
### A paraquat.q25.TOF



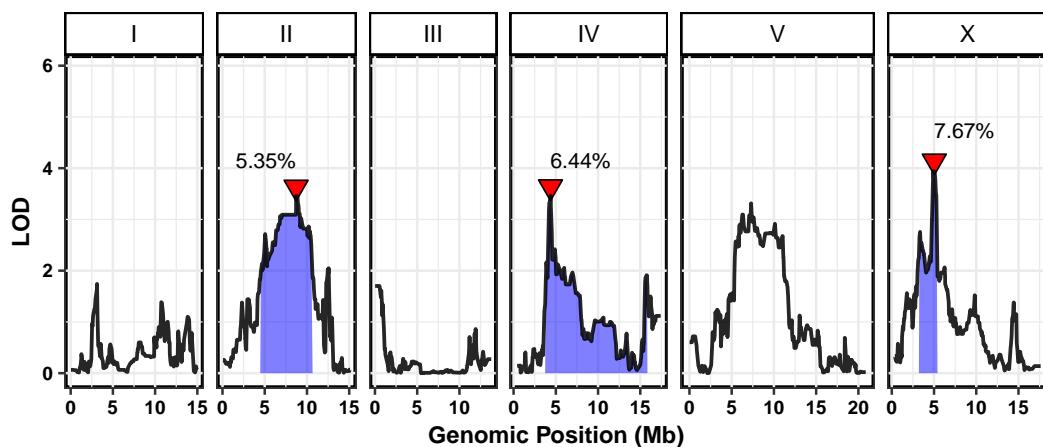
### B



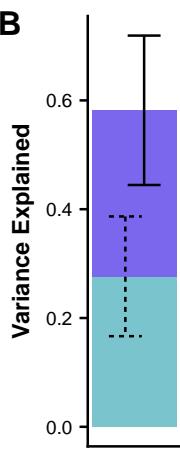
### C



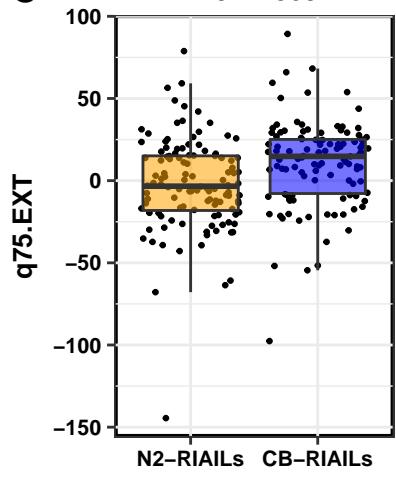
### A paraquat.q75.EXT



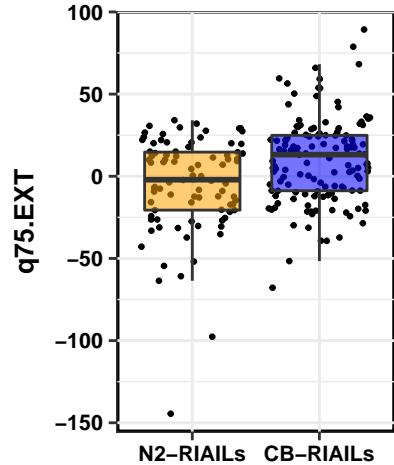
### B

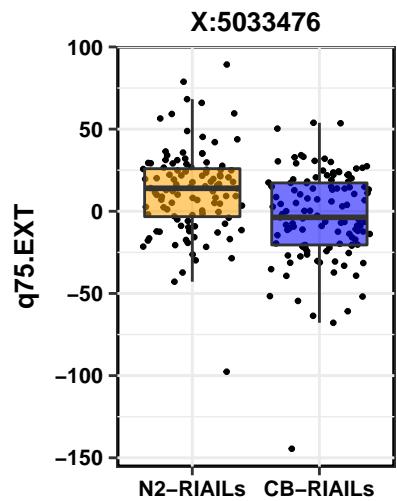


### C II:8712868

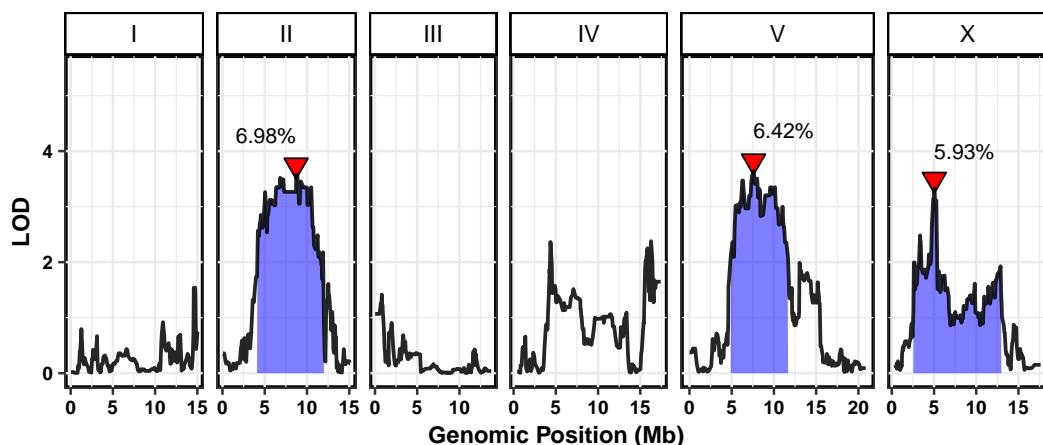


### IV:4369098

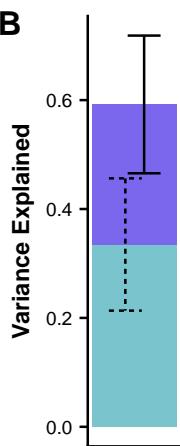




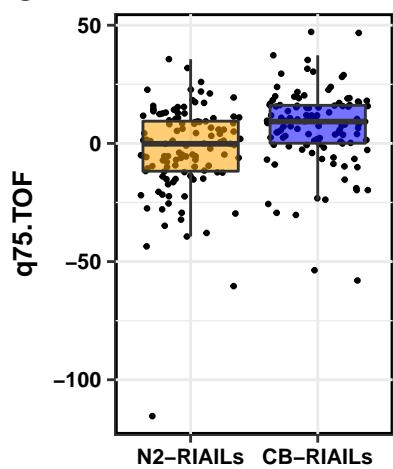
### A paraquat.q75.TOF



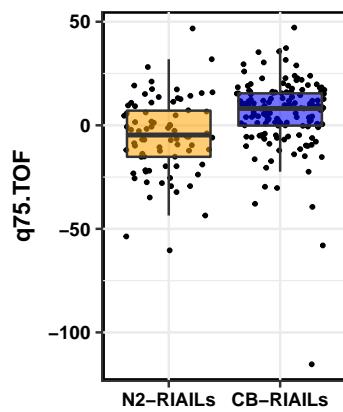
B



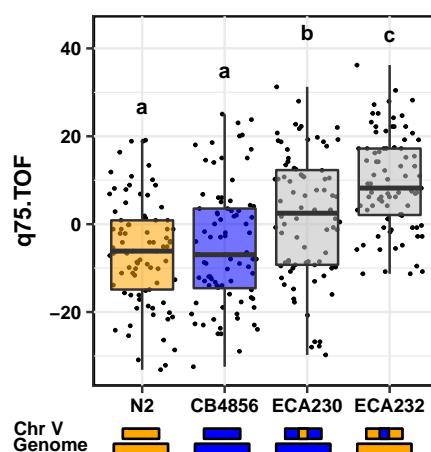
### C II:8712868



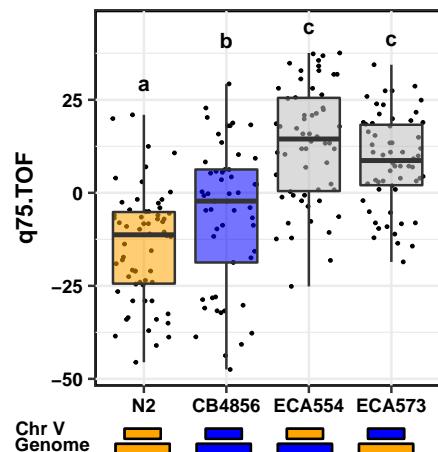
V:7580686

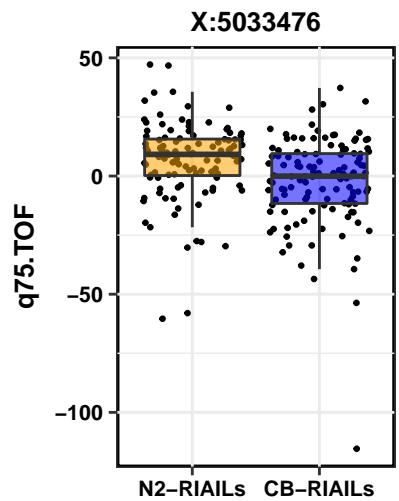


NIL – No parental diff.

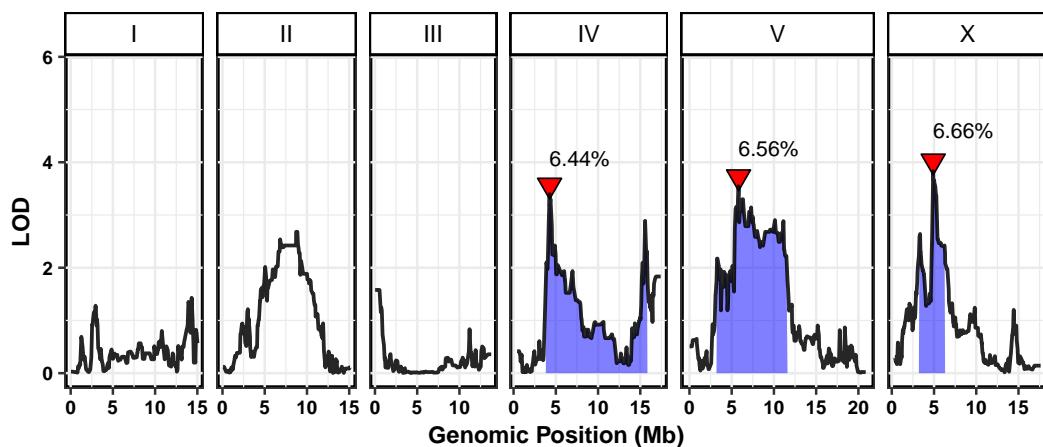


CSS – Bidirectional

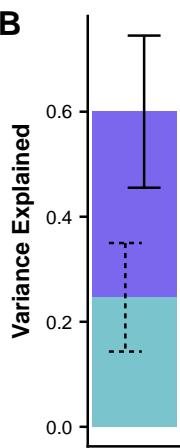




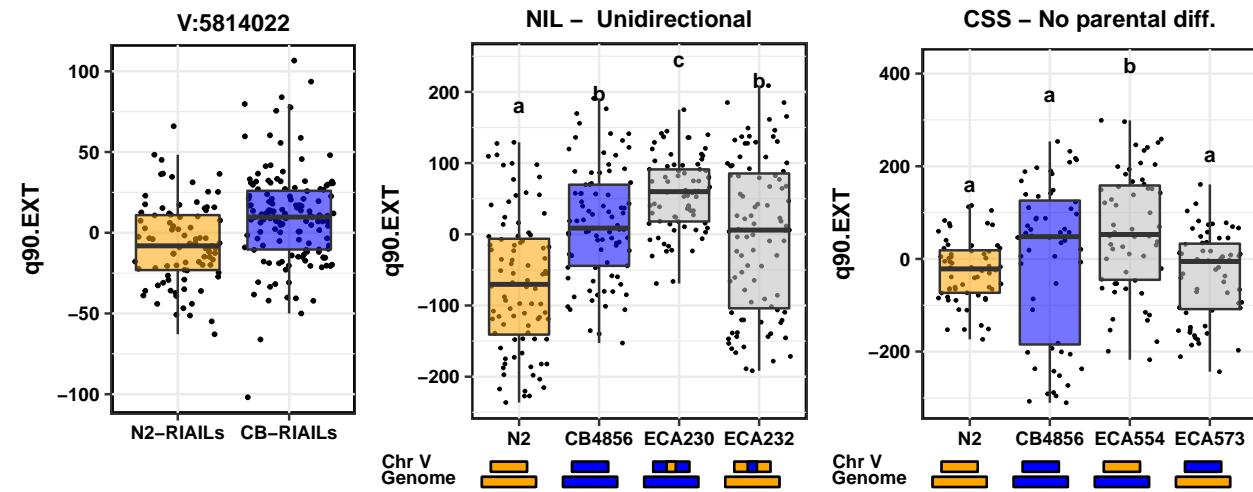
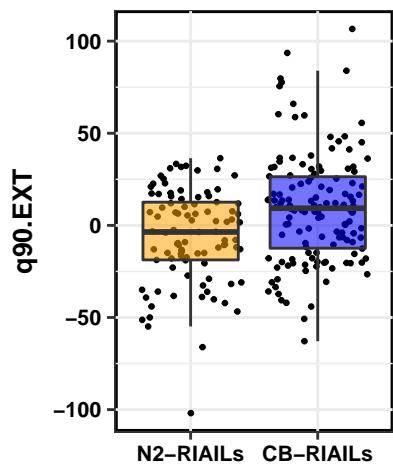
### A paraquat.q90.EXT

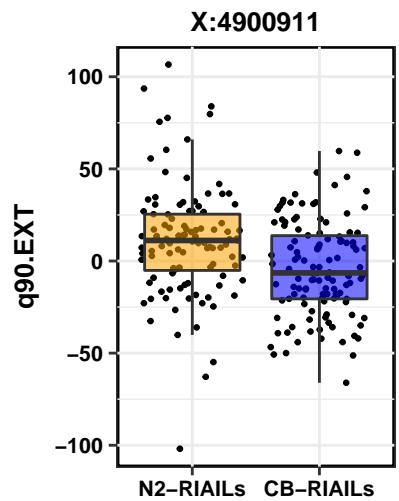


### B

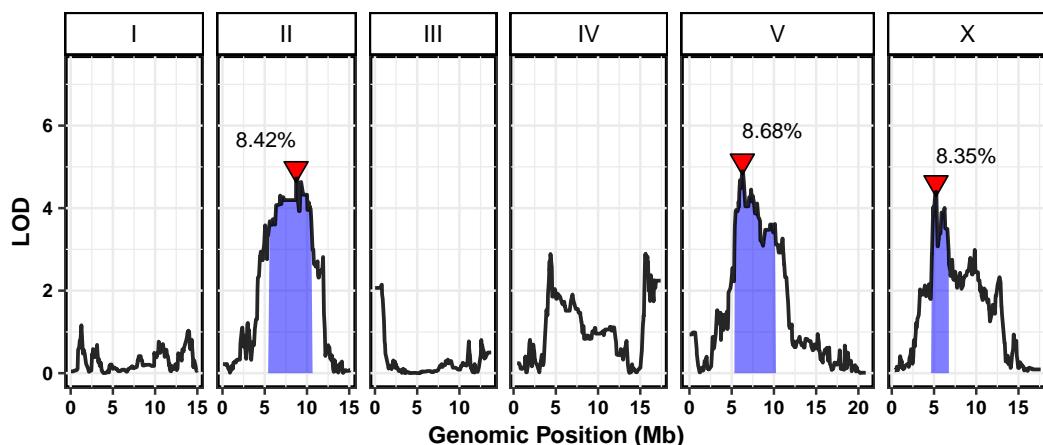


### C IV:4265791

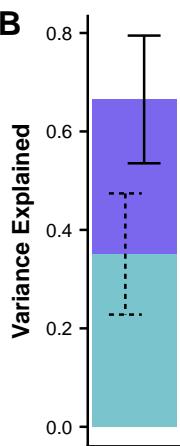




### A paraquat.q90.TOF

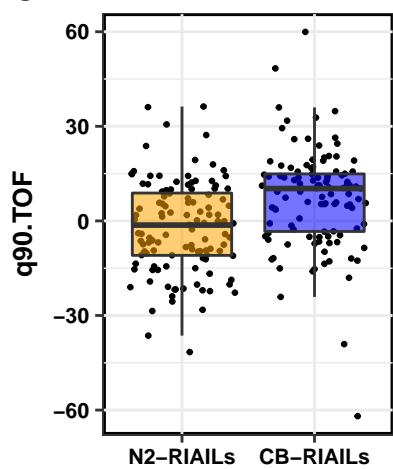


B

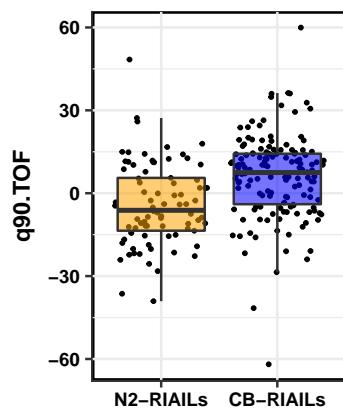


### C

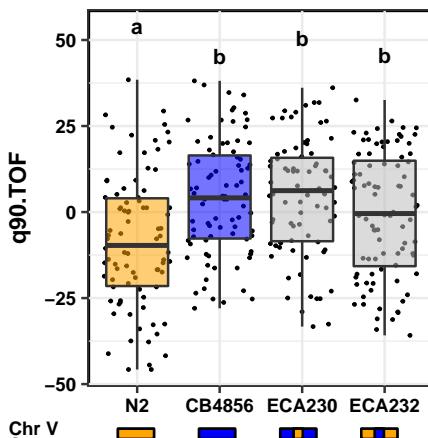
II:8712868



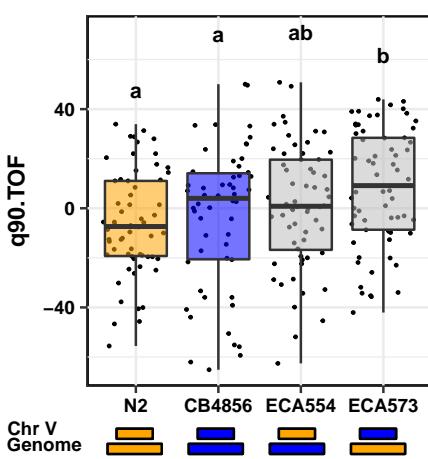
V:6259765

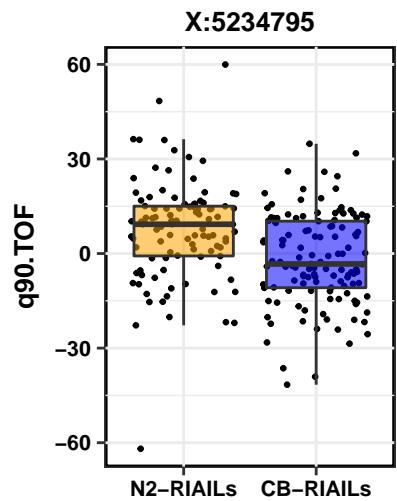


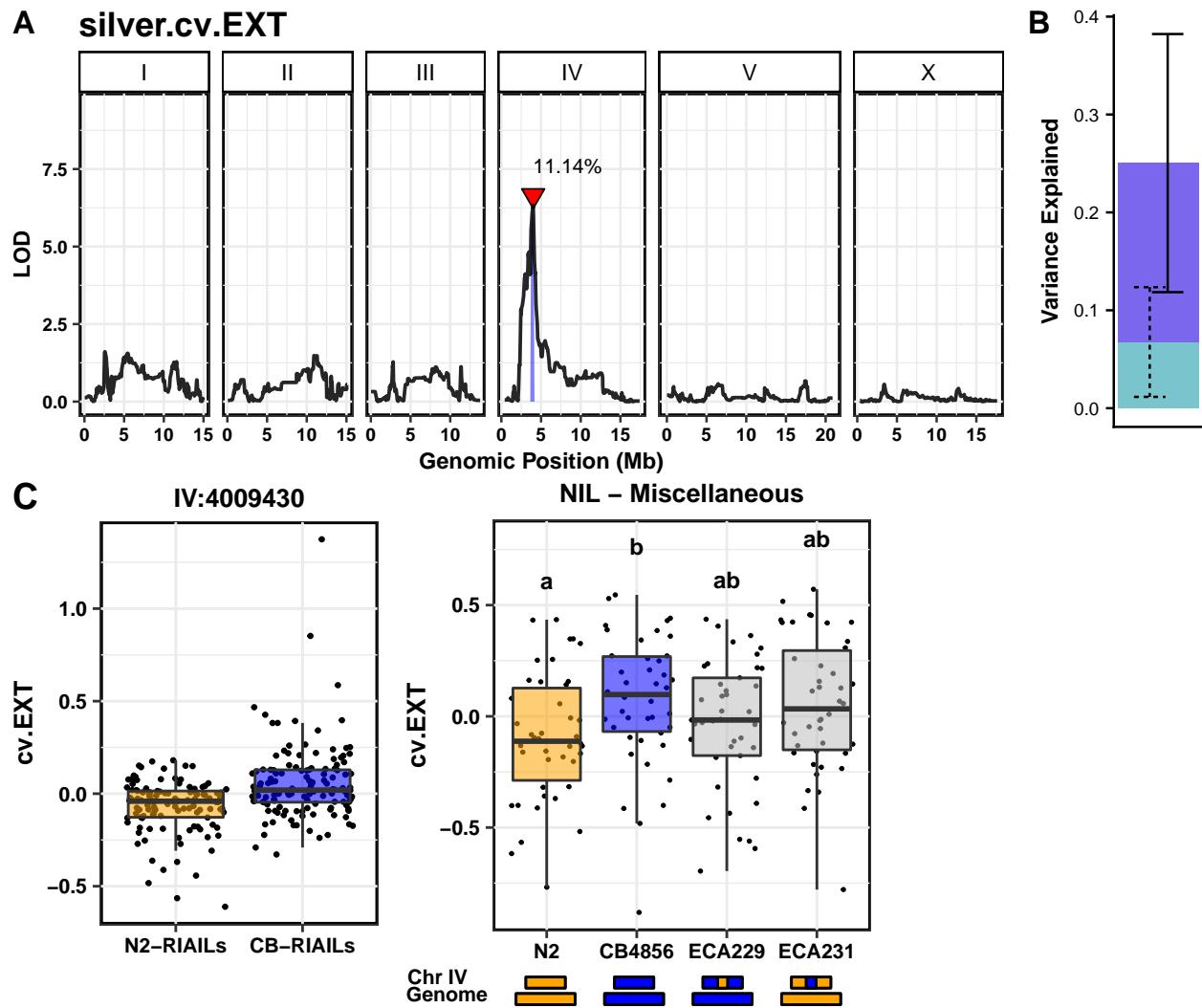
NIL – Miscellaneous



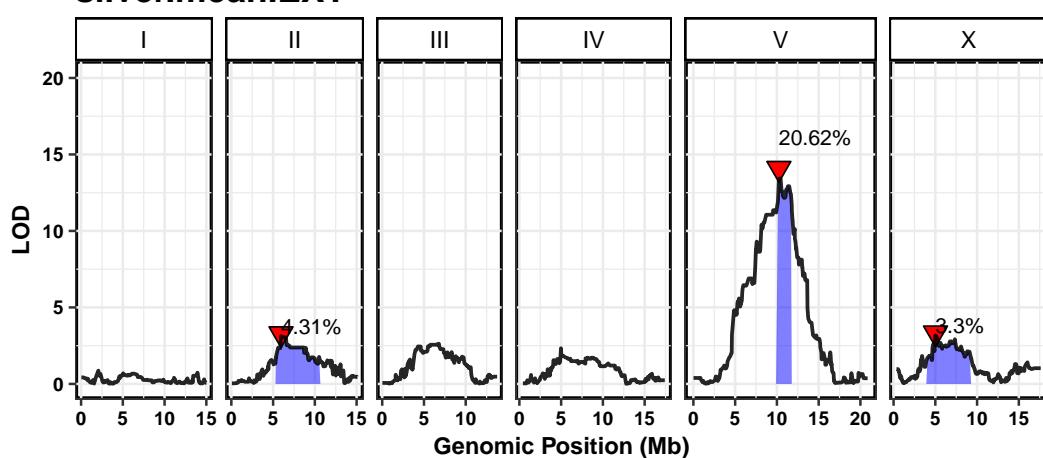
CSS – No parental diff.



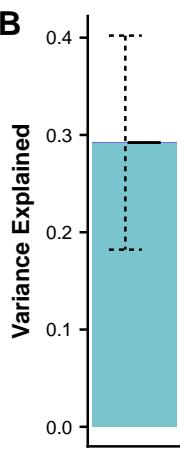




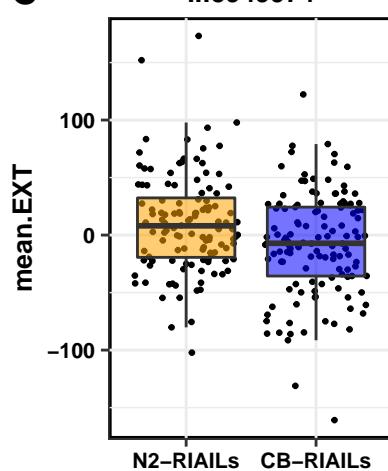
### A silver.mean.EXT



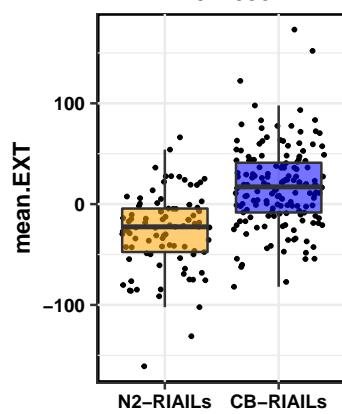
### B



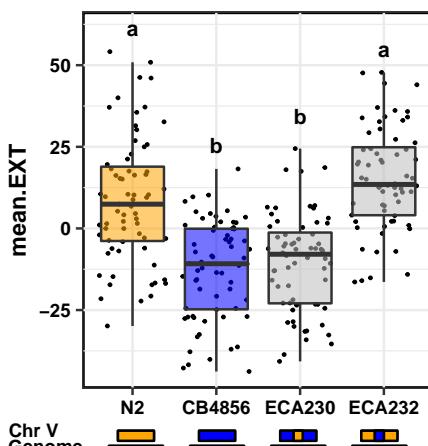
### C



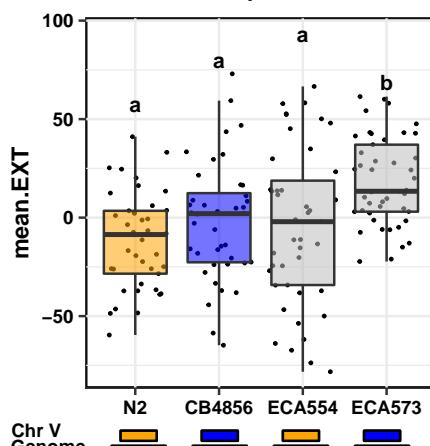
V:10240582

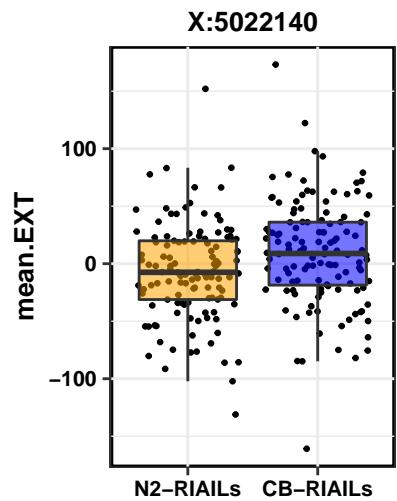


NIL – No effect

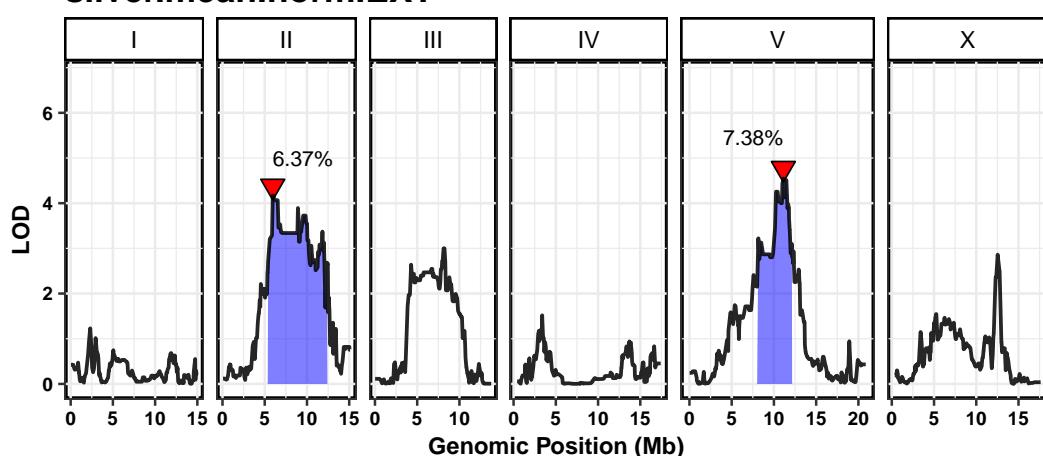


CSS – No parental diff.

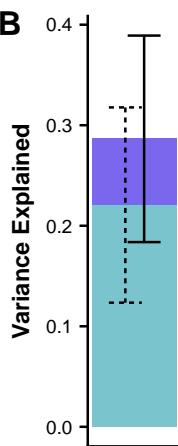




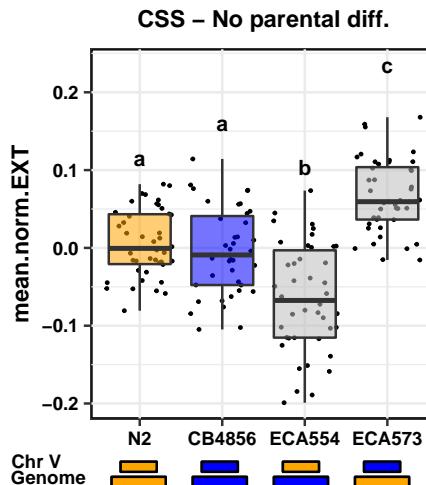
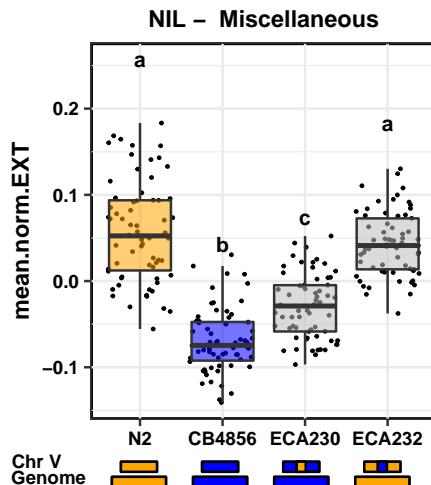
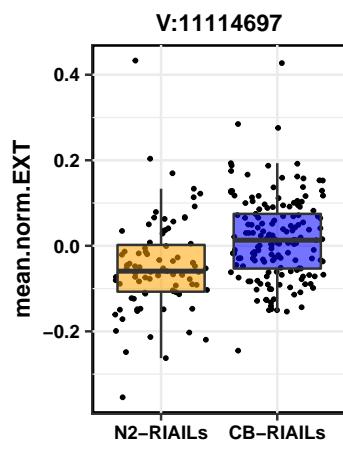
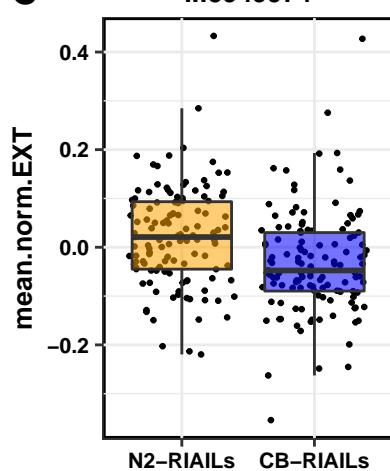
### A silver.mean.norm.EXT

