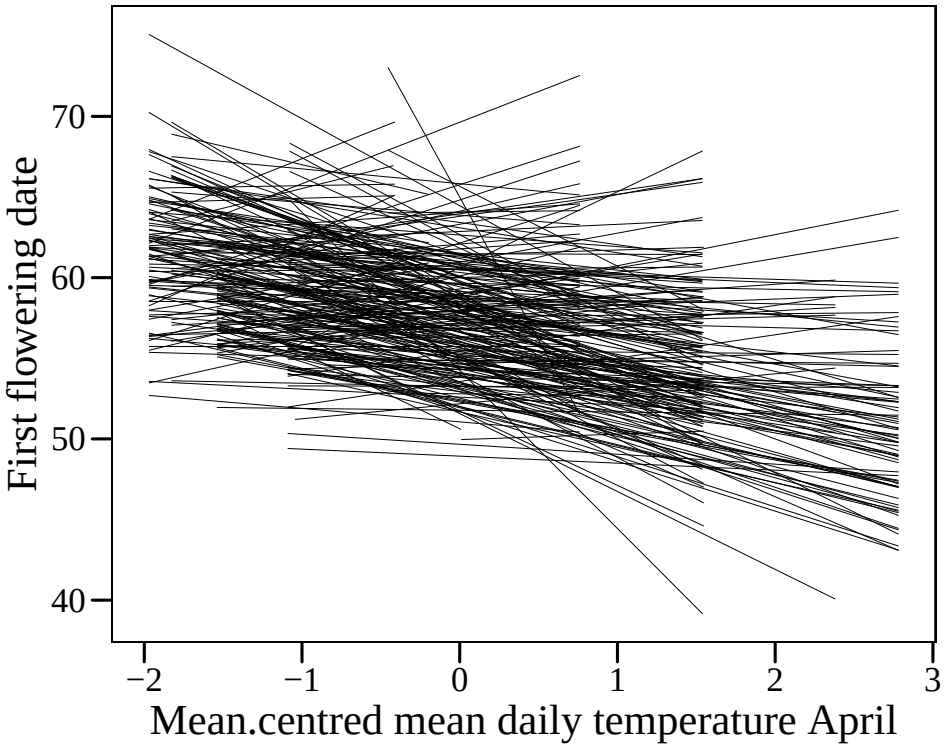
# Lathyrus ms2: Selection on reaction norms - Extraction of RN parameters with lms

## Contents

Reaction norm of FFD to mean daily temperature April, using the subset of data with plants with 4 or more years of data

