ReadMe

ReadMe for Schneider P, Rund SSC, Smith NL, Prior KF, O’Donnell AJ, Reece SE (2018). Data from: Adaptive periodicity in the infectivity of malaria gametocytes to mosquitoes.

2018-Sept-04

**"malariaHawking2018.csv"**

Description: Malaria parasite prevalences and densities (gametocytes, oocysts and sporozoites) for mosquito infections of 4 treatment groups, comprising mosquitoes feeding on mice at “mosquito daytime” or “mosquito night time” and ingesting either rodent malaria parasites at “parasite daytime” or “parasite night time”.

Contact Information: For information regarding these data, please contact Petra Schneider at the University of Edinburgh. E-mail: [petra.schneider@ed.ac.uk](mailto:petra.schneider@ed.ac.uk).

Data:

Data include the following columns:

X: sorting variable

SelVarMouse: sorting variable (“0”,”1”) to select mouse-specific data only (“1)

SelVarPool: sorting variable (“0”,”1”) to select pool-specific data only (“1). Pools are groups of mosquitoes that, combined, are processed for sporozoite detection in the salivary glands.

MouseID: identification number for each individual mouse

MosqPotID: identification number for each individual pot of mosquitoes (fed on the same mouse)

TimeZone: combination of mosquito and parasite time. “A”: mosquito night time, parasite day time; “F”: mosquito day time, parasite night time; “Ud”: mosquito day time, parasite day time; “Un”: mosquito night time, parasite night time

MosqTime: mosquito time of day (“Night”, “Day”)

ParasiteTime: parasite time of day (“Night”, “Day”)

Block: experimental block (“1”, “2”)

RBCdens\_uL: red blood cell density/uL of mouse blood at the time of the mosquito feed.

GctDens\_uL: gametocyte density/uL of mouse blood at the time of the mosquito feed.

Fed: the number of mosquitoes (out of a total of 60) successfully blood feeding

Unfed: the number of mosquitoes (out of a total of 60) that have not fed

OocInf: the number of mosquitoes (out of a total of 20) that were oocyst infected on day 8 post blood feeding

OocUninf: the number of mosquitoes (out of a total of 20) that were not oocyst infected on day 8 post blood feeding

SporInfPool: the number of pools of mosquitoes (out of a total of 4 pools) that were sporozoite infected on day 14 post blood feeding

SporUninfPool: the number of pools of mosquitoes (out of a total of 4 pools) that not were sporozoite infected on day 14 post blood feeding

SporDens\_pool: number of sporozoites detected (by qPCR) in the pool of mosquitoes

MOSQ\_n-per-pool: number of mosquitoes processed for sporozoite quantification within each pool

OocDens\_Mosq: number of oocysts counted by microscopy in each mosquito