**TITLE** Longitudinal dynamics and behavioral correlates of telomeres in male wire-tailed manakins

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**DATA FILE DESCRIPTION**

**File name:** PIPFIL.Telo.Code.R

**File description:** Code used for analyzing and plotting data.

**File name:** PIPFIL.Telo.Data.csv

File Description: Data used for analyzing age-related changes in telomere lengths, telomere-behavior relationships, and estimating repeatabilities.

**Column Descriptions:**

Plate: The plate number for qPCR runs. Plate 1 corresponds to the first qPCR plates, Plate 2 the second, etc.

Band.Num: a unique ID for each individual

Sample.ID: a unique ID for each blood sample collected

TH.FL: a categorical variable denoting whether an individual was a territory-holder or floater male at the time in which a sample was collected and when behavior was measured.

Field.Season: a categorical variable denoting which field season a sample was collected in. For example, 14.15 corresponds to the field season that started in December 2014 and ended in March 2015.

Capt.Date: The date an individual was captured and a blood sample was collected.

Sub.Delta.Capt.Date: The number of days between collecting 2 telomere samples from the same individual.

Short-term: A categorical variable denoting two samples from the same individual which were collected within a single field season. This variable is used to filter the data for calculating the short-term repeatability estimate.

Longest-term: A categorical variable denoting two samples from the same individual which were collected between two field seasons. This variable is used to filter the data for calculating the long-term repeatability estimate.

Within.between: A categorical variable denoting whether the D measurement represents two samples collected within a single field season or between two different field seasons. This variable is included in all models analyzing the predictors associated with D, the within-individual changes in telomere lengths.

Age.at.Cap2: A continuous variable denoting an individuals chronological age at capture.

Avg.Age: A continuous variable denoting an individual’s average age. The average was calculated using the Age.at.Cap2 values for a given individual.

Delta.Age: The difference between an individual’s average age and age at capture.

effort: A continuous variable denoting how much time an individual spent on the lek. In other words, how much time an individual was recorded on the lek.

strength: A continuous variable denoting the interaction frequency.

degree: A continuous variable denoting the number of individuals an individual interacted with.

import: A continuous variable describing the exclusivity of an individual’s partnerships (Importance). See main text for more details on behavioral predictors.

rTL: An individual relative telomere length at sampling

D: The amount of change in an individual’s telomere length, corrected for the regression to the mean.

**File name:** rTL.long.format.csv

**File description:** Data used the quantify whether individuals exhibited patterns of telomere elongation that exceeded residual error in telomere measurements.

**Column descriptions:**

**Band.Num:** An individual’s ID, this is the same column as the Band.Num column in the other data file.

rTL1: An individual’s first telomere measurement

rTL2: An individual’s second telomere measurement

rTL3: An individual’s third telomere measurement

rTL4: An individual’s fourth telomere measurement

Capture.Date1: The date of an individual’s first telomere measurement

Capture.Date2: The date of an individual’s second telomere measurement

Capture.Date3: The date of an individual’s third telomere measurement

Capture.Date4: The date of an individual’s fourth telomere measurement