

FLs generate mating pairs

Samuel

9/3/2019

```
# setwd("Documents/research/projects/Lsax_fertilisation_time/")
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

dt = read.csv("../data/FLs_size_mm_sex.csv")
head(dt)

##   snail_ID size_mm  sex notes
## 1      648     10 male
## 2      649      9 male
## 3      652      9 male
## 4      653     10 male
## 5      662      7 male
## 6      663     10 male

dt_sex = split(dt, dt$sex)
for (f in 1:nrow(dt_sex$female)) {
  success=FALSE
  i=1
  f_log = log(dt_sex$female$size_mm[f])
  while (!success) {
    m_row = sample_n(dt_sex$male, size = 1, replace = FALSE)
    m_log = log(m_row[, "size_mm"])
    or = round(f_log - m_log, 1)
    # cat(or, "\n")
    success = (or >= 0.2 & or <= 0.4)
    i = i + 1
    if (or >= 0.2 & or <= 0.4) {
      cat("Female ID", dt_sex$female$snail_ID[f], "matched with male ID", m_row[, "snail_ID"], "\n")
    }
  }
}

## Female ID 612 matched with male ID 652
## Female ID 613 matched with male ID 658
## Female ID 614 matched with male ID 597
## Female ID 615 matched with male ID 671
## Female ID 616 matched with male ID 678
## Female ID 617 matched with male ID 670
## Female ID 618 matched with male ID 674
```

Female ID 619 matched with male ID 585
Female ID 620 matched with male ID 654
Female ID 621 matched with male ID 673
Female ID 622 matched with male ID 678
Female ID 623 matched with male ID 585
Female ID 686 matched with male ID 585
Female ID 687 matched with male ID 675
Female ID 688 matched with male ID 574
Female ID 689 matched with male ID 575
Female ID 690 matched with male ID 676
Female ID 691 matched with male ID 652
Female ID 692 matched with male ID 660
Female ID 693 matched with male ID 573
Female ID 694 matched with male ID 674
Female ID 695 matched with male ID 654
Female ID 696 matched with male ID 674
Female ID 697 matched with male ID 663
Female ID 624 matched with male ID 665
Female ID 625 matched with male ID 669
Female ID 626 matched with male ID 675
Female ID 627 matched with male ID 656
Female ID 628 matched with male ID 652
Female ID 629 matched with male ID 583
Female ID 630 matched with male ID 675
Female ID 631 matched with male ID 656