pMCMC-SIR

This an R version of the particle MCMC code used in Rasmussen, D. A., Ratmann, O., & Koelle, K. (2011). Inference for Nonlinear Epidemiological Models Using Genealogies and Time Series. PLoS computational biology, 7(8), e1002136. The raw code was written in MATLAB and I translated it into R. The file structures of raw code are preserved.

To run the particle MCMC algorithm for SIR epidemiological model, type following code in R

```
source('main_Inference.R')
```