Data

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```
Gly <- Data %>%
  filter(Herbicide =="Glyphosate" & Time !="Spring") %>%
  group_by(Herbicide, Population) %>%
  mutate(PercH = sum((alive)/40)*100) %>%
  filter(Time == "Summer" )
```

```
cor.test(Gly$PercH, Gly$PercMolec, method = "pearson", conf.level = 0.95)
```

```
##
##  Pearson's product-moment correlation
##
## data:  Gly$PercH and Gly$PercMolec
## t = 6.1509, df = 17, p-value = 1.067e-05
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  0.6045093 0.9328882
## sample estimates:
##       cor
## 0.8306452
```

```
Fom <- Data %>%
  filter(Herbicide =="Fomesafen" & Time !="Spring" & Time !="Fall") %>%
  group_by(Herbicide, Population) %>%
  mutate(PercF = sum((alive)/40)*100) %>%
  filter(Time == "Summer" )
```

```
cor.test(Fom$PercF, Fom$PercMolec, method = "pearson", conf.level = 0.95)
```

```
##
##  Pearson's product-moment correlation
##
## data:  Fom$PercF and Fom$PercMolec
## t = 2.5261, df = 17, p-value = 0.02175
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  0.08943719 0.78933264
## sample estimates:
##       cor
## 0.5224239
```

```
Lac <- Data %>%
  filter(Herbicide =="Lactofen") %>%
  group_by(Herbicide, Population) %>%
  mutate(PercL = sum((alive)/40)*100)  %>%
  filter(Time == "Fall" )
```

```
cor.test(Lac$PercL, Lac$PercMolec, method = "pearson", conf.level = 0.95)
```

```
##
##  Pearson's product-moment correlation
```

```
##
## data:  Lac$PercL and Lac$PercMolec
## t = -0.20346, df = 17, p-value = 0.8412
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.4924712  0.4141950
## sample estimates:
##        cor
## -0.0492866
```

```
library(gridExtra)
```

```
##
## Attaching package: 'gridExtra'
```

```
## The following object is masked from 'package:dplyr':
##
##     combine
```

```
library(cowplot)
```

```
##
## ************************************************************
```

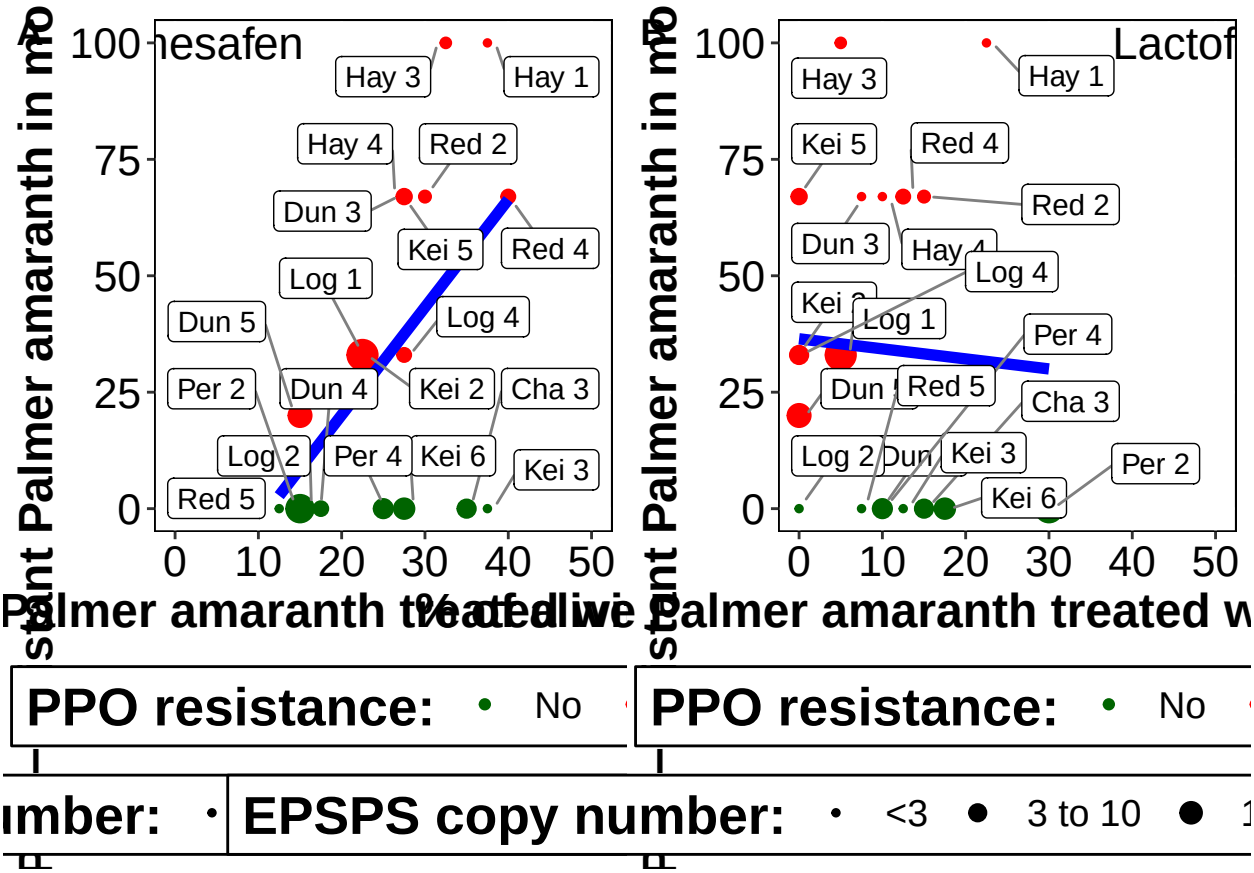
```
## Note: As of version 1.0.0, cowplot does not change the
```

```
##   default ggplot2 theme anymore. To recover the previous
```

```
##   behavior, execute:
##   theme_set(theme_cowplot())
```

```
## ************************************************************
```

```
plot_grid(p1, p2, nrow = 1, labels = c("A", "B")) +
  ggsave("Figure 5.pdf", height=10, width=20, dpi=600)
```




```
cor.test(PPO$PercF, PPO$PercL, method = "pearson", conf.level = 0.95)
```

```
##
##  Pearson's product-moment correlation
##
## data:  PPO$PercF and PPO$PercL
## t = 0.97581, df = 17, p-value = 0.3428
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.2500611  0.6196914
## sample estimates:
##       cor
## 0.2303064
```