

REAP-2 Report

18 October, 2022

```
library(dplyr)
```

```
##  
## Attaching package: 'dplyr'  
  
## The following objects are masked from 'package:stats':  
##  
##   filter, lag  
  
## The following objects are masked from 'package:base':  
##  
##   intersect, setdiff, setequal, union
```

```
library(kableExtra)
```

```
##  
## Attaching package: 'kableExtra'  
  
## The following object is masked from 'package:dplyr':  
##  
##   group_rows
```

Setting

1. Dose-response curve plot

2. Model summary table

Slope and effect estimations

```
dt.footnote <- params$table_esti  
  
dt.footnote <- readRDS("/Users/rrrrrita/Documents/GitHub/REAP-2/dt.footnote.rds")  
  
names_spaced <- c(  
  ' ', 'Estimate (m)', 'Std.Err.',  
  'm > 1', ' ',  
  'Estimate', 'Std.Err.', 'Pairwise comparison')
```

```

hd = paste("IC/EC",50,"Estimation")

options(knitr.kable.NA = '')
dt.footnote %>%
  dplyr::select(Model,Slope,Slope.Std.Err,Slope.z.Pvalue,IC10,IC10.Std.Err,IC10.Pvalue)%>%
  mutate(Slope = abs(Slope)) %>%
  tibble::add_column(new_col = NA, .after = c("Slope.z.Pvalue"))%>%
  kbl(align = "c",col.names=names_spaced) %>%
  # kable_styling("striped") %>%
  column_spec(c(2,4,6,8), width = "6em") %>%
  column_spec(c(5), width = "4em") %>%
  add_header_above(c(" " = 1, "Hill Coefficient" = 3, " " = 1, "Effect Estimation" = 3))%>%
  footnote(
    number = c("m > 1: p-value based on one-sided t-test for hypothesis testing on hill coefficient"
      "Pairwise comparison: p-value based on ANOVA test (Cohen, 2000). Concentrations that
      "95% confidence intervals can be approximated by Estimate +/- t-value(0.975, df=n-1)*
      "Effect estimate is indicated by triangles in the dose-response curve plot.")
  )

```

	Hill Coefficient						
	Estimate (m)	Std.Err.	m > 1				
Jeko-1	2.180	0.084	<.0001		0.065	0.003	-
Jeko-R	1.738	0.088	<.0001		0.093	0.005	<0.0001
Rec-1	2.102	0.080	<.0001		0.119	0.004	3e-04
Mino	1.468	0.109	<.0001		0.162	0.016	0.0117
Jeko-NO #1	1.295	0.113	0.0045		0.188	0.022	0.3335
MAVER-1	1.319	0.105	0.0012		0.197	0.020	0.7835
Jeko-NO #11	1.426	0.129	5e-04		0.311	0.036	0.0077
JVM2	1.045	0.124	0.3565		0.394	0.059	0.2307

¹ m > 1: p-value based on one-sided t-test for hypothesis testing on hill coefficient > 1

² Pairwise comparison: p-value based on ANOVA test (Cohen, 2000). Concentrations that give specified effect (default at

³ 95% confidence intervals can be approximated by Estimate +/- t-value(0.975, df=n-1)*Std.Err.

⁴ Effect estimate is indicated by triangles in the dose-response curve plot.

Model comparison

```

comp <- params$table_compare

if (!is.null(comp)){
  comp %>%
    kbl(align = "l",col.names = c(" ", " ")) %>%
    kable_classic(full_width = F, html_font = "Cambria") %>%
    kable_material(c("striped"))
  # kable_styling("striped")
}

```