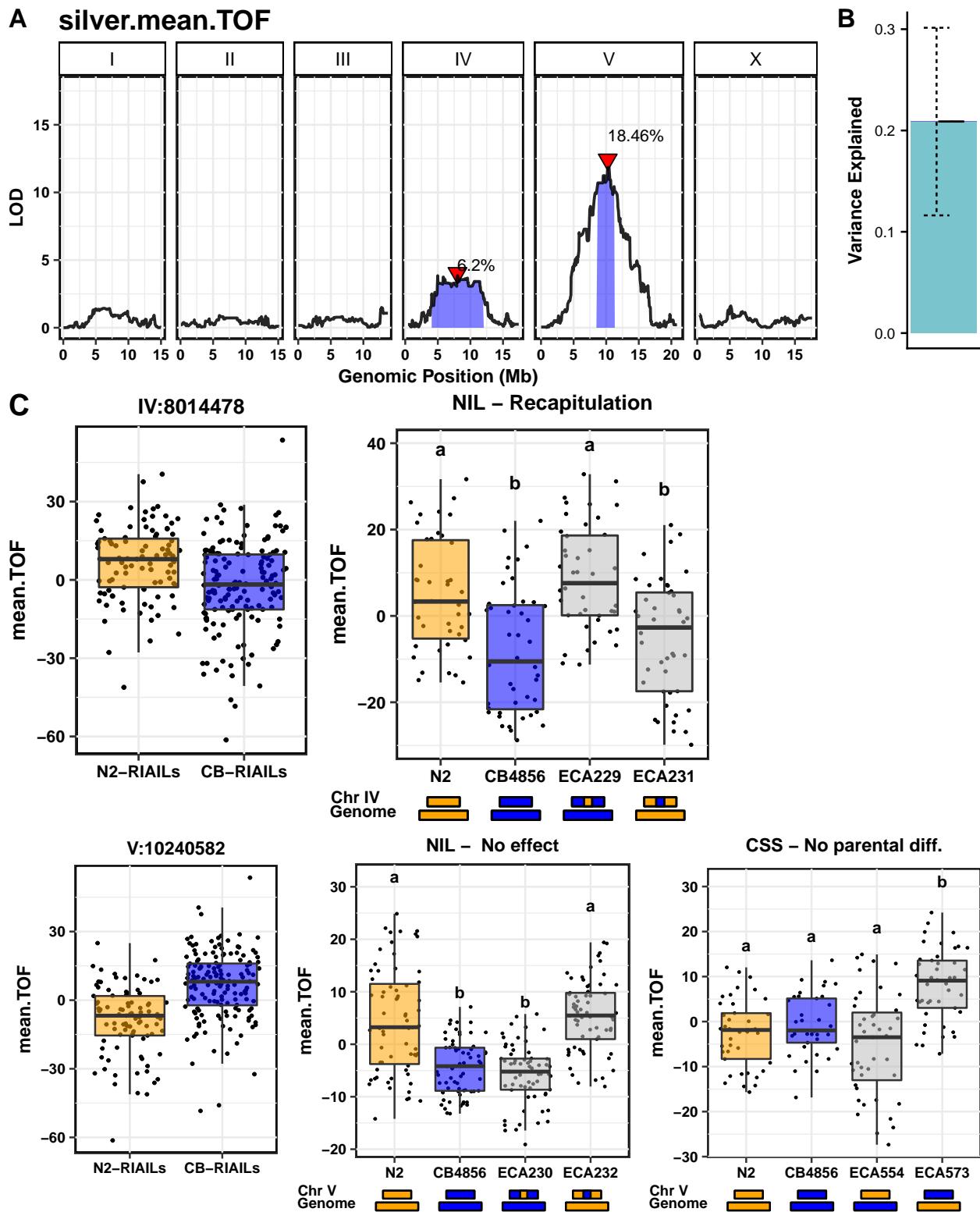


### B

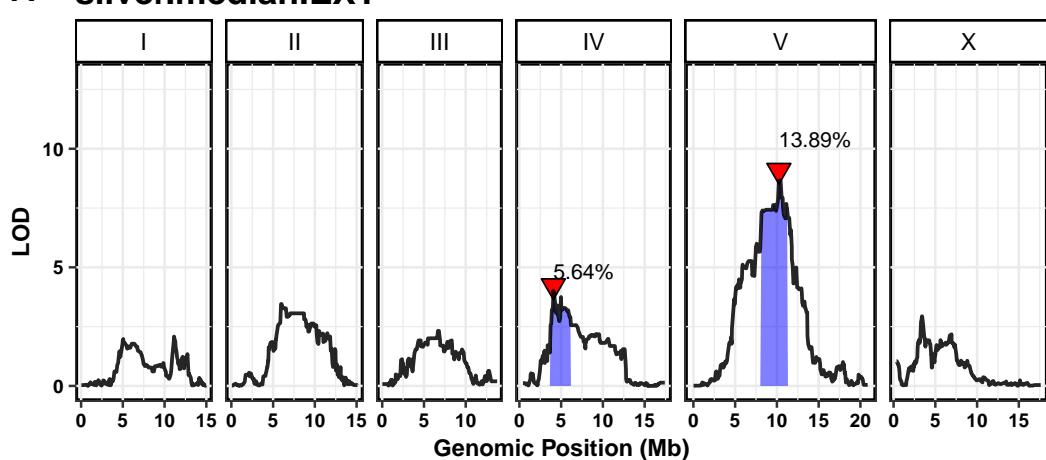


### C

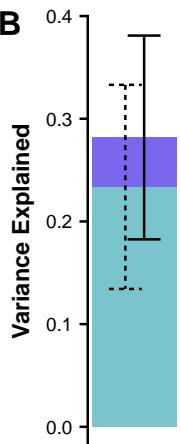




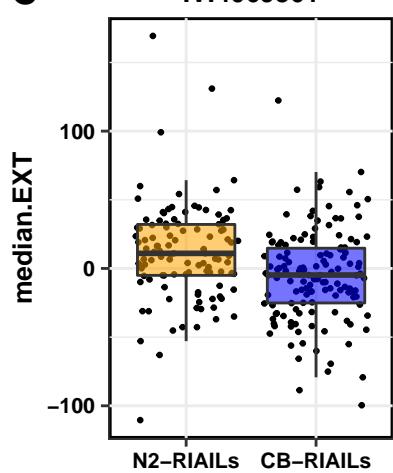
### A silver.median.EXT



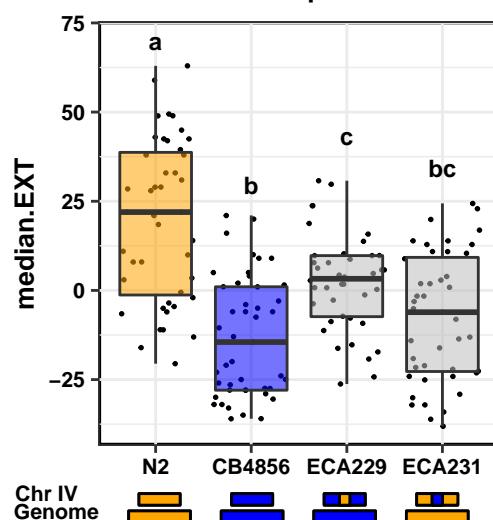
### B



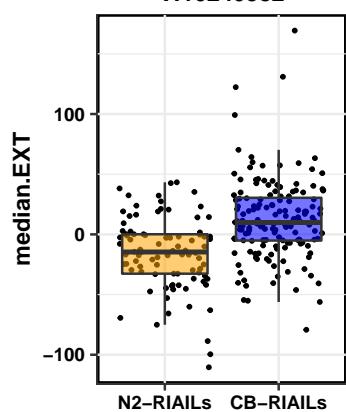
### C IV:4069361



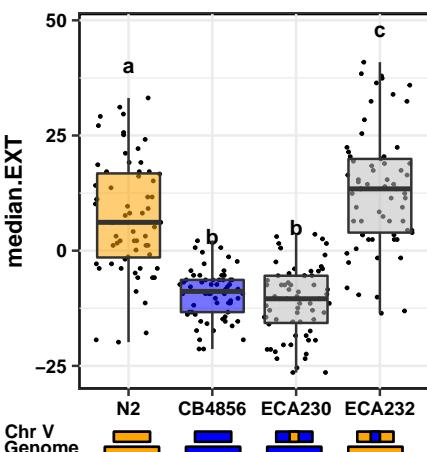
### NIL – Recapitulation



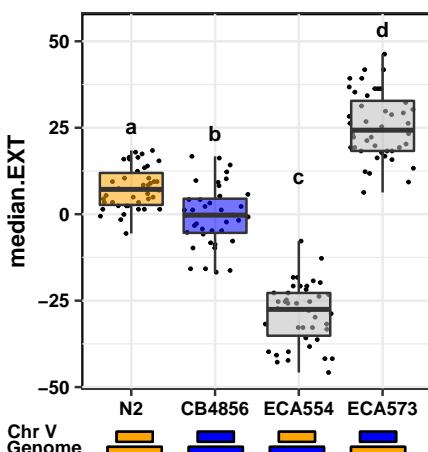
### V:10240582

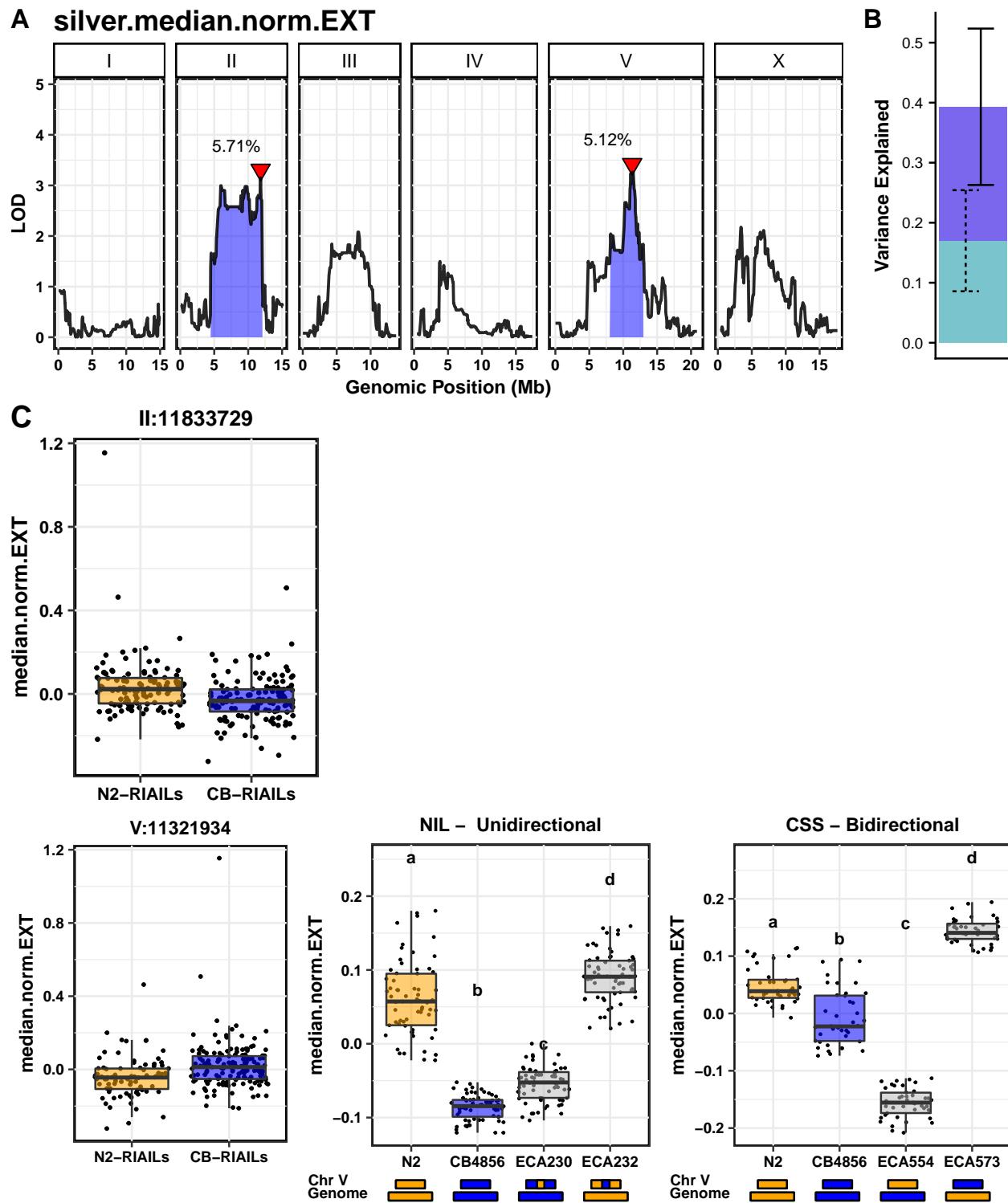


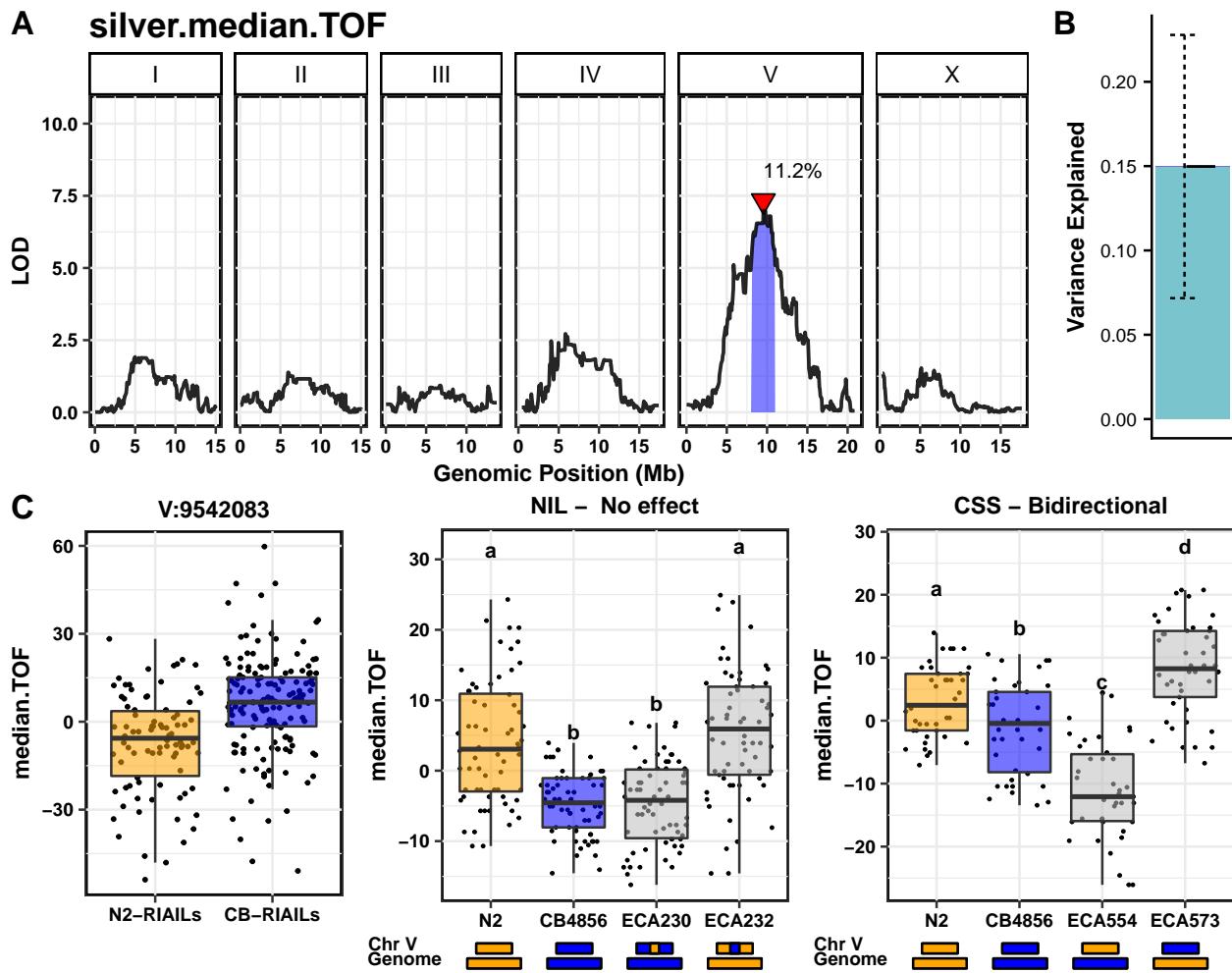
### NIL – Unidirectional

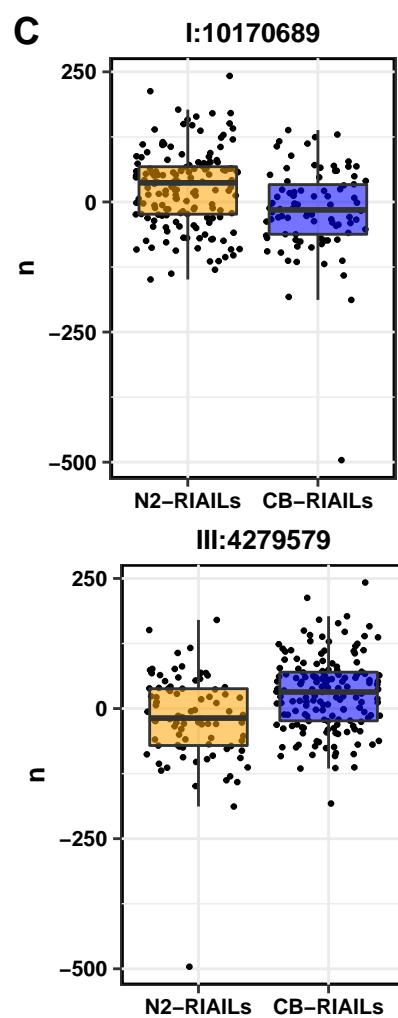
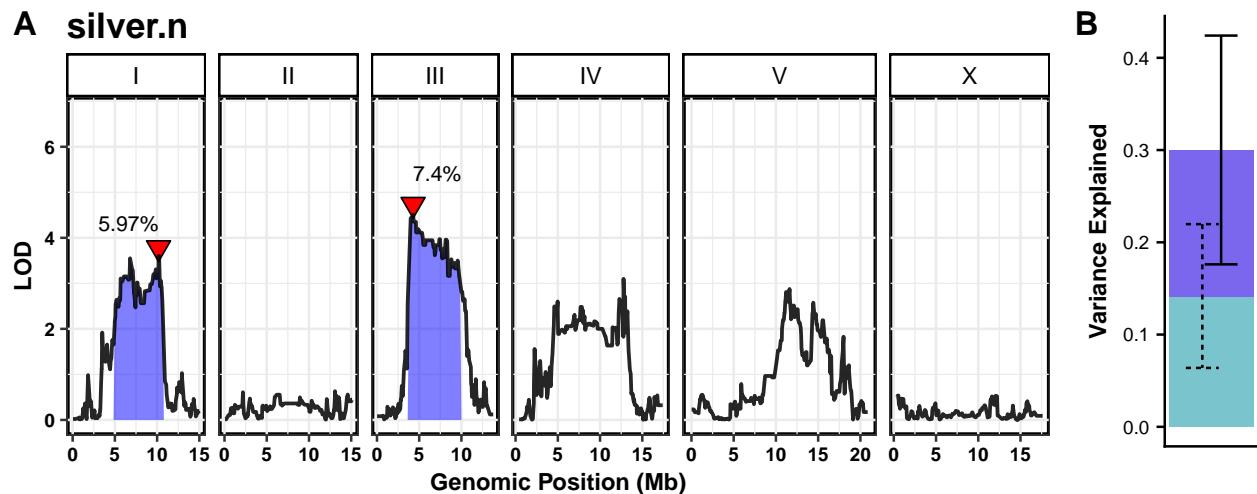


