

The Genetics of Phospholipid Metabolism in Maize Highland Adaptation

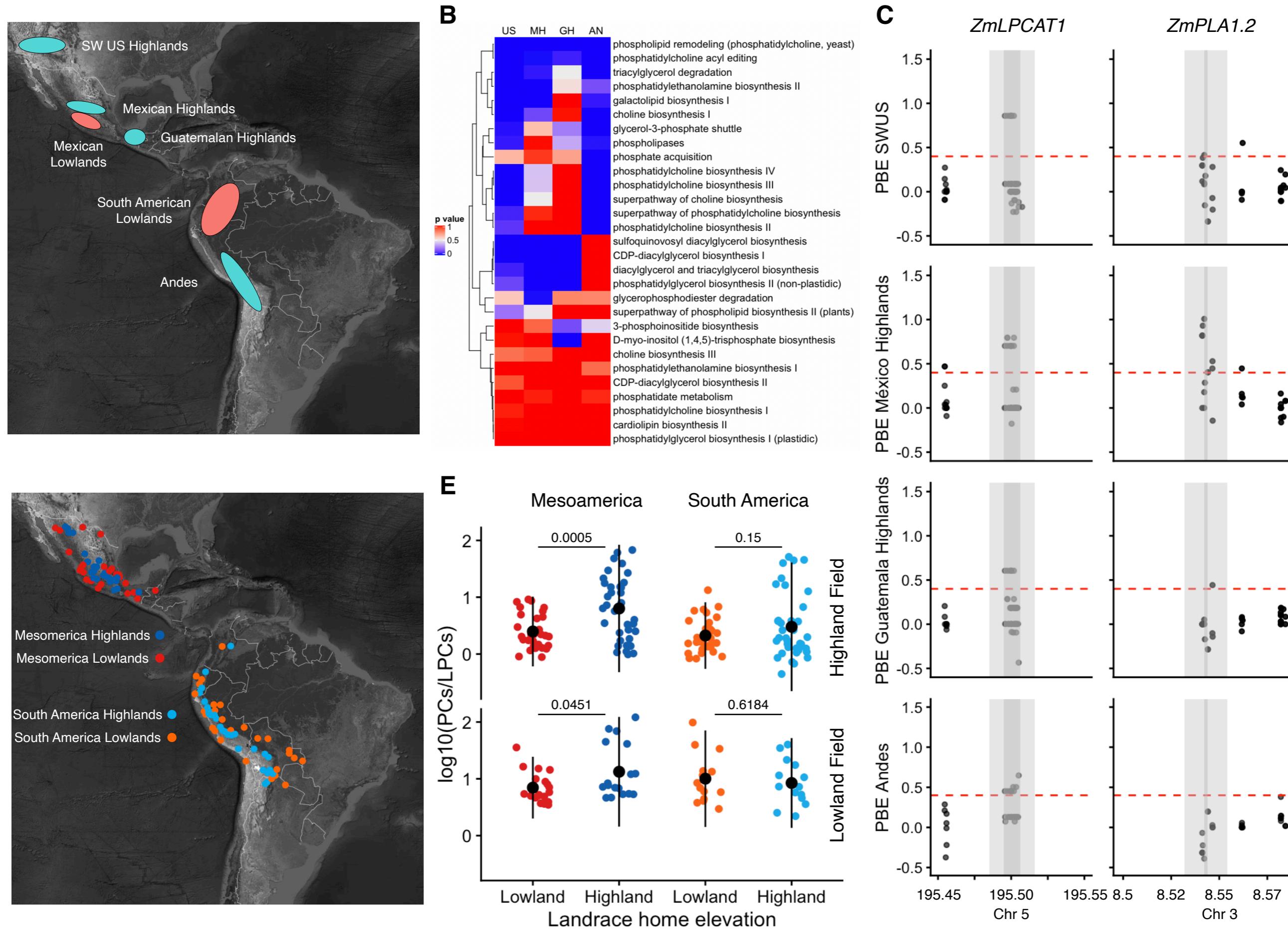


Figure 1

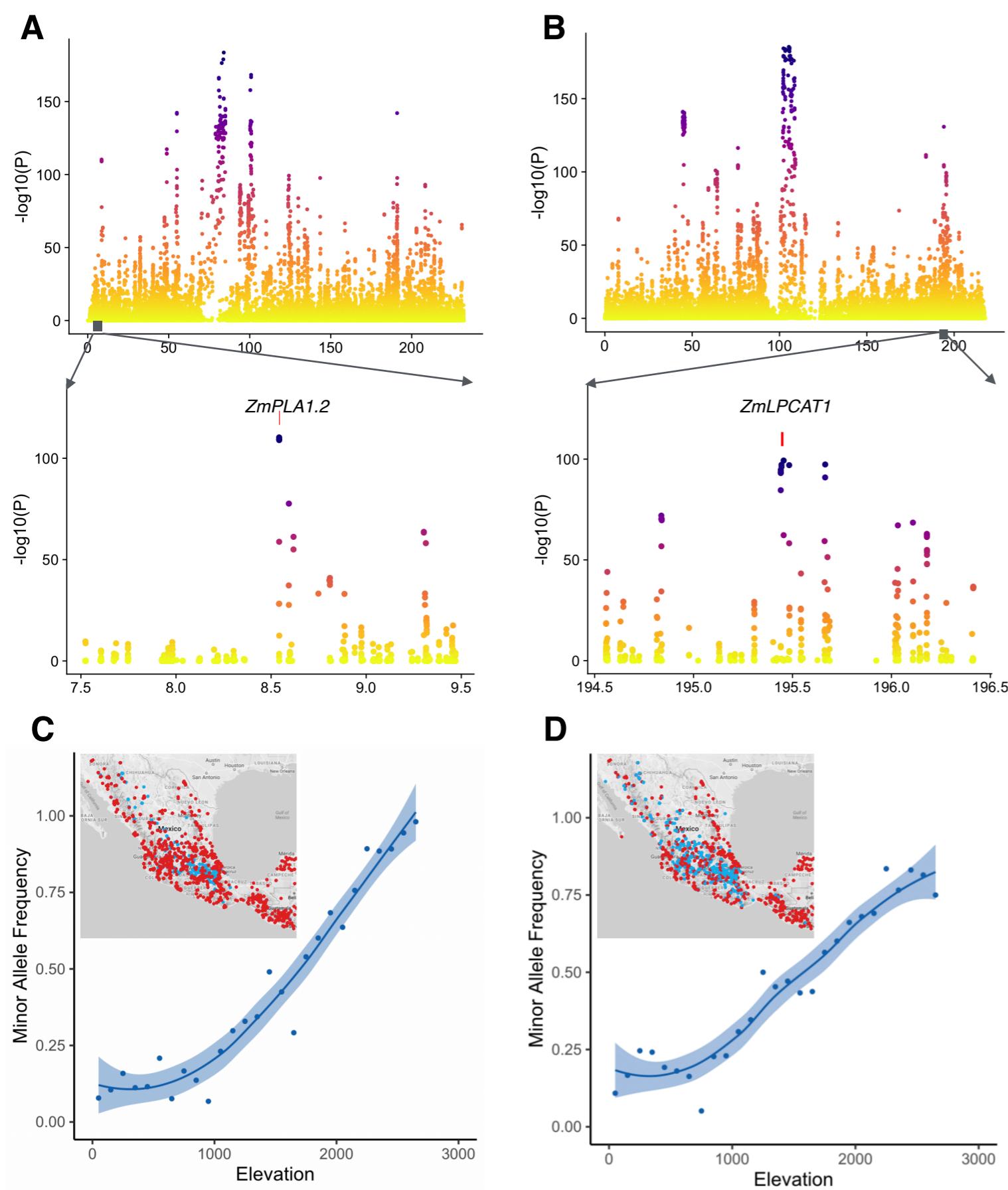


Figure 2

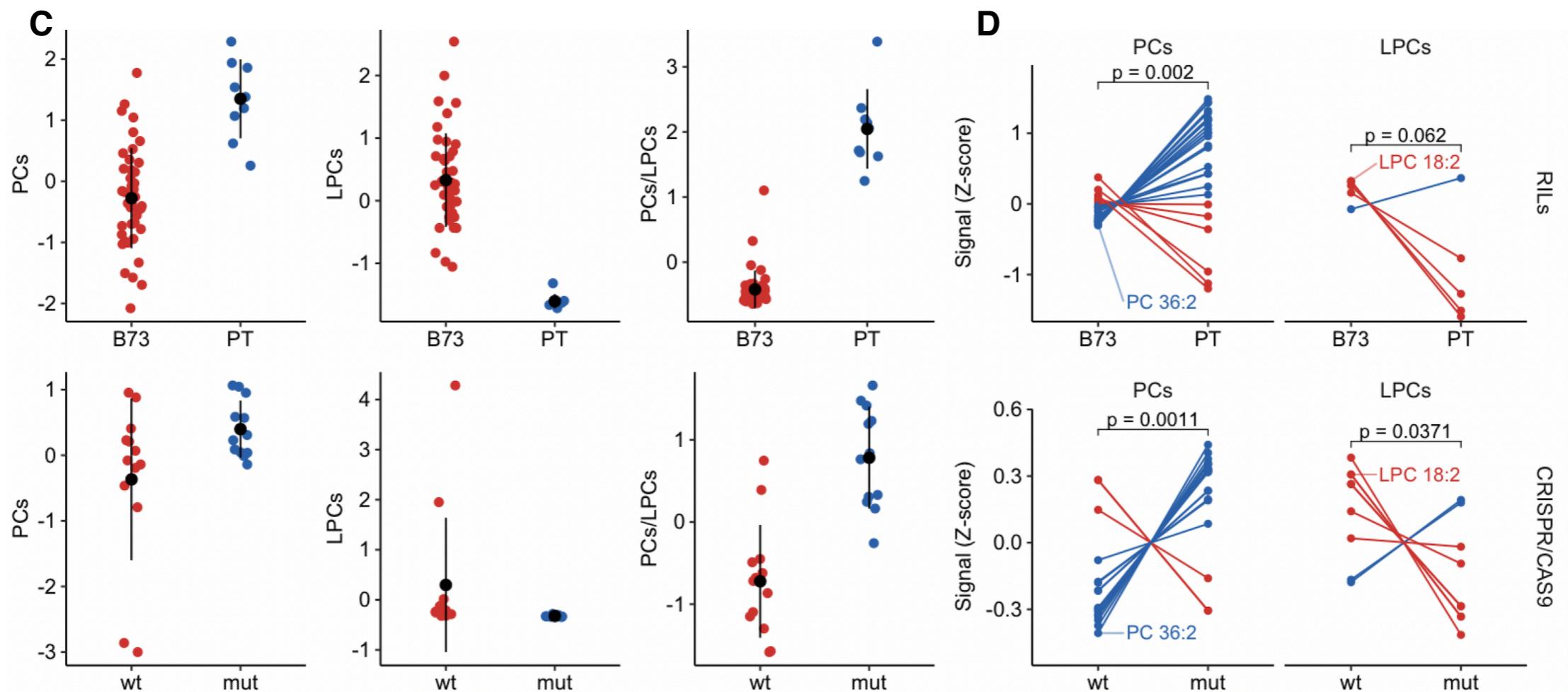
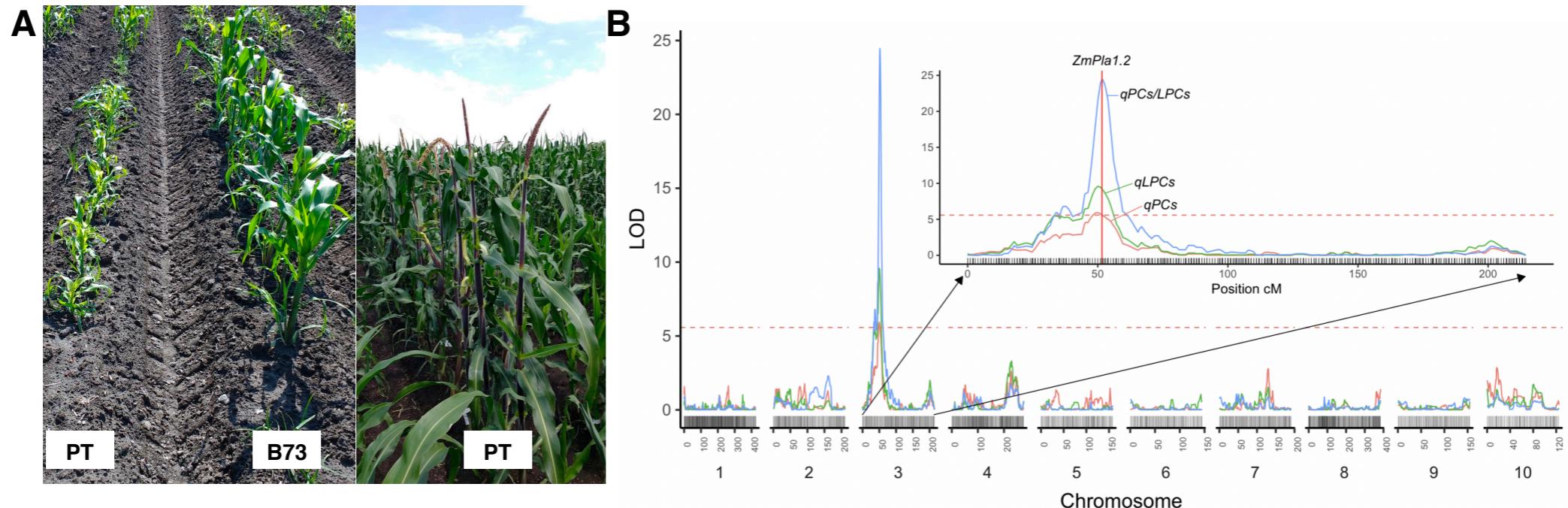
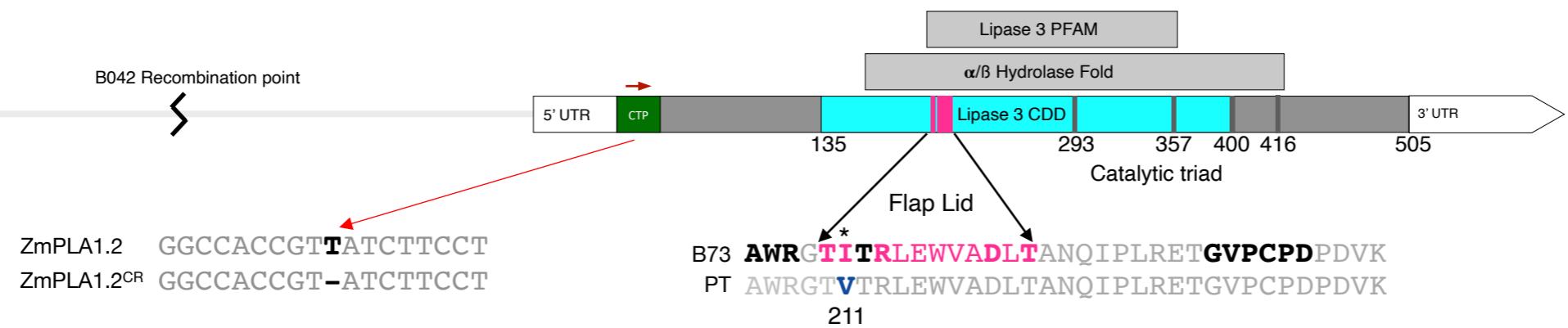
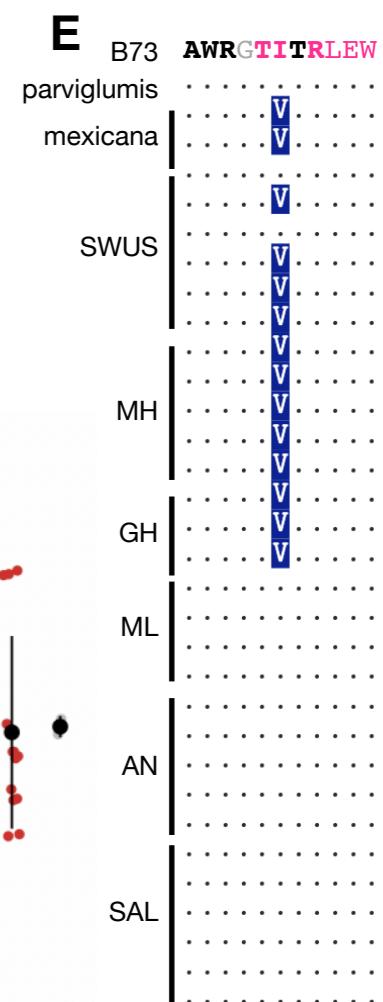
