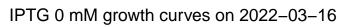
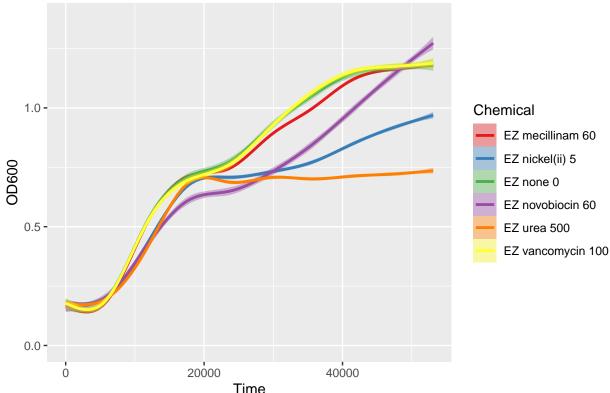
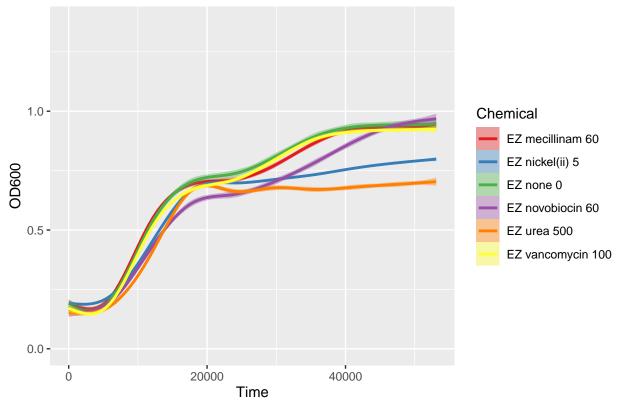
Effect of Drugs in E. cloacae

```
library(pacman)
p_load(data.table, ggplot2, RSQLite)
chem_gen_db <- dbConnect(RSQLite::SQLite(), "../chem_gen.db")</pre>
Experiments <- data.table(dbReadTable(chem_gen_db, "Experiments"))</pre>
Ryan_Strains <- data.table(dbReadTable(chem_gen_db, "Ryan_Strains"))</pre>
dbDisconnect(chem_gen_db)
today <- "2022-03-16"
Experiments <- Ryan_Strains[Experiments[Date == today], on = .(Organism)]
for (i in unique(Experiments[!is.na(Species), Induced])) {
 this.plot <-
    ggplot(
      Experiments[
        Induced == i,
        .(OD600,
          Chemical = paste(Media, Chemical, Dose)),
        by = .(Time)],
      aes(x = Time, y = OD600, color = Chemical, fill = Chemical)) +
    ylim(0, max(Experiments$0D600)) +
    geom_smooth(formula = y ~ s(x, bs = "cs"), method = "gam") +
    scale_colour_brewer(palette = "Set1") +
    scale_fill_brewer(palette = "Set1") +
    ggtitle(paste("IPTG", i, "mM", "growth curves on", today))
 plot(this.plot)
```

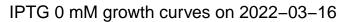


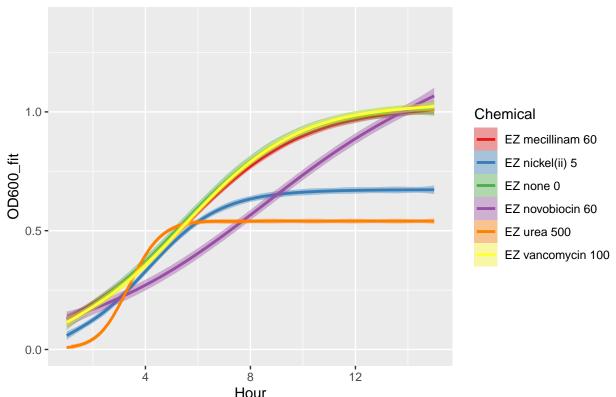


Time IPTG 1 mM growth curves on 2022–03–16



```
library(pacman)
p_load(data.table, ggplot2, RSQLite)
chem_gen_db <- dbConnect(RSQLite::SQLite(), "../chem_gen.db")</pre>
Fitted_Experiments <- data.table(dbReadTable(chem_gen_db, "Fitted_Experiments"))</pre>
Ryan_Strains <- data.table(dbReadTable(chem_gen_db, "Ryan_Strains"))</pre>
dbDisconnect(chem_gen_db)
today <- "2022-03-16"
Fitted_Experiments <- Ryan_Strains[Fitted_Experiments[Date == today], on = .(Organism)]
for (i in unique(Fitted_Experiments[!is.na(Species), Induced])) {
 this.plot <-</pre>
    ggplot(
      Fitted_Experiments[
        Induced == i,
        .(OD600_fit,
          Chemical = paste(Media, Chemical, Dose)),
        by = .(Hour)],
      aes(x = Hour, y = OD600_fit, color = Chemical, fill = Chemical)) +
    ylim(0, max(Experiments$0D600)) +
    geom_smooth(formula = y ~ s(x, bs = "cs"), method = "gam") +
    scale_colour_brewer(palette = "Set1") +
    scale_fill_brewer(palette = "Set1") +
    ggtitle(paste("IPTG", i, "mM", "growth curves on", today))
 plot(this.plot)
```





Hour IPTG 1 mM growth curves on 2022–03–16