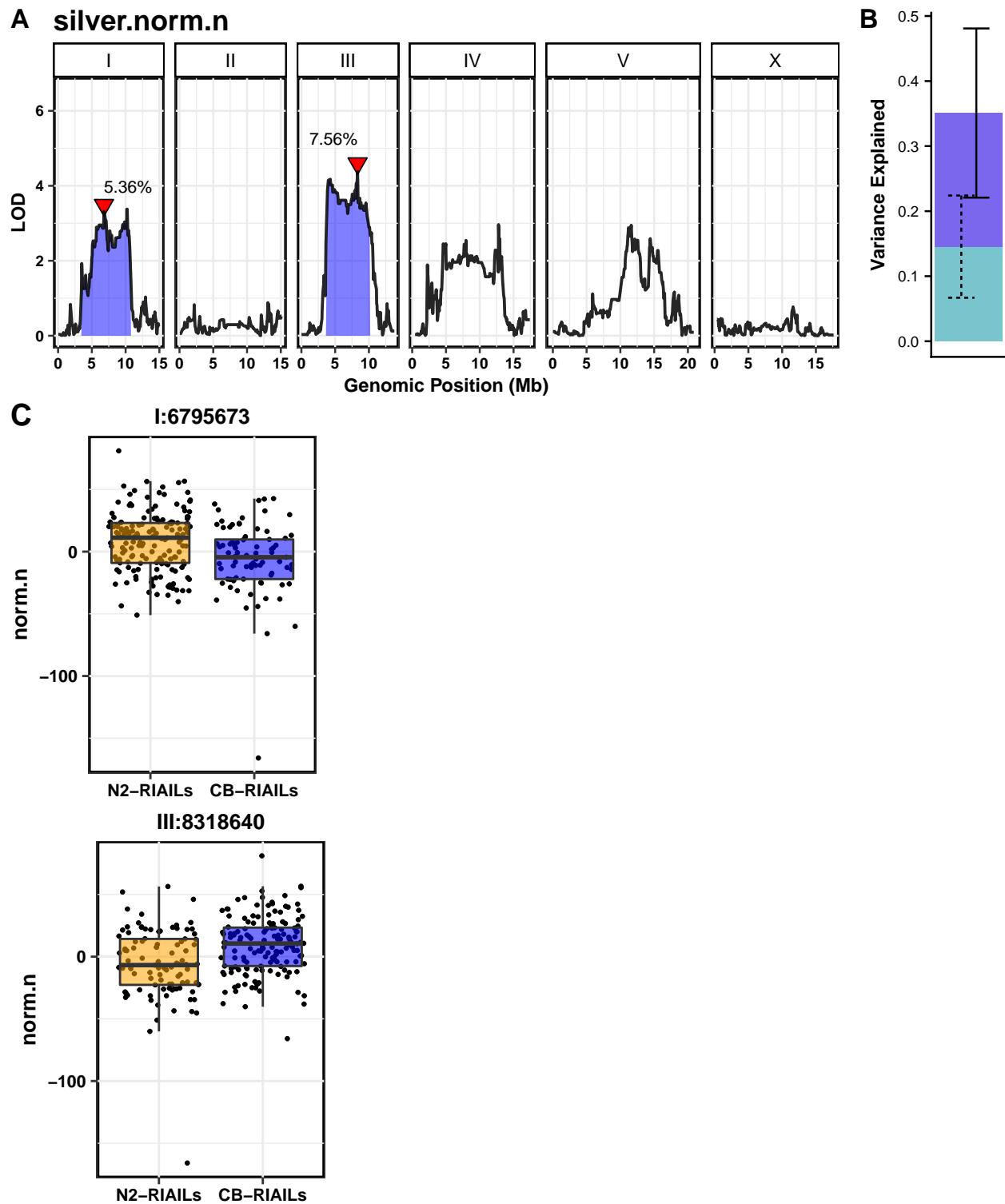
### CSS – Bidirectional



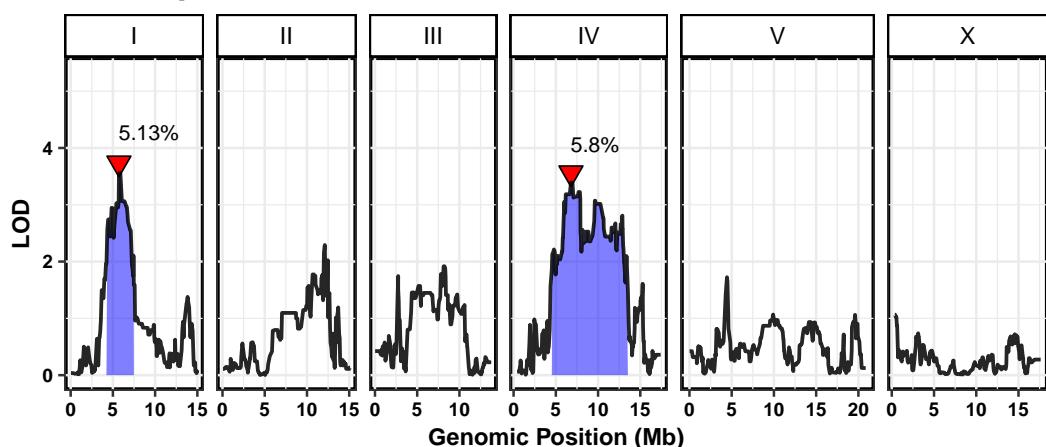




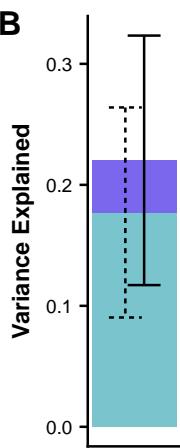




### A silver.q10.EXT

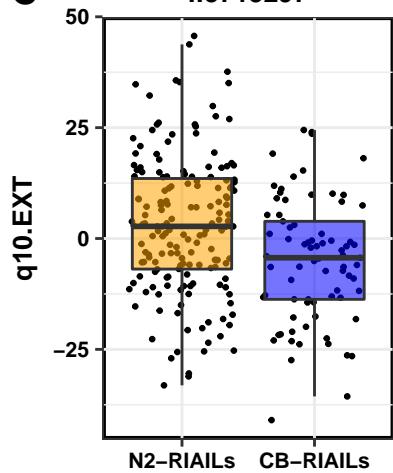


### B

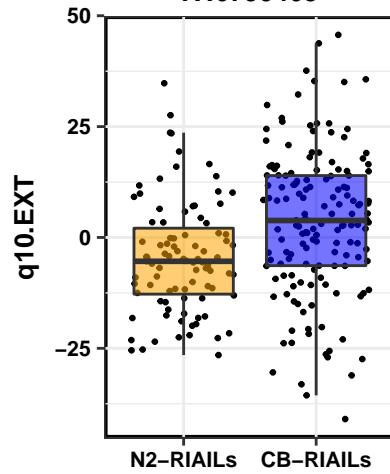


### C

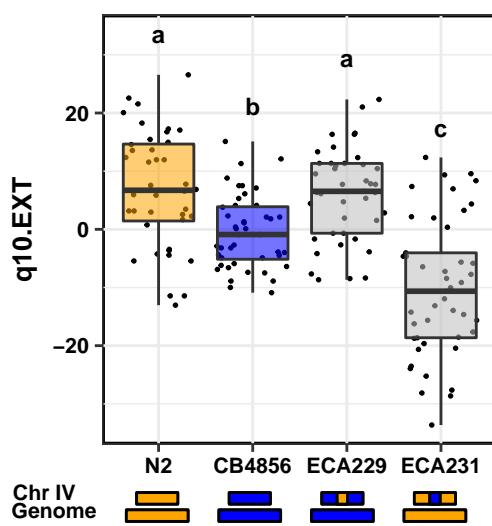
#### I:5715297



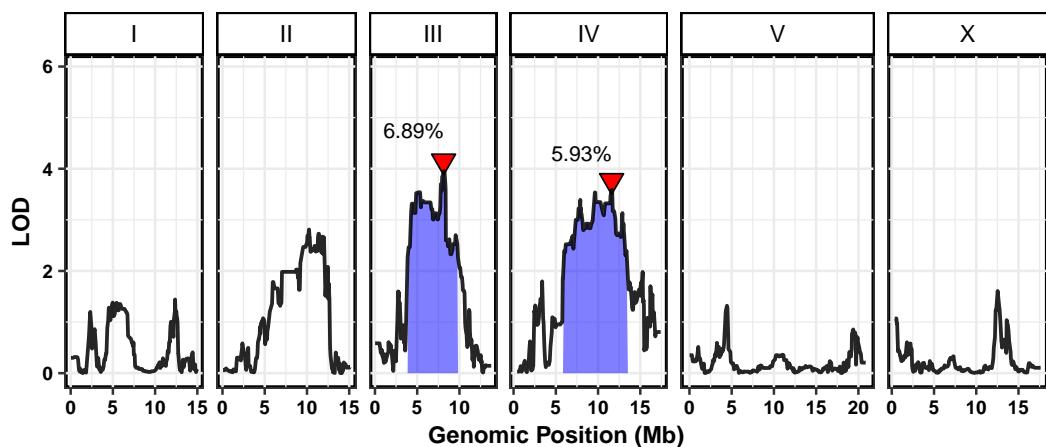
#### IV:6790463



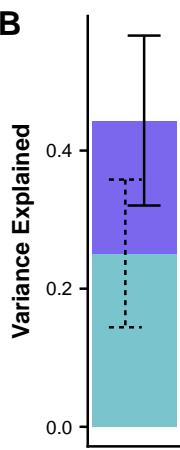
#### NIL – Unidirectional



### A silver.q10.norm.EXT

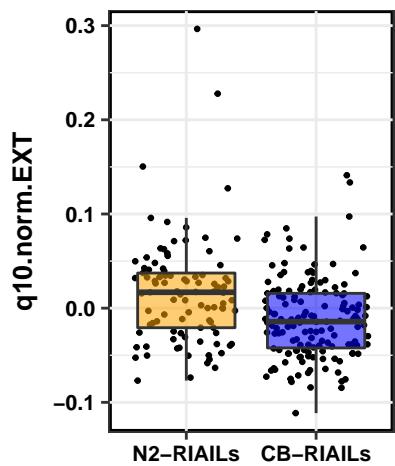


### B

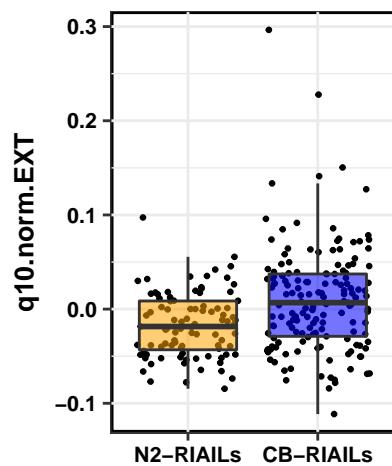


### C

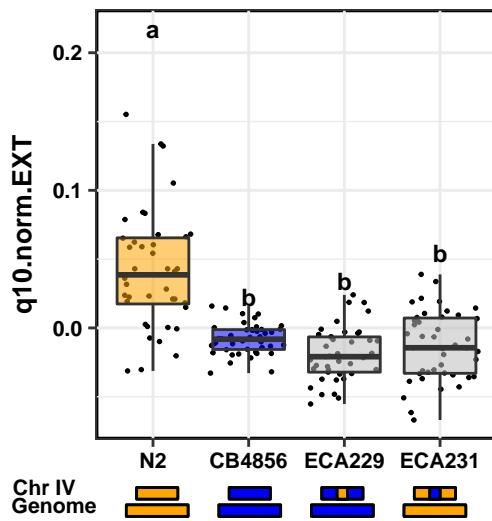
#### III:8126357



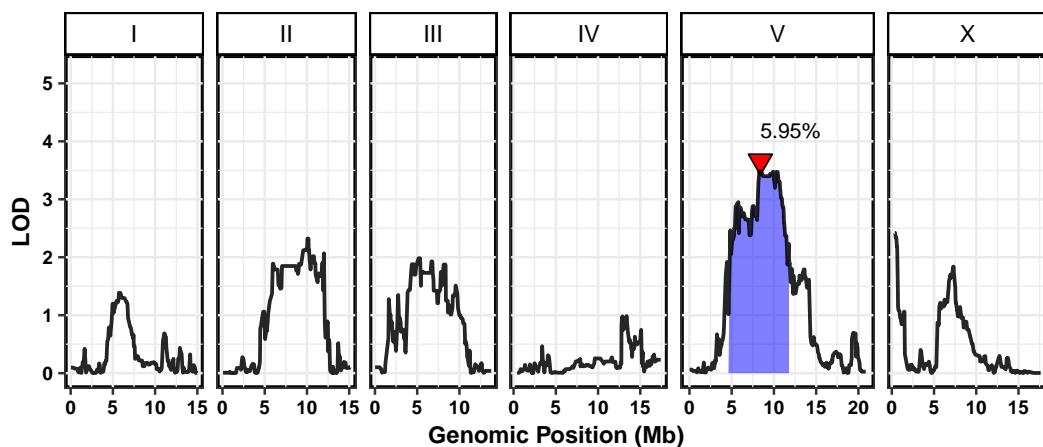
#### IV:11603978



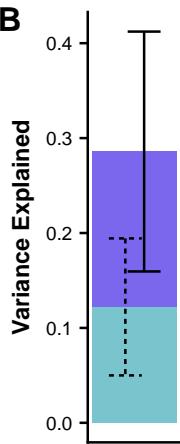
#### NIL – Miscellaneous



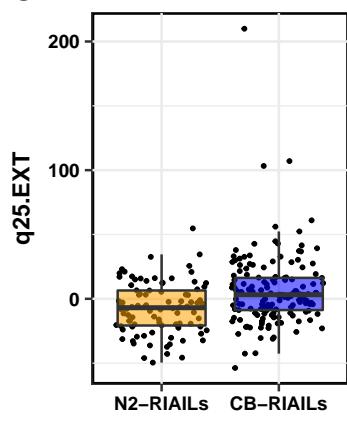
### A silver.q25.EXT



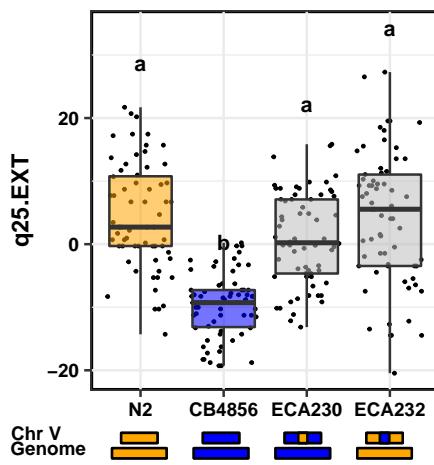
### B



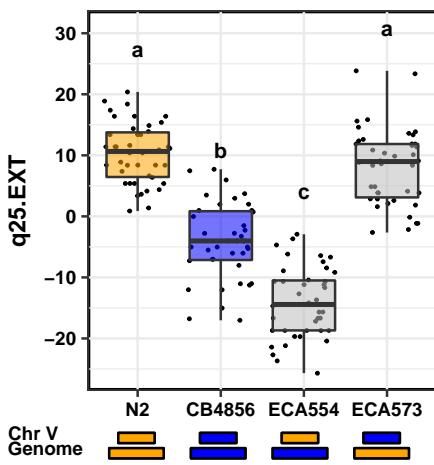
### C V:8398703



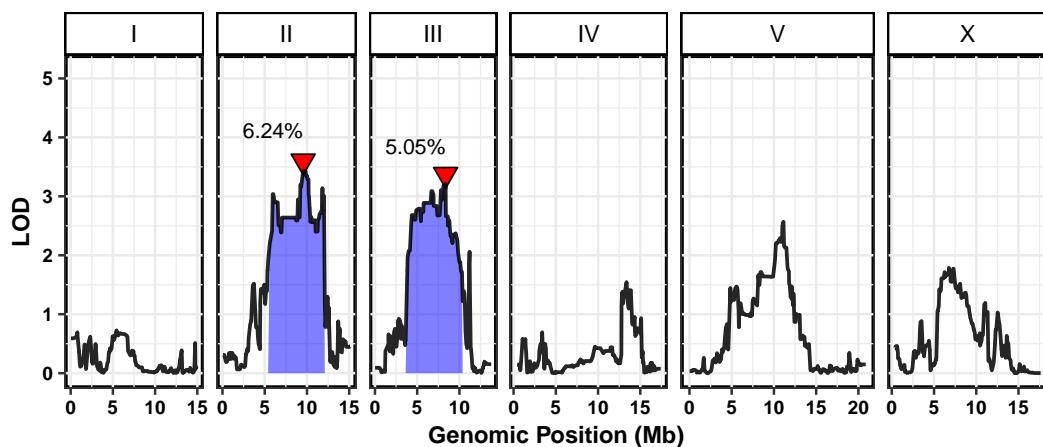
### NIL – Miscellaneous



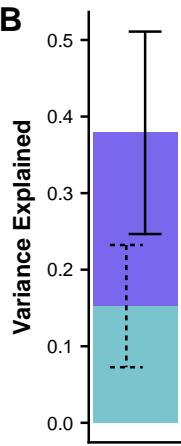
### CSS – Unidirectional



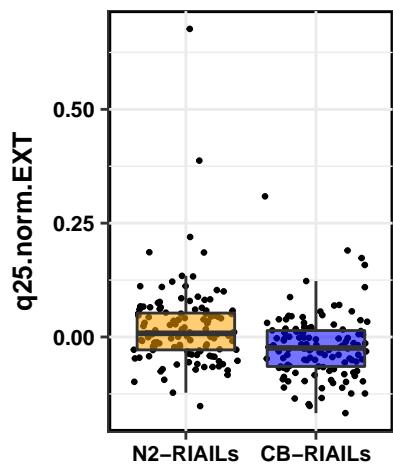
### A silver.q25.norm.EXT



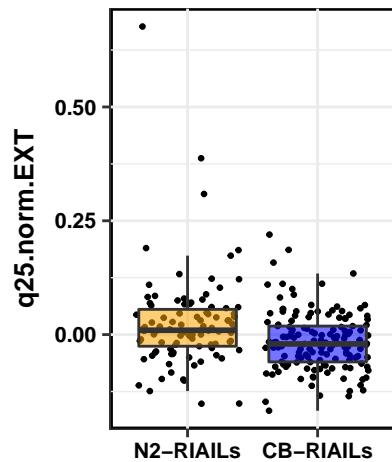
### B



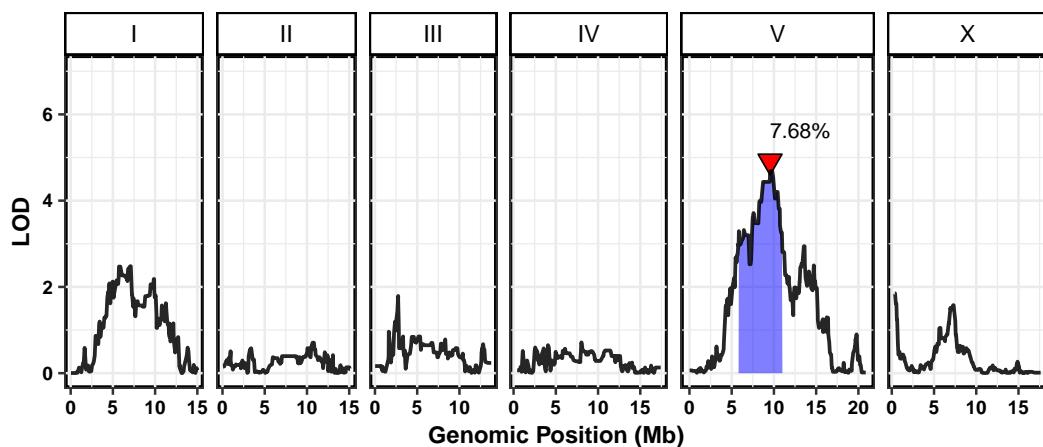
### C II:9551104



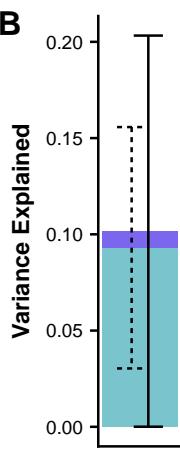
III:8365279



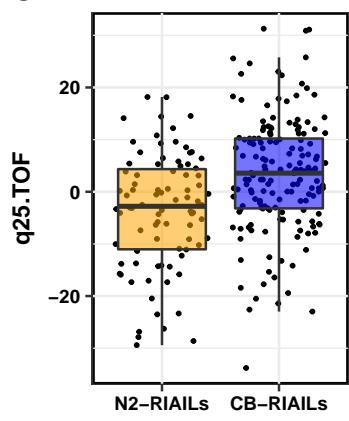
### A silver.q25.TOF



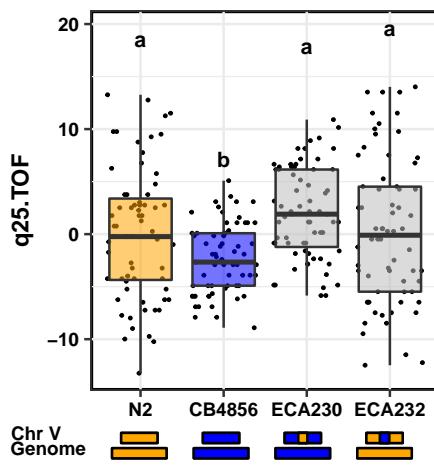
### B



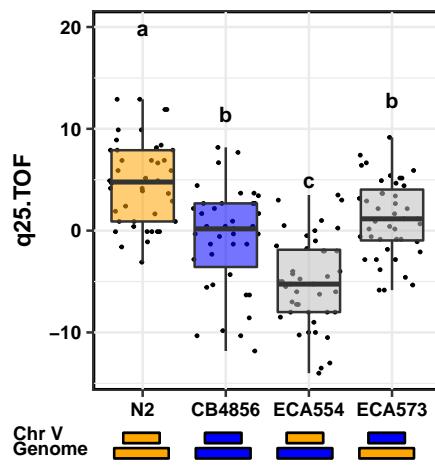
### C V:9542083



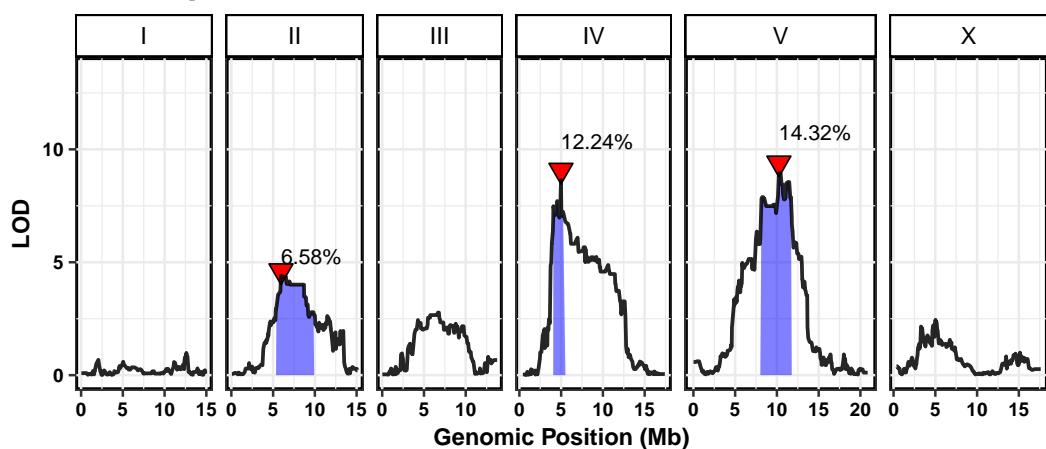
### NIL – Miscellaneous



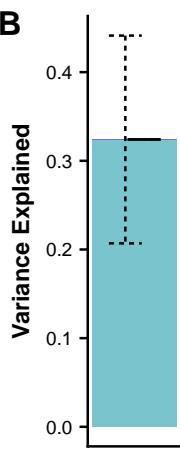
### CSS – Unidirectional



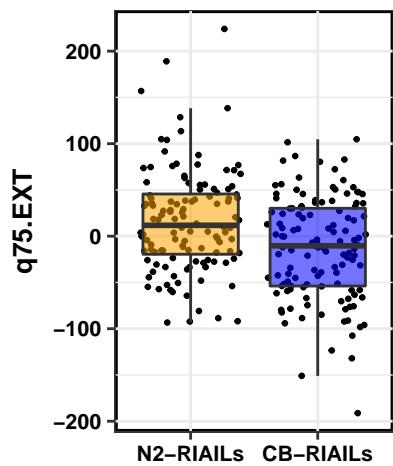
### A silver.q75.EXT



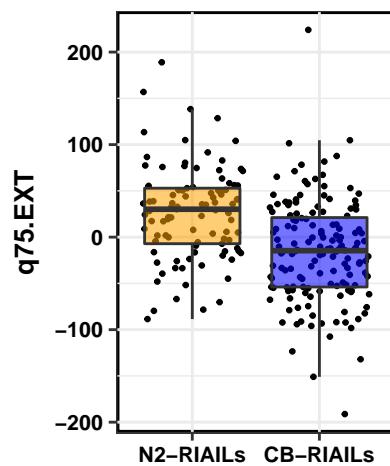
### B



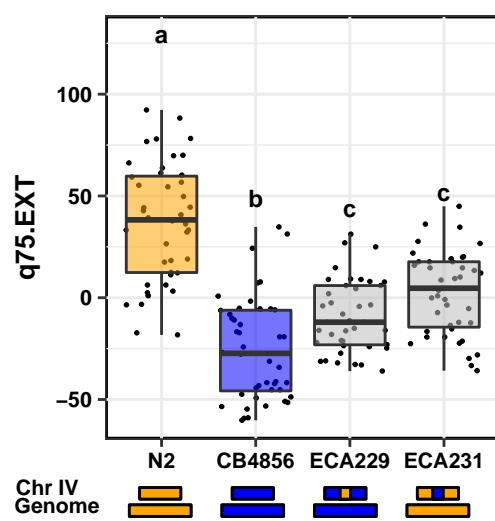
### C II:5949974

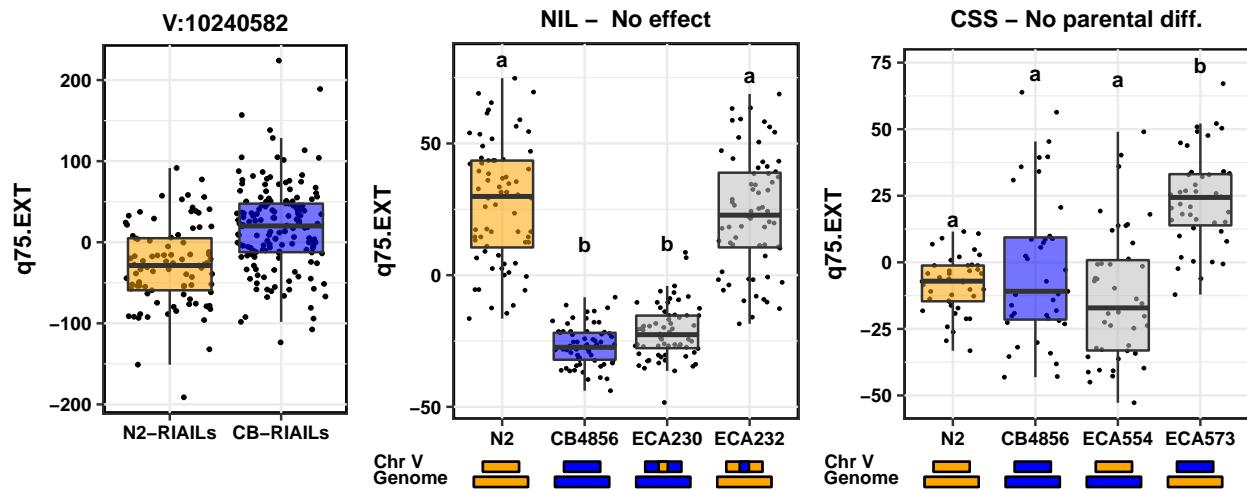


### IV:4978605

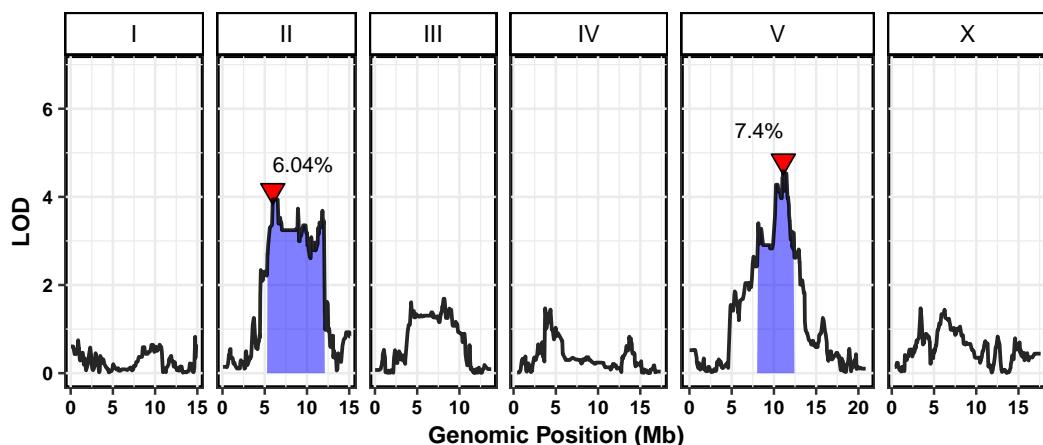


### NIL – Recapitulation

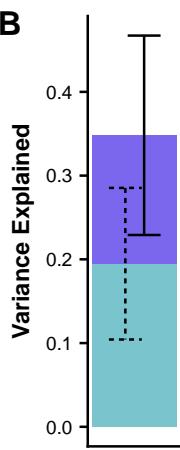




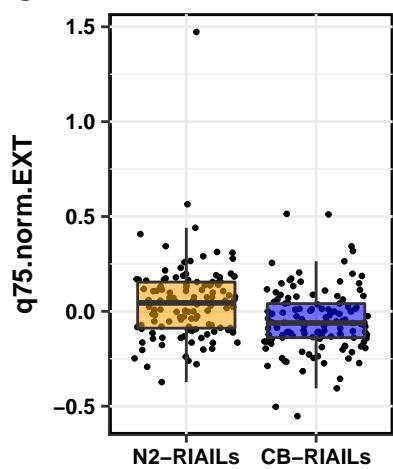
### A silver.q75.norm.EXT



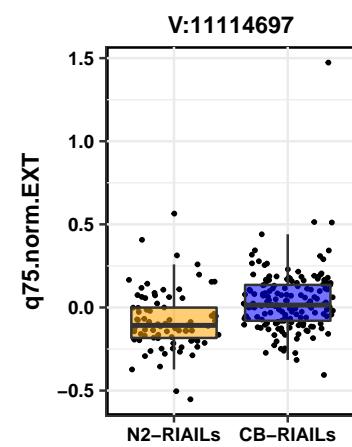
**B**



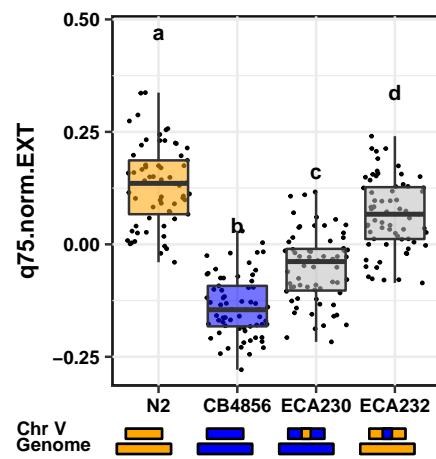
### C II:5949974



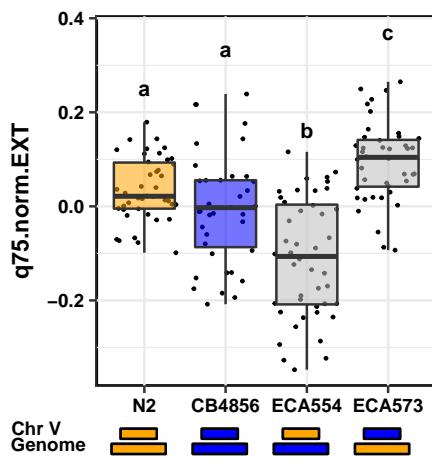
V:11114697



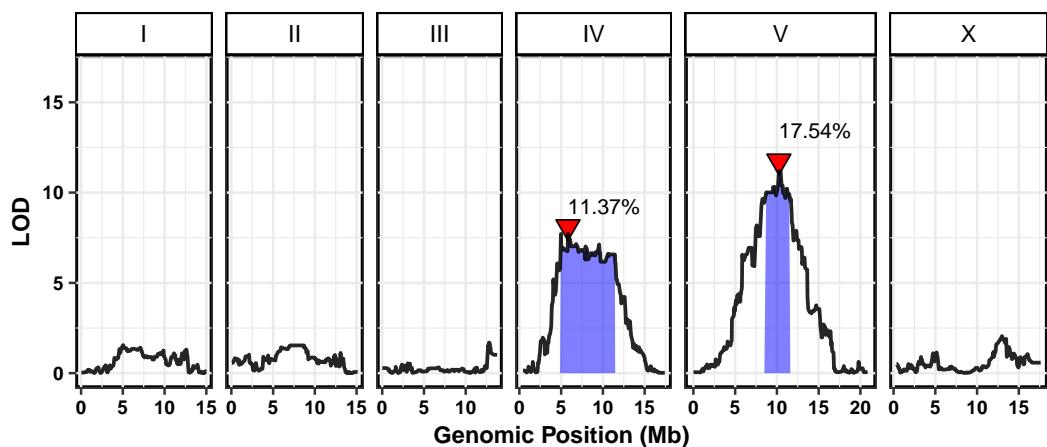
NIL – Recapitulation



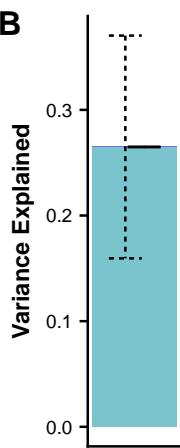
CSS – No parental diff.



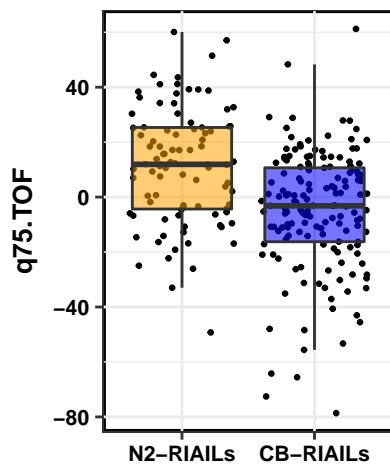
### A silver.q75.TOF



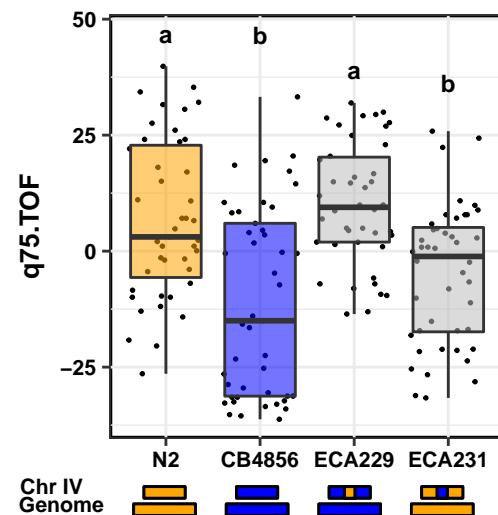
B



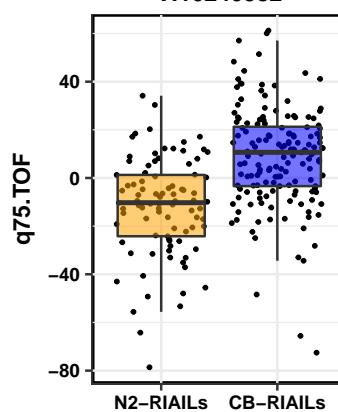
### C IV:5819743



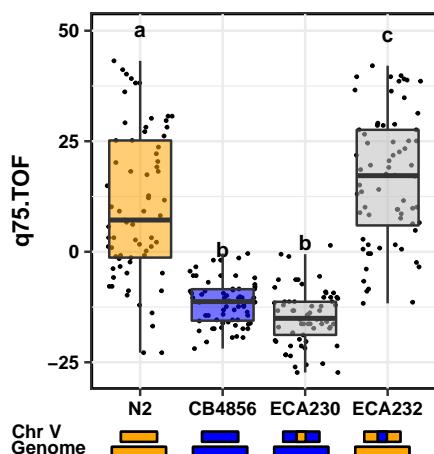
### NIL – Recapitulation



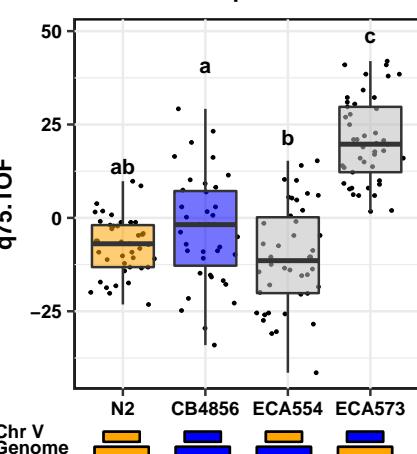
### V:10240582



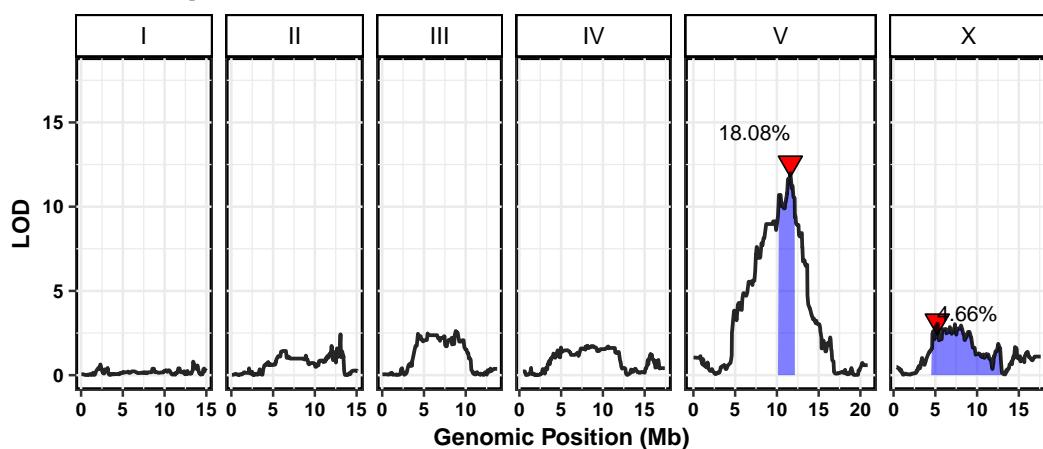
### NIL – Unidirectional



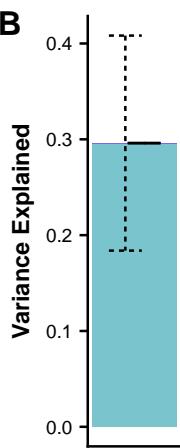
### CSS – No parental diff.



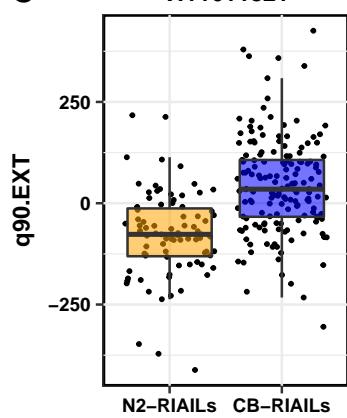
### A silver.q90.EXT



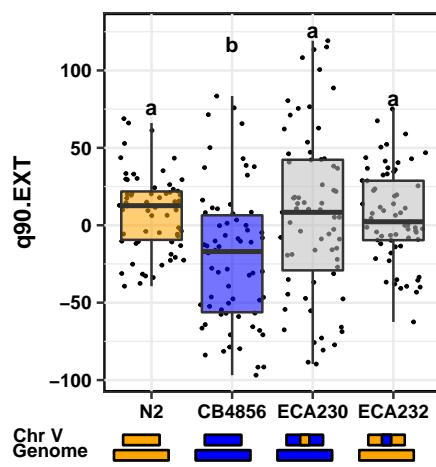
B



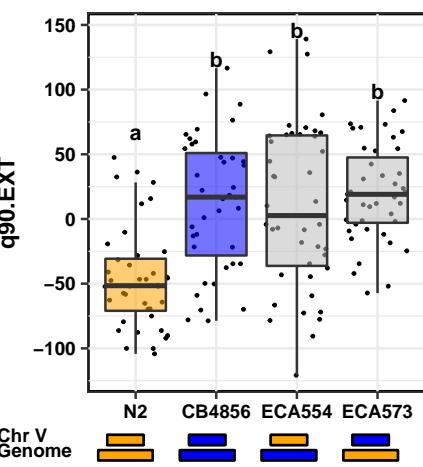
### C V:116111821



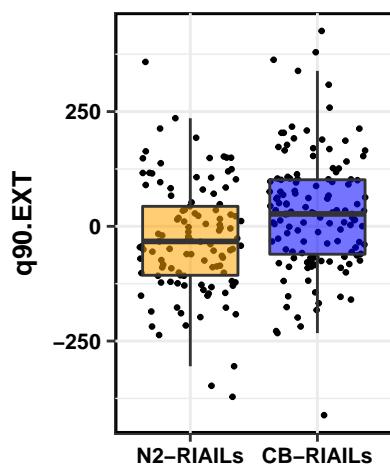
### NIL – Miscellaneous



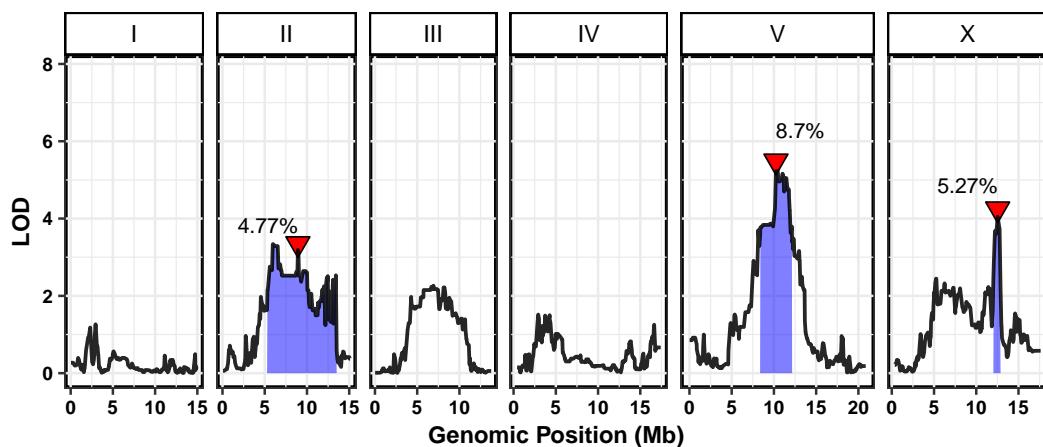
### CSS – Miscellaneous



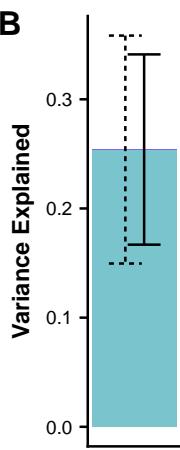
### X:5234795



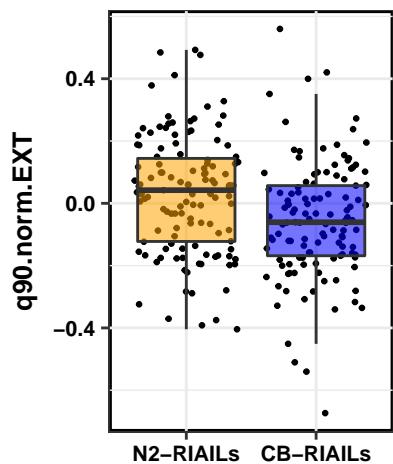
### A silver.q90.norm.EXT



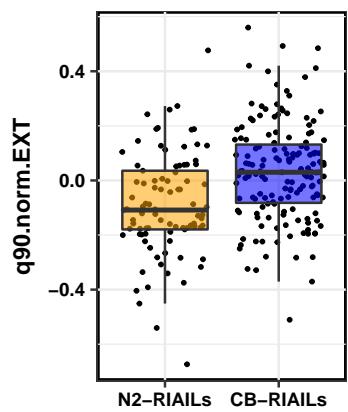
**B**



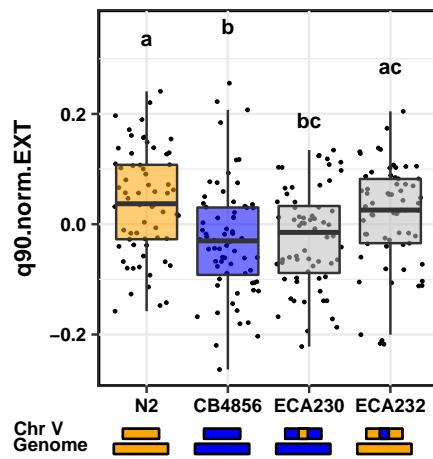
### C II:8927601



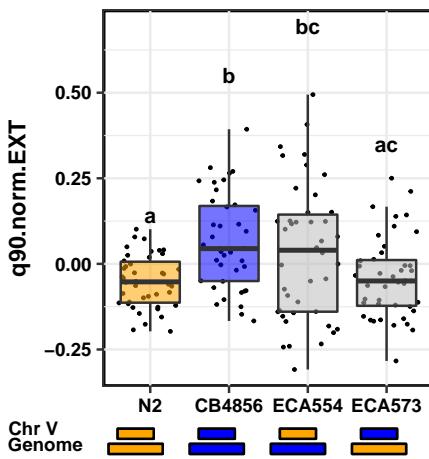
V:10240582



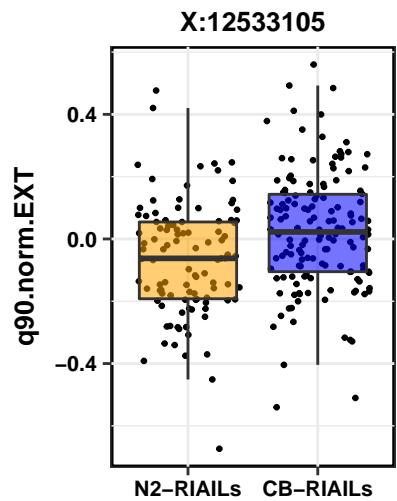
NIL – No effect



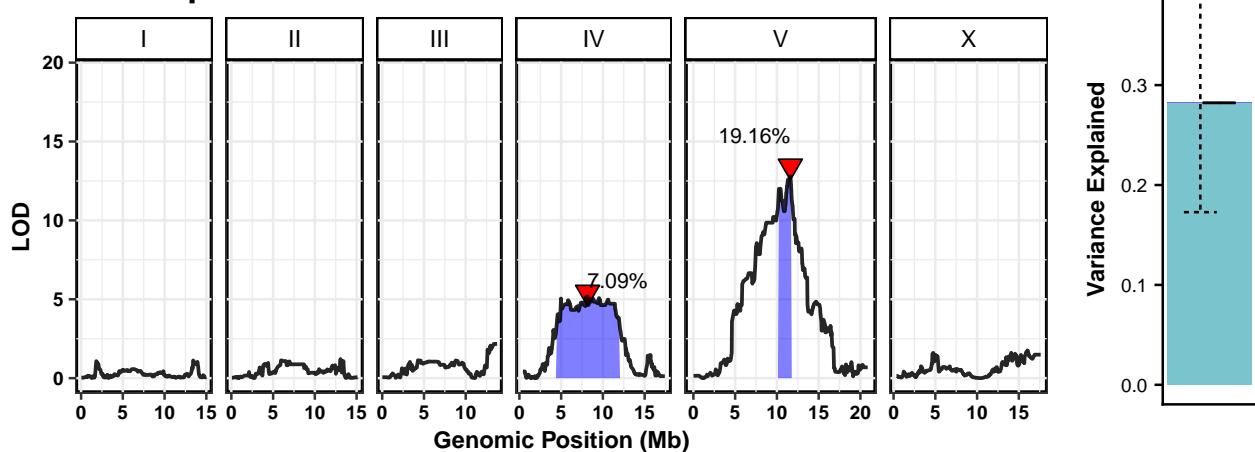
CSS – No effect



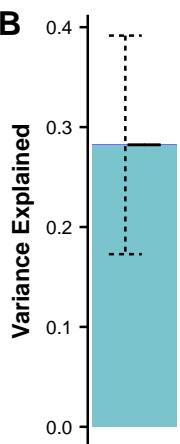
Chr V Genome



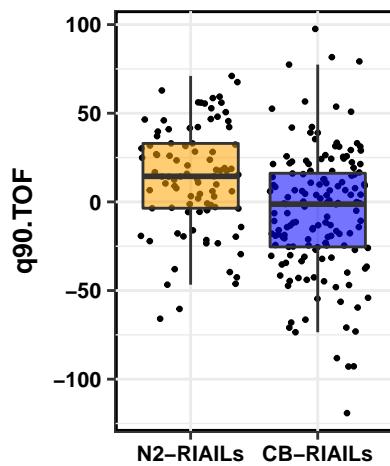
### A silver.q90.TOF



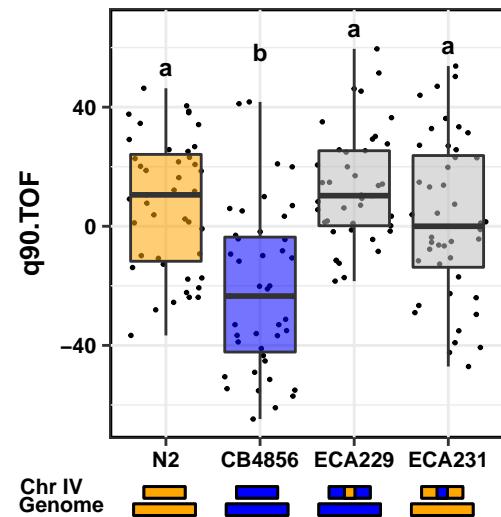
### B



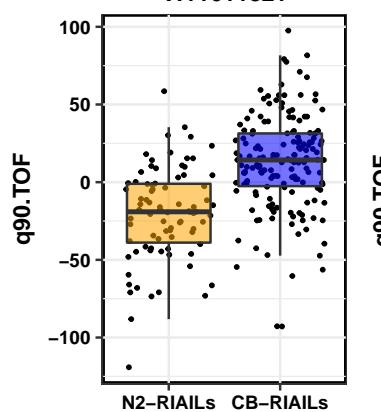
### C IV:8162297



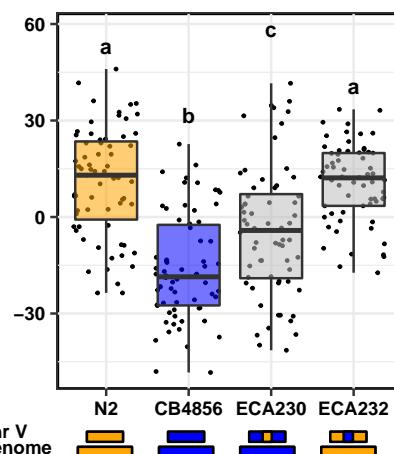
### NIL – Miscellaneous



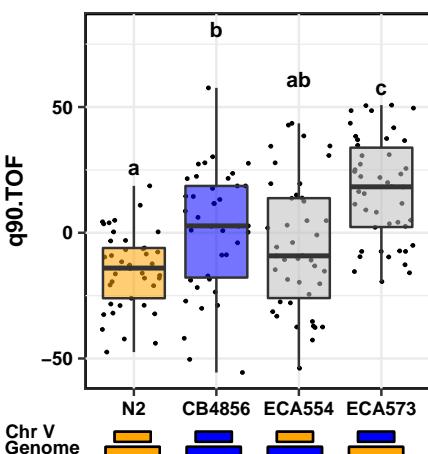
### V:11611821

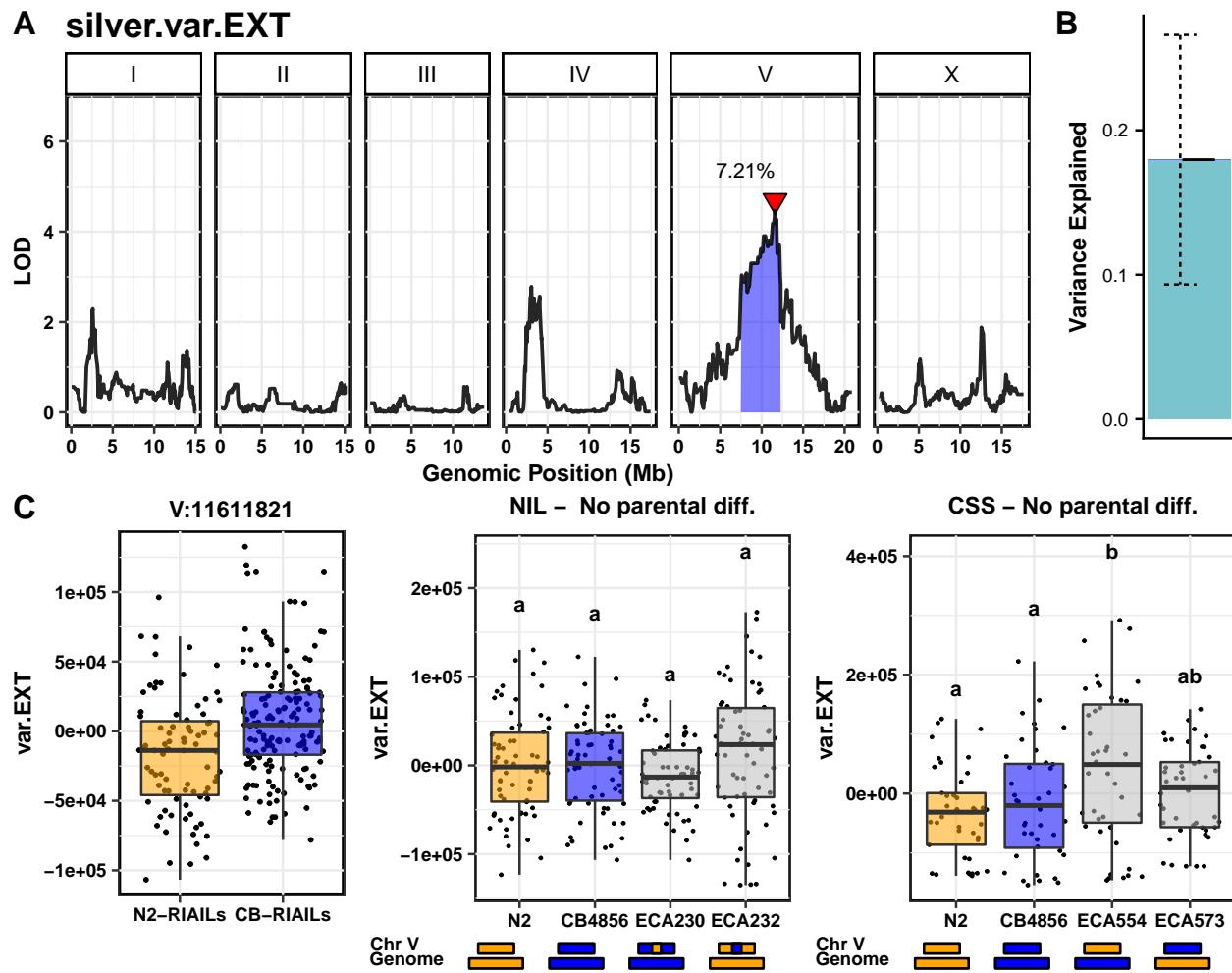


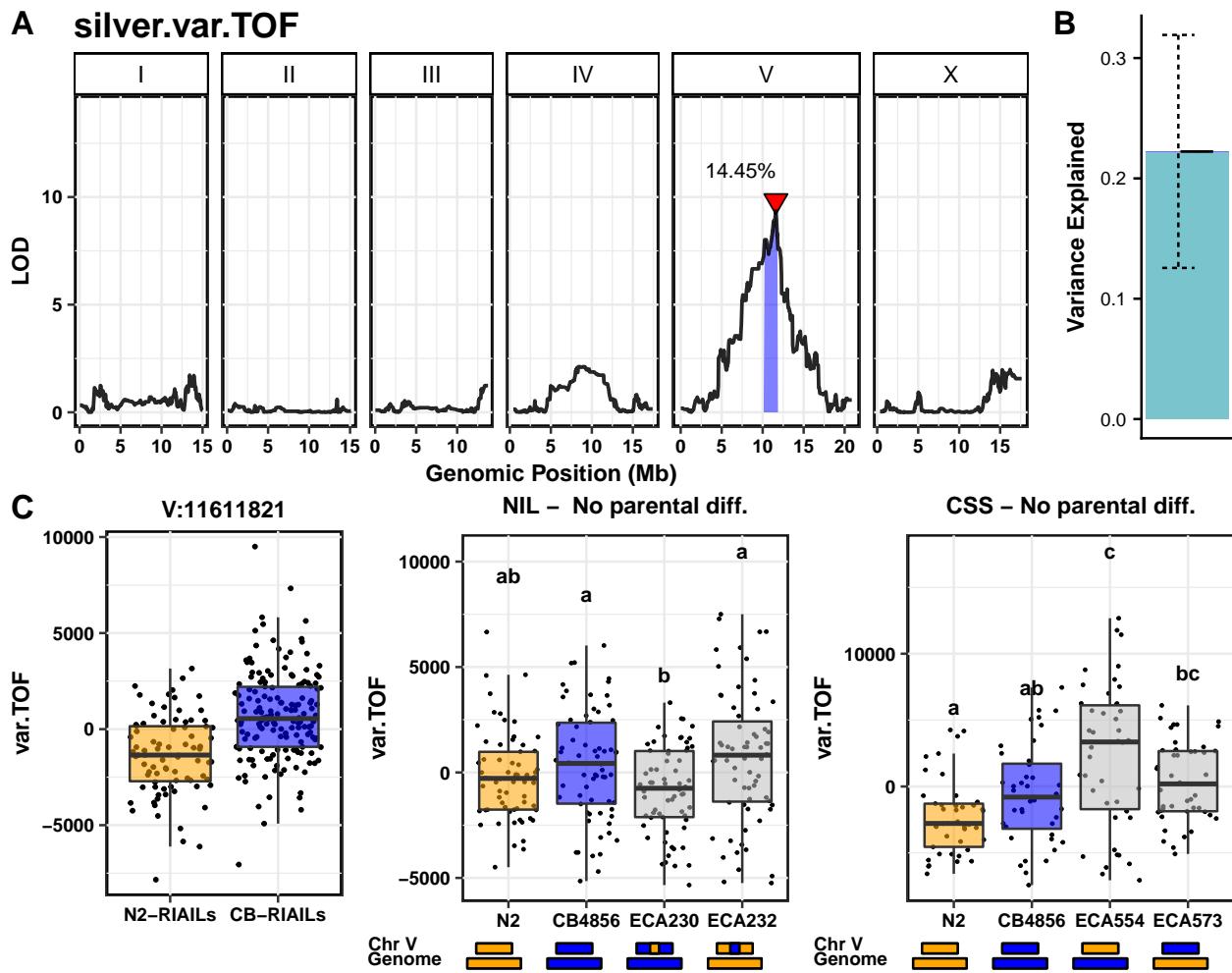
### NIL – Miscellaneous

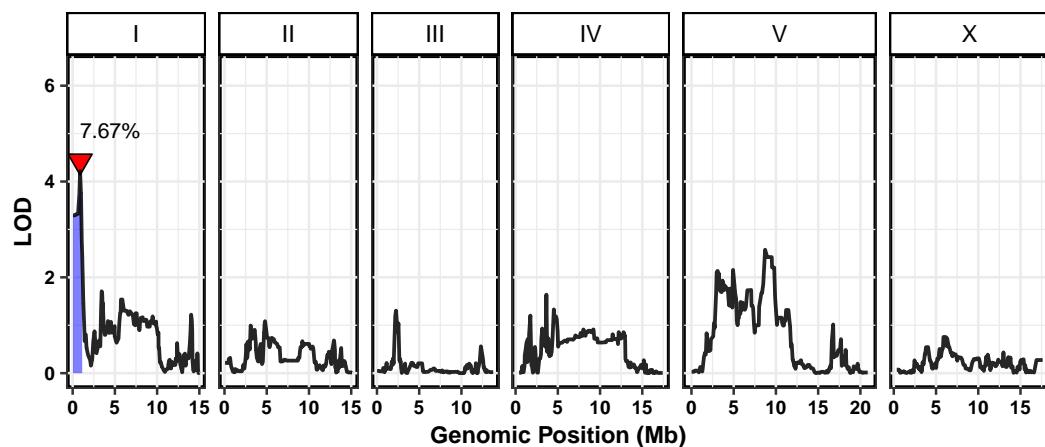
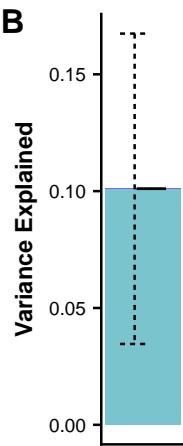
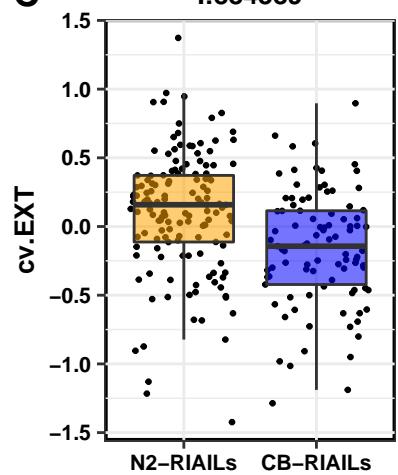


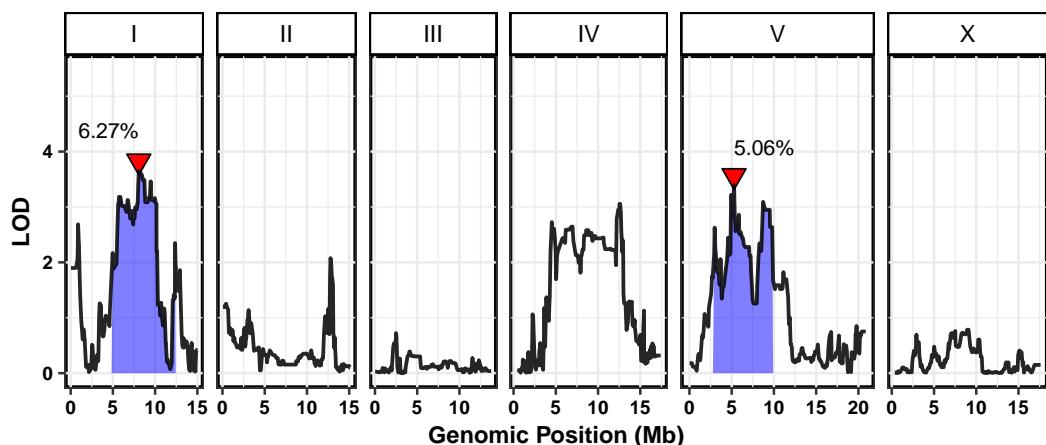
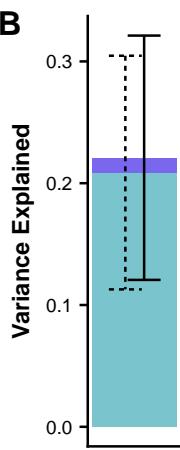
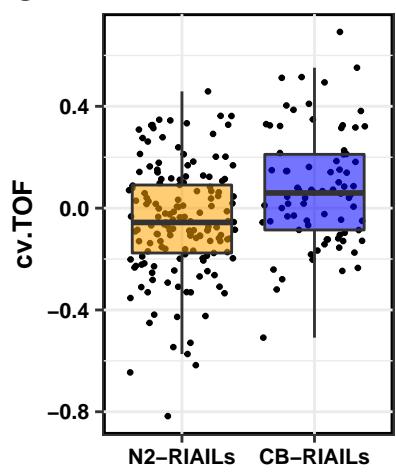
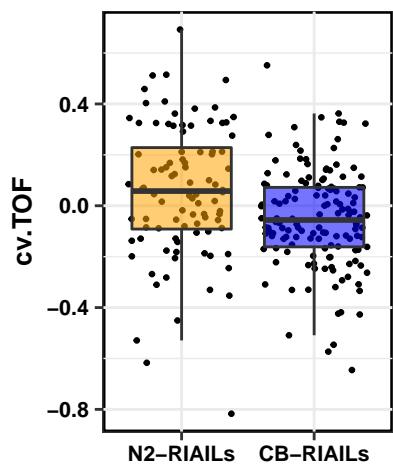
### CSS – Unidirectional