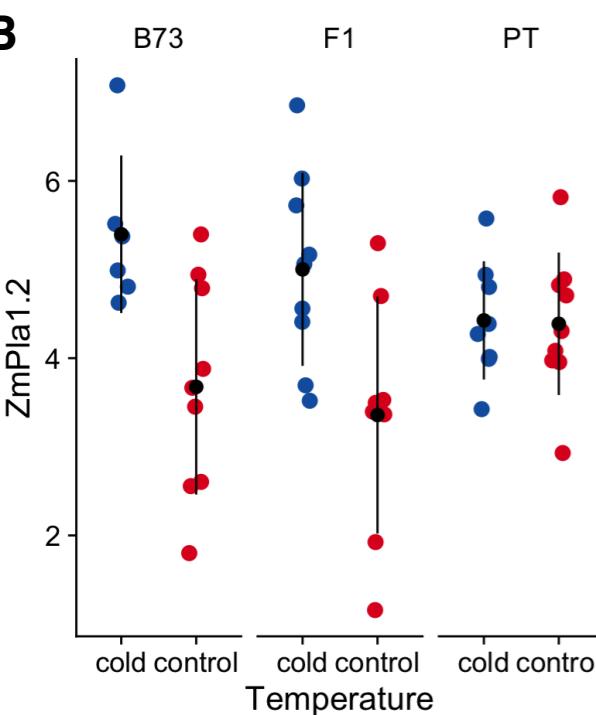


Figure 3

A**E****B**

PT

Temperature

cold control

ZmPLA1.2 GGCCACCGT**T**ATCTTCCT
ZmPLA1.2^{CR} GGCCACCGT-ATCTTCCT

B042 Recombination point

<

5' UTR

CTP

135

Lipase 3 CDD

293

357

400

416

505

3' UTR

Catalytic triad

Flap Lid

*

211

log₁₀(PCs/LPCs)

