

Figure Compiling

Joseph Longworth

```
library(rhandsontable)
library(tidyverse)
```

```
-- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
v dplyr      1.1.4      v readr      2.1.5
v forcats    1.0.0      v stringr    1.5.1
v ggplot2    3.5.1      v tibble     3.2.1
v lubridate  1.9.3      v tidyr      1.3.1
v purrr      1.0.2
-- Conflicts ----- tidyverse_conflicts() --
x dplyr::filter() masks stats::filter()
x dplyr::lag()     masks stats::lag()
i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become explicit
```

```
library(ggpubr)
library(egg)
```

Loading required package: gridExtra

Attaching package: 'gridExtra'

The following object is masked from 'package:dplyr':

combine

Attaching package: 'egg'

The following object is masked from 'package:ggpubr':

ggarrange

```
library(svglite)
library(scales)
```

Attaching package: 'scales'

The following object is masked from 'package:purrr':

discard

The following object is masked from 'package:readr':

col_factor

```
source("R/Plot_functions.R")
df=tibble::tibble(
  Sample = c(rep("C57BL/6",3),rep("C57BL/6 + C.rodentium",4)),
  Value = c(5673.5, 5730, 5611.5, 6433.5, 6325.5, 6569.5, 6607.5),
  Unit = rep("Intracellular thiols (MFI of mBBr)",7),
  Annotation = c(rep("",3),rep("Day 7 p.i.",4)))

colour_key=tibble::tibble(
  Sample=c("C57BL/6","C57BL/6 + C.rodentium","Gclc fl/fl","Cd4Cre Gclc fl/fl"),
  fill=c("#d4d4d4ff","#000000ff","#000000ff","#ff0000ff"))
```

```
outfile <- "SVGS/direct_1.svg"

# empty_plot <- ggplot(NULL, aes(x = NULL, y = NULL))+
#   theme_void()
plot <- barplot2(df,colour_key,ylab_split = 20,legend_loc = "none")+
  theme(
    panel.background = element_rect(fill='transparent'),
    plot.background = element_rect(fill='transparent', color=NA),
    panel.grid.major = element_blank(),
    panel.grid.minor = element_blank(),
    legend.background = element_rect(fill='transparent'),
    legend.box.background = element_rect(fill='transparent')
  )+
  theme(axis.line.x.bottom=element_line(color="#b32222"))
```

`summarise()` has grouped output by 'Sample'. You can override using the
`.groups` argument.

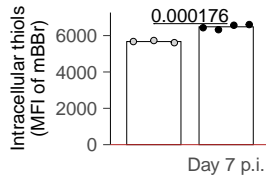
Joining with `by = join_by(Sample, Annotation)`

Warning in geom_bar(aes(symbol = Sample), stat = "summary", fun = "mean", :
Ignoring unknown aesthetics: symbol

Warning in geom_errorbar(aes(x = Annotation, ymin = mean - se, ymax = mean + :
Ignoring unknown aesthetics: symbol

Warning: The `size` argument of `element_line()` is deprecated as of ggplot2 3.4.0.
i Please use the `linewidth` argument instead.

```
# plot <- barplot2(df,colour_key,legend_loc = "none",Auto_Split_ylab = T,font = 16,dotsize =
# theme(rect = element_rect(fill = "transparent"))
plot
```



```
set_panel_size(plot, file = outfile ,
width = unit(20, "mm"),
height = unit(30,"mm"))
```

TableGrob (16 x 13) "layout": 22 grobs

	z	cells	name	grob
1	0 (1-16, 1-13)		background	rect[plot.background..rect.71]
2	5 (8- 8, 6- 6)		spacer	zeroGrob[NULL]
3	7 (9- 9, 6- 6)		axis-l	absoluteGrob[GRID.absoluteGrob.62]
4	3 (10-10, 6- 6)		spacer	zeroGrob[NULL]
5	6 (8- 8, 7- 7)		axis-t	zeroGrob[NULL]
6	1 (9- 9, 7- 7)		panel	gTree[panel-1.gTree.53]
7	9 (10-10, 7- 7)		axis-b	absoluteGrob[GRID.absoluteGrob.57]
8	4 (8- 8, 8- 8)		spacer	zeroGrob[NULL]
9	8 (9- 9, 8- 8)		axis-r	zeroGrob[NULL]
10	2 (10-10, 8- 8)		spacer	zeroGrob[NULL]
11	10 (7- 7, 7- 7)		xlab-t	zeroGrob[NULL]
12	11 (11-11, 7- 7)		xlab-b	zeroGrob[axis.title.x.bottom..zeroGrob.63]
13	12 (9- 9, 5- 5)		ylab-l	titleGrob[axis.title.y.left..titleGrob.66]
14	13 (9- 9, 9- 9)		ylab-r	zeroGrob[NULL]
15	14 (9- 9,11-11)	guide-box-right		zeroGrob[NULL]
16	15 (9- 9, 3- 3)	guide-box-left		zeroGrob[NULL]
17	16 (13-13, 7- 7)	guide-box-bottom		zeroGrob[NULL]
18	17 (5- 5, 7- 7)	guide-box-top		zeroGrob[NULL]
19	18 (9- 9, 7- 7)	guide-box-inside		zeroGrob[NULL]
20	19 (4- 4, 7- 7)		subtitle	zeroGrob[plot.subtitle..zeroGrob.68]
21	20 (3- 3, 7- 7)		title	zeroGrob[plot.title..zeroGrob.67]
22	21 (14-14, 7- 7)		caption	zeroGrob[plot.caption..zeroGrob.69]