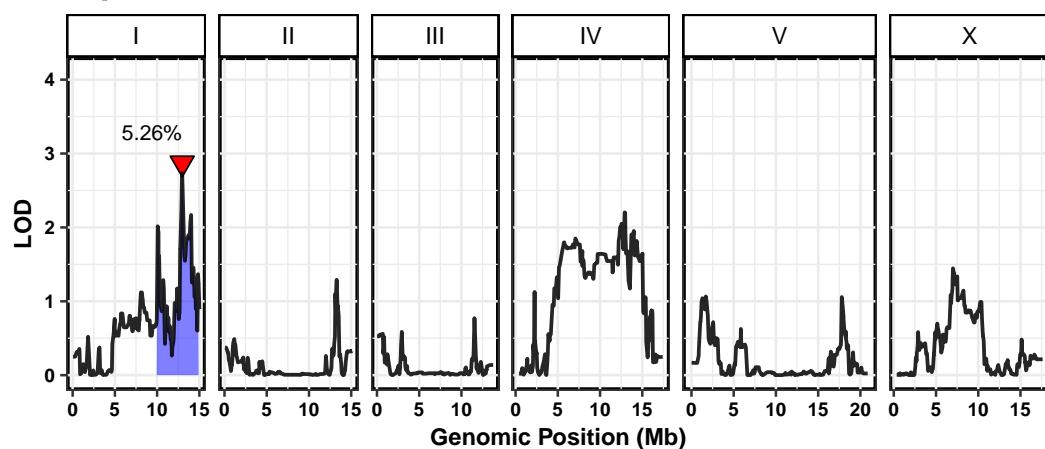




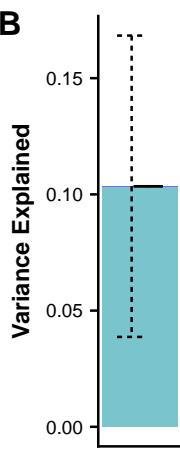
**A topotecan.cv.EXT****B****C I:884389**

**A topotecan.cv.TOF****B****C I:8069196****V:5281983**

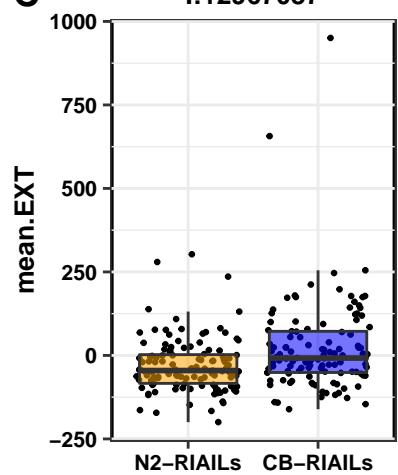
### A topotecan.mean.EXT



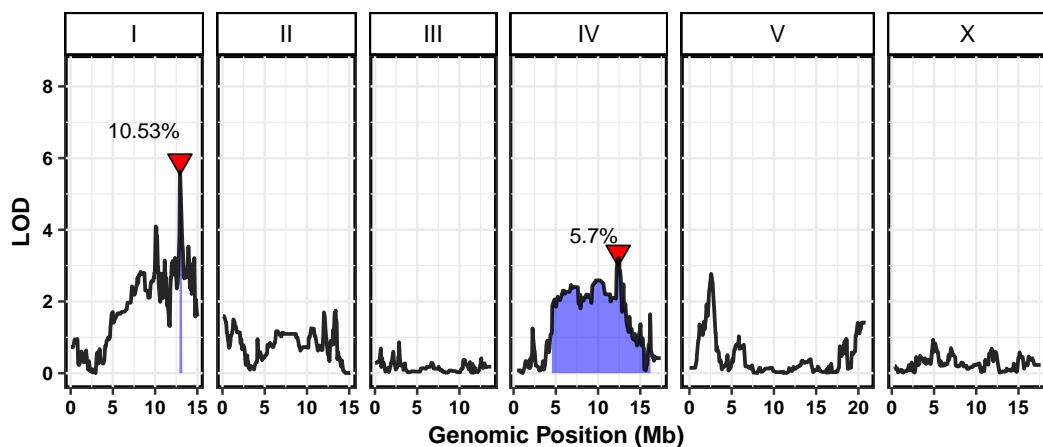
### B



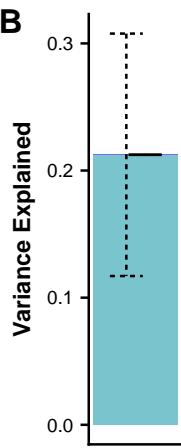
### C I:12967087



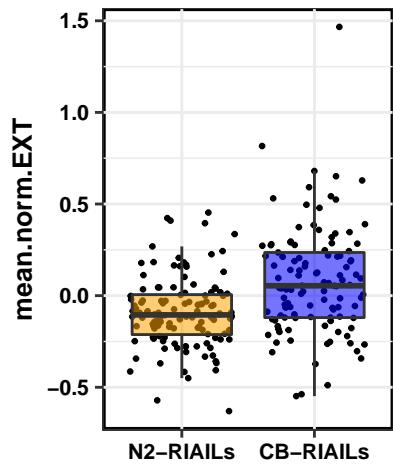
### A topotecan.mean.norm.EXT



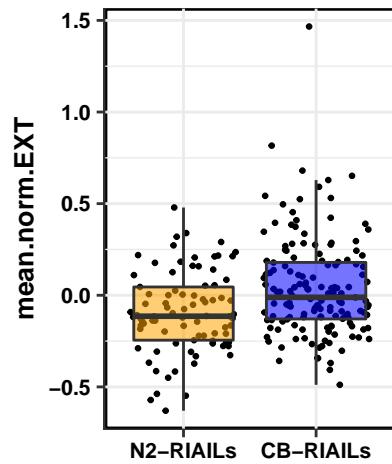
### B



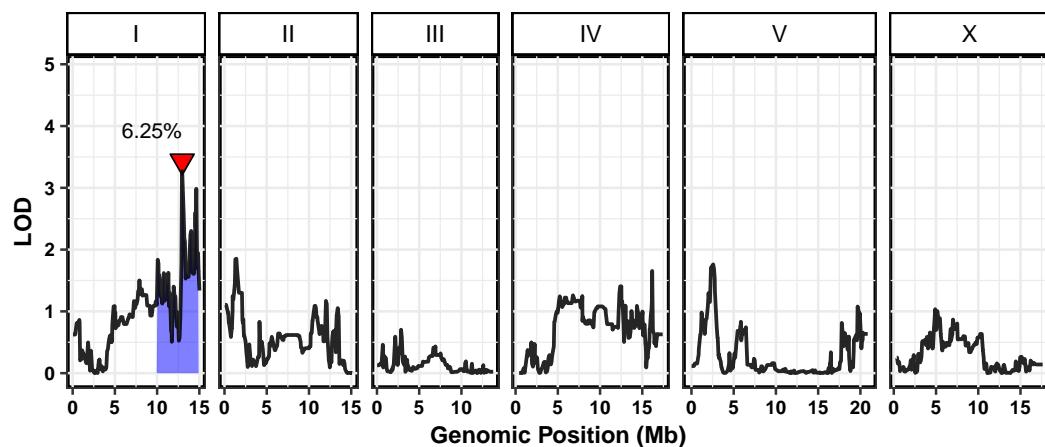
### C I:12936946



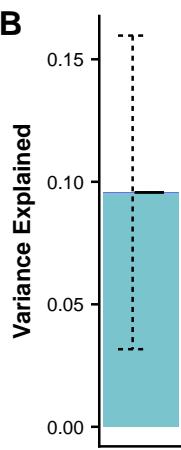
### IV:12382932



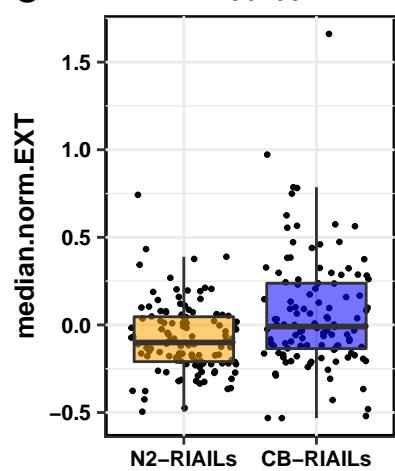
### A topotecan.median.norm.EXT



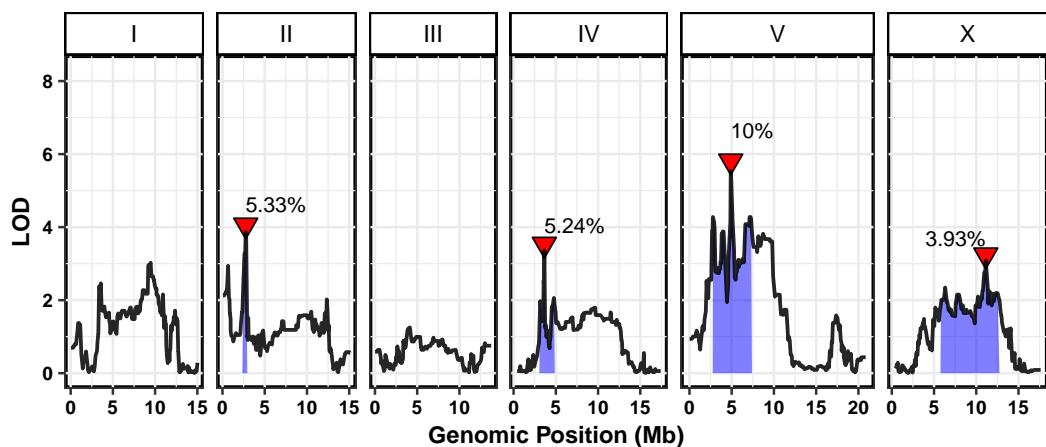
### B



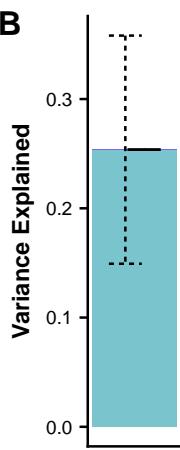
### C I:12967087



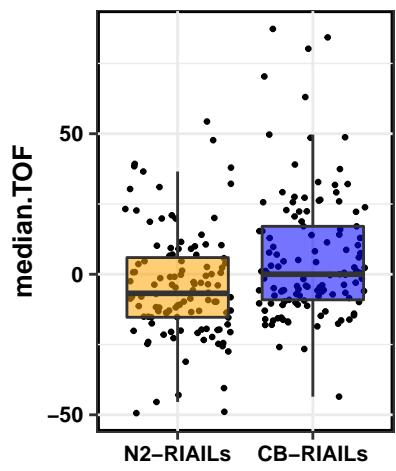
### A topotecan.median.TOF



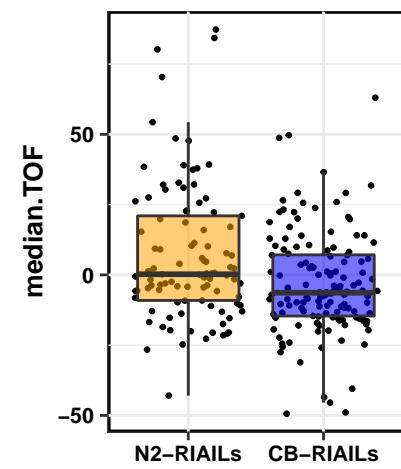
### B



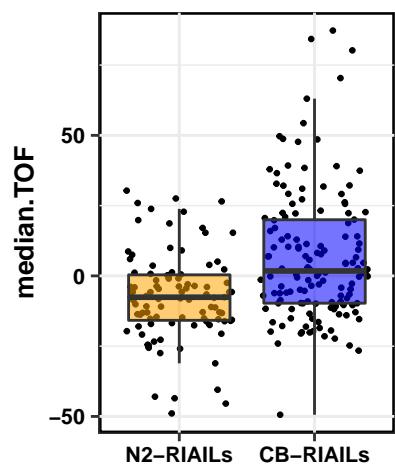
### C II:2749534



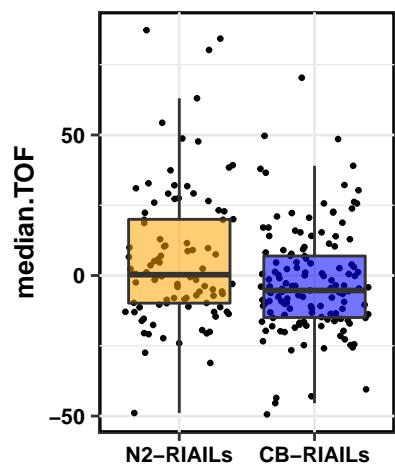
### IV:3645626

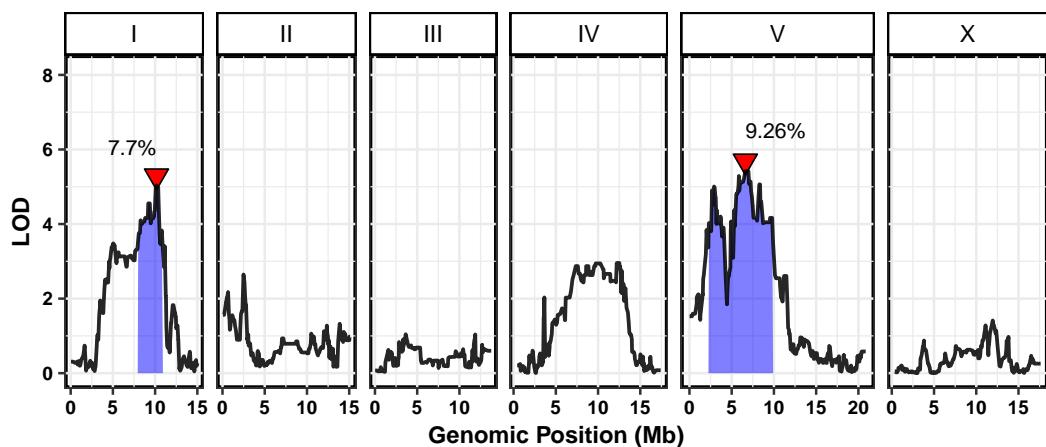
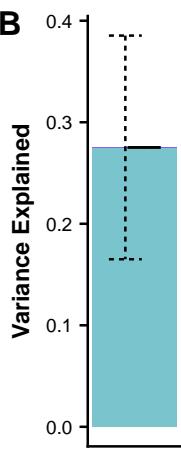
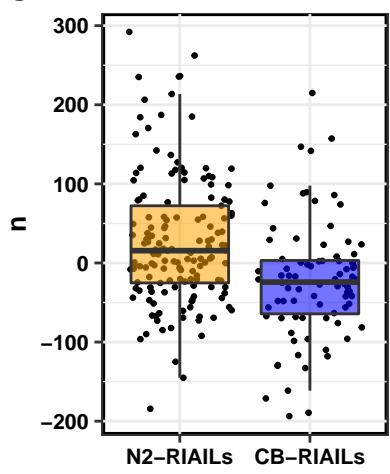


V:4889130

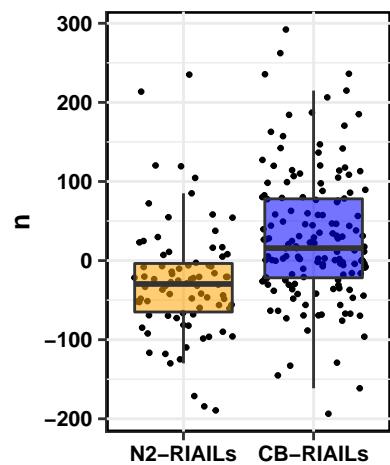


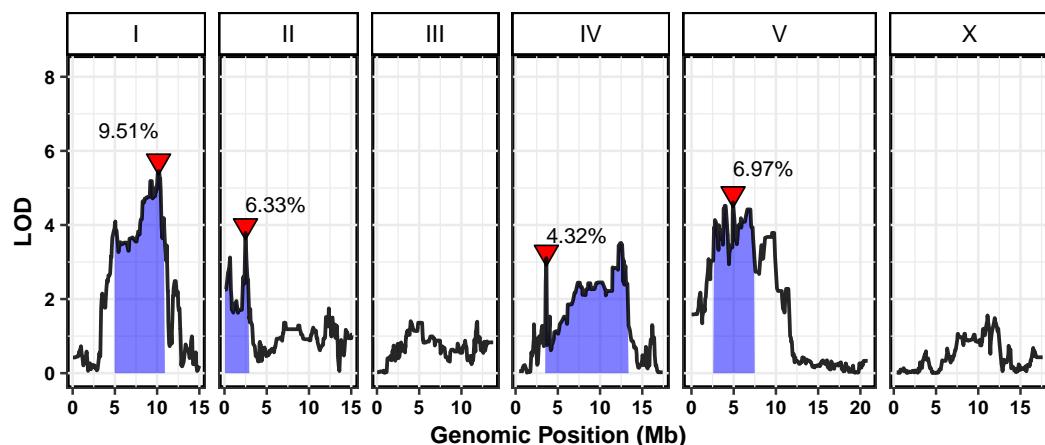
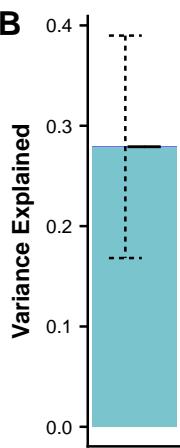
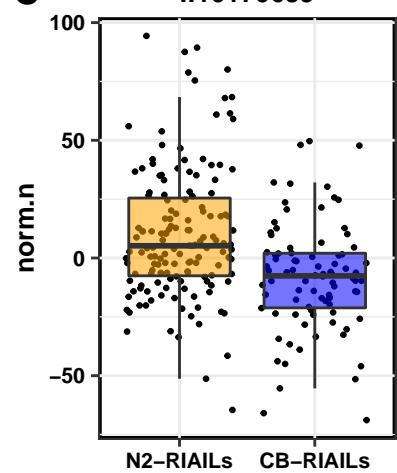
X:11128033



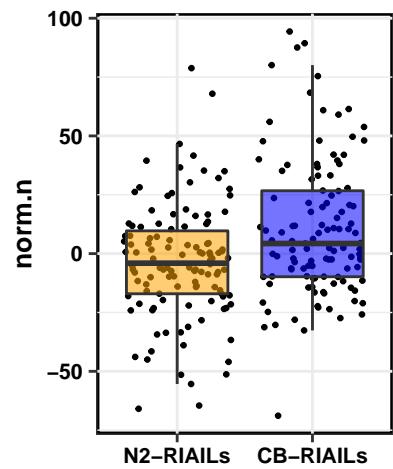
**A topotecan.n****B****C** I:10163992

V:6618053

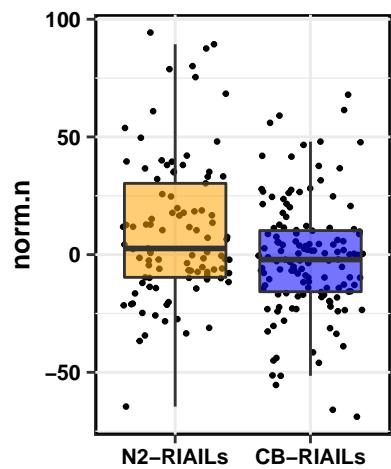


**A topotecan.norm.n****B****C** I:10170689

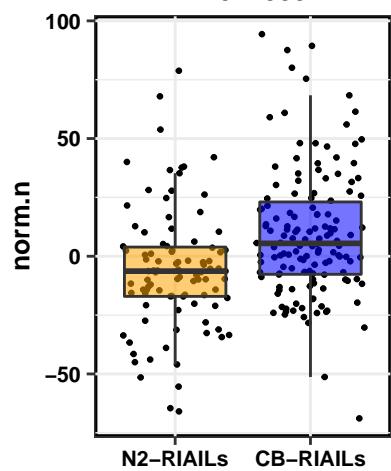
## II:2482895

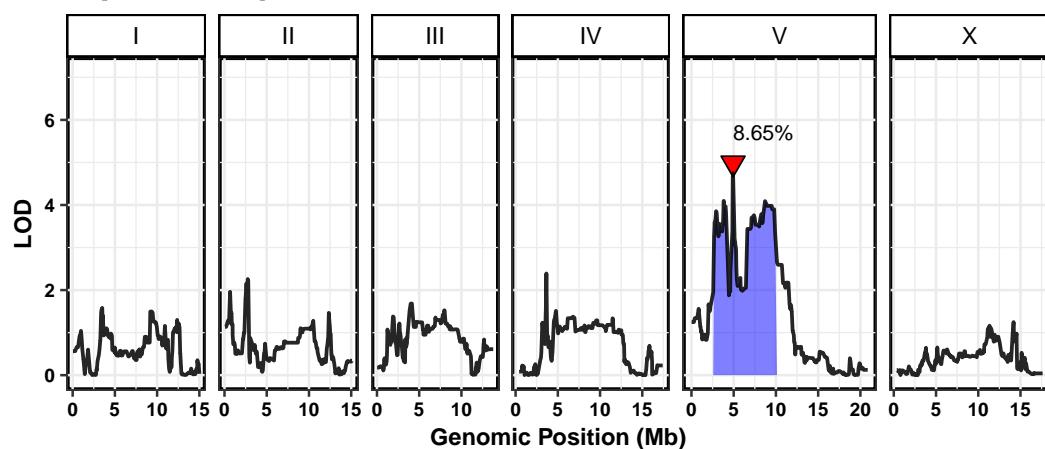
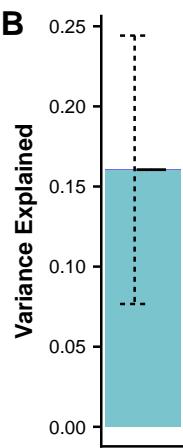
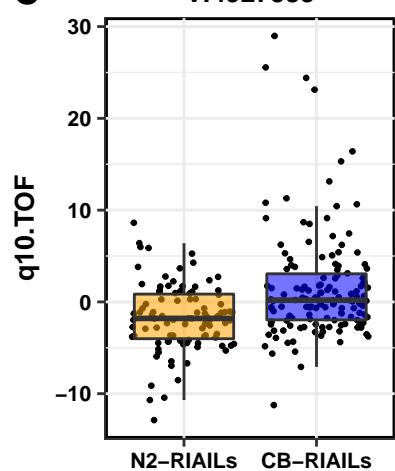


**IV:3645626**

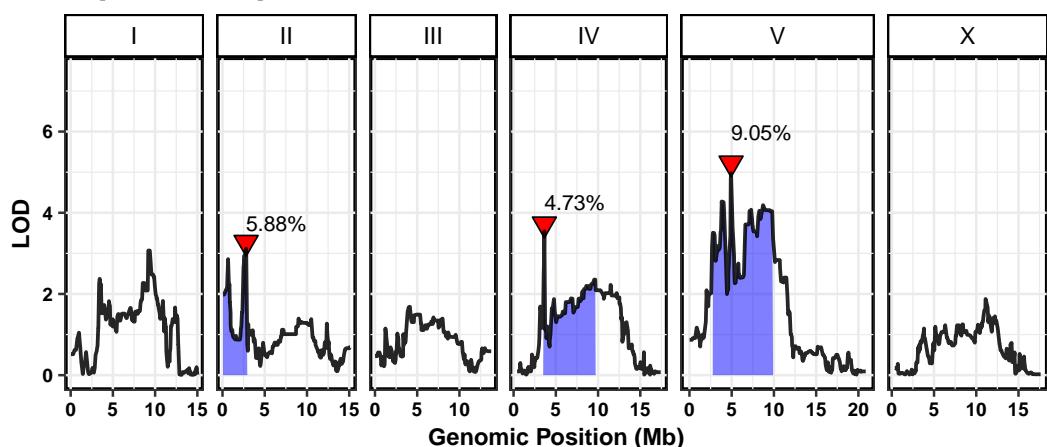


**V:4927583**

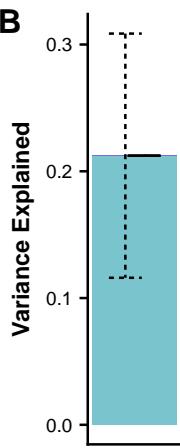


**A topotecan.q10.TOF****B****C V:4927583**

### A topotecan.q25.TOF

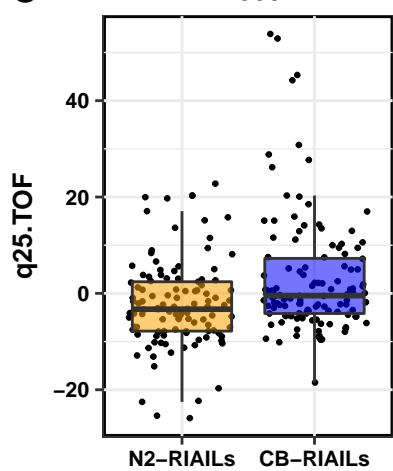


### B

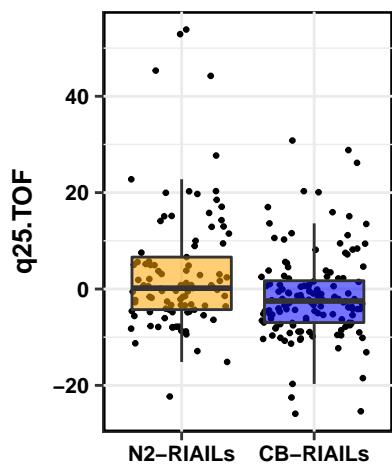


### C

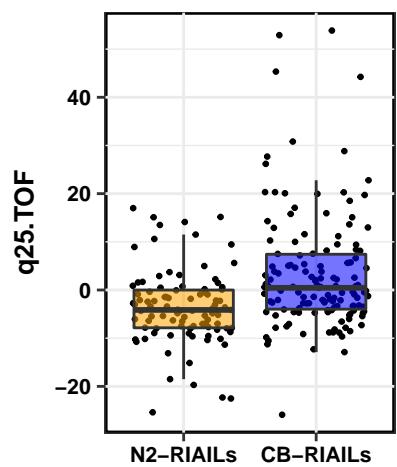
#### II:2795341



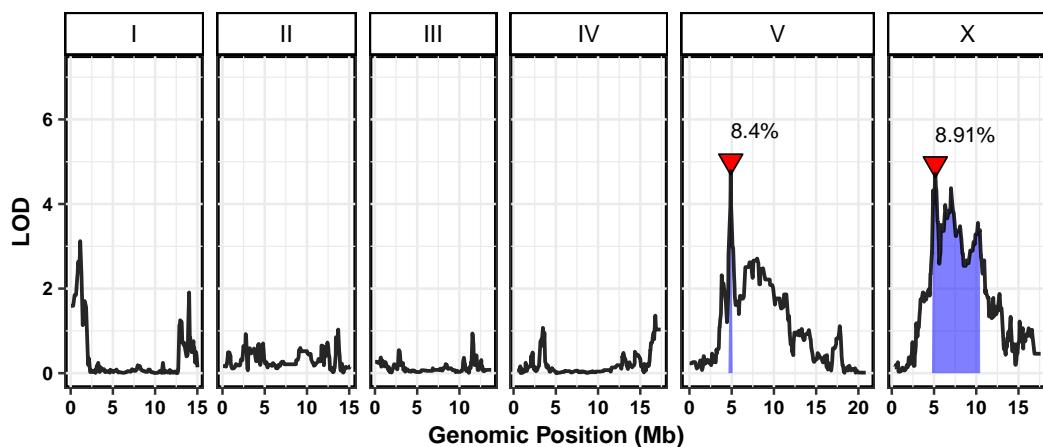
IV:3645626



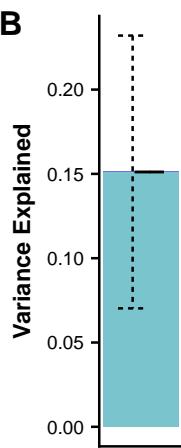
V:4927583



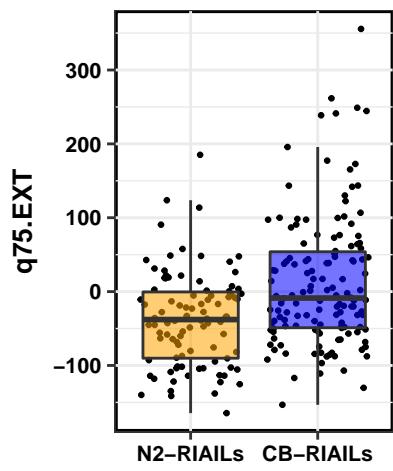
### A topotecan.q75.EXT



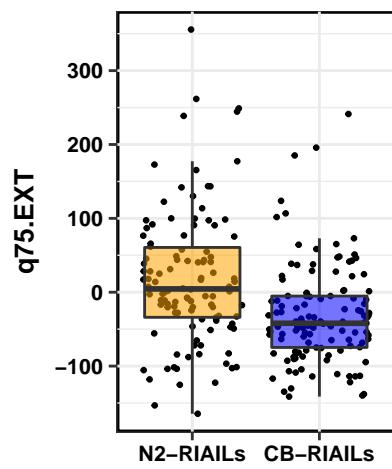
### B



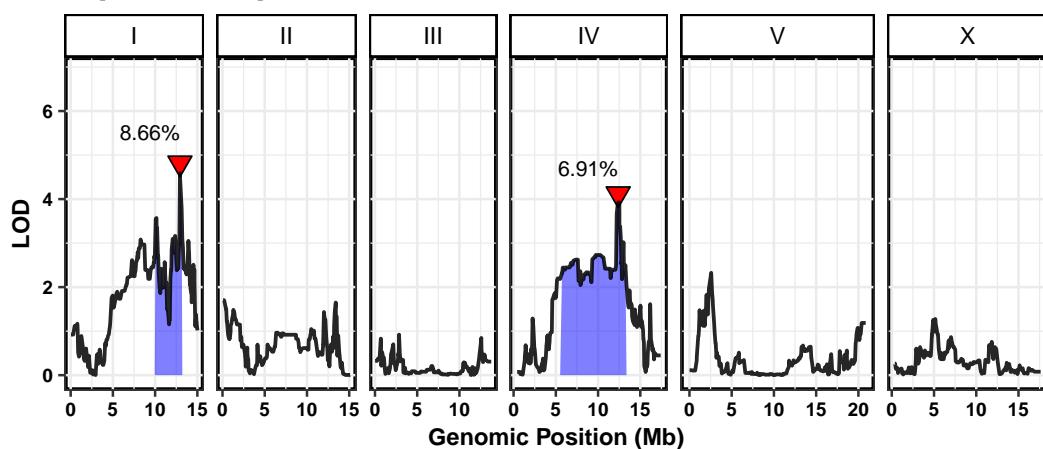
### C V:4889130



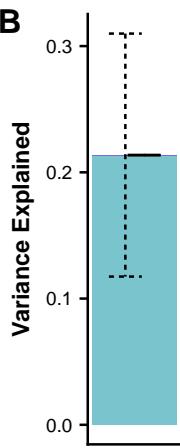
### X:5152523



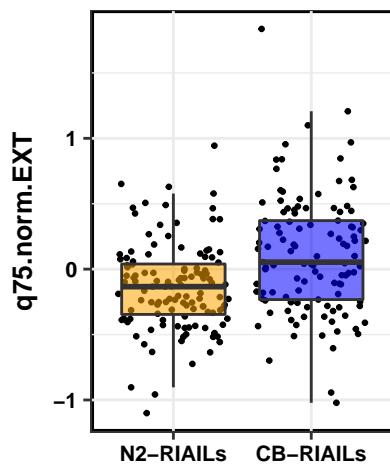
### A topotecan.q75.norm.EXT



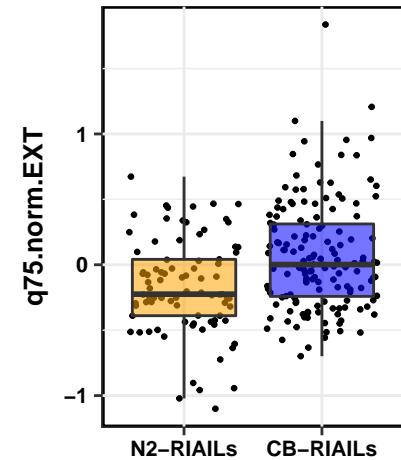
### B



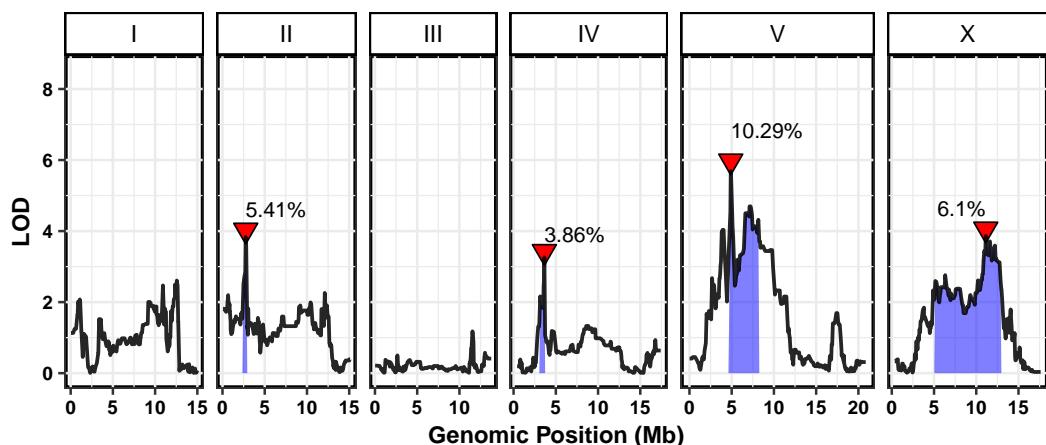
### C I:12936946



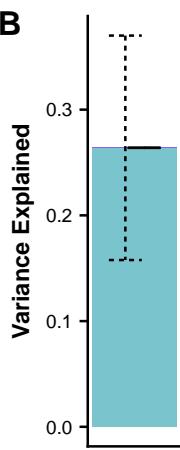
### IV:12382932



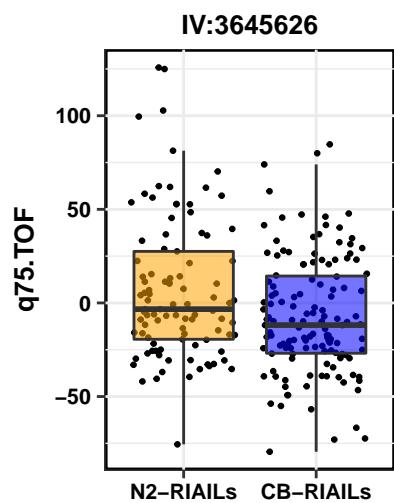
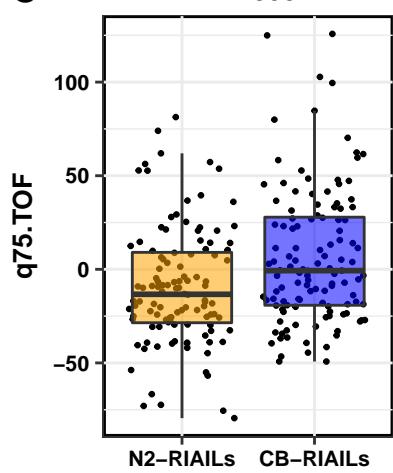
### A topotecan.q75.TOF