0.0

0.5

1.0

B122

B041

B071

B057

B064

B040

B042

B021

B100

B072

B023

B144

B107

B074

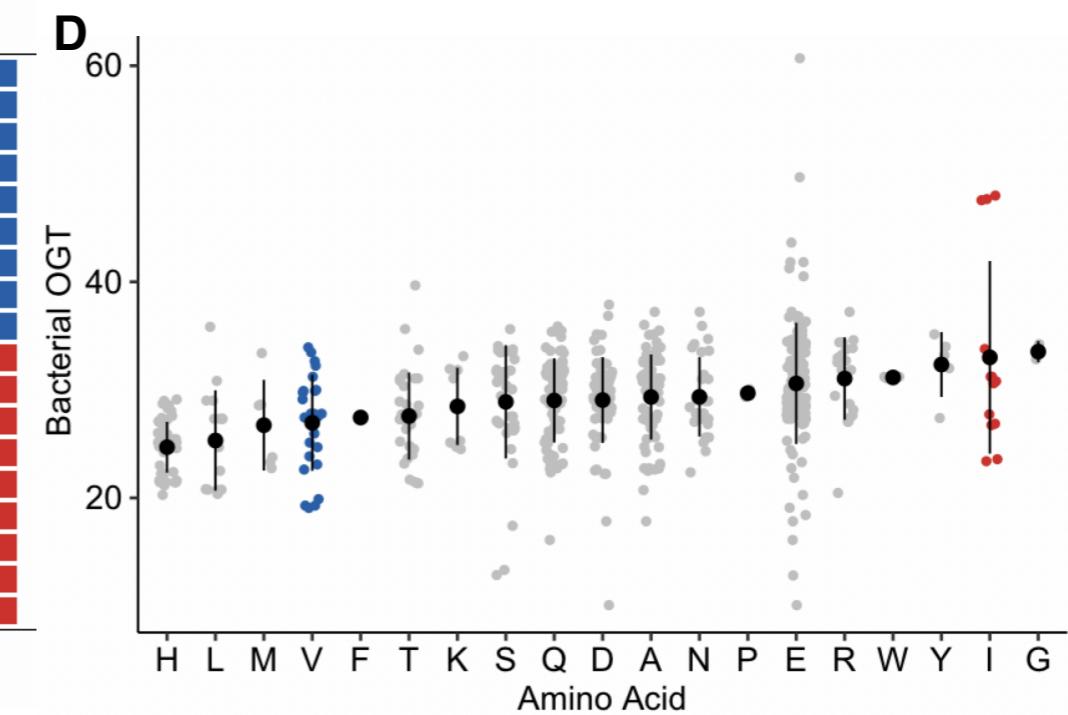
B116

B056

B062

B108

Marker Position

D

60

40

20

0

Bacterial OGT

20

40

60

80

100

120

140

160

180

200

220

240

260

280

300

320

340

360

380

400

420

440

460

480

500

520

540

560

580

600

620

640

660

680

700

720

740

760

780

800

820

840

860

880

900

920

940

960

980

1000

1020

1040

1060

1080

1100

1120

1140

1160

1180

1200

1220

1240

1260

1280

1300

1320

1340

1360

1380

1400

1420

1440

1460

1480

1500

1520

1540

1560

1580

1600

1620

1640

1660

1680

1700

1720

1740

1760

1780

1800

1820

1840

1860

1880

1900

1920