Plot of the 243 reaction norms

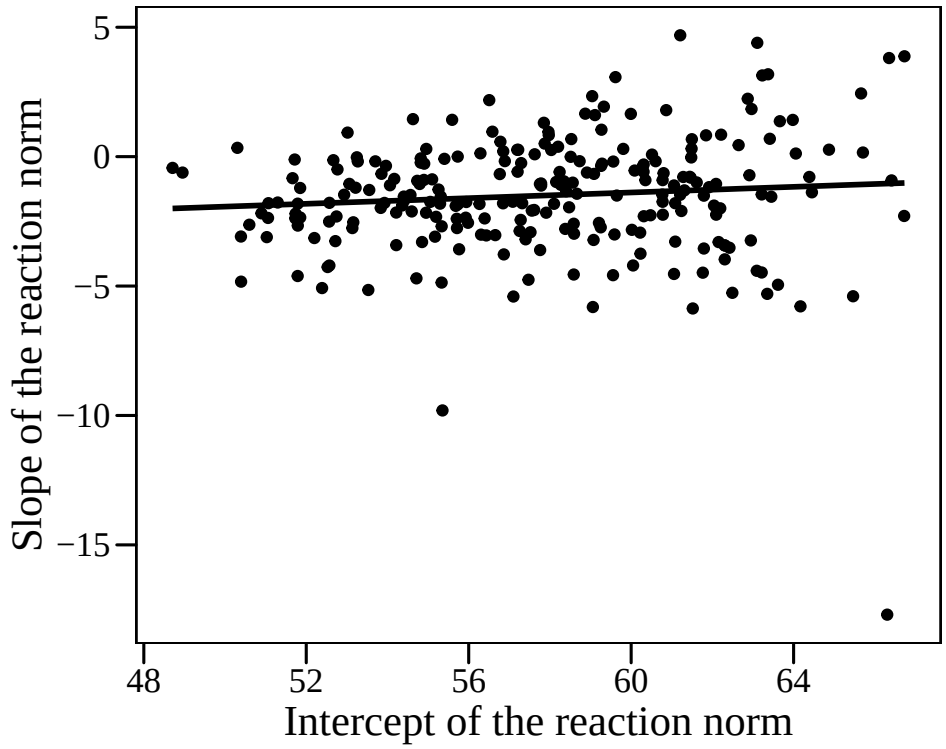



Extraction of parameters for every reaction norm (i.e. for each individual)

```
## # A tibble: 243 x 3
##    id      intercept4 slope4
##    <fct>        <dbl>  <dbl>
##  1 new_10        52.2 -3.14
##  2 new_100       51.8 -4.61
##  3 new_101       56.4 -3.04
##  4 new_102       51.8 -2.66
##  5 new_103       55.3 -1.82
##  6 new_104       58.2 -0.592
##  7 new_106       55.7 -2.76
##  8 new_107       57.3 -2.87
##  9 new_108       57.3 -1.80
## 10 new_109       54.8 -1.06
## # ... with 233 more rows
```

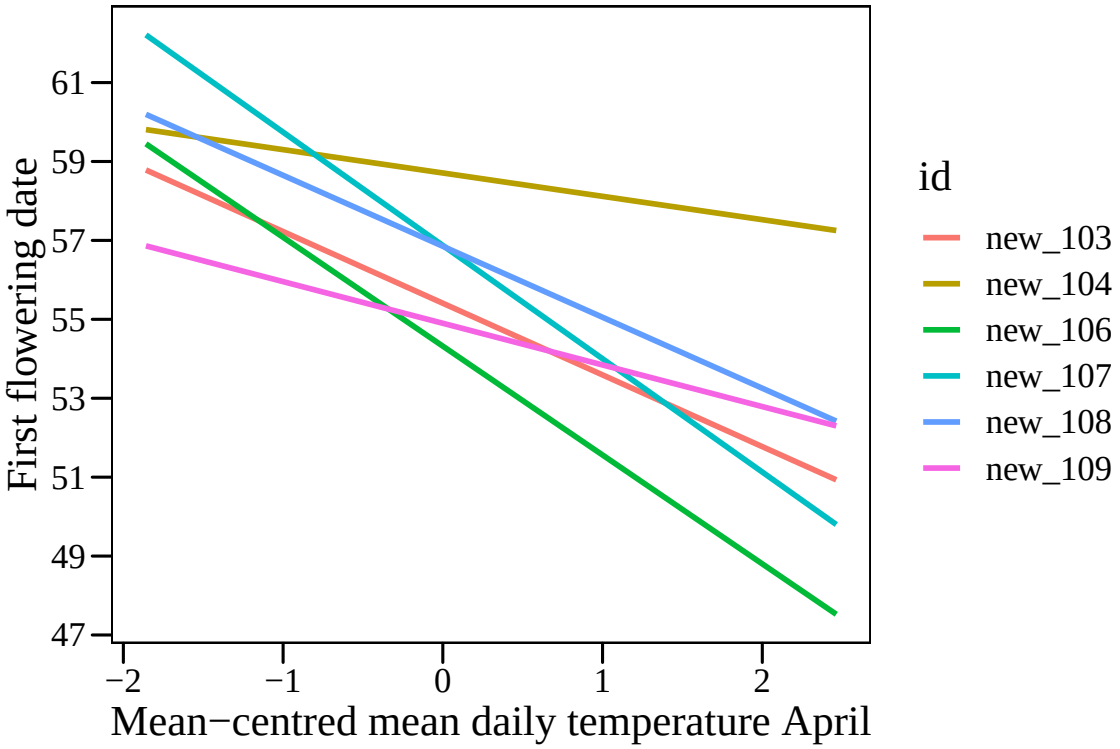
Correlation among intercepts and slopes:

```
## [1] 0.09457023
```




Correlation here is much lower than using BLUPs - WHY??? Problems with random effect of year in mixed models below?

Check that parameters are correct graphically by plotting some reaction norms


First flowering date
61
59
57
55
53
51
49
47
−2
−1
0
1
2
Mean−centred mean daily temperature April
id
new_103
new_104
new_106
new_107
new_108
new_109