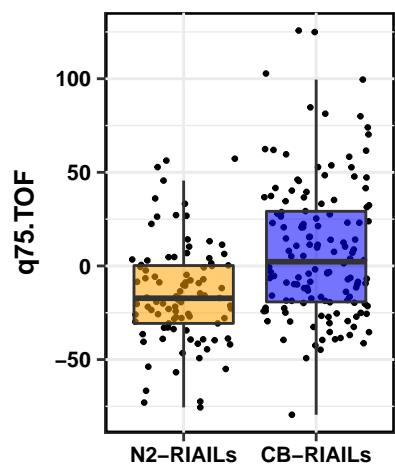
### B



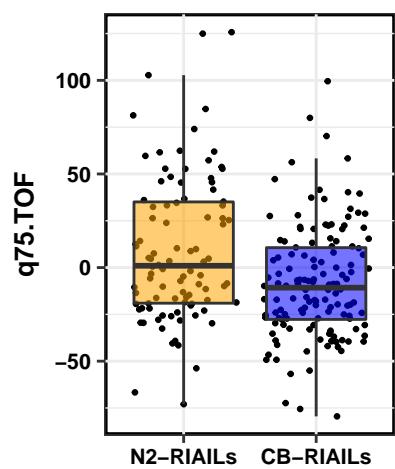
### C



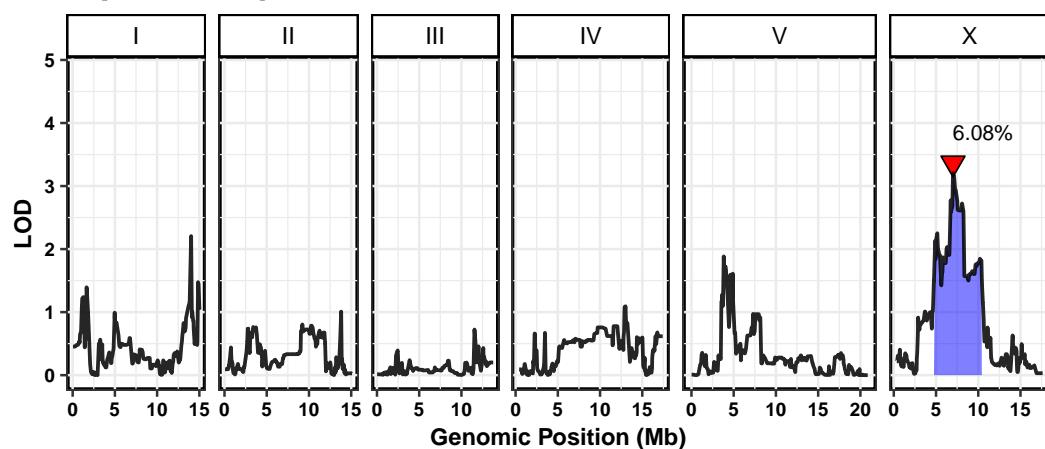
V:4889130



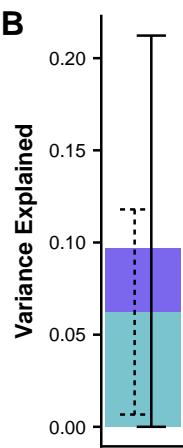
X:11128033



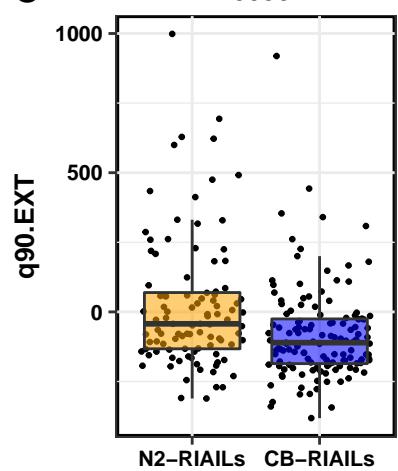
### A topotecan.q90.EXT



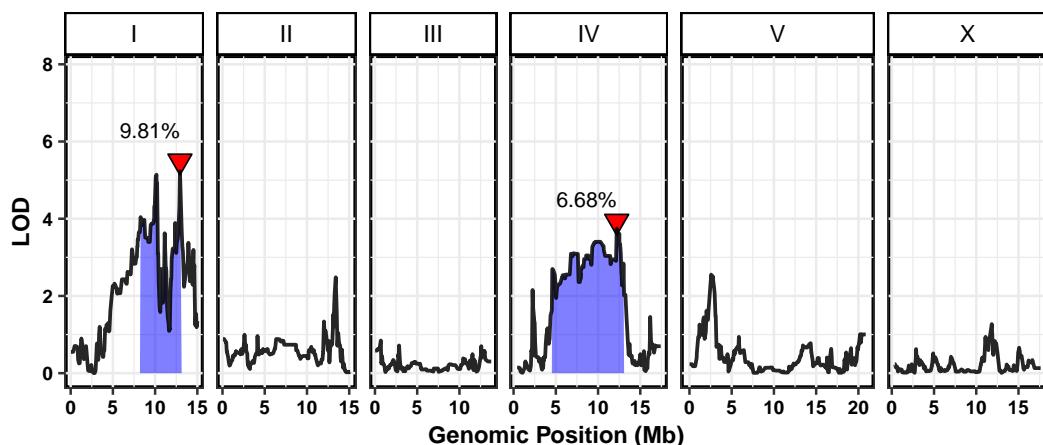
### B



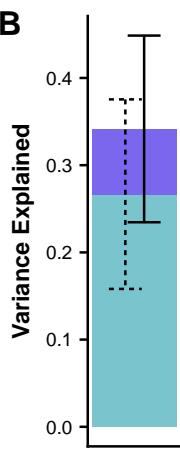
### C X:7009811



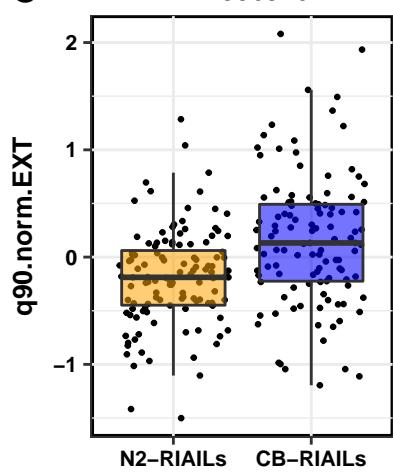
### A topotecan.q90.norm.EXT



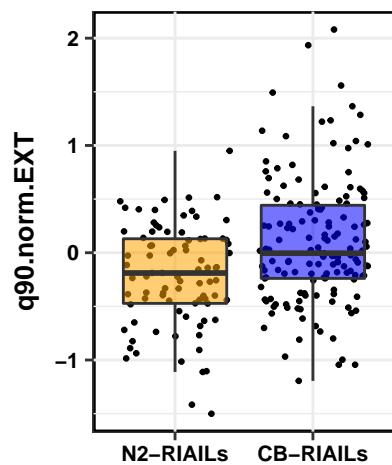
### B



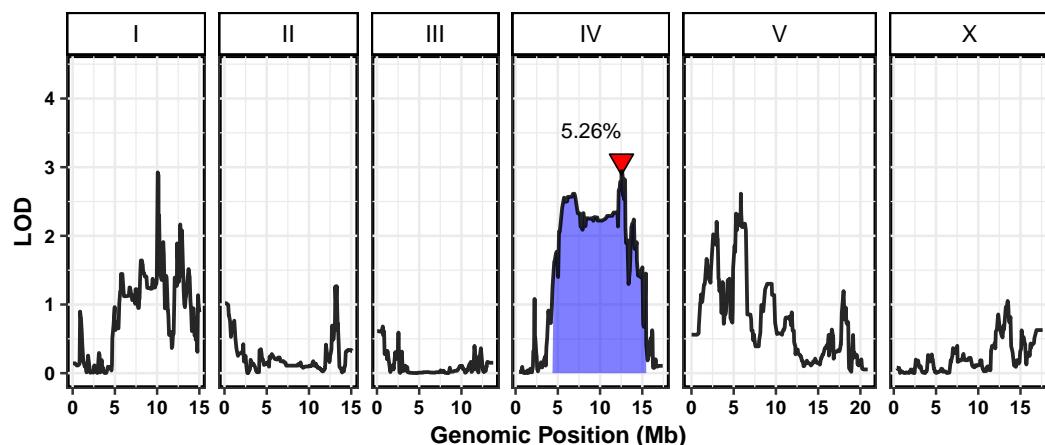
### C I:12936946



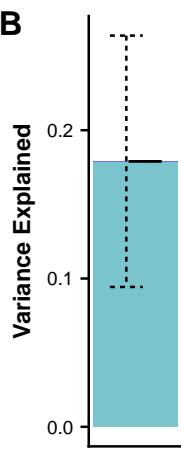
### IV:12207650



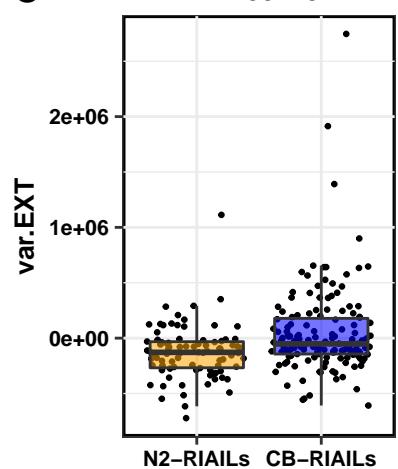
### A topotecan.var.EXT



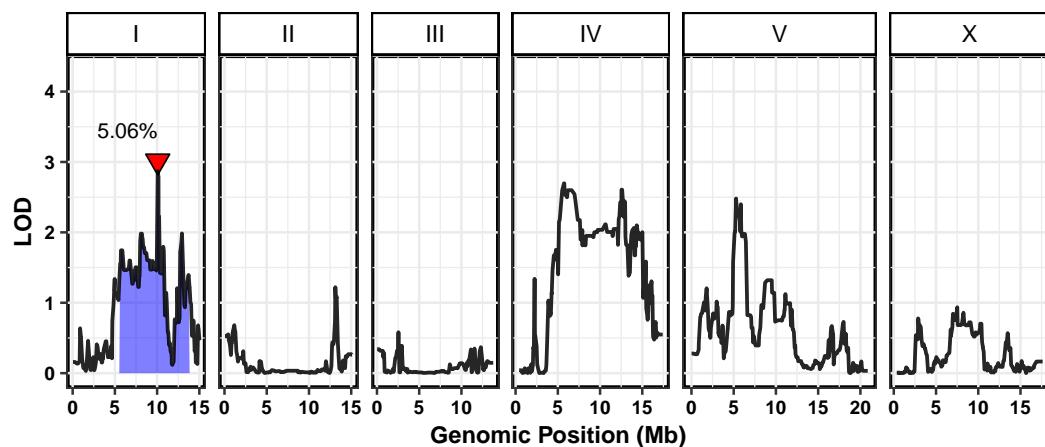
### B



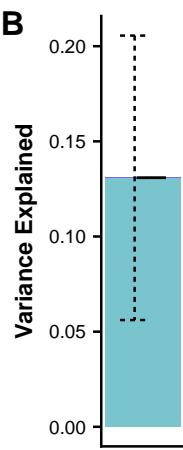
### C IV:12534731



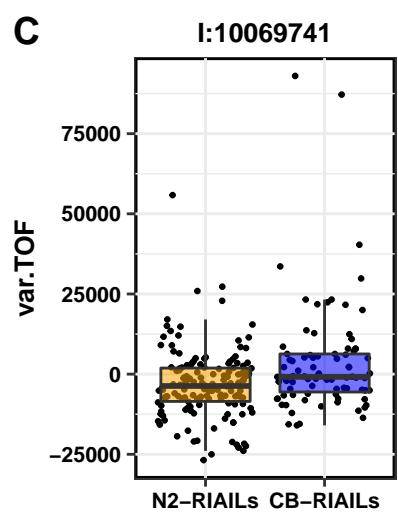
### A topotecan.var.TOF



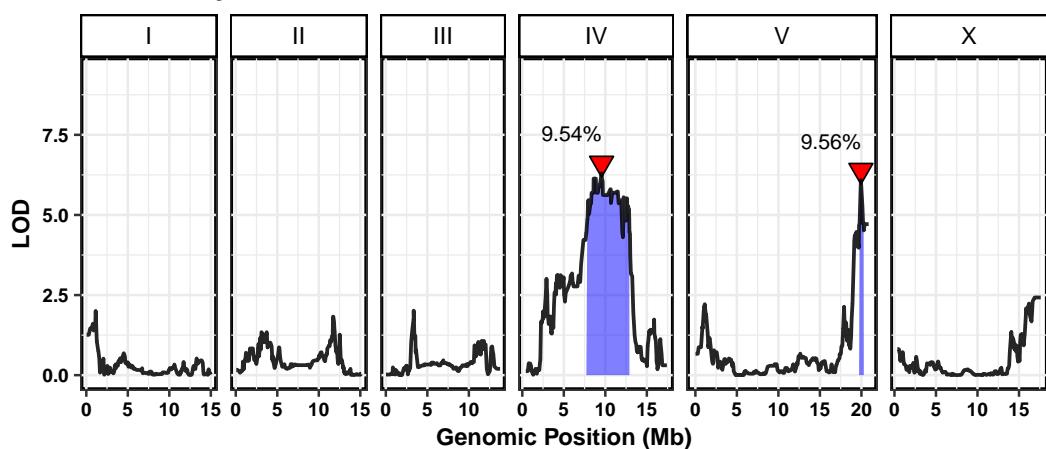
### B



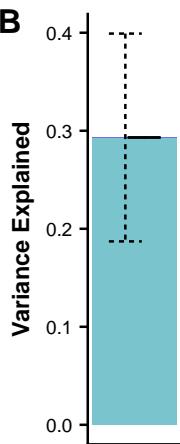
### C



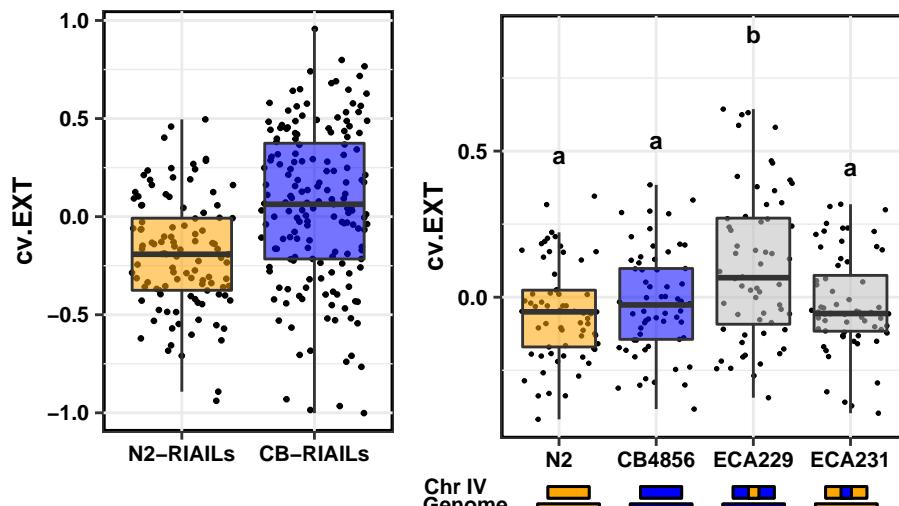
### A tunicamycin.cv.EXT



B

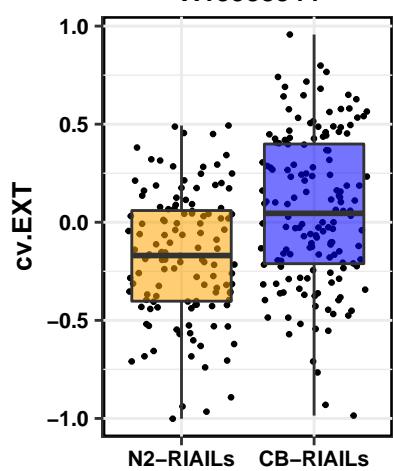


### C IV:9548910

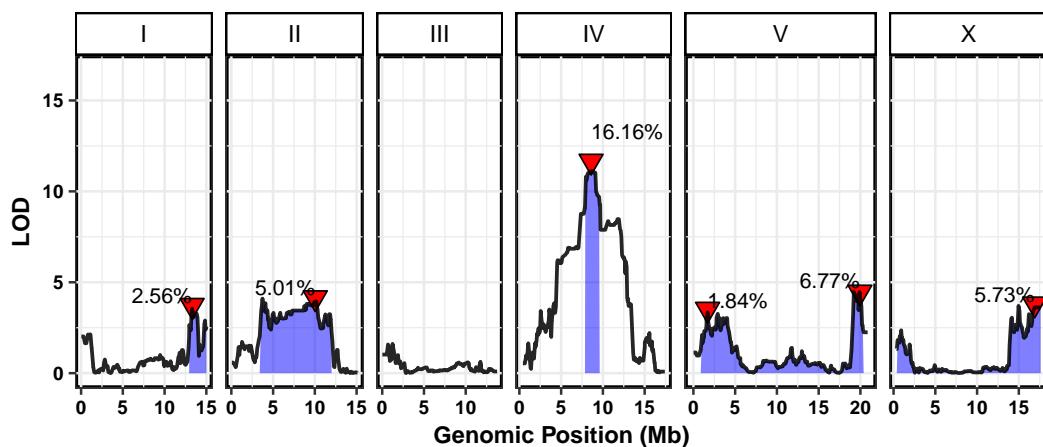


NIL – No parental diff.

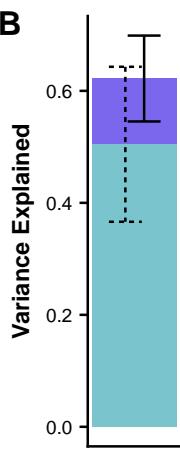
### V:19938544



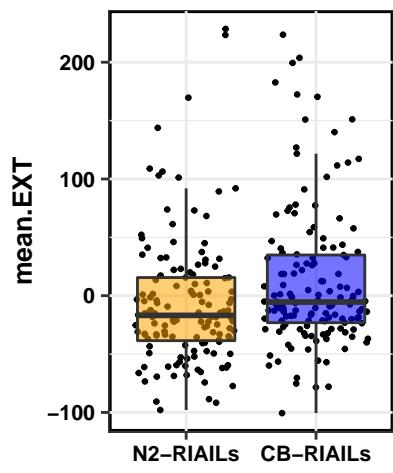
### A tunicamycin.mean.EXT



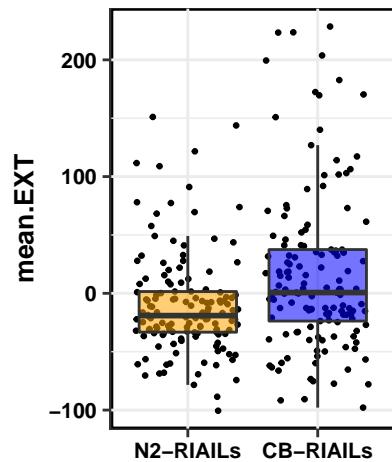
### B



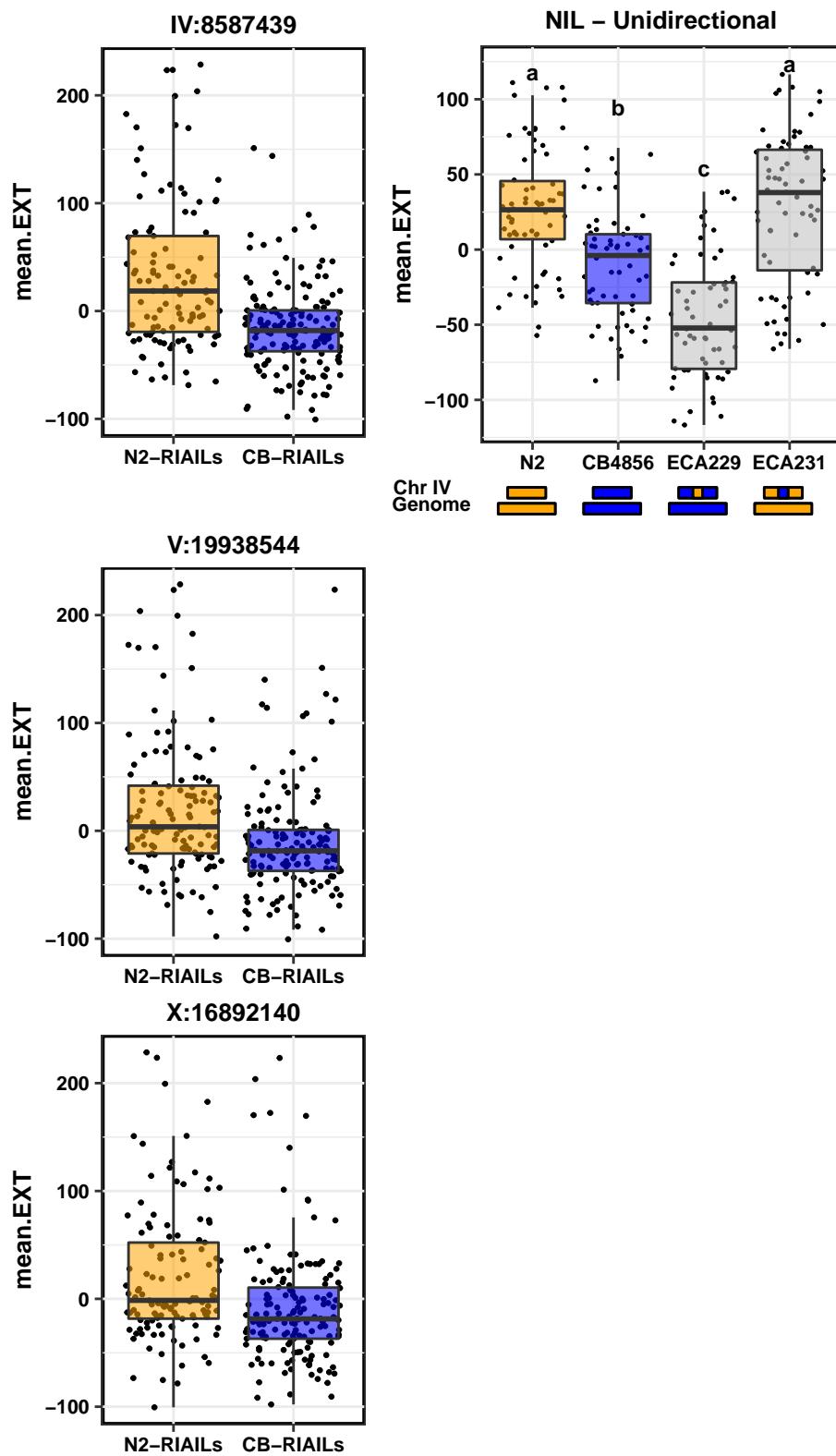
### C I:13294213



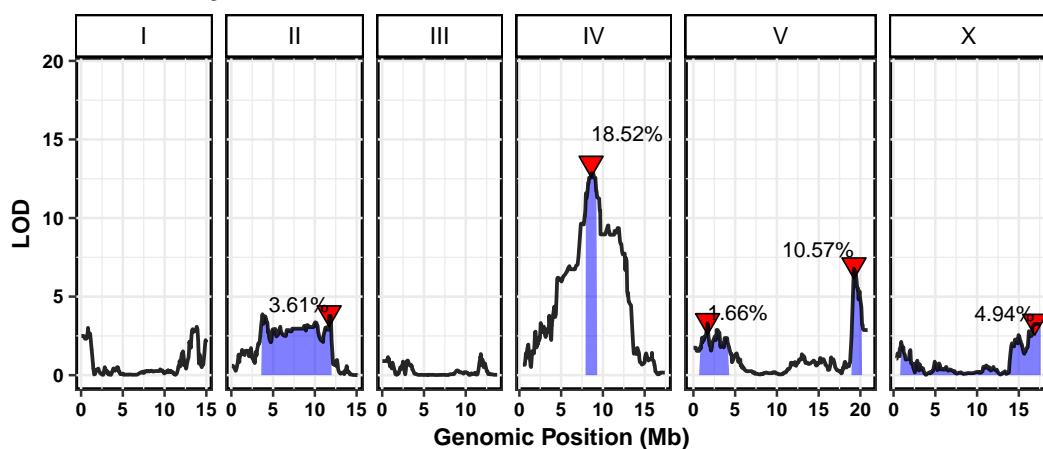
I:13294213



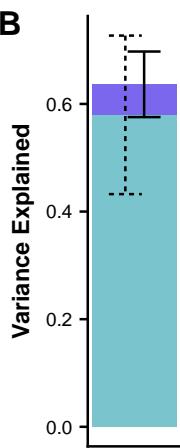
II:10051451



### A tunicamycin.mean.norm.EXT

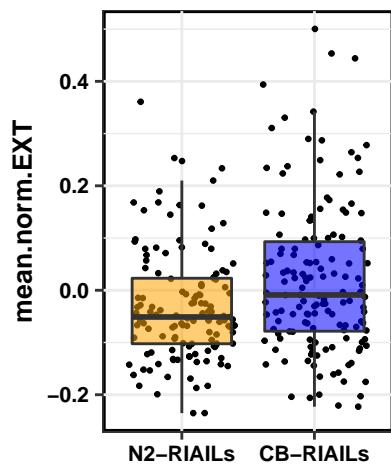


### B

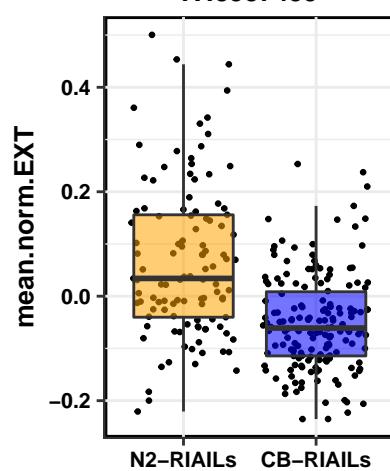


### C

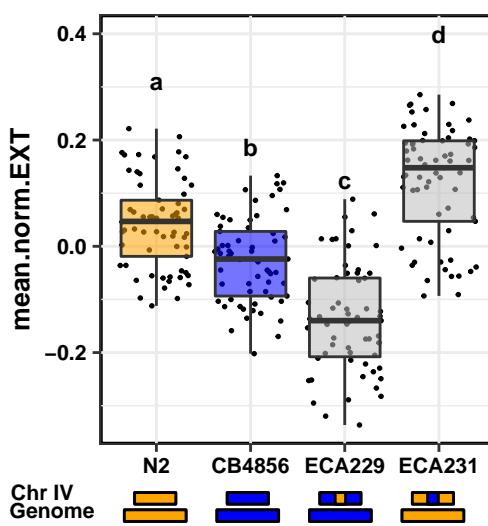
#### II:11709833



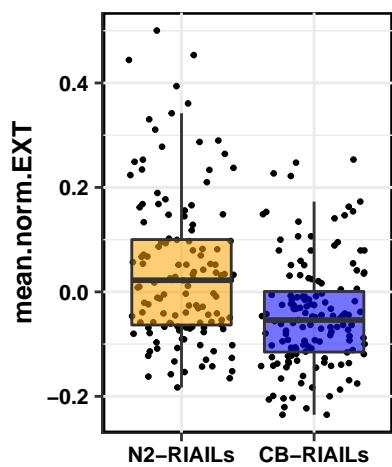
#### IV:8587439



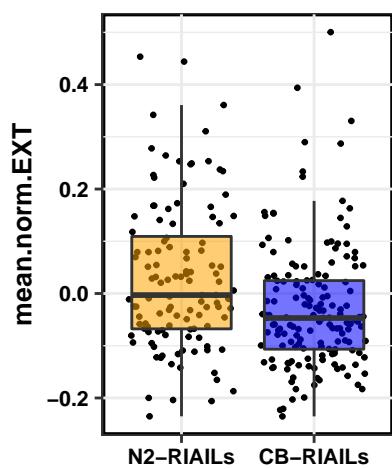
#### NIL – Bidirectional



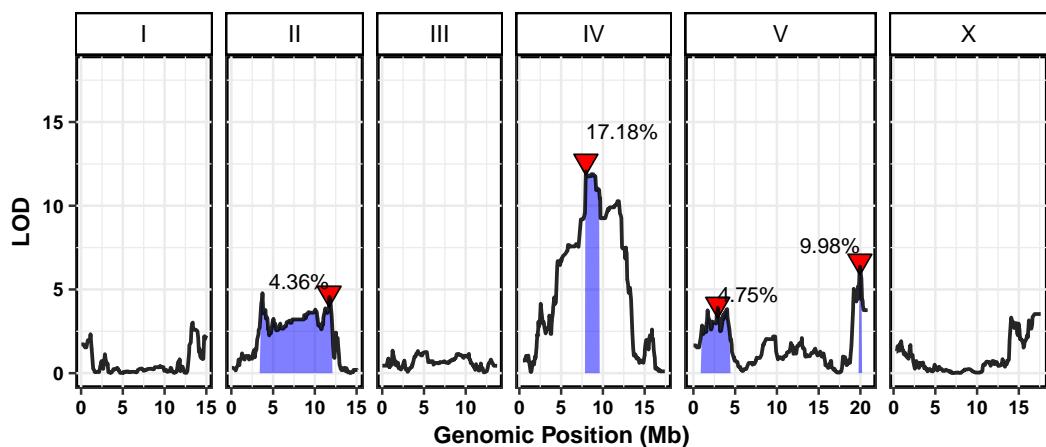
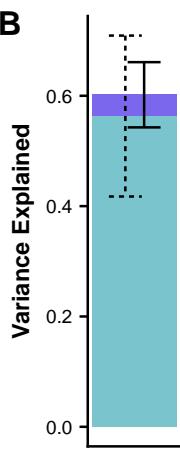
V:19231588