1940

1960

1980

2000

2020

2040

2060

2080

2100

2120

2140

2160

2180

2200

2220

2240

2260

2280

2300

2320

2340

2360

2380

2400

2420

2440

2460

2480

2500

2520

2540

2560

2580

2600

2620

2640

2660

2680

2700

2720

2740

2760

2780

2800

2820

2840

2860

2880

2900

2920

2940

2960

2980

3000

3020

3040

3060

3080

3100

3120

3140

3160

3180

3200

3220

3240

3260

3280

3300

3320

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3540

3560

3580

3600

3620

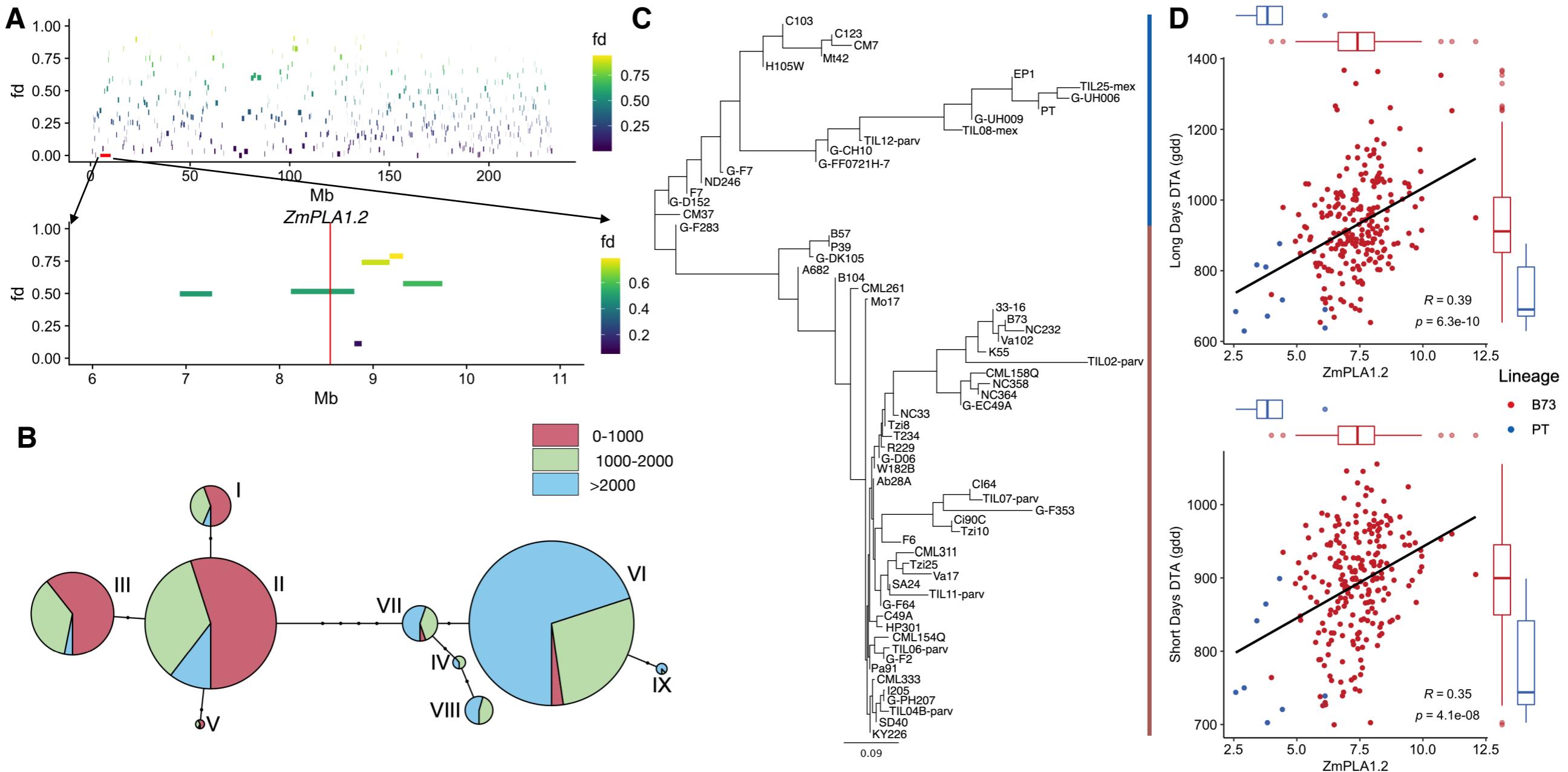


Figure 5

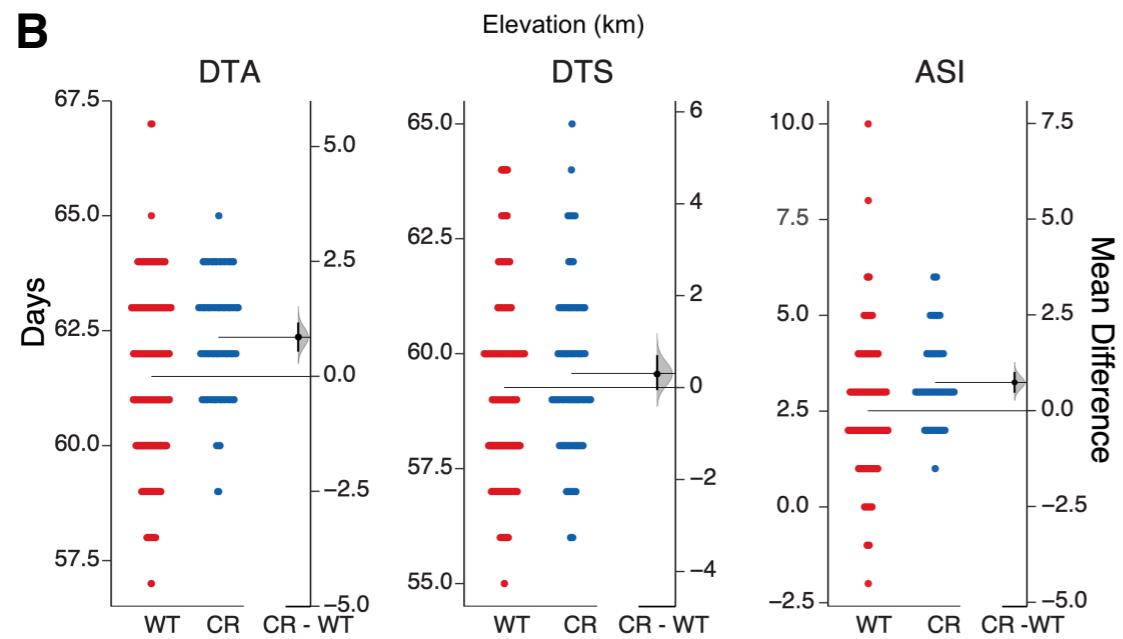
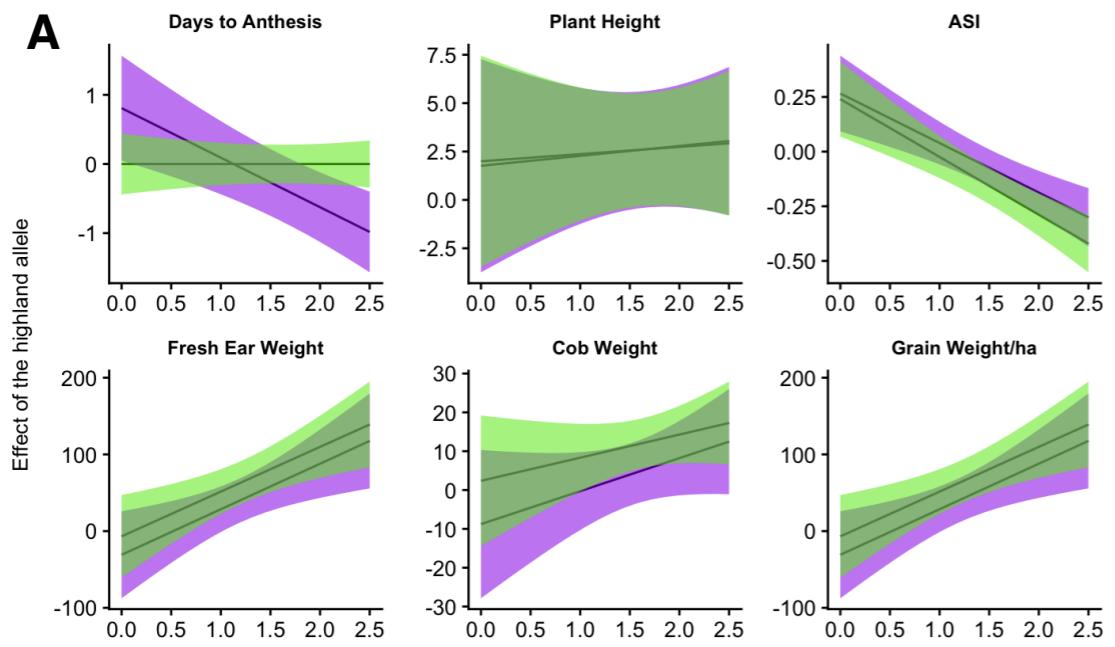


Figure 6

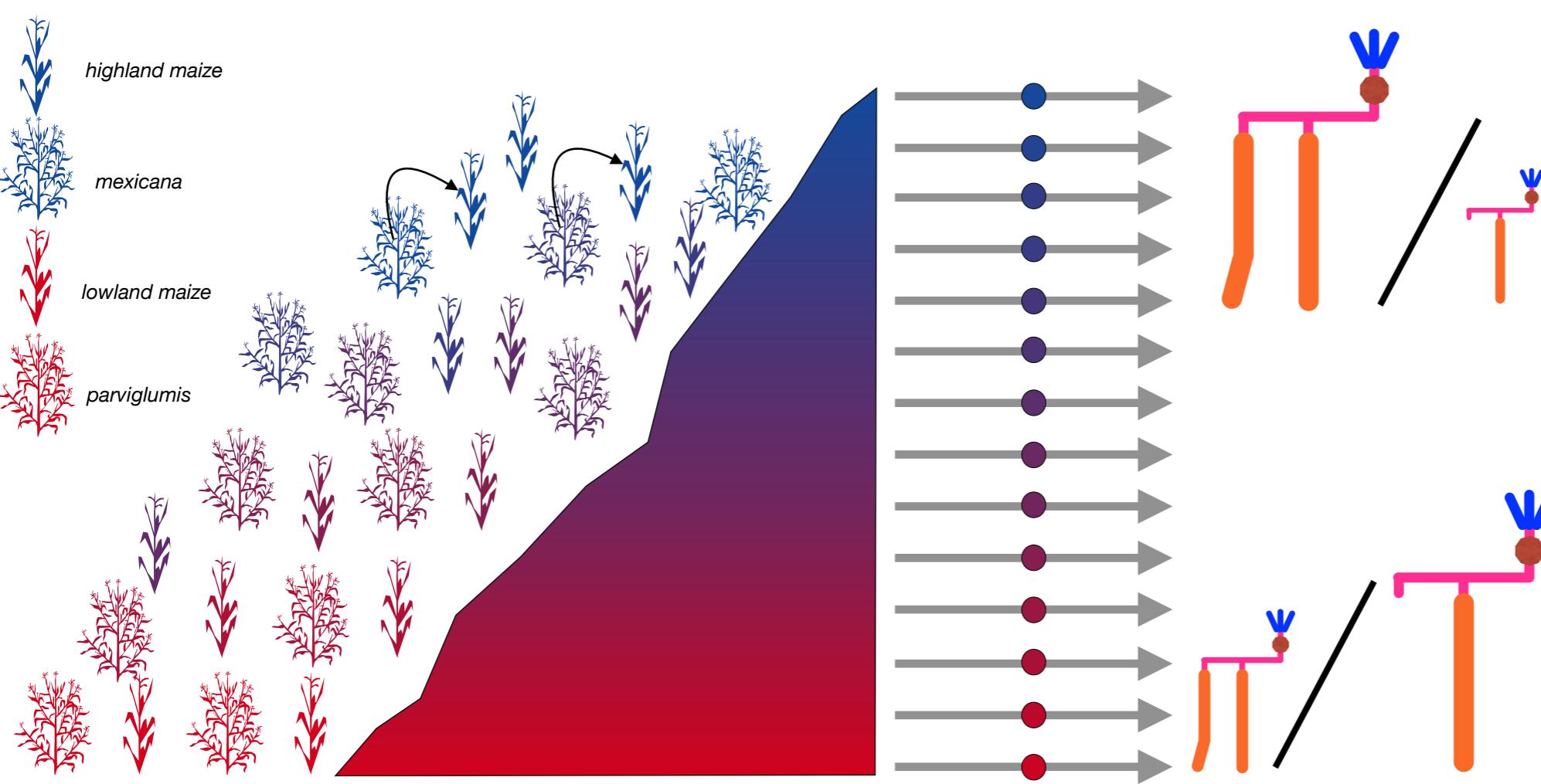
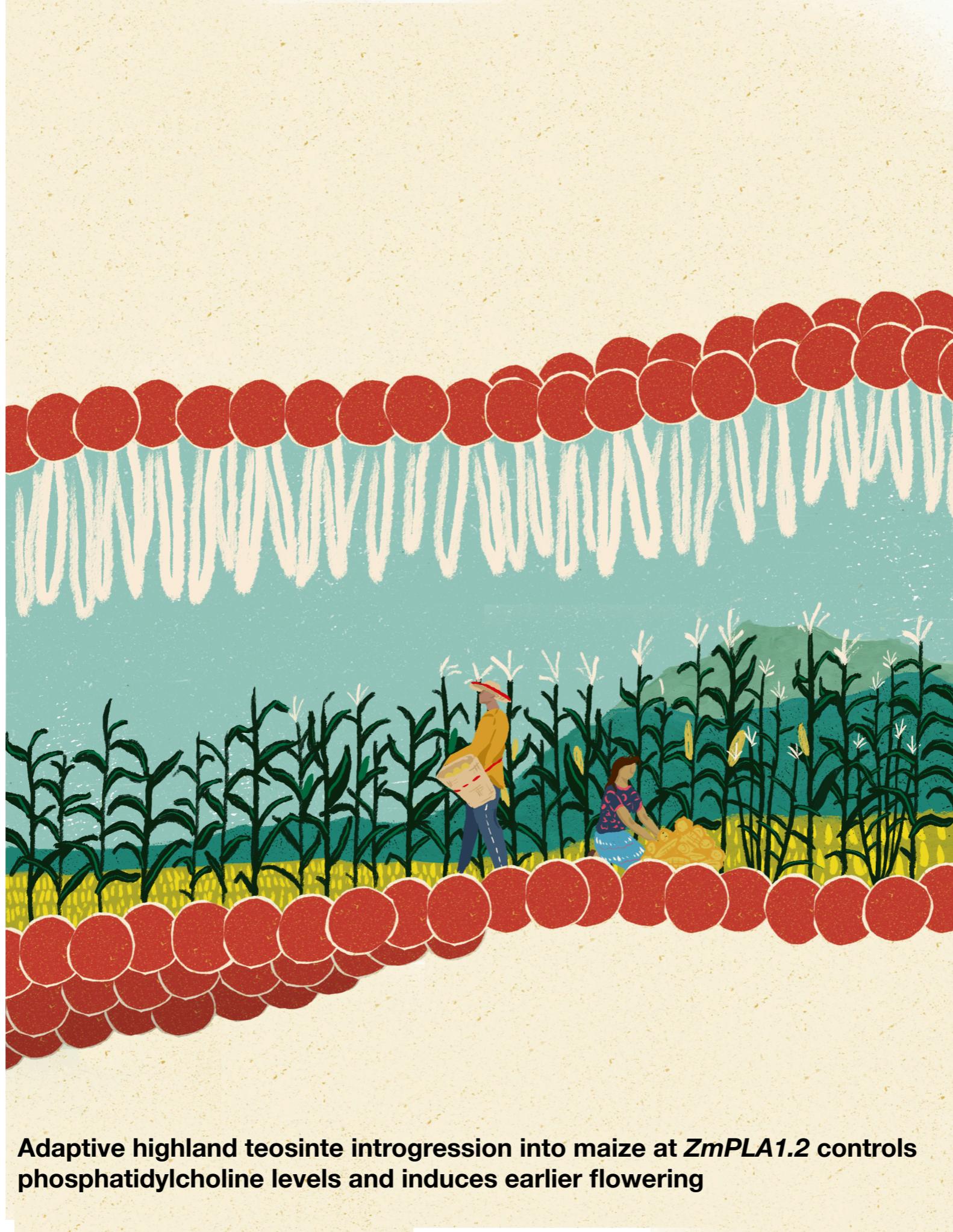


