## Assignment 2

John Busker

10-5-2022

## Week 2: Glucocorticoid receptor dynamica

## Opdracht 1

```
parameters <- c(Ks_RM = 2.90,
              Kon = 0.00329,
state <- c(Rm0 = 4.74,
times <- seq(0, 48, by = 1)
volume <- function(t,y,parms){</pre>
  with(as.list(c(y, parms)),{
        dR <- Ks_r * dmRNA + Rf * Kre * DRn - Kon * D * RO - Kd_r * RO
        dDR \leftarrow Kon * D * RO - Kt * DR
        dDRn <- Kt * DR - Kre * DRn
        return(list(c(dmRNA, dR, dDR, dDRn)))
out <- ode(times = times, y = state, parms = parameters, func = volume)
```