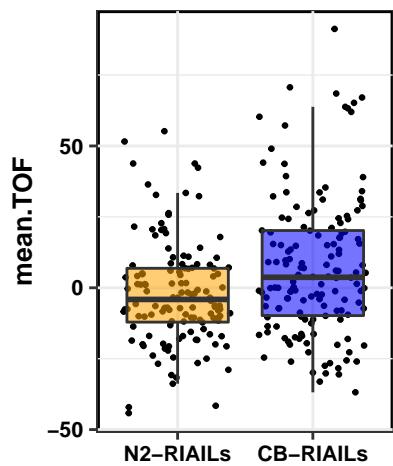
X:16892140



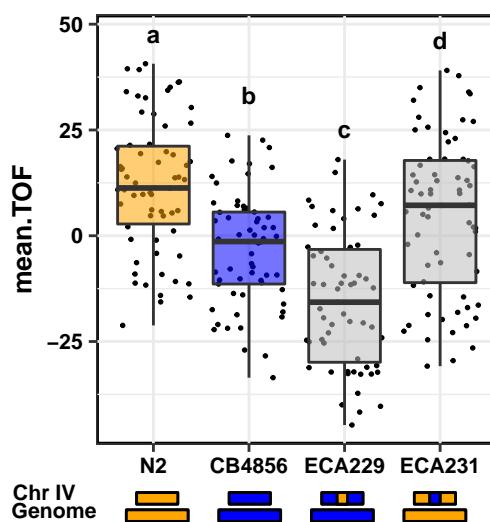
### A tunicamycin.mean.TOF

**B**

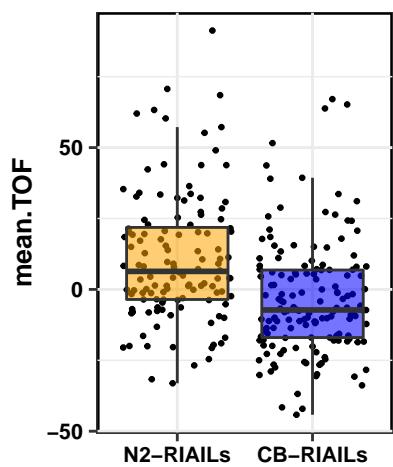
### C II:11709833



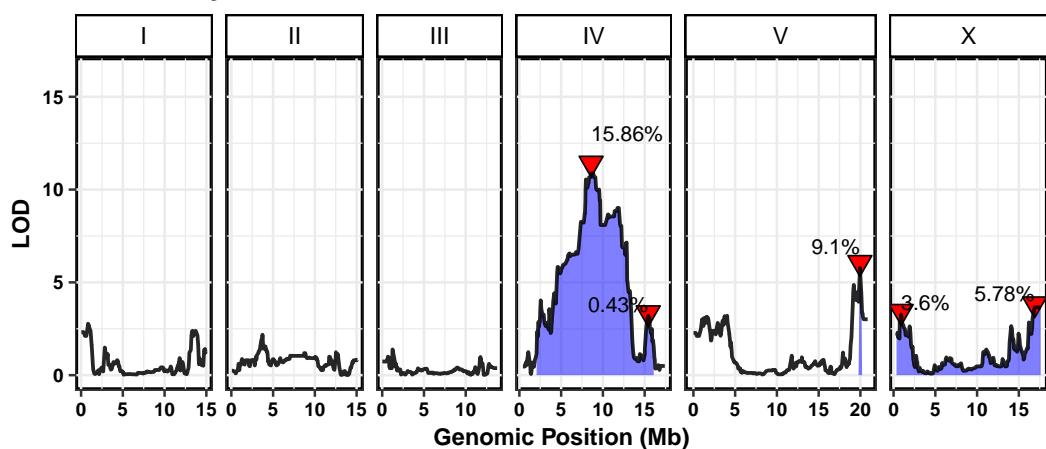
### NIL - Unidirectional



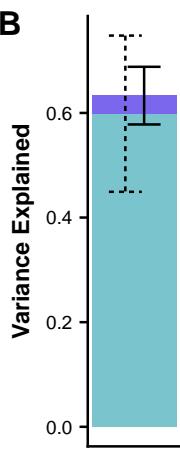
V:19938544



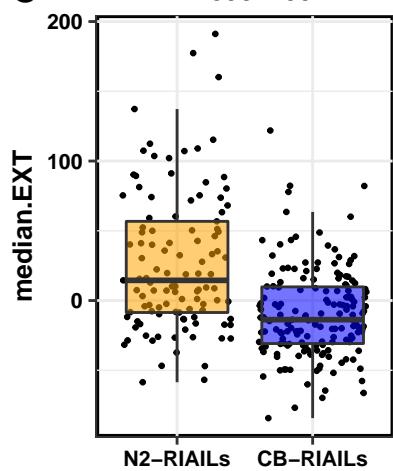
### A tunicamycin.median.EXT



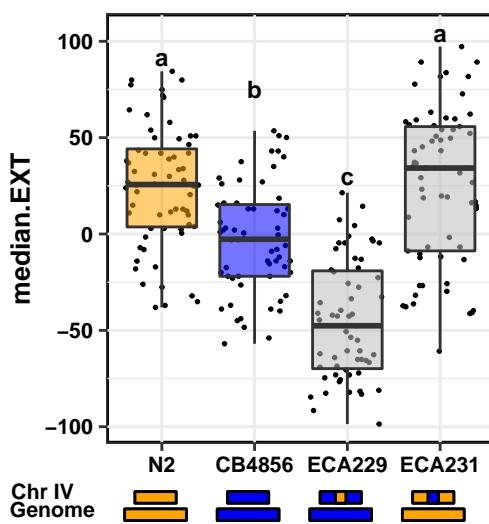
### B



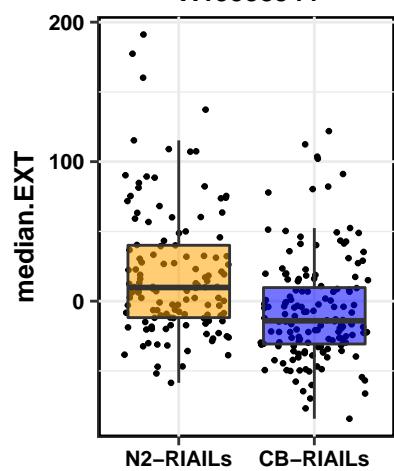
### C IV:8587439

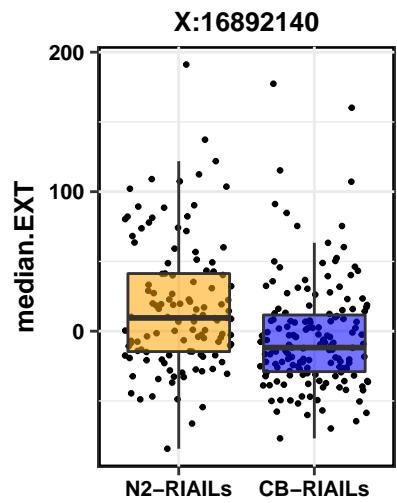


### NIL – Unidirectional

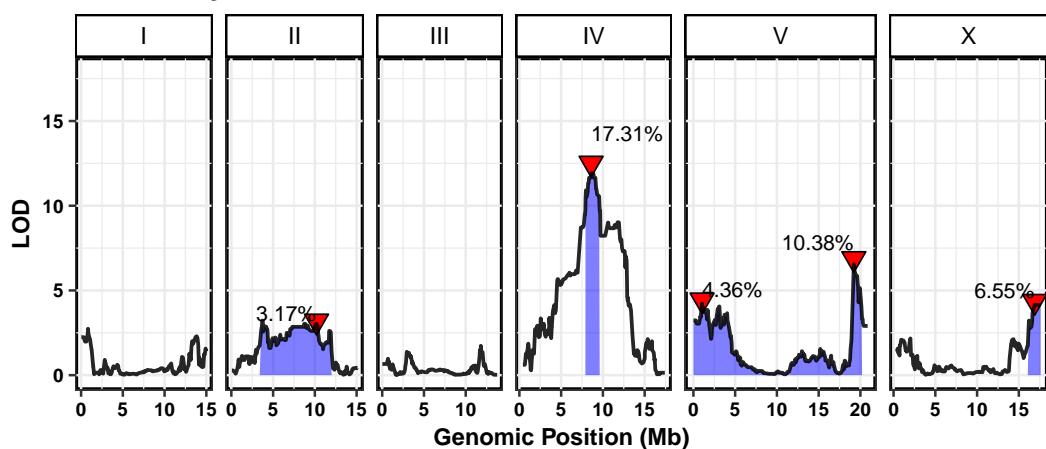


### V:19938544

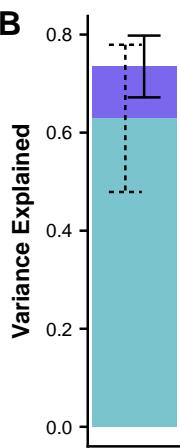




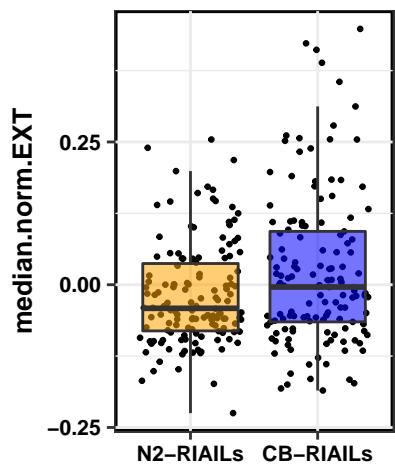
### A tunicamycin.median.norm.EXT



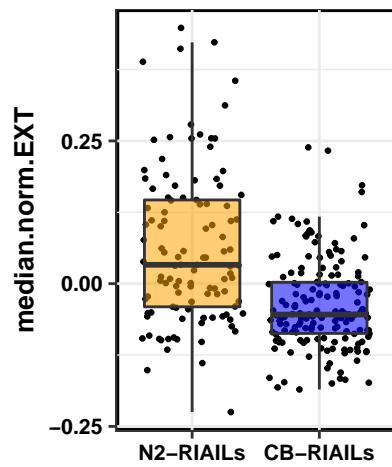
B



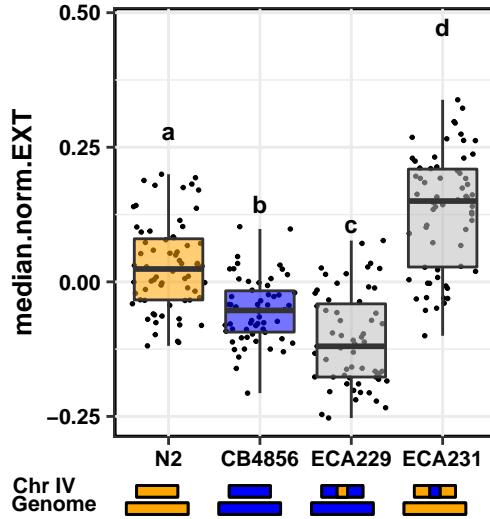
### C II:10201103

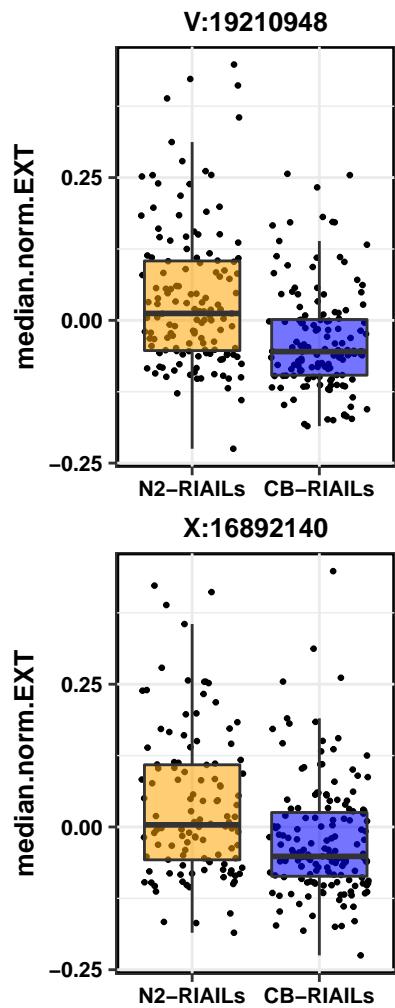


### IV:8587439

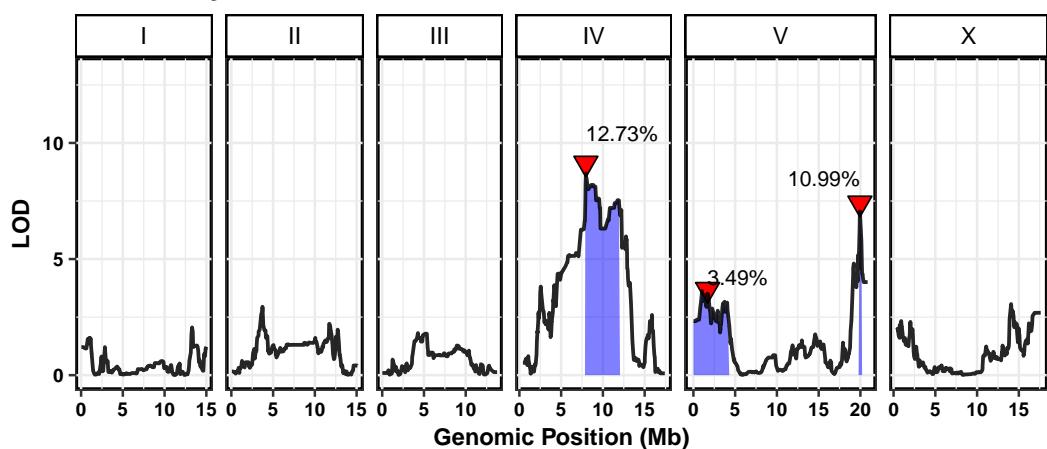


### NIL – Bidirectional

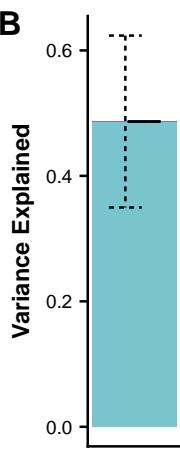




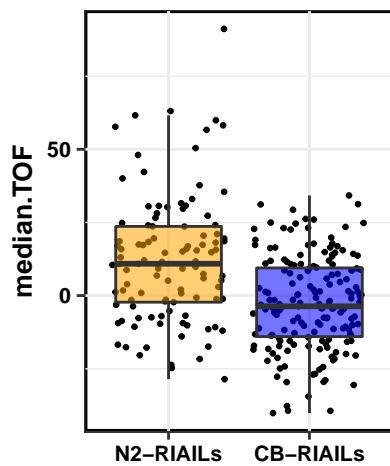
### A tunicamycin.median.TOF



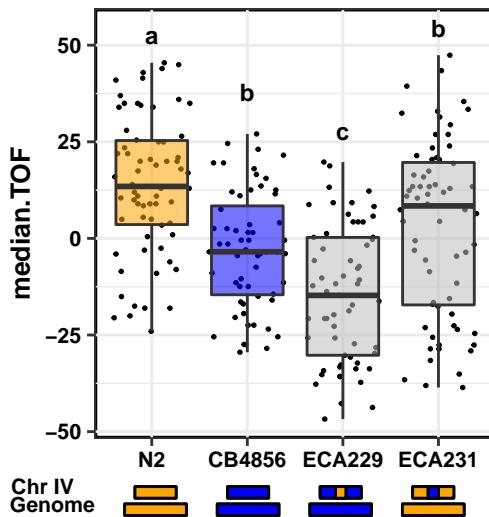
### B



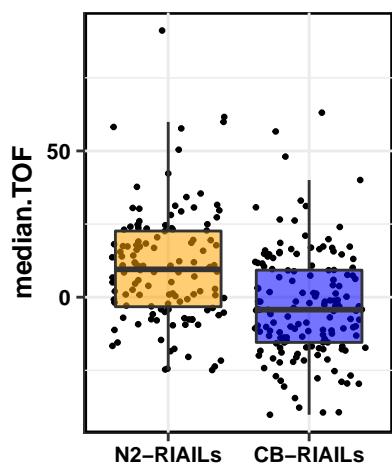
### C IV:7963446

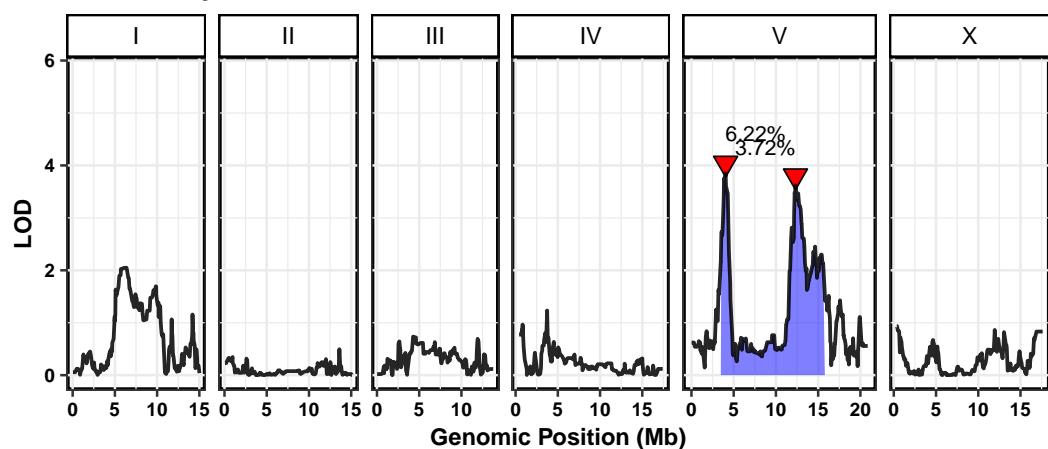
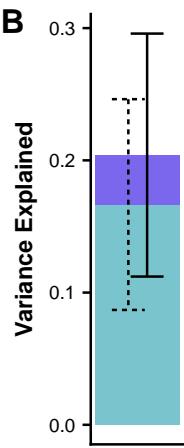
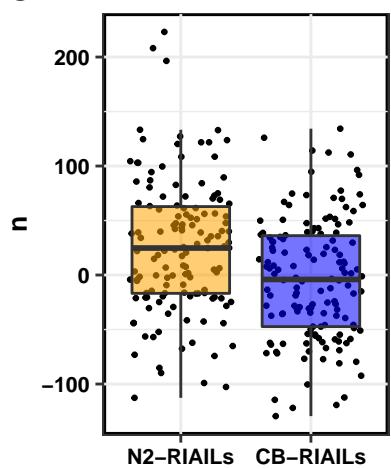


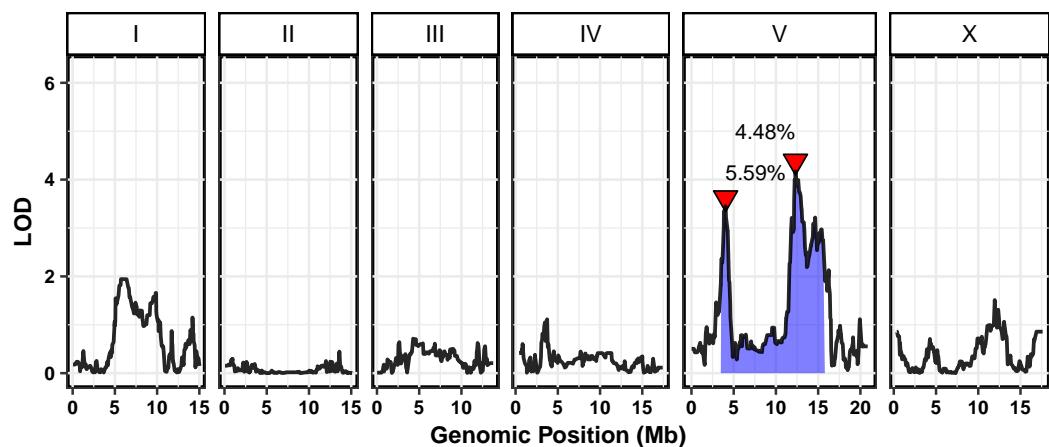
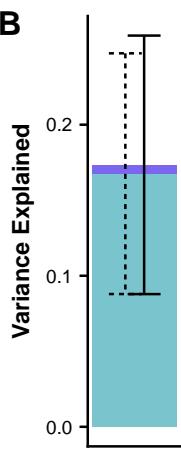
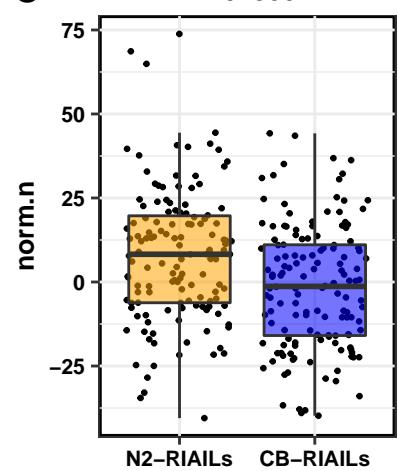
### NIL – Unidirectional



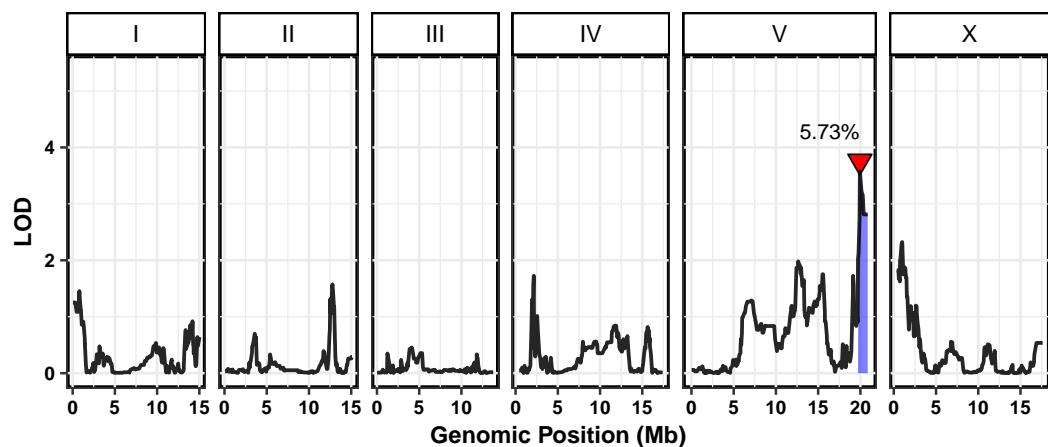
### V:19938544



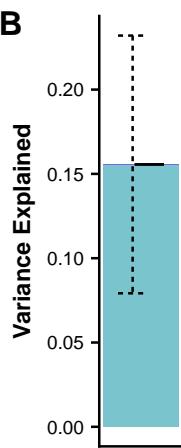
**A tunicamycin.n****B****C V:4043502**

**A tunicamycin.norm.n****B****C V:4043502**

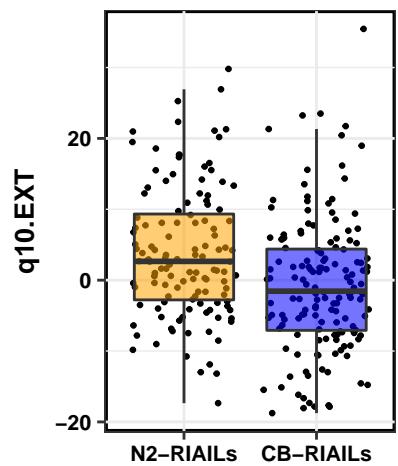
### A tunicamycin.q10.EXT



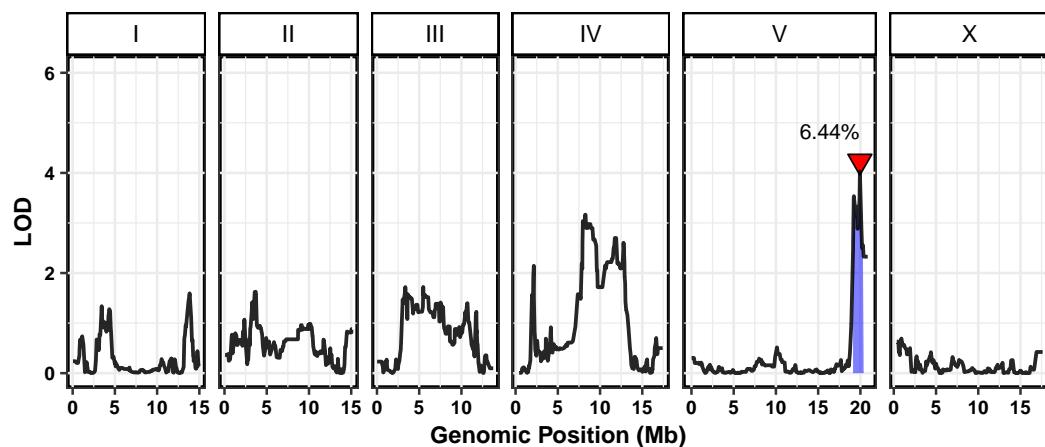
### B



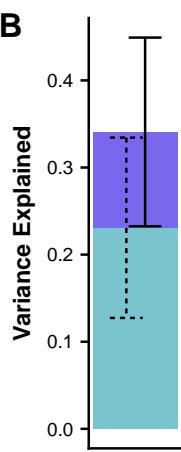
### C V:19938544



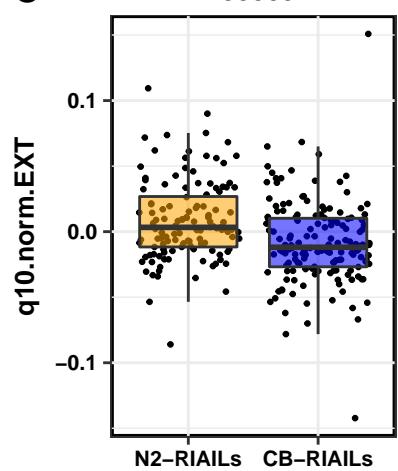
### A tunicamycin.q10.norm.EXT



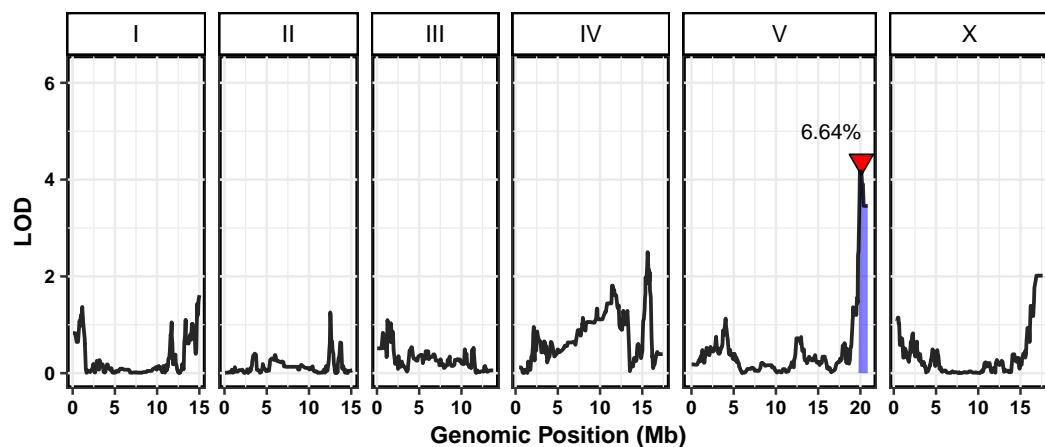
### B



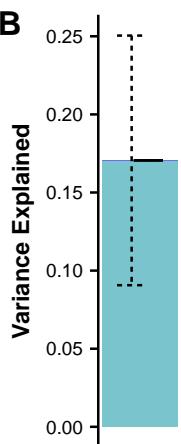
### C V:19938544



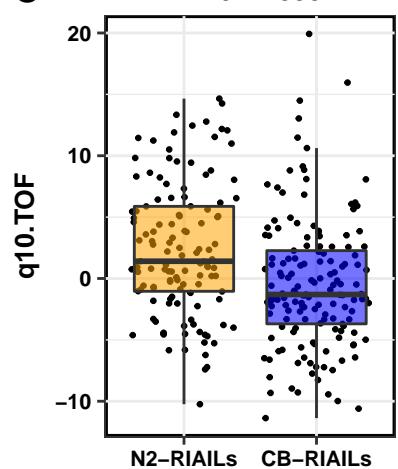
### A tunicamycin.q10.TOF



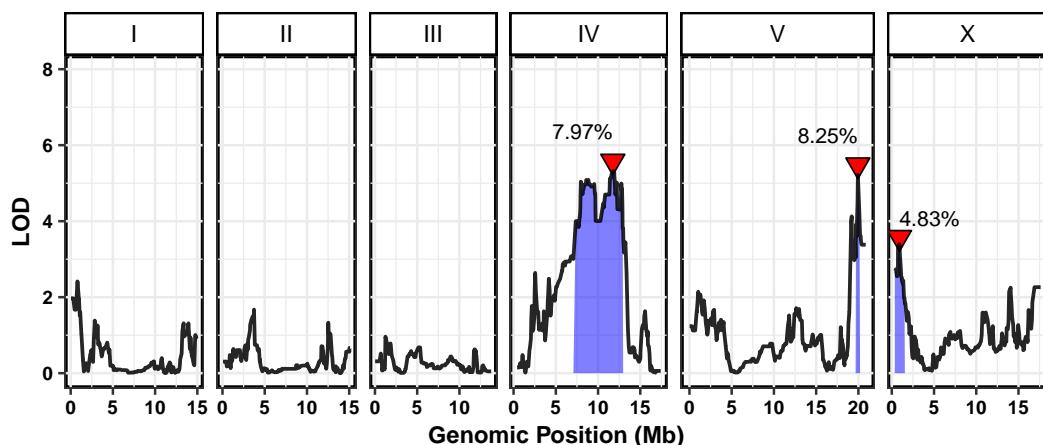
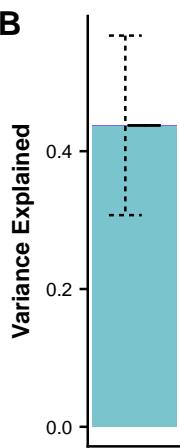
### B



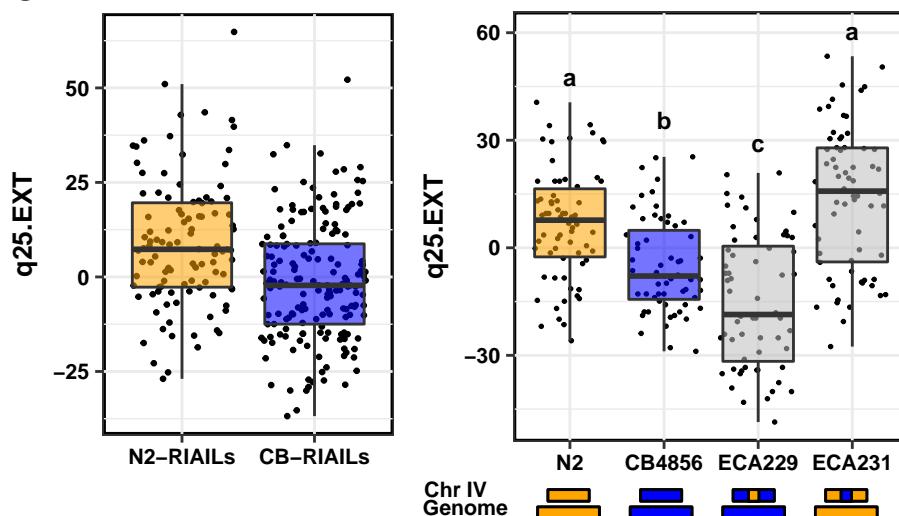
### C V:20117398



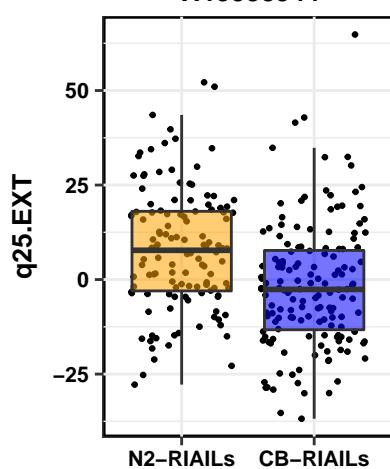
### A tunicamycin.q25.EXT

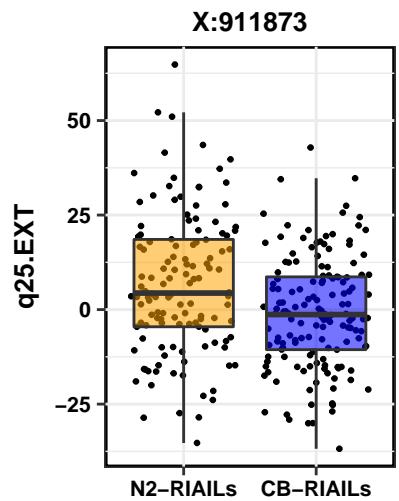

**B**


### C IV:11747270

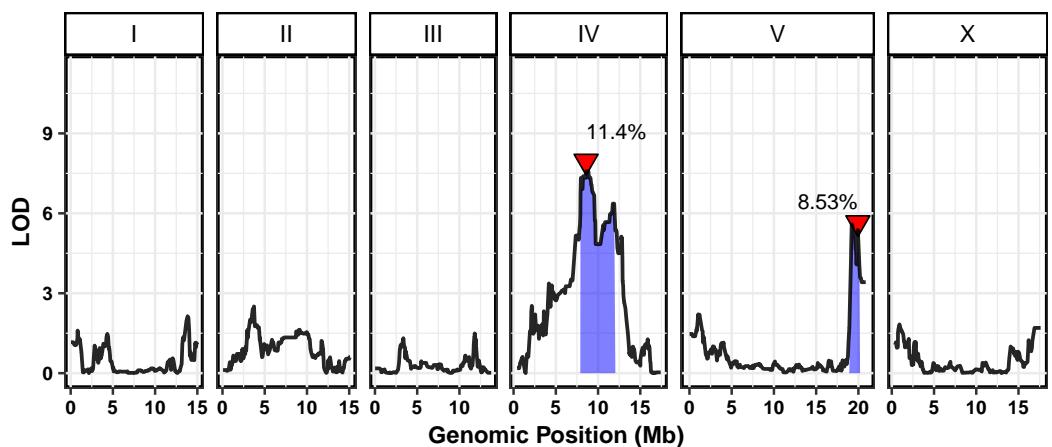
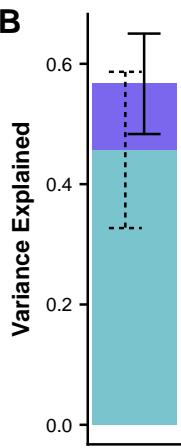


### V:19938544

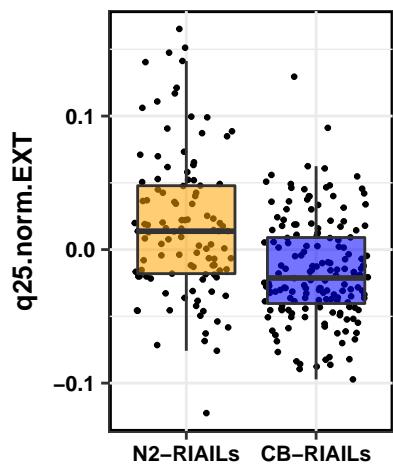




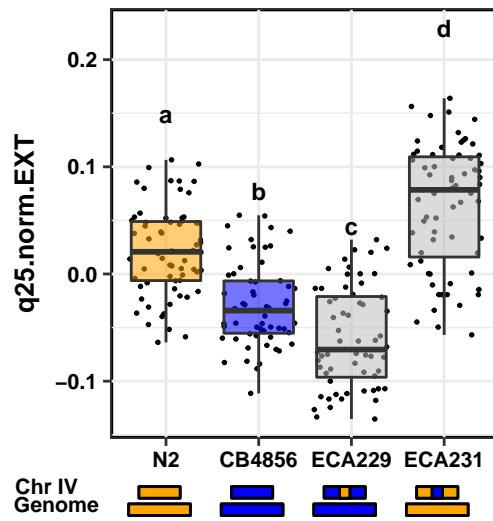
### A tunicamycin.q25.norm.EXT


**B**


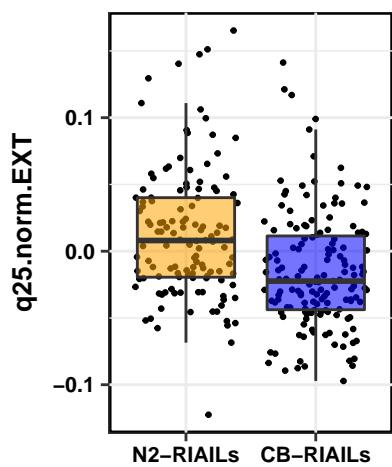
### C IV:8587439



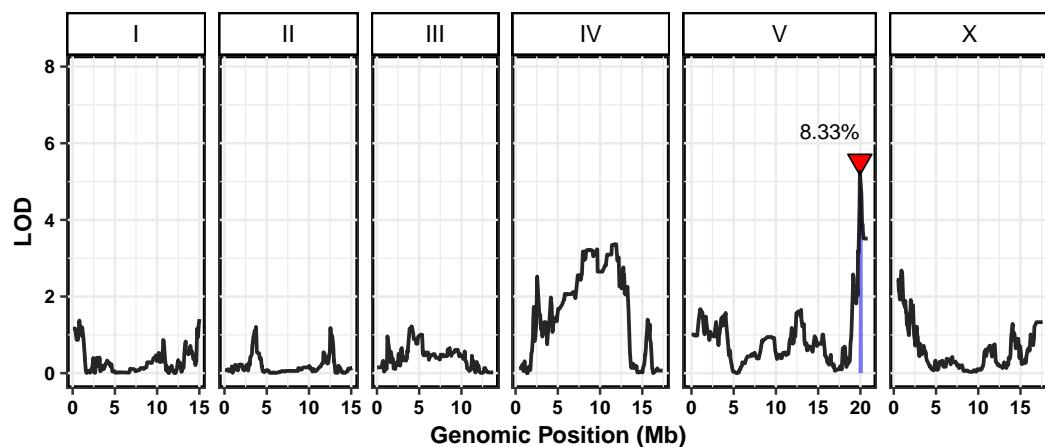
### NIL – Bidirectional



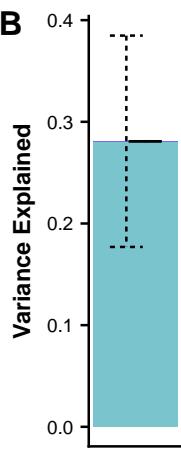
### V:19938544



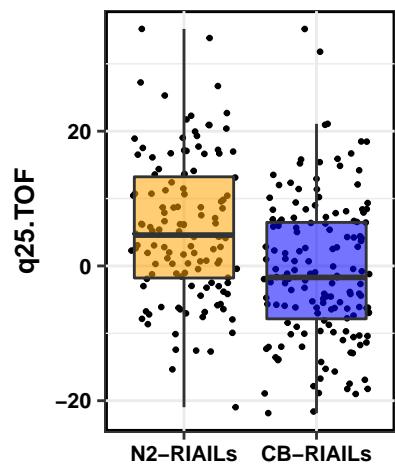
### A tunicamycin.q25.TOF



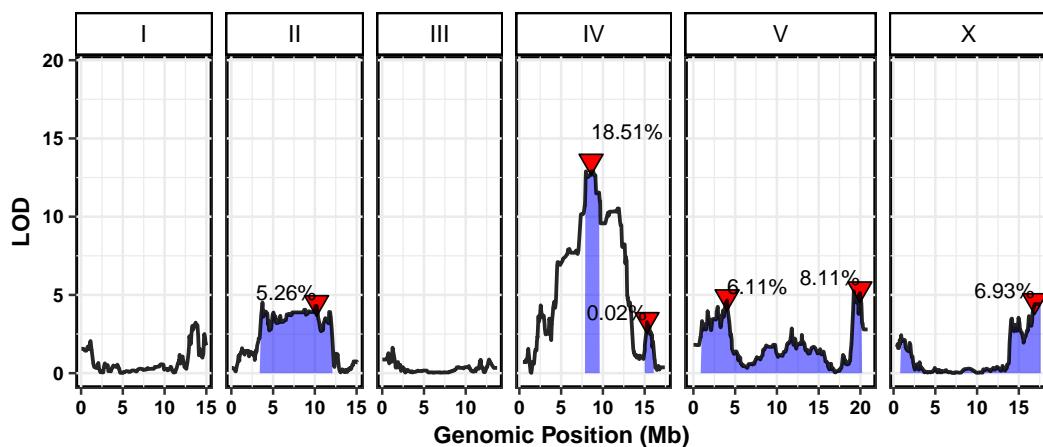
### B



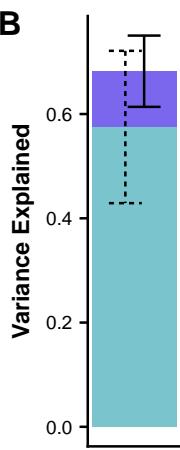
### C V:19938544



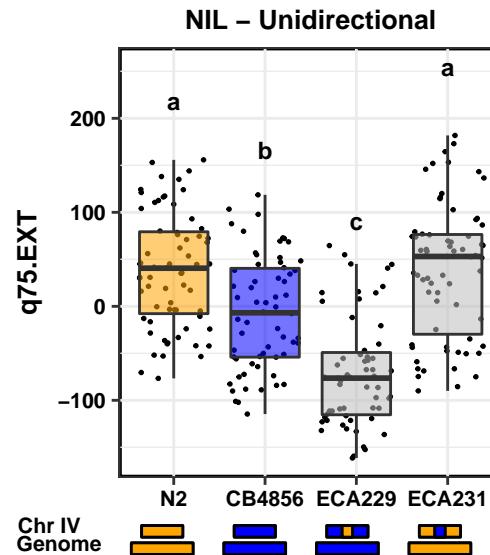
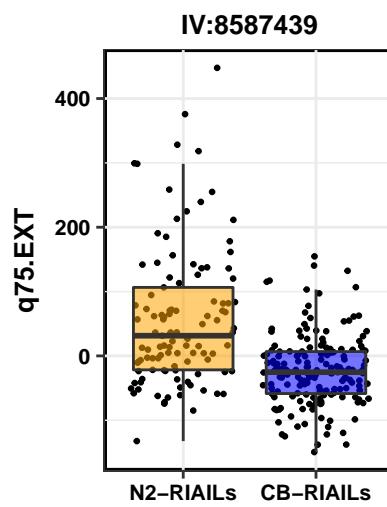
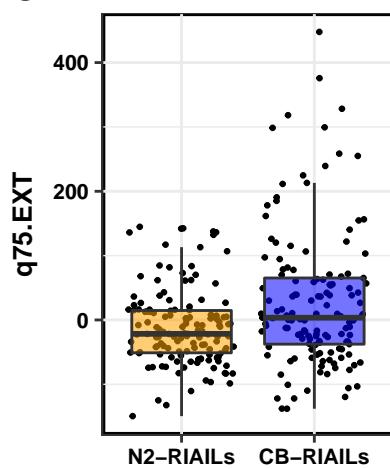
### A tunicamycin.q75.EXT



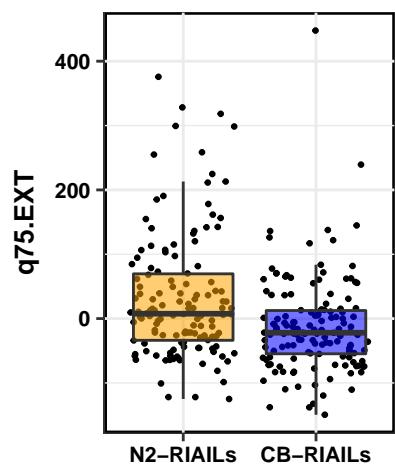
B



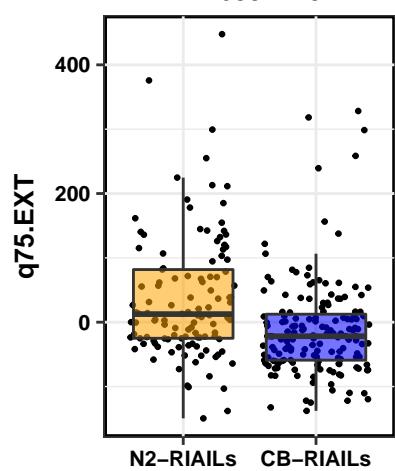
### C



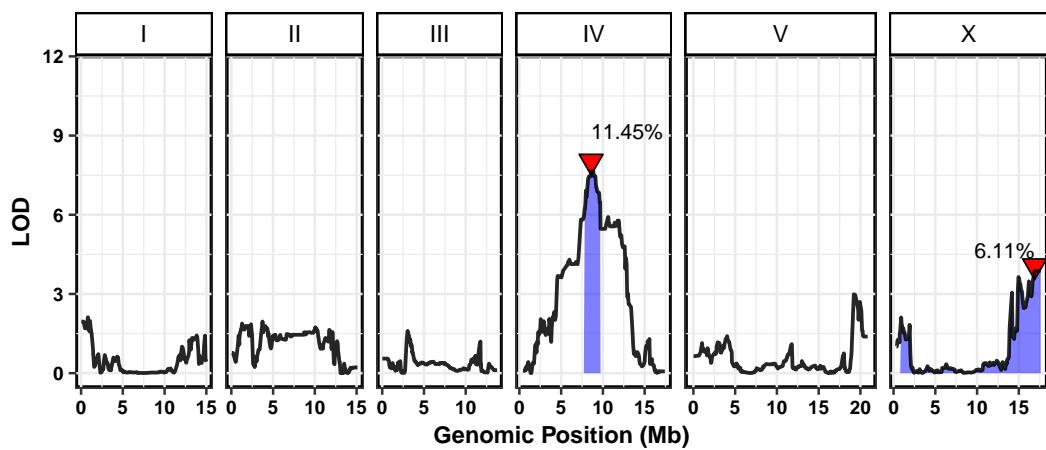
V:4043502



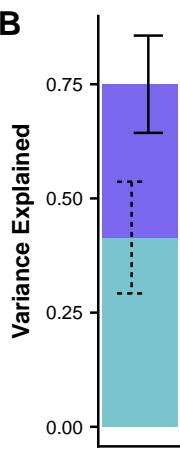
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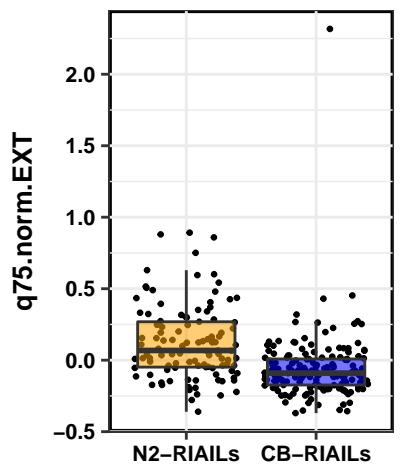
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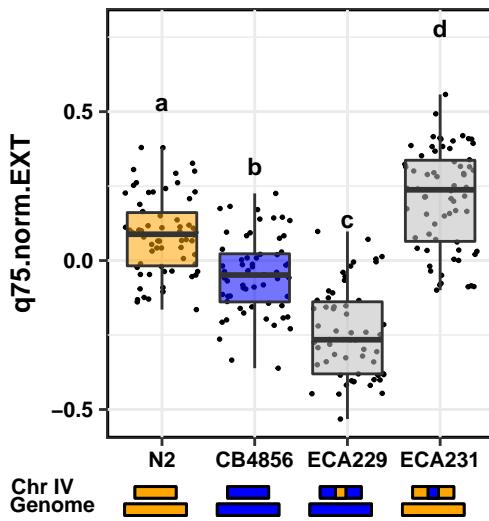
### B



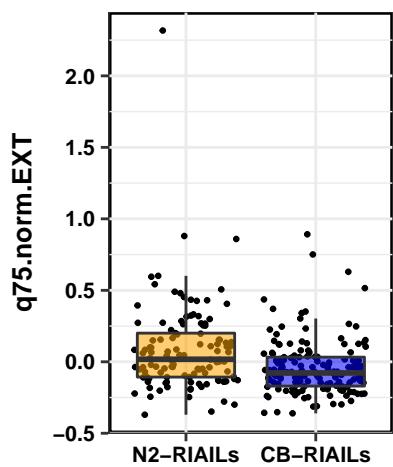
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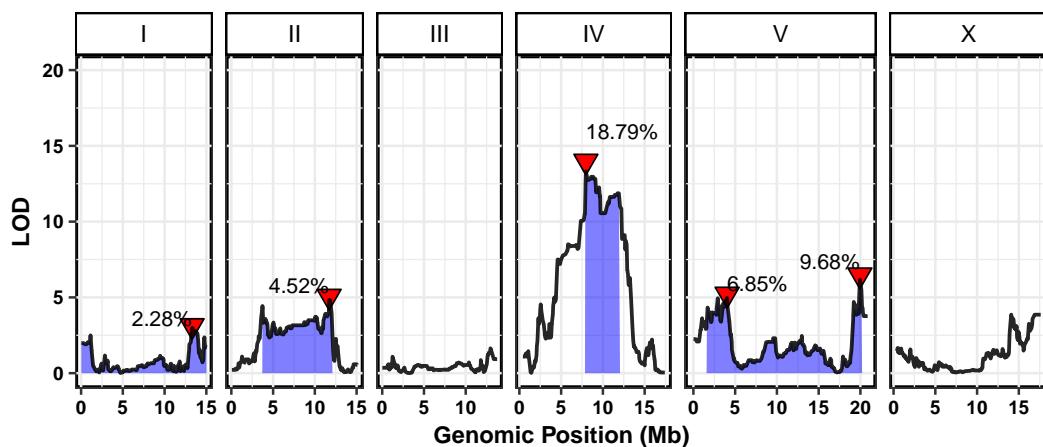
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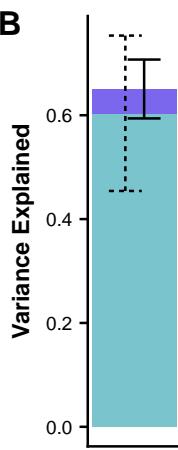
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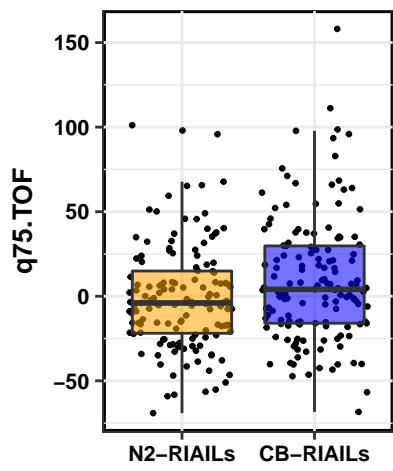