Figure 7

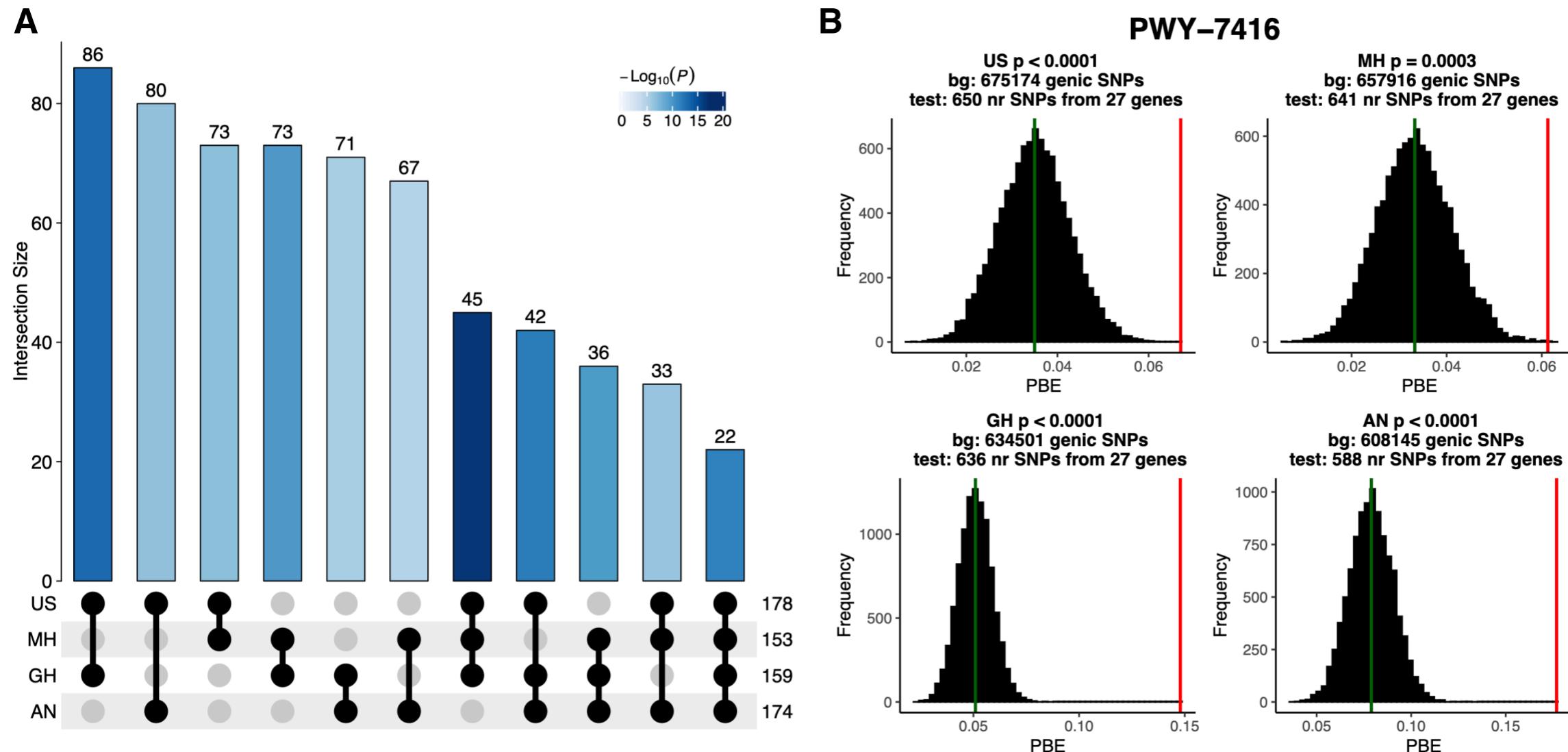


Adaptive highland teosinte introgression into maize at *ZmPLA1.2* controls phosphatidylcholine levels and induces earlier flowering

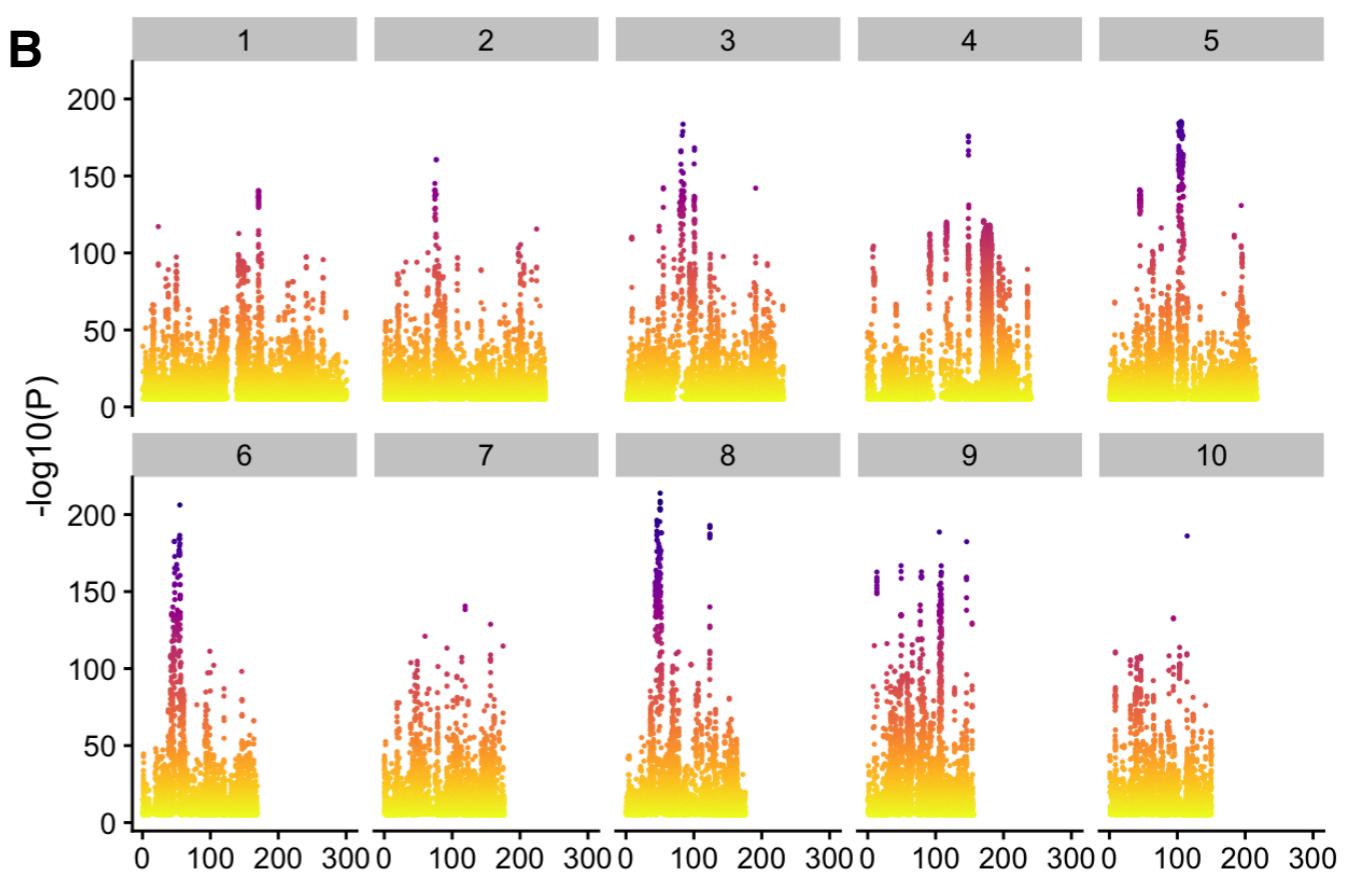
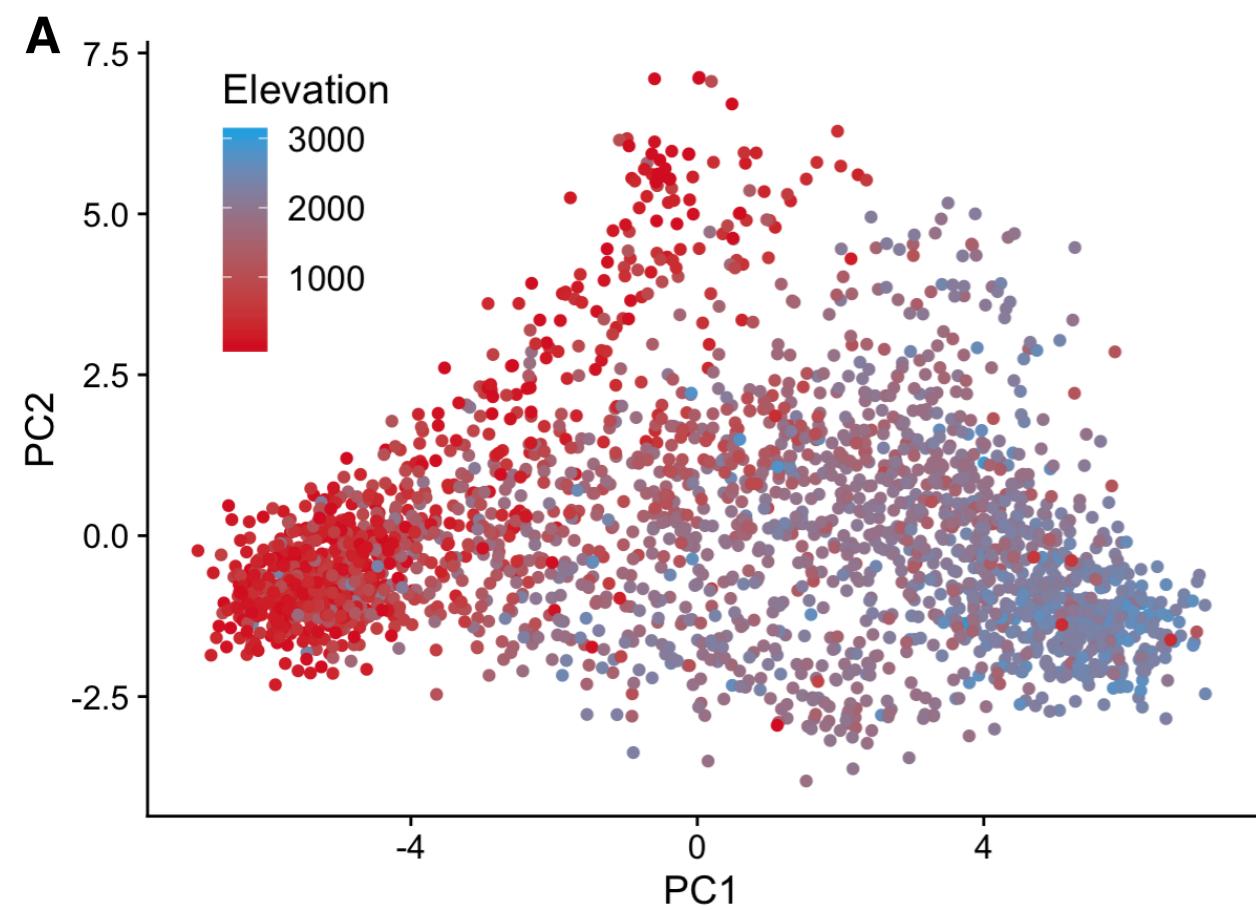
Figure 7