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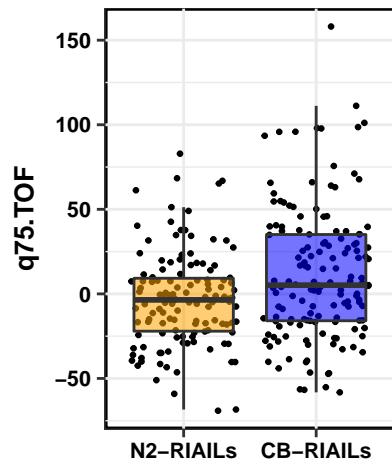


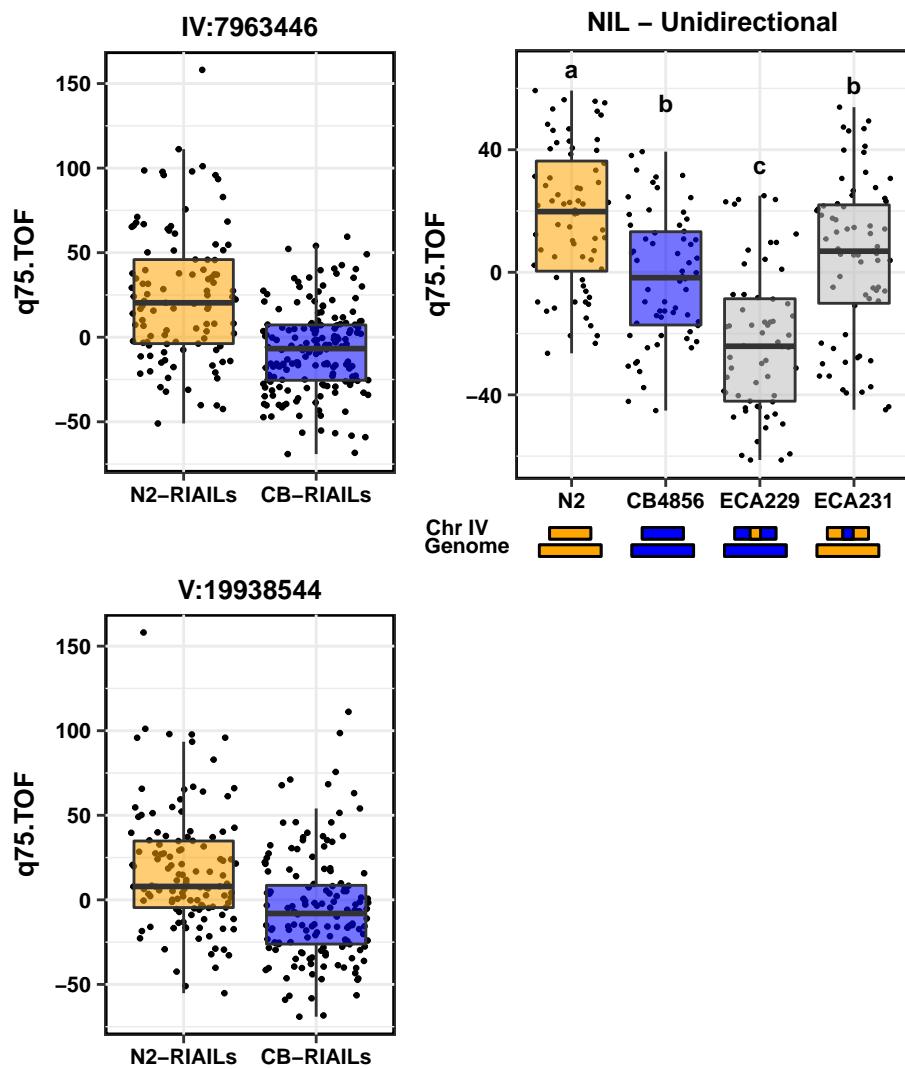
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#### I:13294213

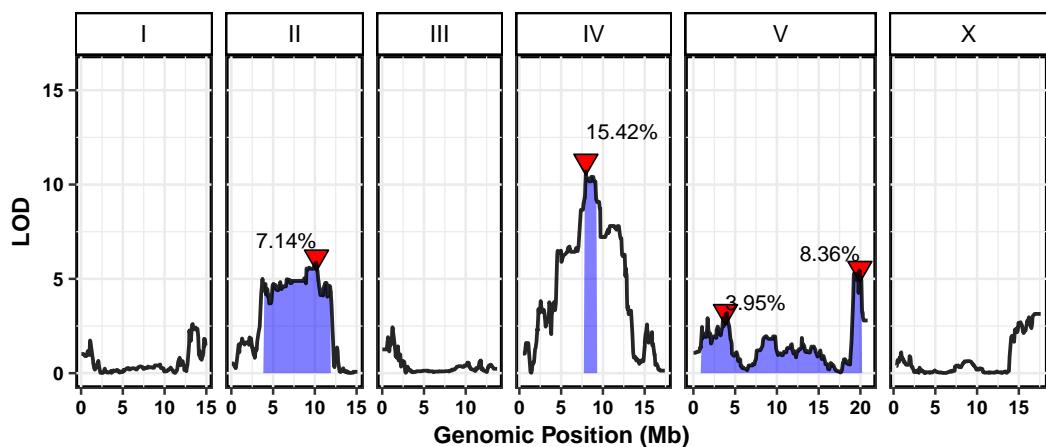


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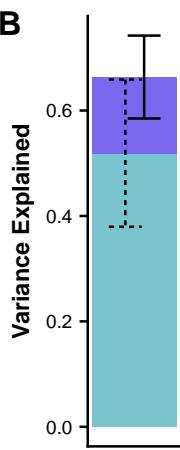




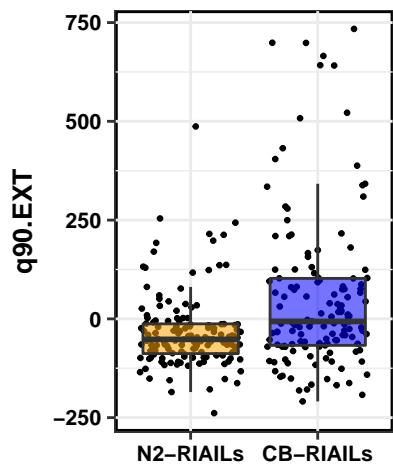
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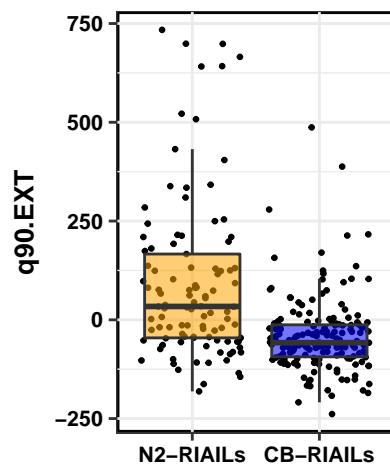
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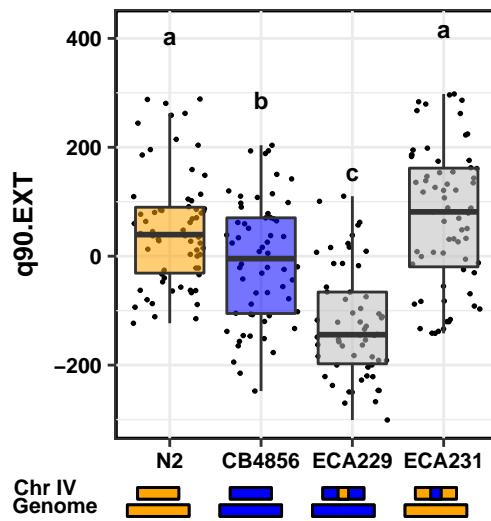
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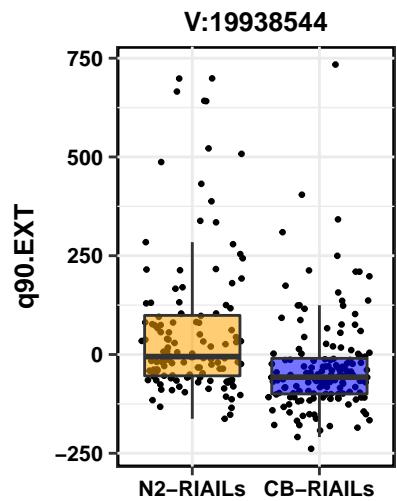


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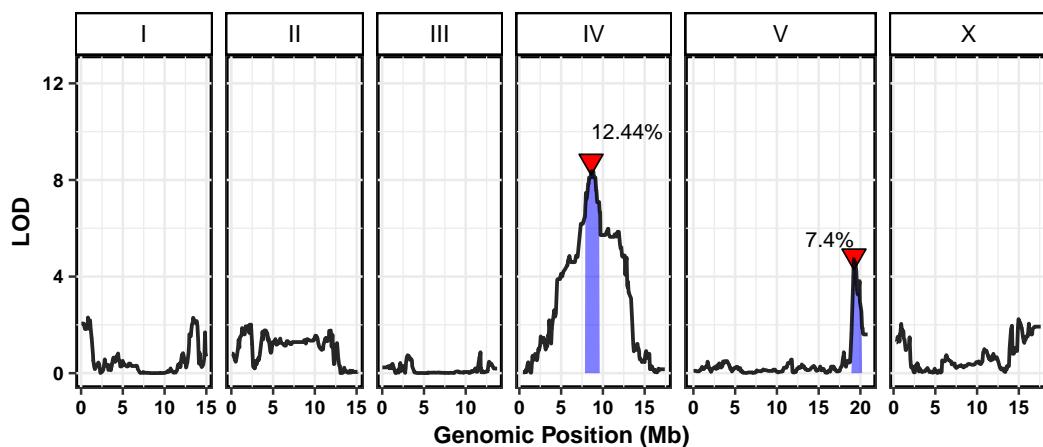


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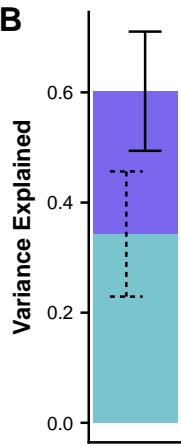




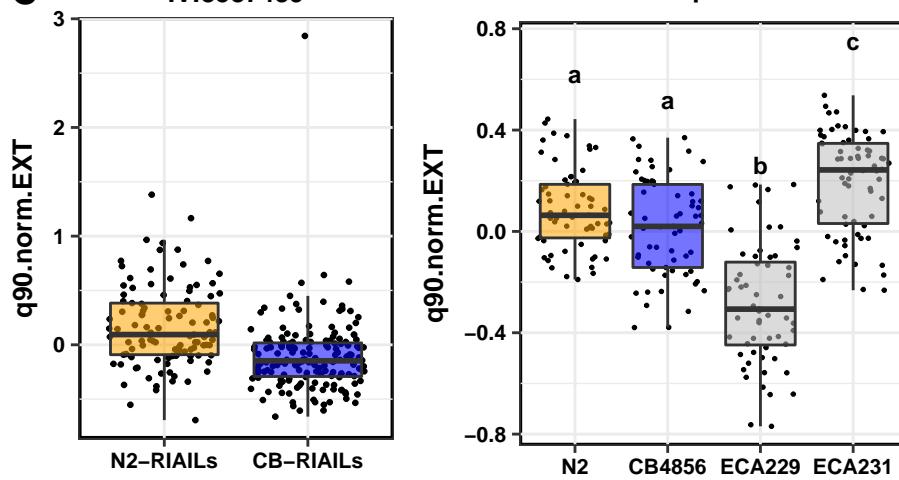
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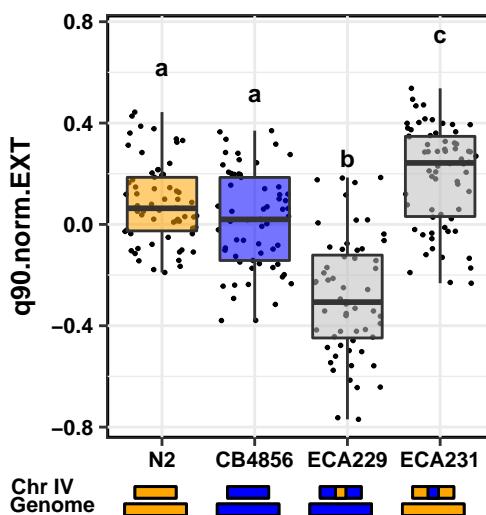
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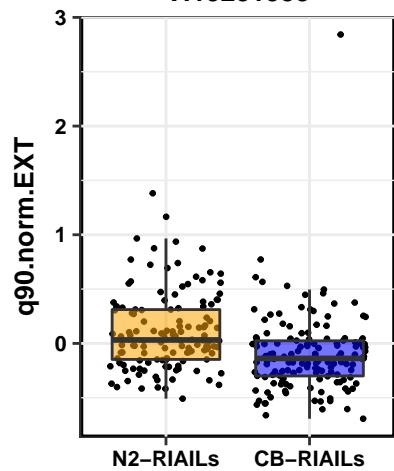
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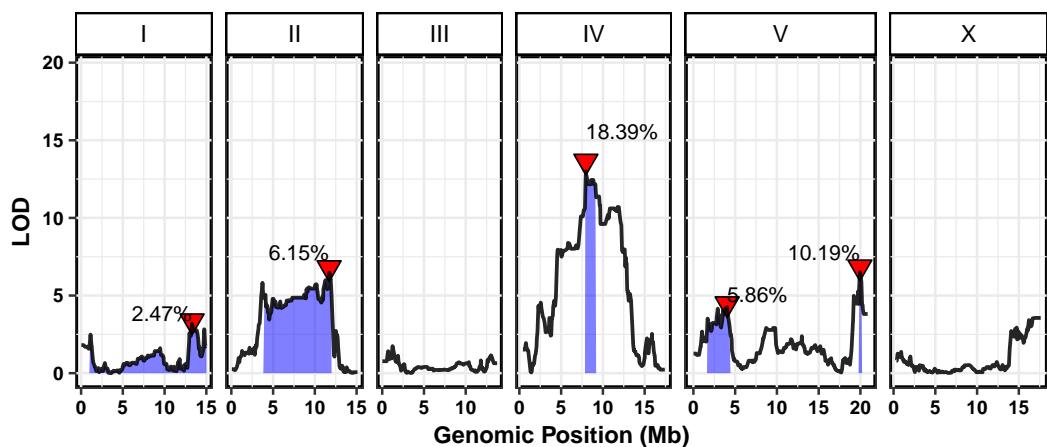
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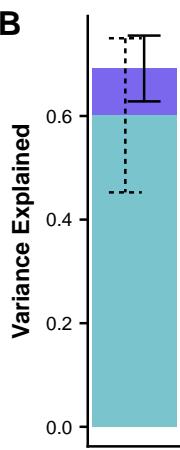
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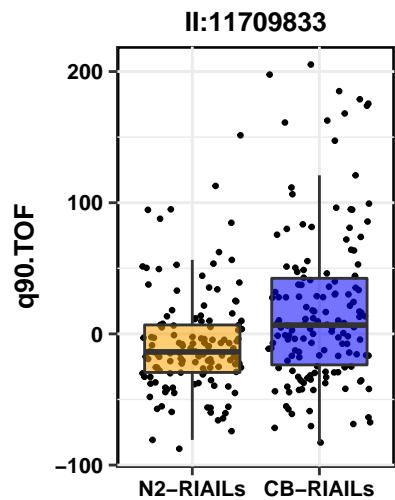
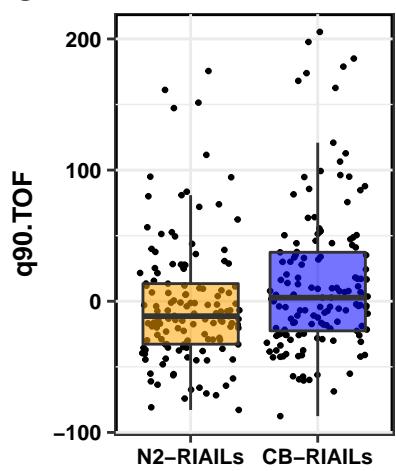
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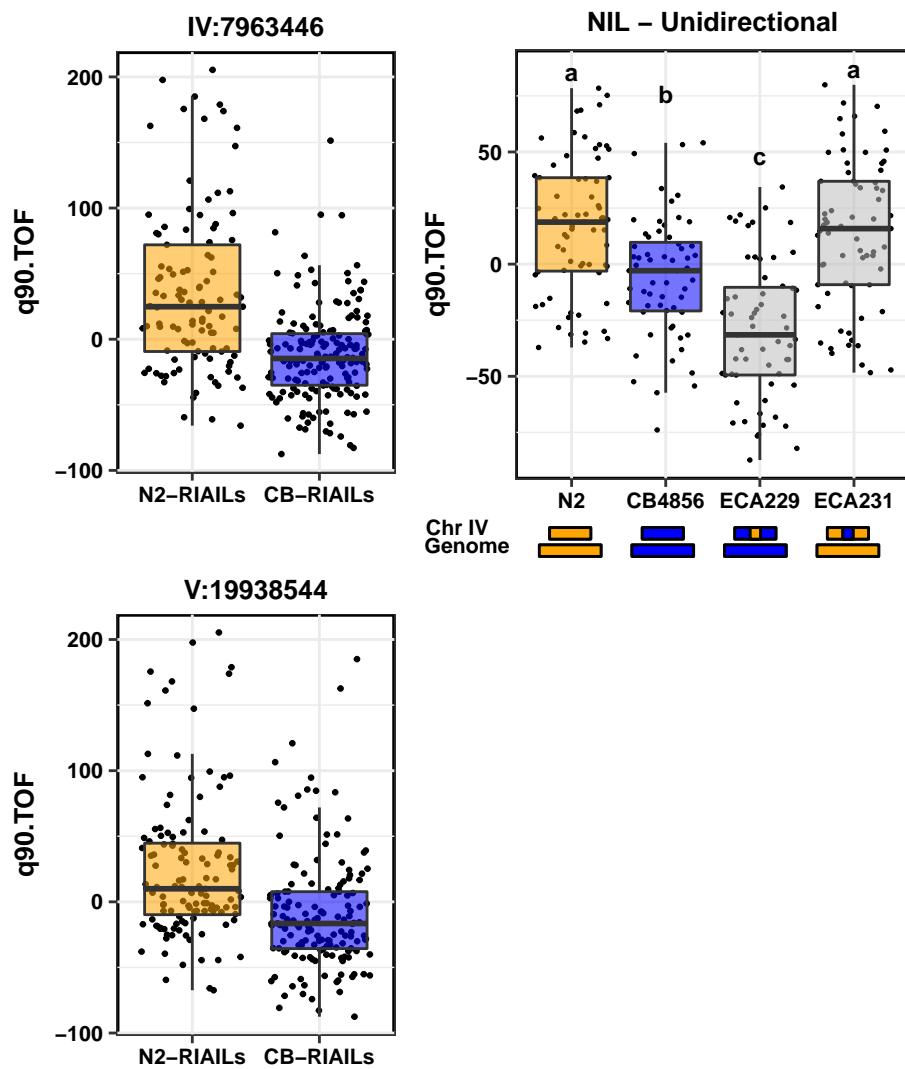


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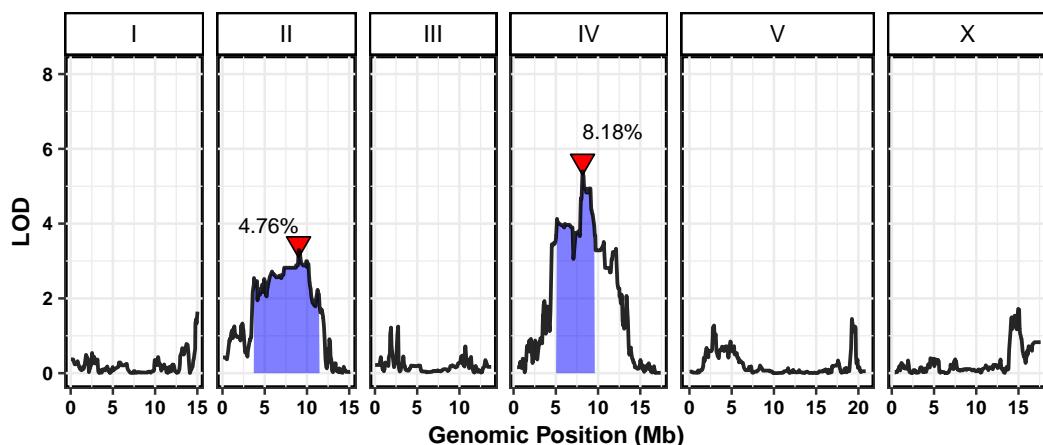


### C

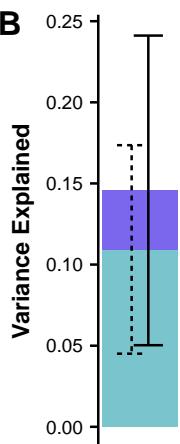




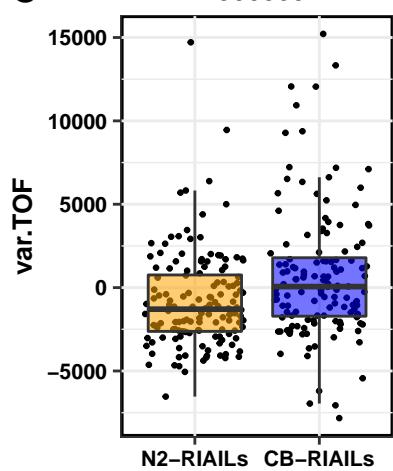
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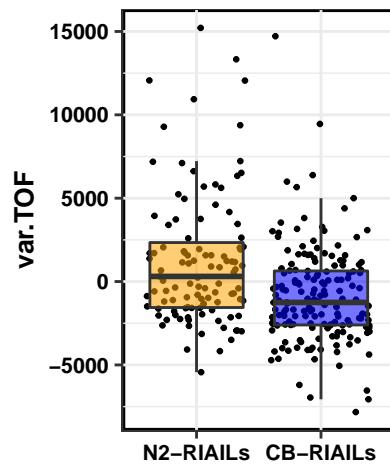
B



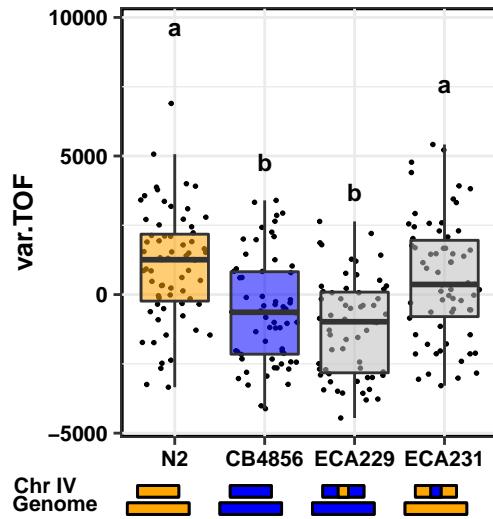
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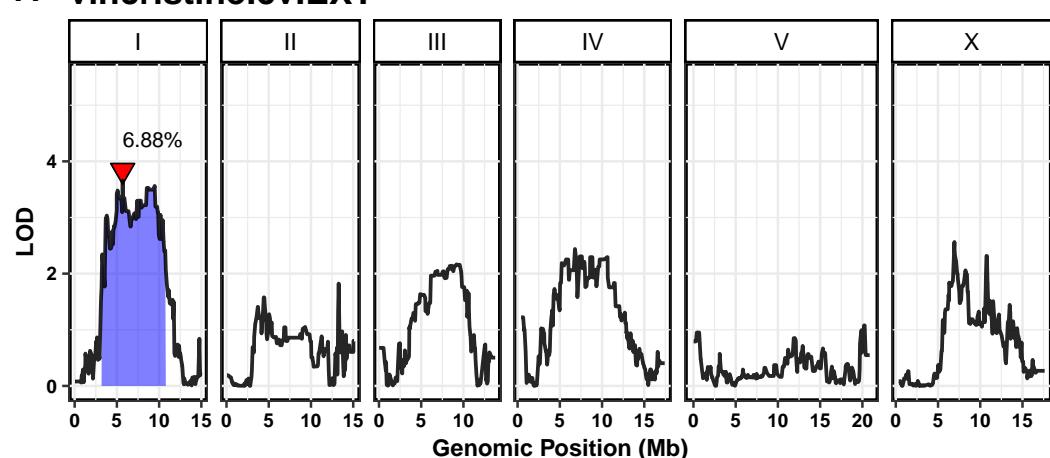
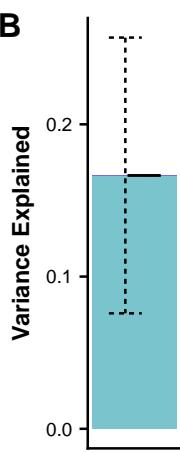
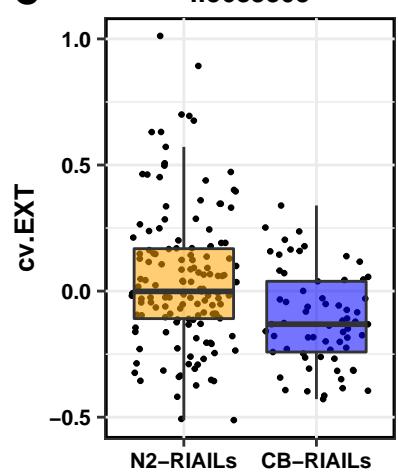
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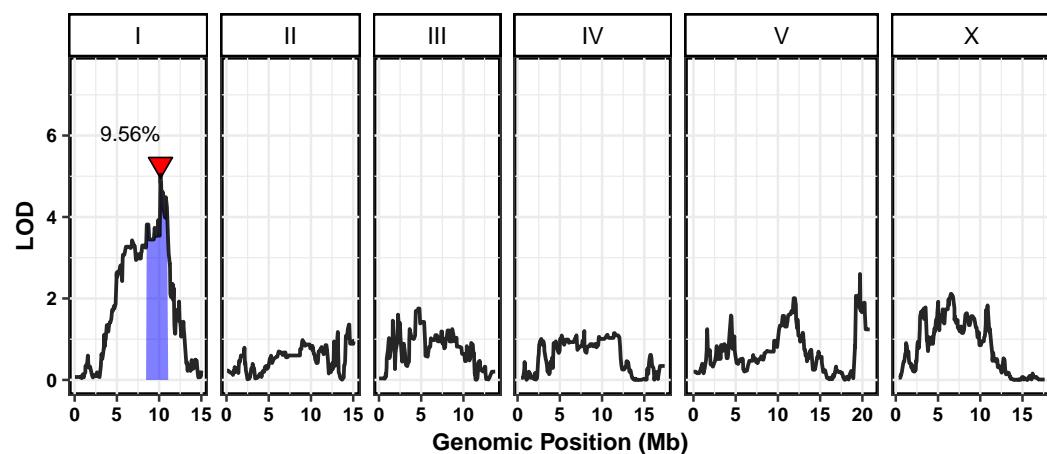
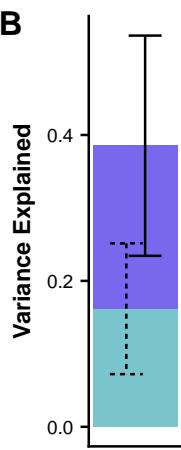
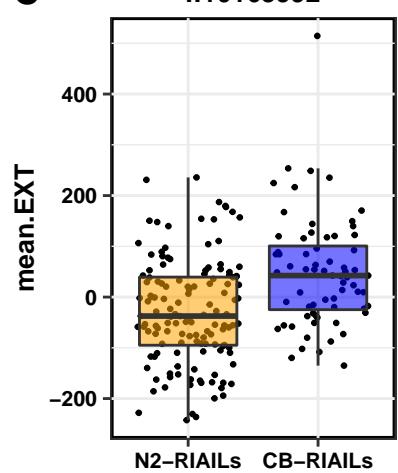


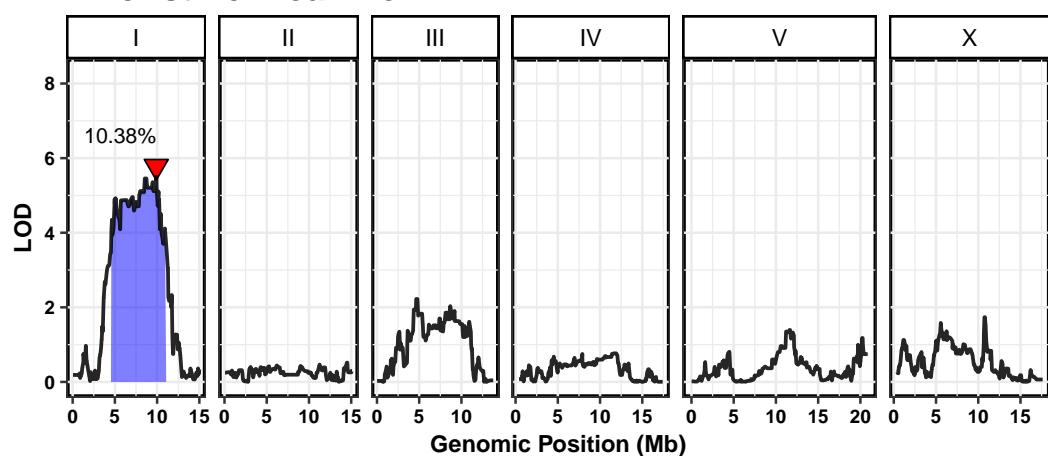
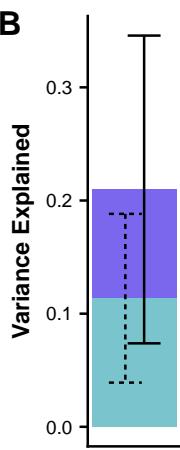
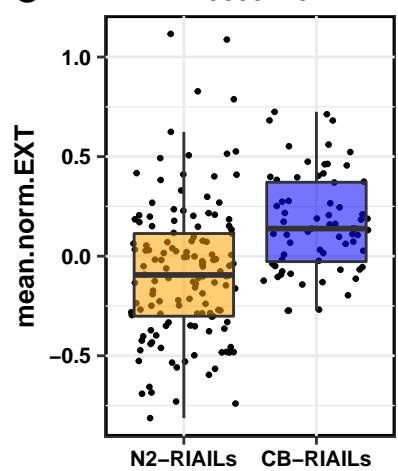
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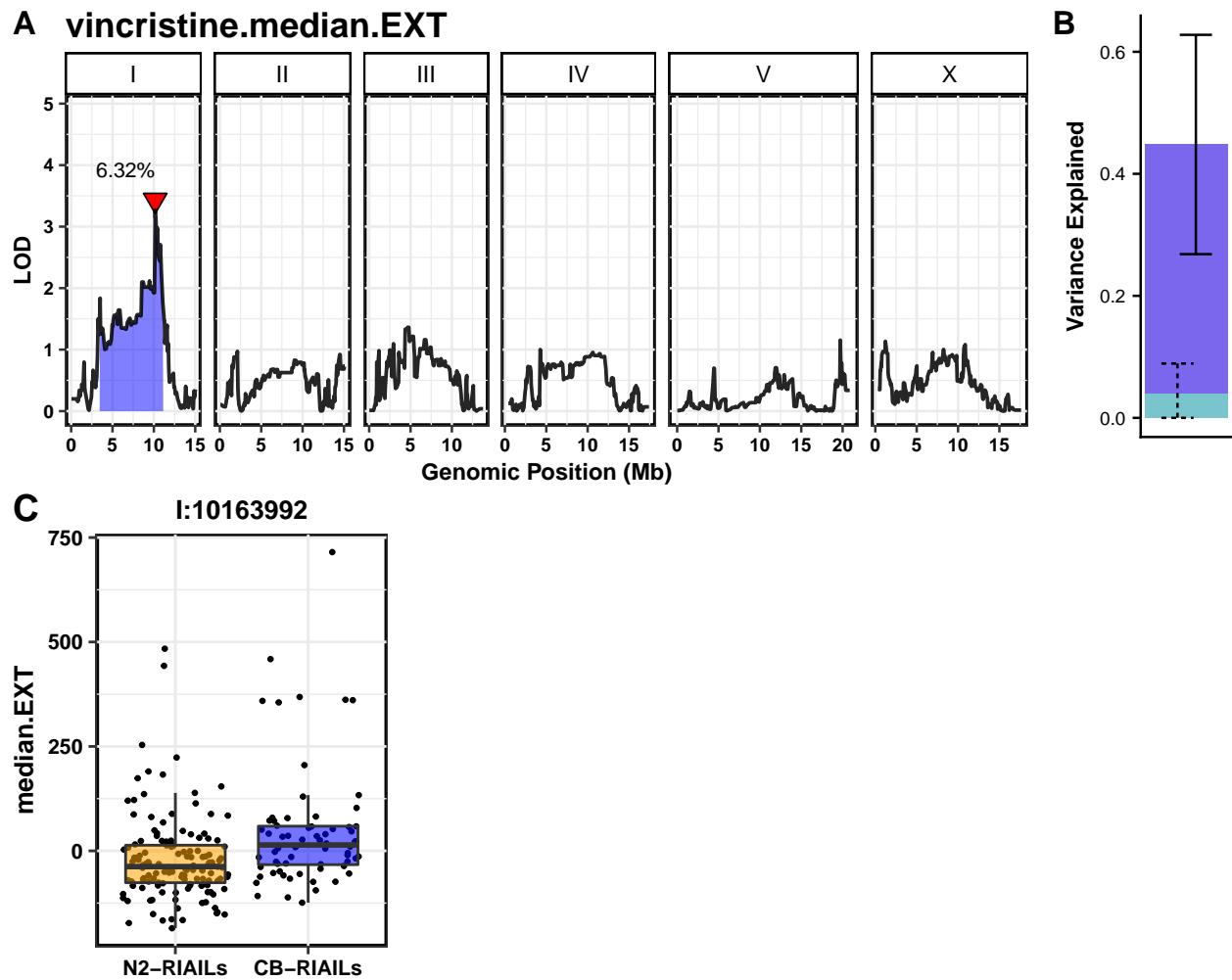


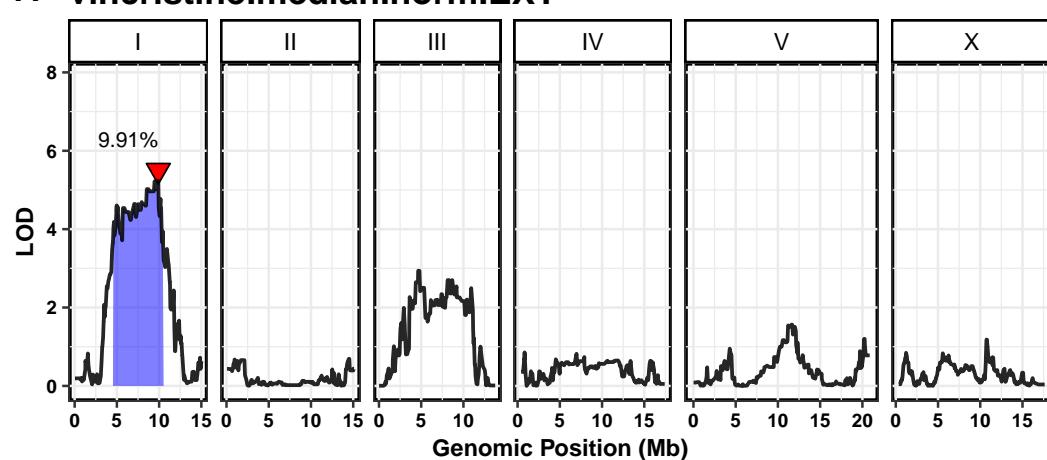
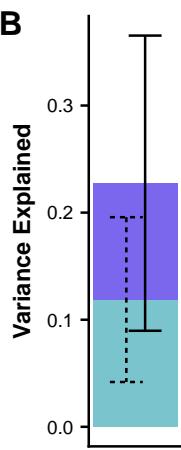
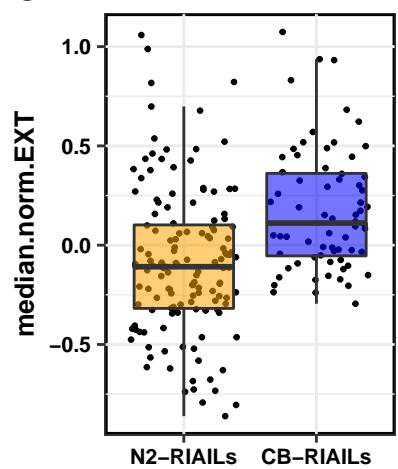
Chr IV  
Genome