The Genetics of Phospholipid Metabolism in Highland Maize Local Adaptation

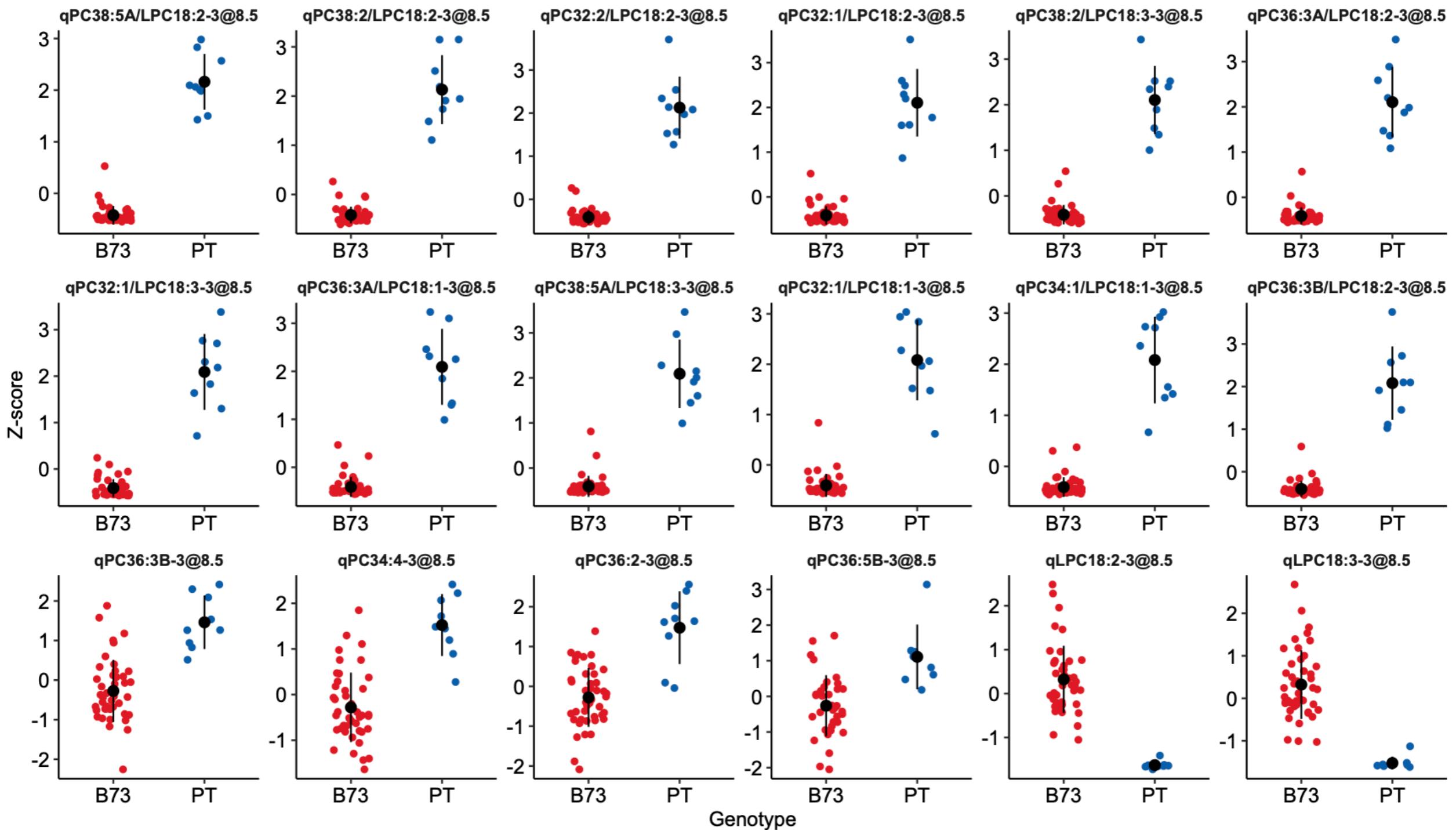
Supplementary Figures



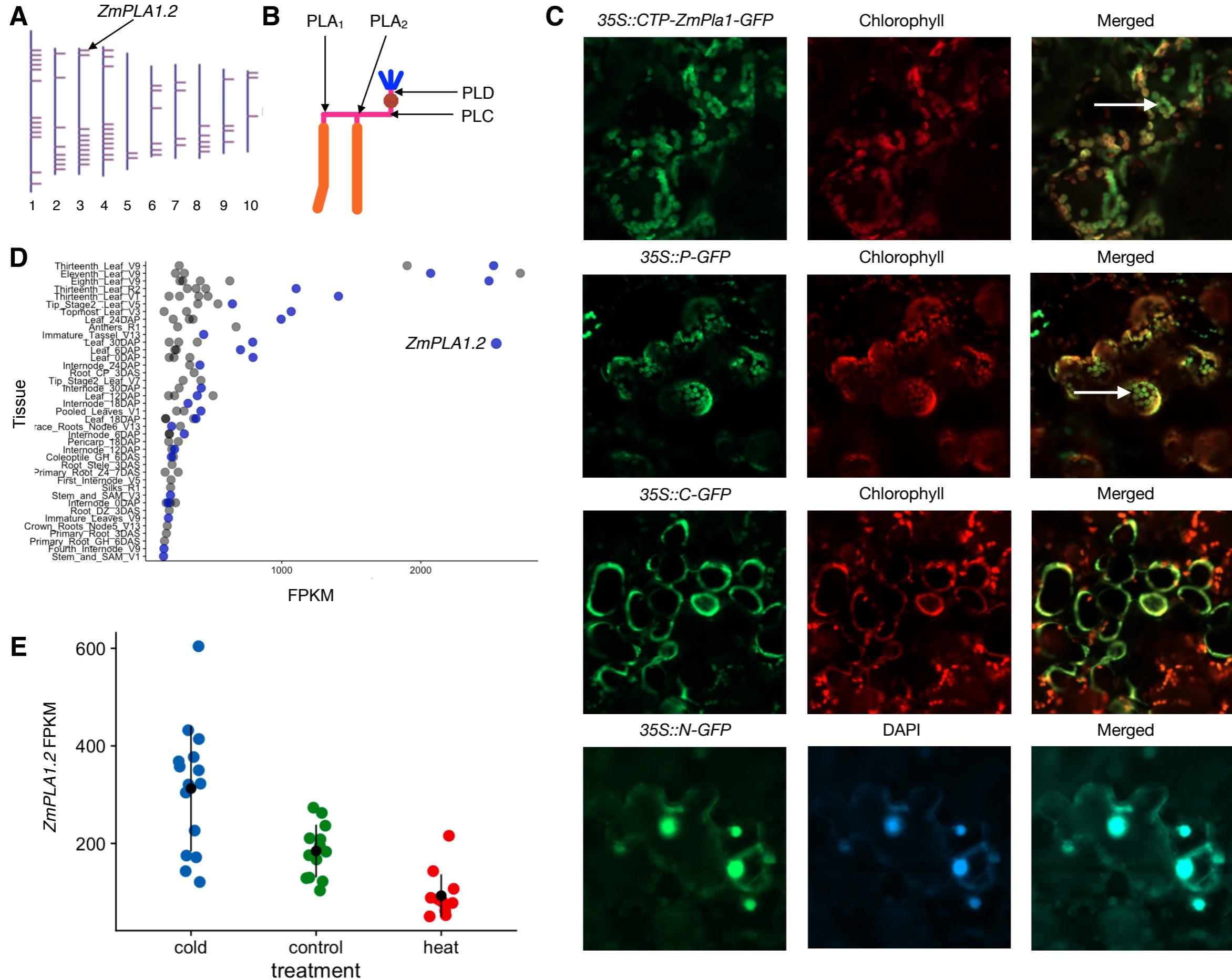
Supplementary Figure 1



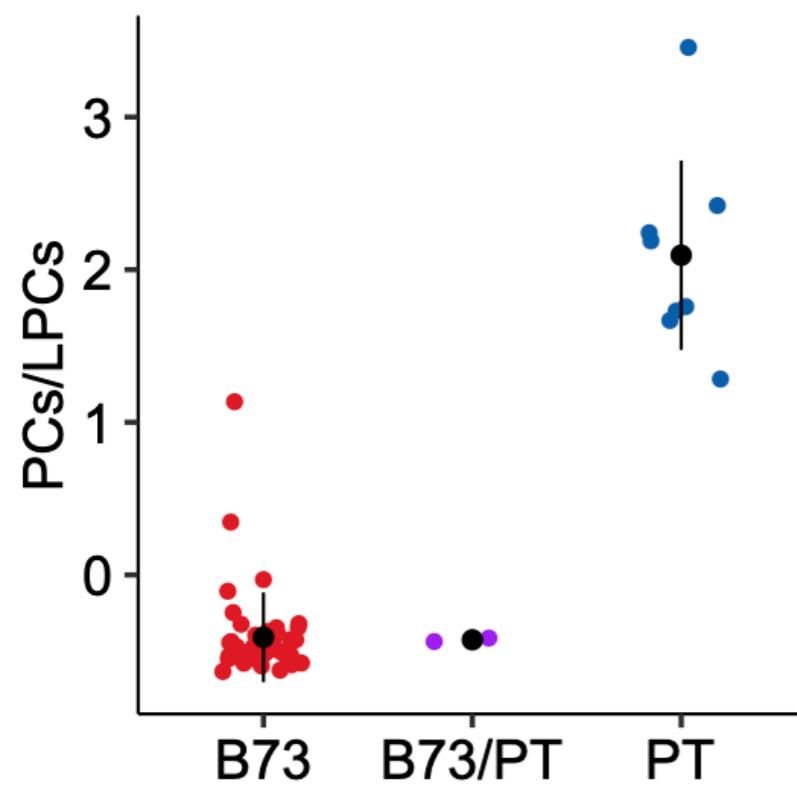
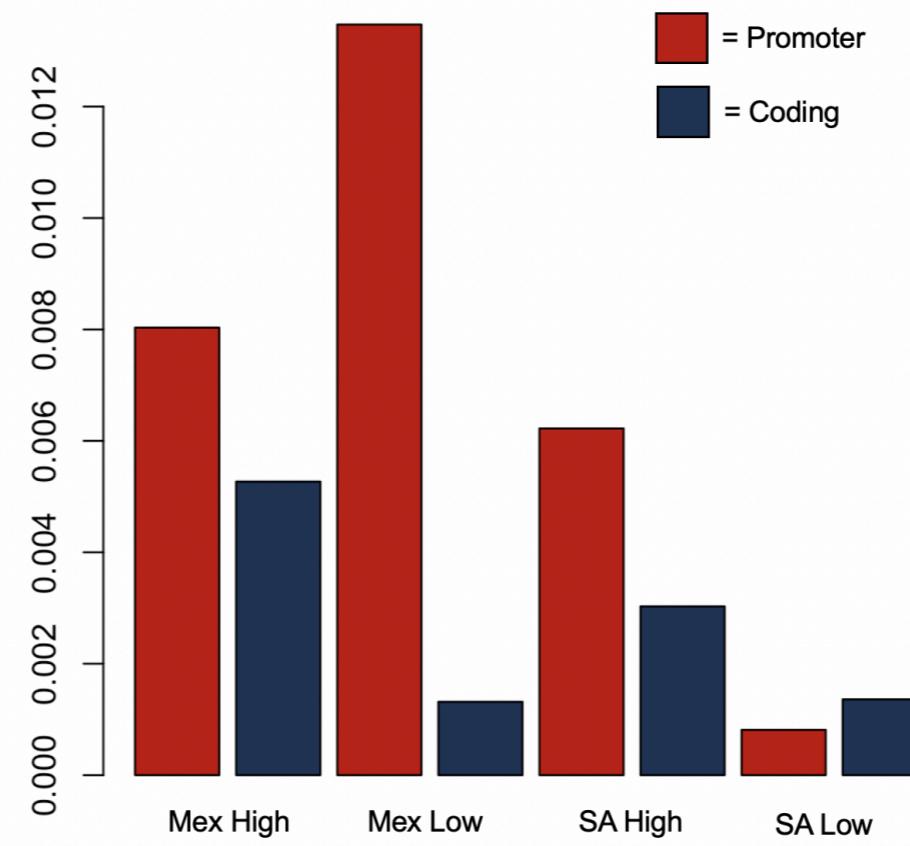
Supplementary Figure 2



Supplementary Figure 3

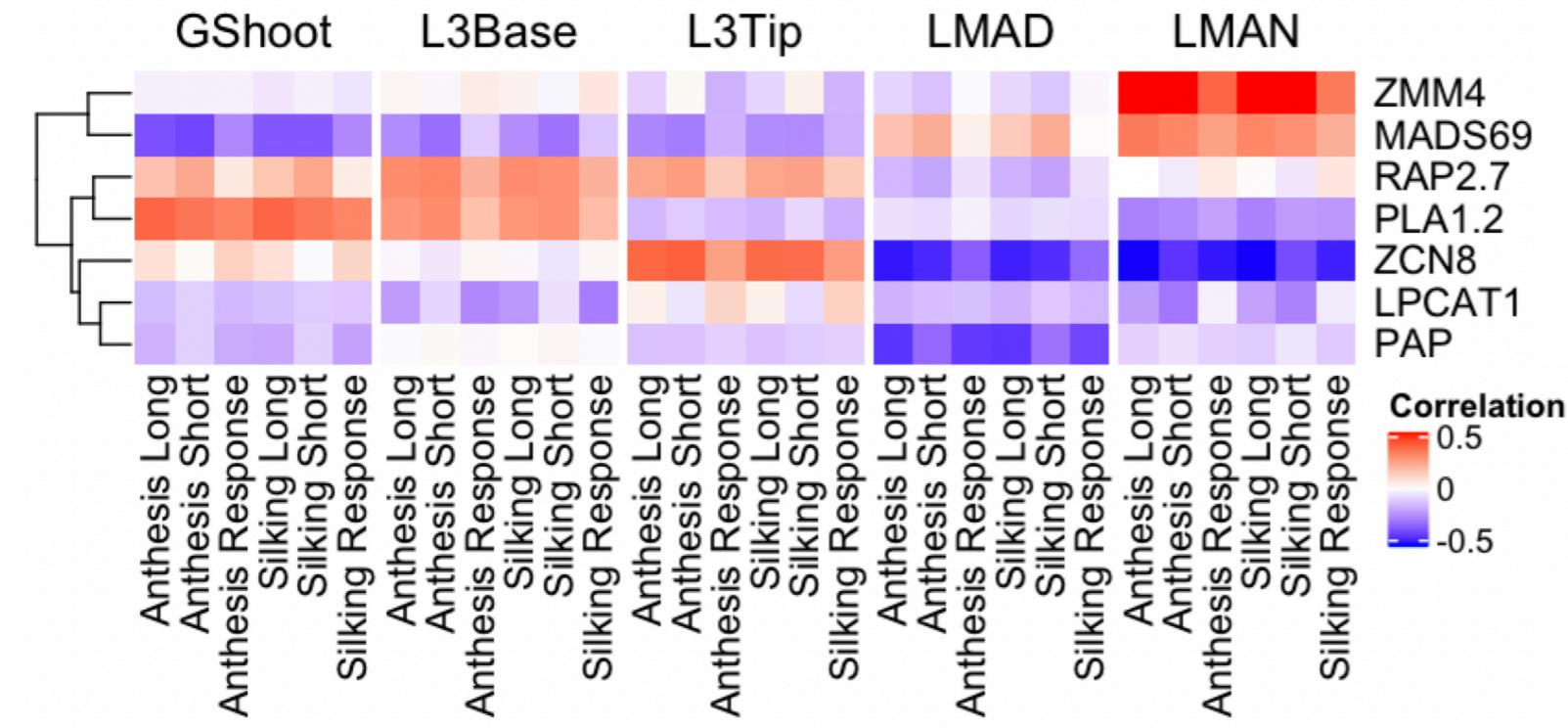


Supplementary Figure 4

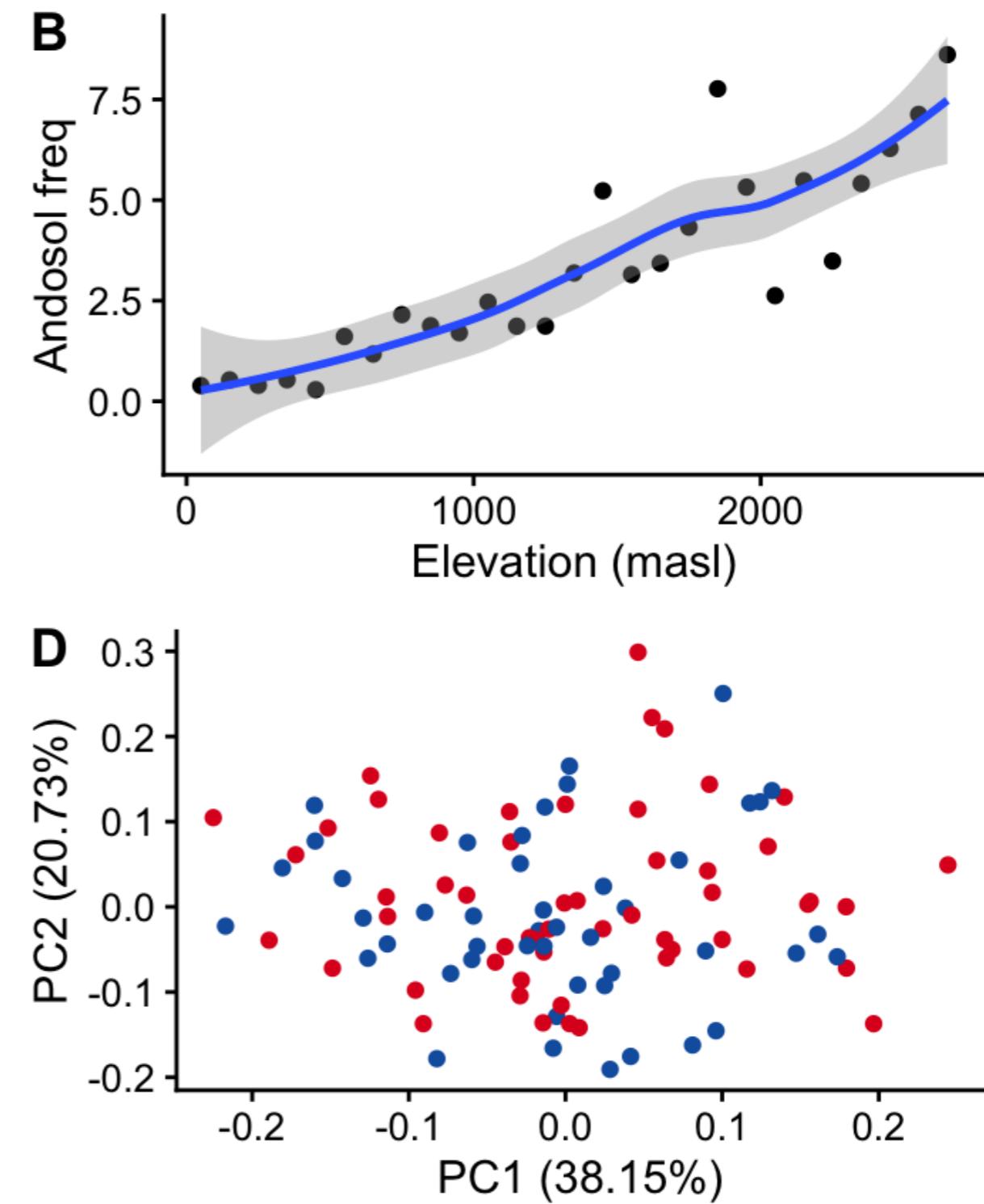
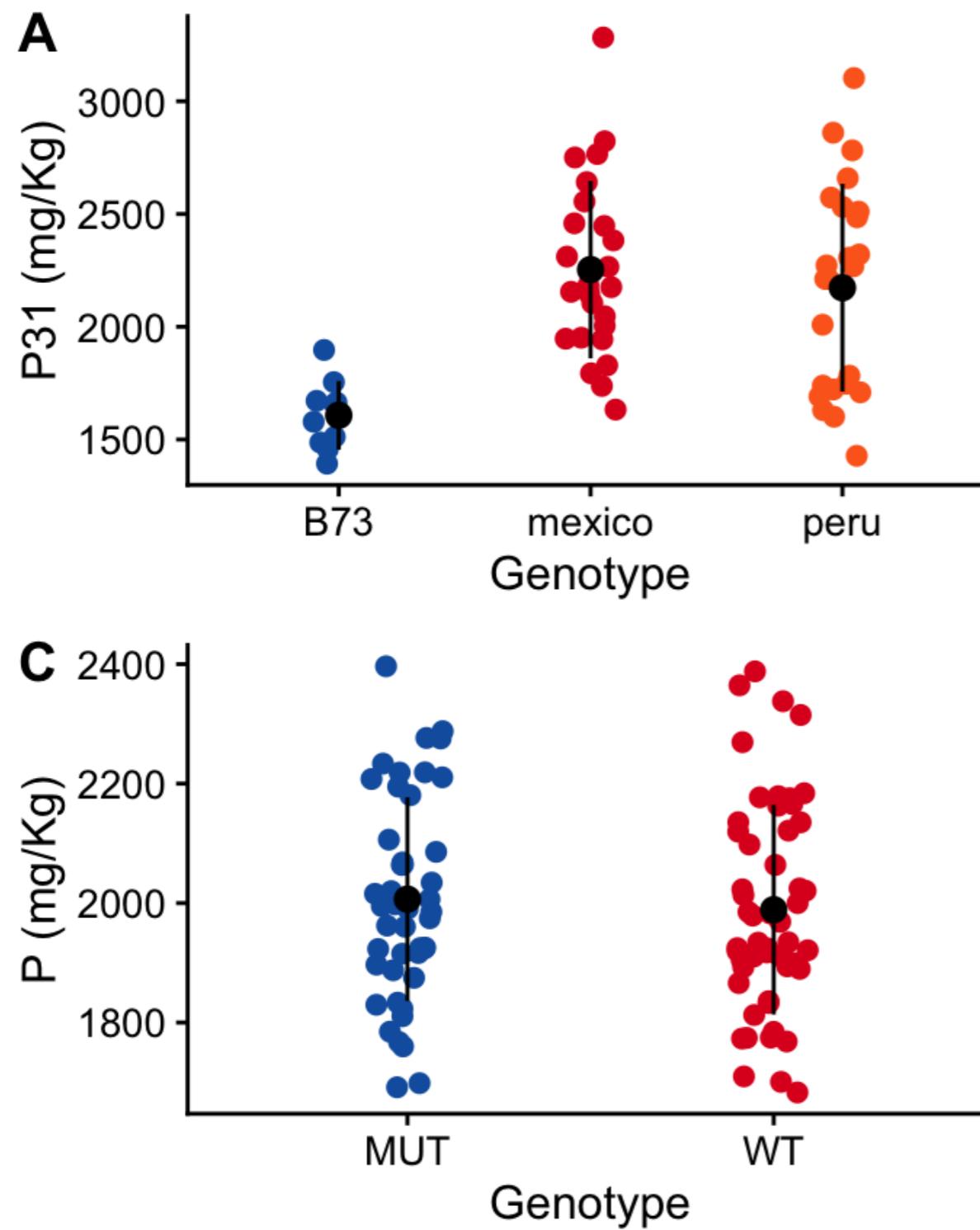
A**B**

Supplementary Figure 5

Supplementary Figure 6



Supplementary Figure 7



Supplementary Figure 8