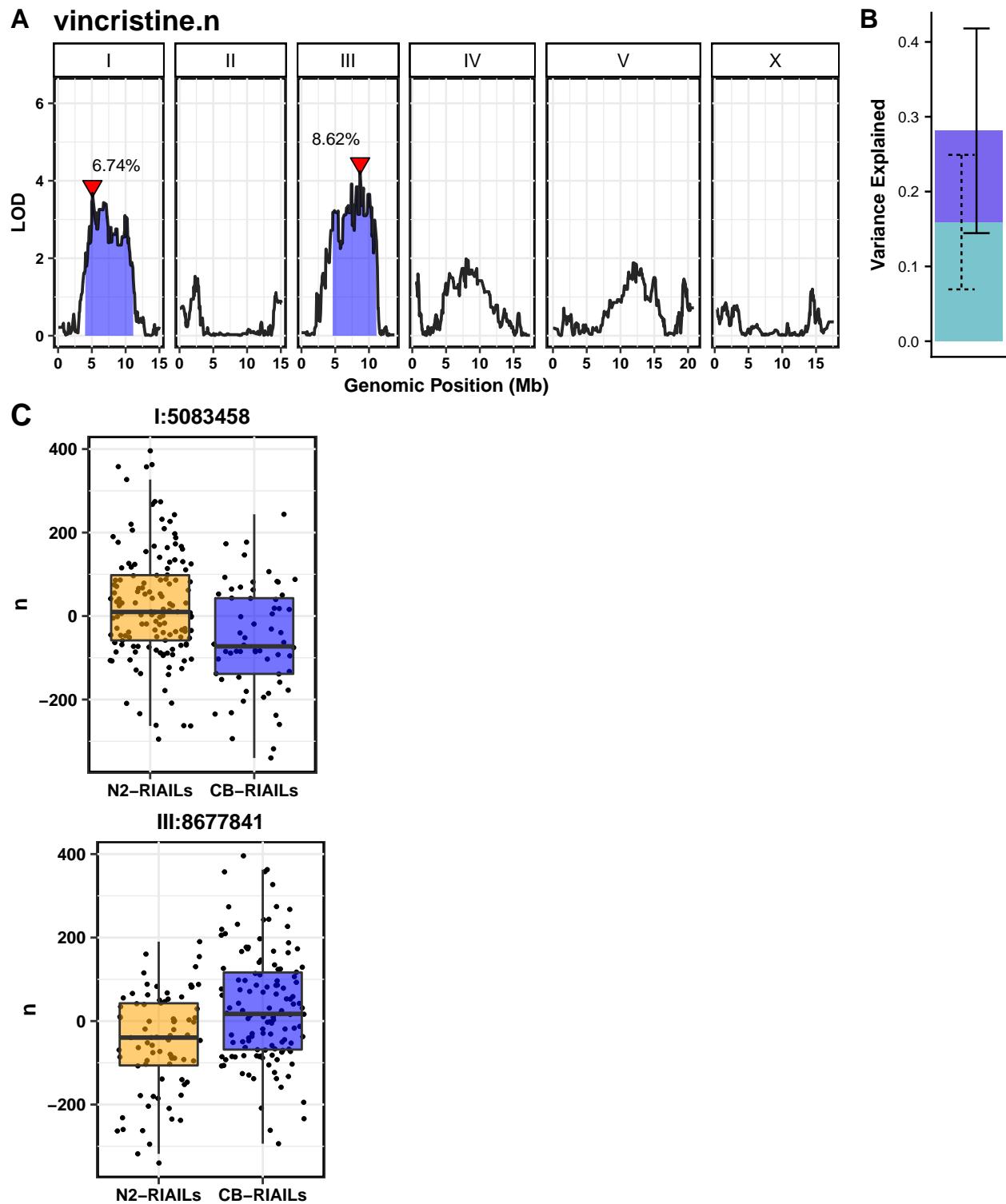
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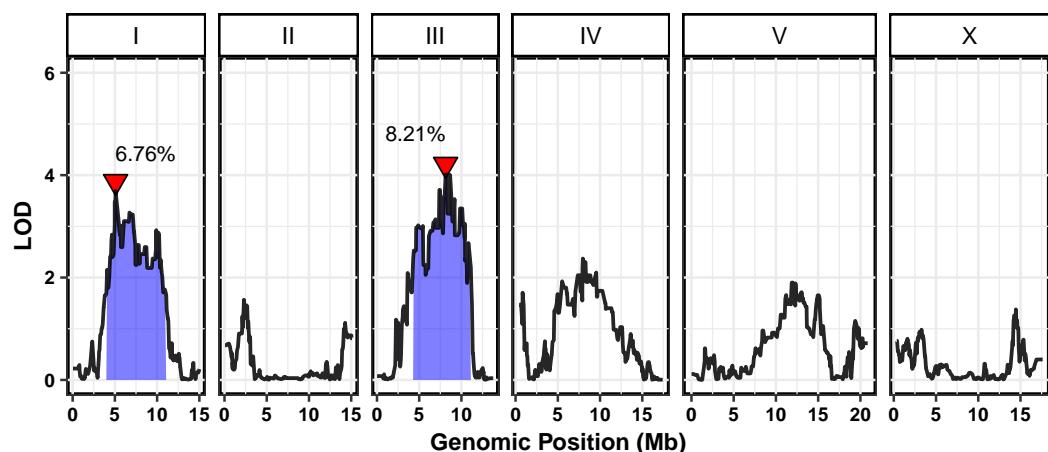
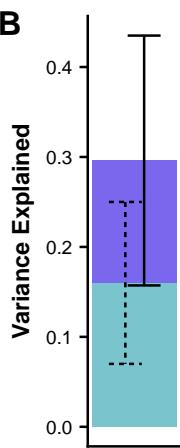
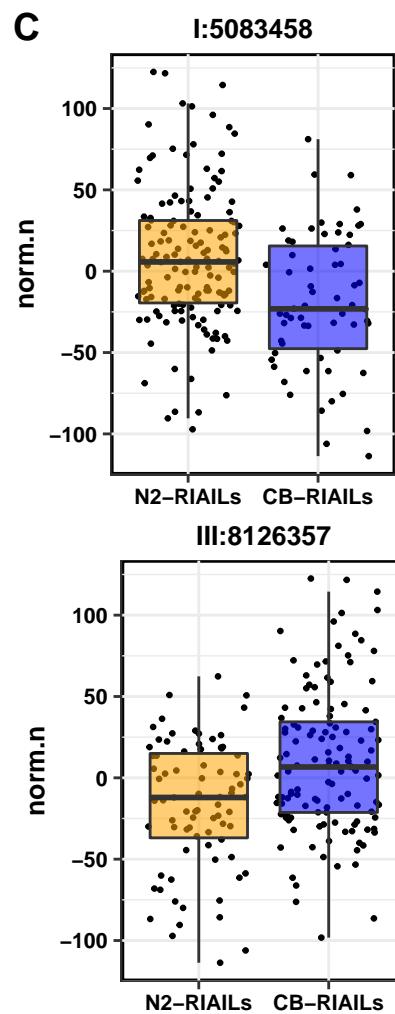
**A vincristine.mean.EXT****B****C I:10163992**

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

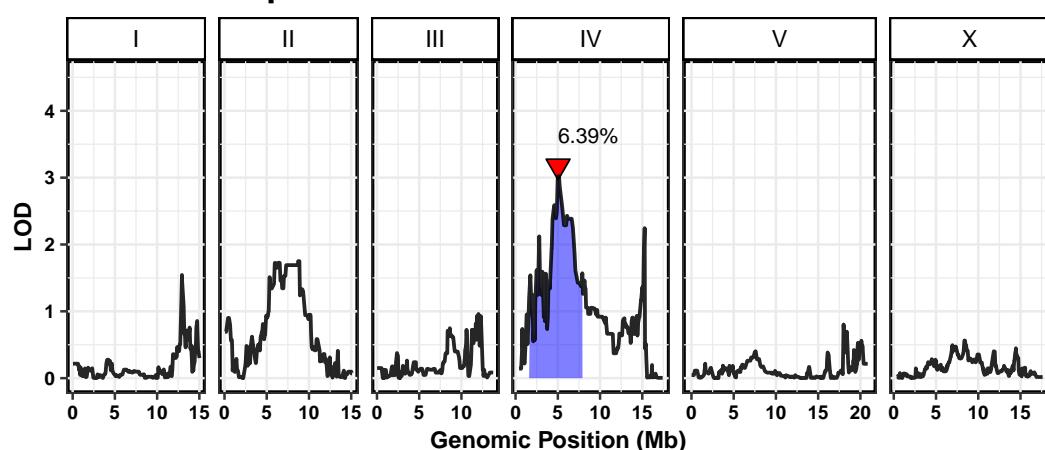


**A vincristine.median.norm.EXT****B****C I:9899728**

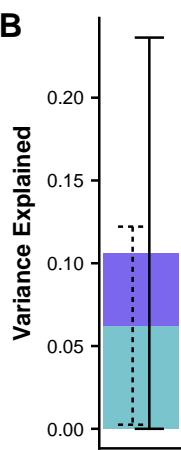


**A vincristine.norm.n****B****C**

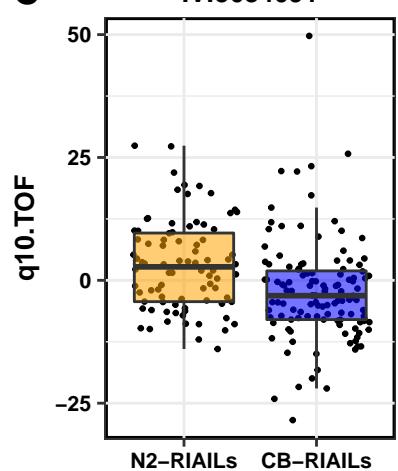
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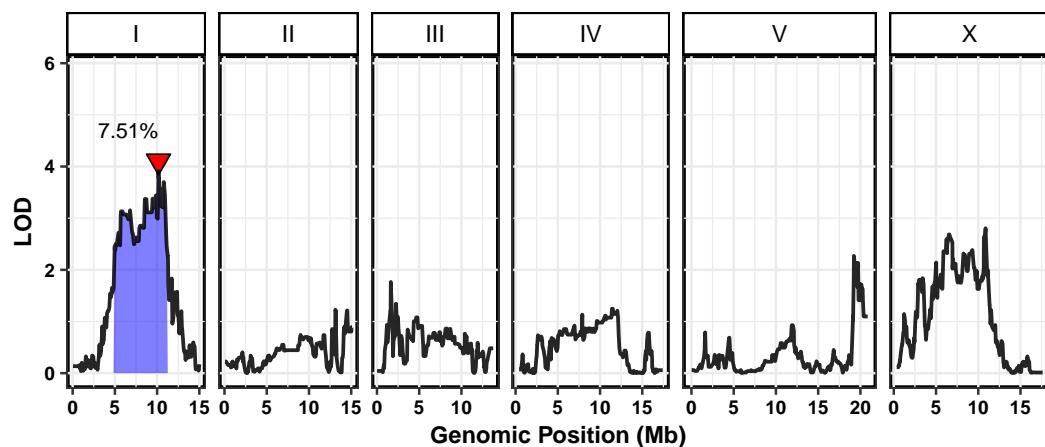
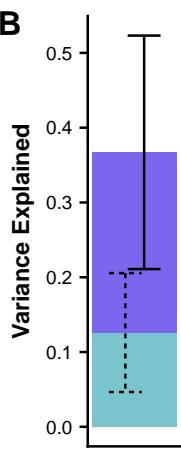
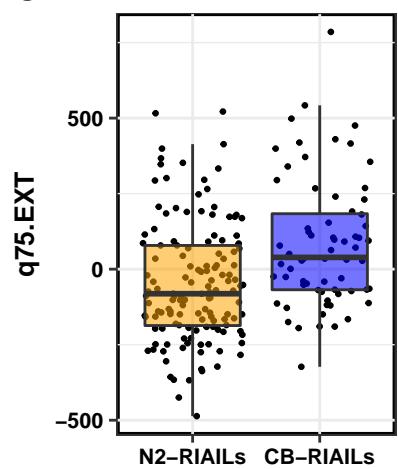


### B

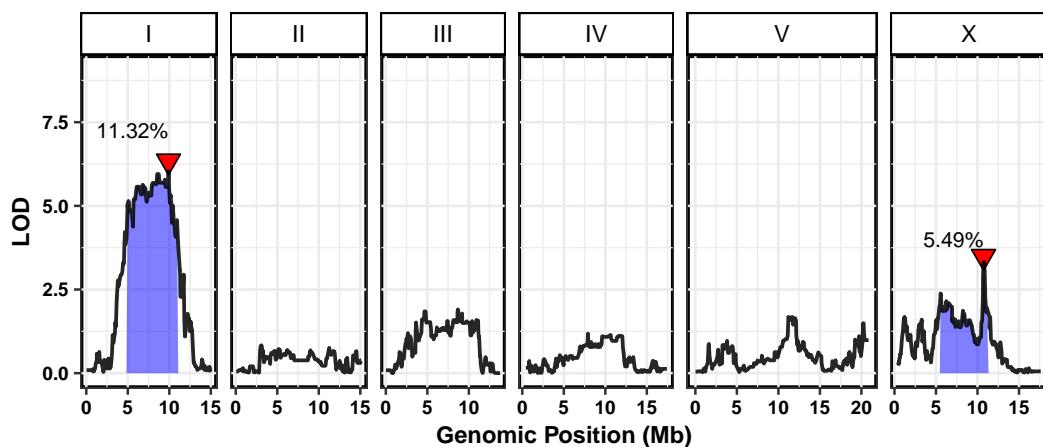


### C IV:5034091

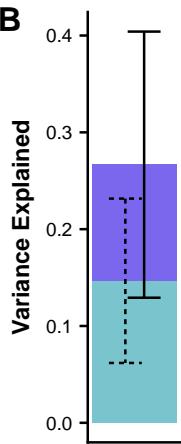


**A vincristine.q75.EXT****B****C I:10163992**

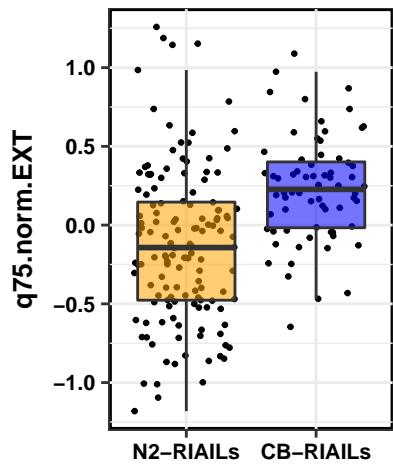
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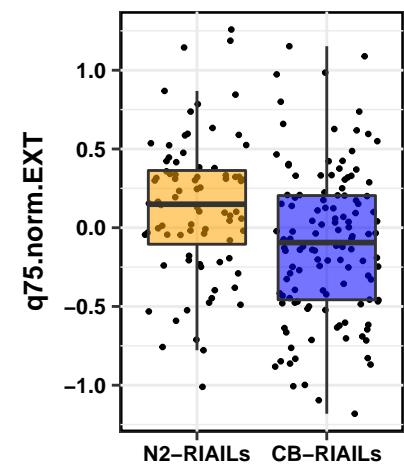
### B

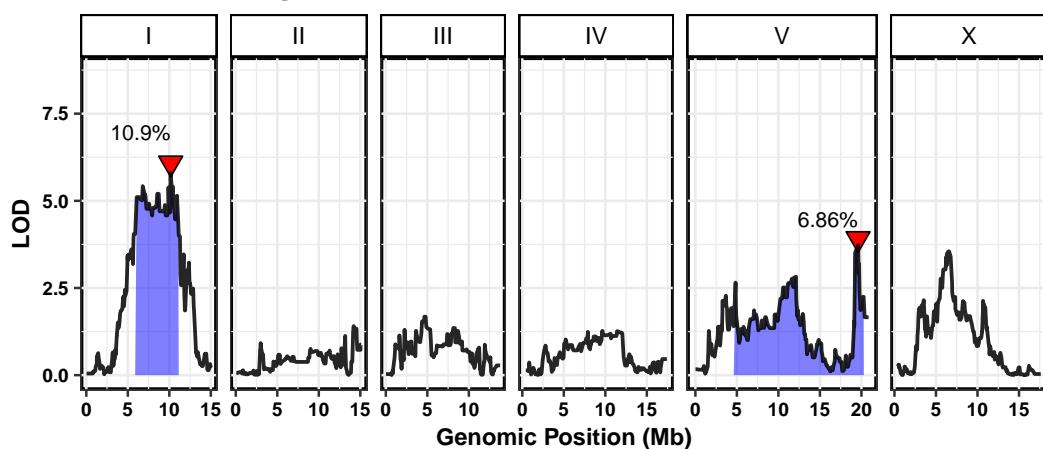
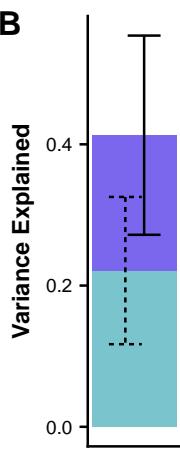
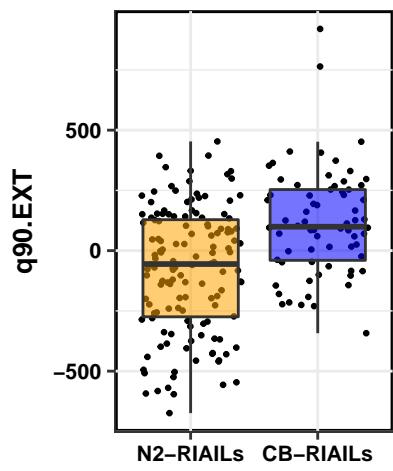
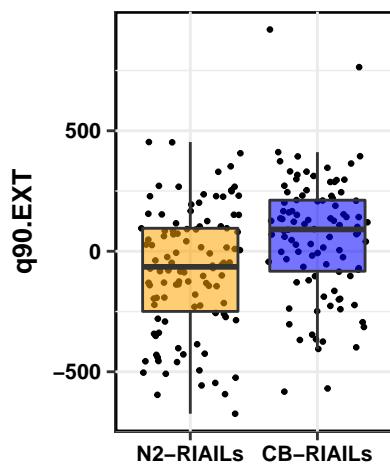


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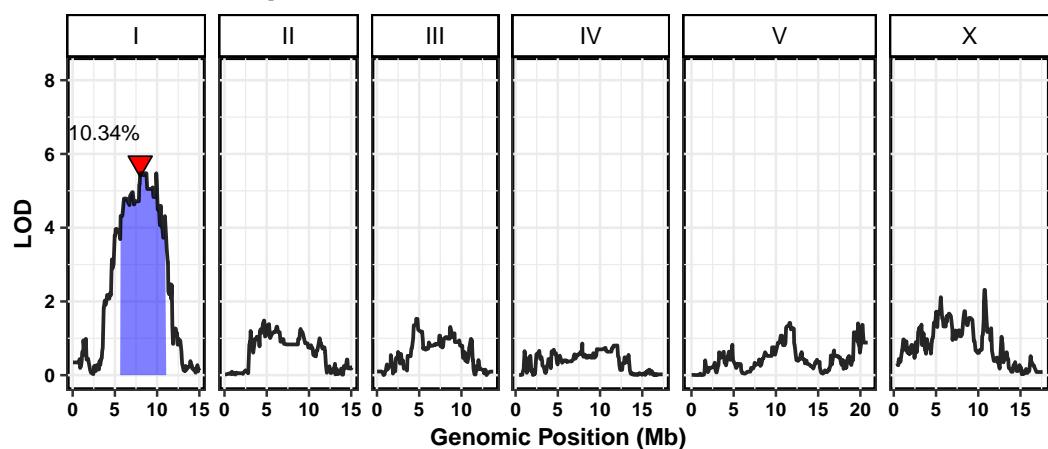


X:10731114

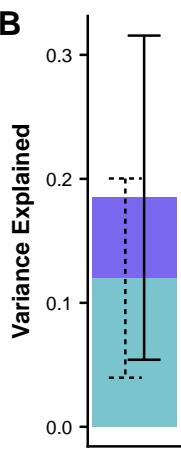


**A vincristine.q90.EXT****B****C I:10163992****V:19596297**

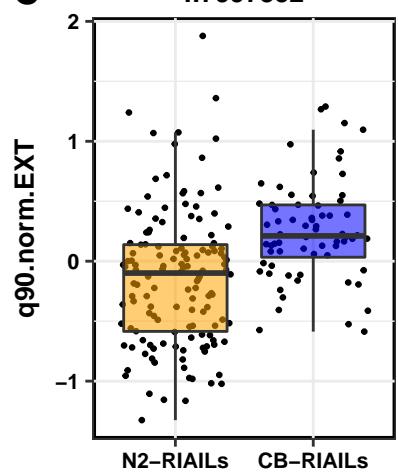
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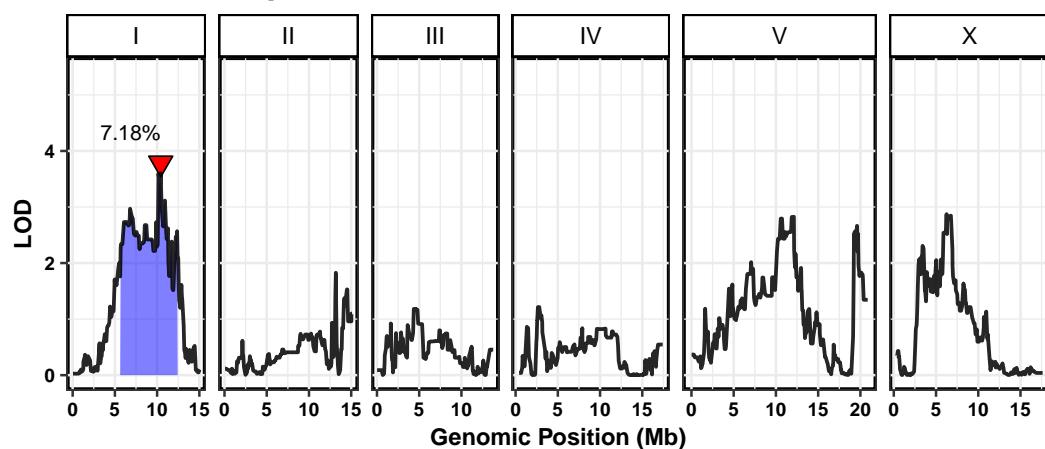
### B



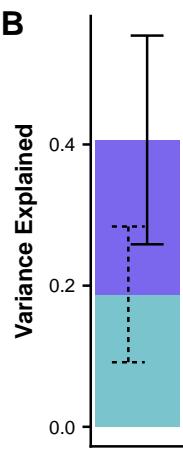
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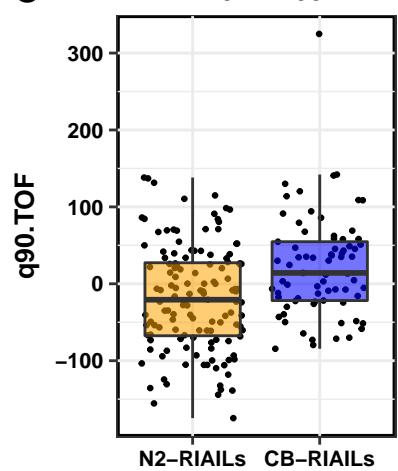
**A vincristine.q90.TOF**

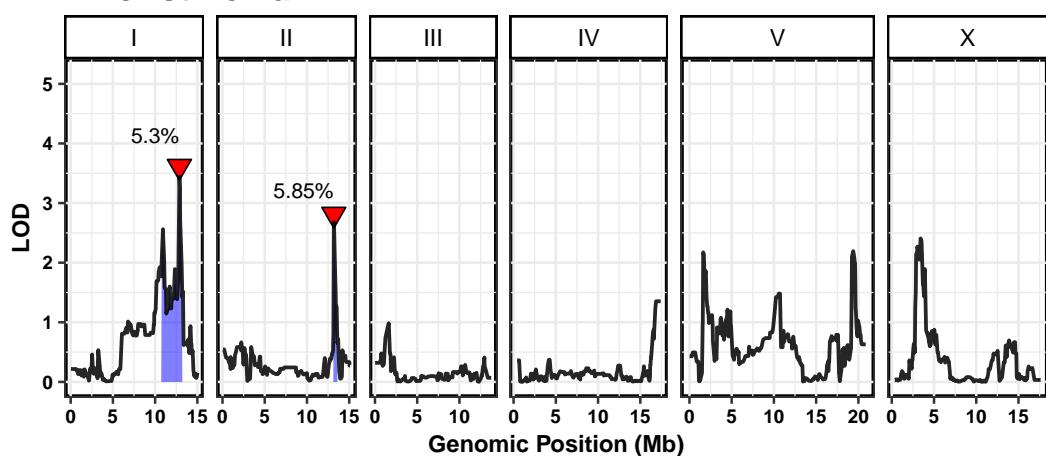
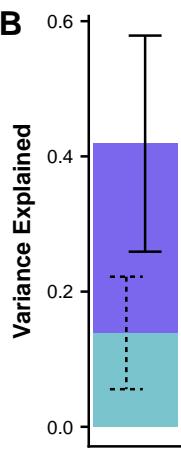
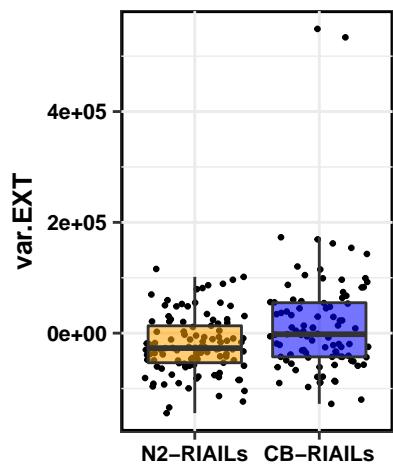
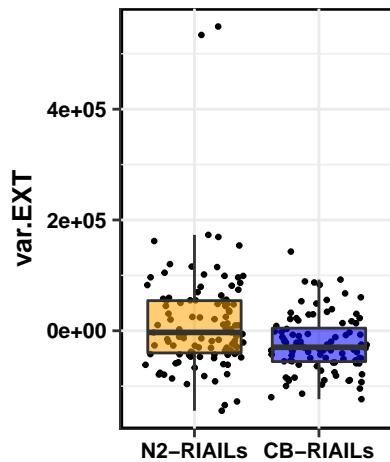


**B**

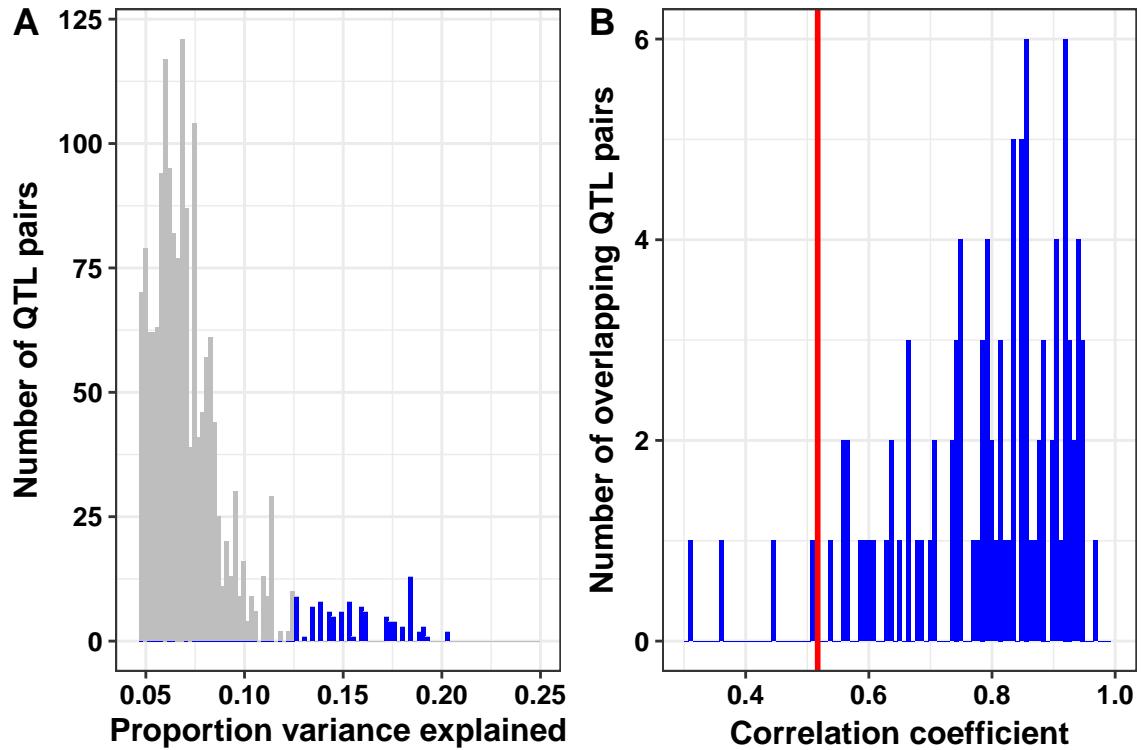


**C I:10427208**

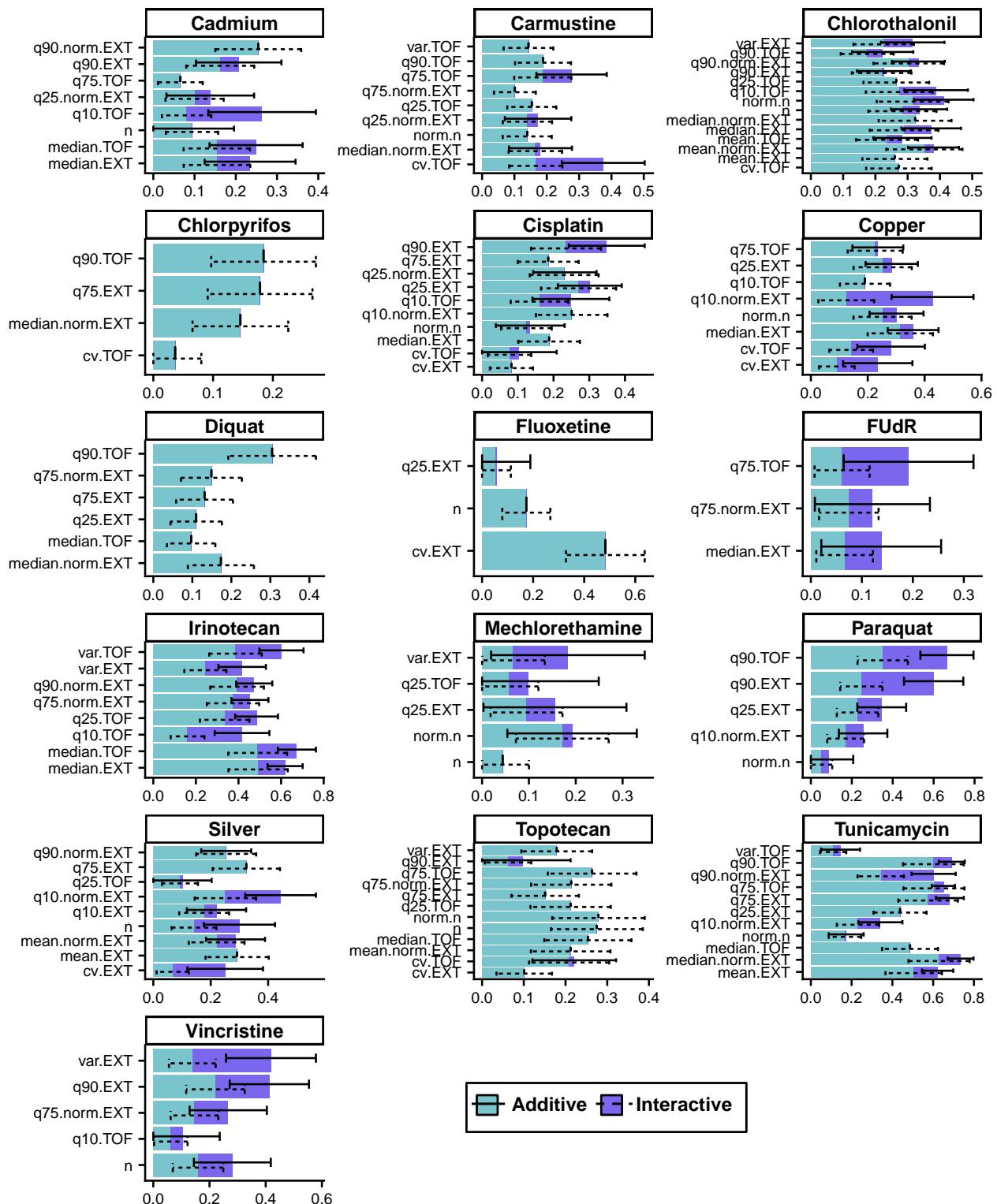


**A vincristine.var.EXT****B****C I:12873388****II:13178810**

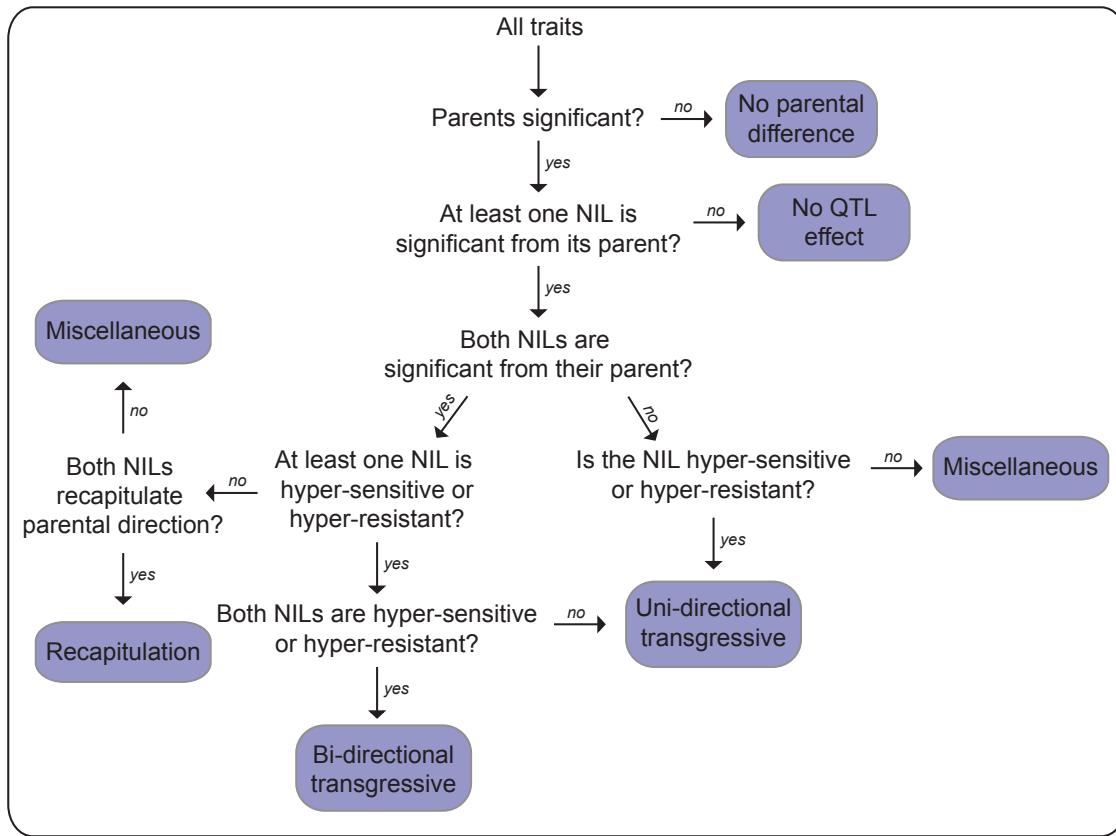
**Figure S2** QTL linkage mapping, NIL and CSS results, and variance component contributions. **(A)** The maximum LOD score (y-axis) for each marker across the genome (x-axis), split by chromosome, is plotted as a black line. Significant QTL are indicated by a red triangle at the marker with the maximum 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 NILs and CSSs 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 (TukeyHSD). 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 95<sup>th</sup> 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 5<sup>th</sup> percentile of this distribution is indicated by the red line at a correlation coefficient of 0.52.

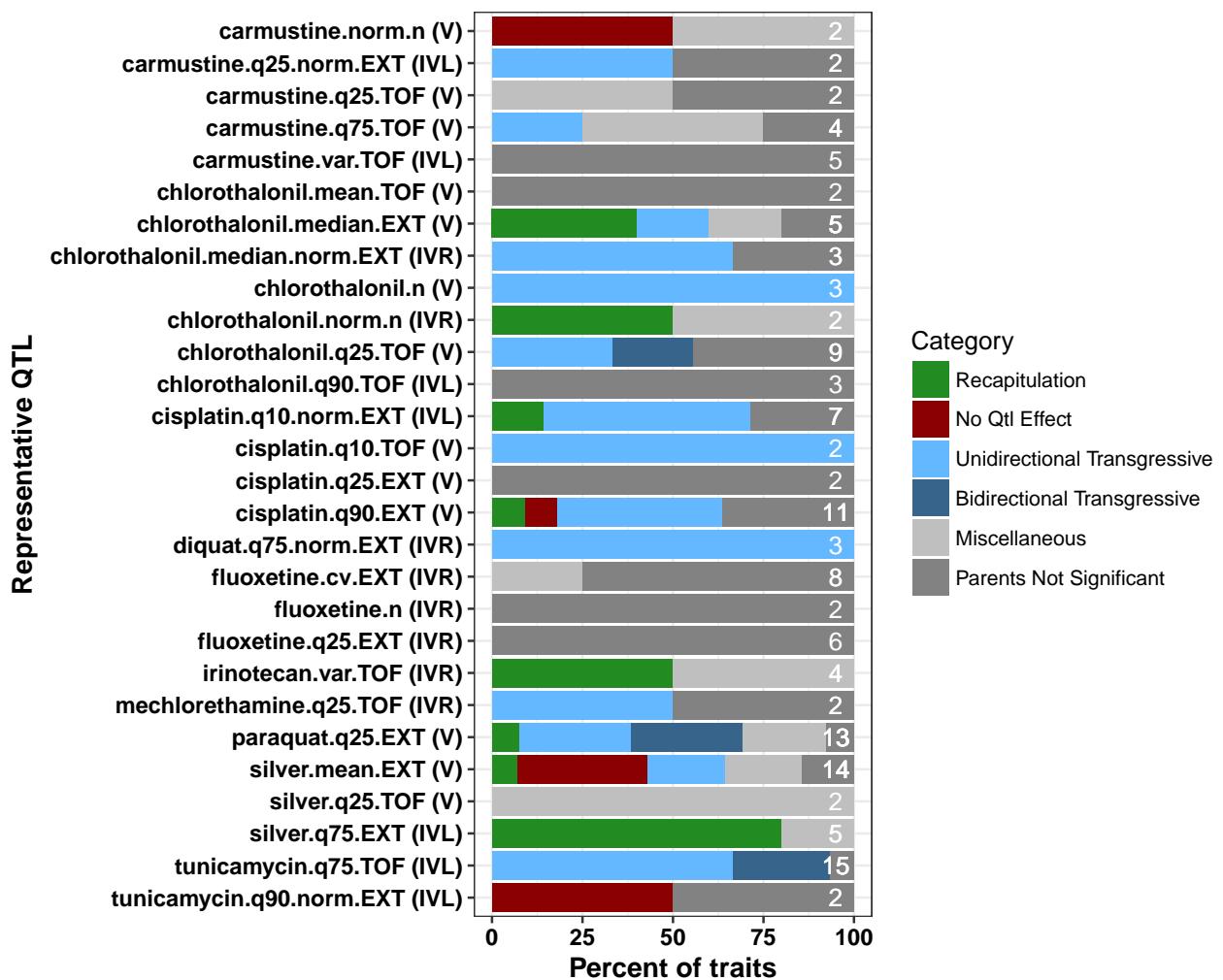


**Figure S4** Additive and interactive genetic components. The proportion of phenotypic variation predicted to be caused by additive and interactive genetic components is shown for each of the 120 traits that represent one of the 144 distinct QTL identified by linkage mapping. For each toxin, the fraction 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 NIL and CSS 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.