

Supplemental Text

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Variable names and description:

A: count of alternated visits

BreedingYear: year during which the brood was raised

BroodRef: unique identifier for broods

ChickAgeCat: the chick age as a categorical variable (chicks are routinely recorded at 6 and 10 days old, recordings deviating from that were pooled according to whether they were inferior, or superior (or equal) to 10)

DadAge: age of the social male parent (in years)

dam: genetic female parent of a chick

DVDInfoChickNb: the best estimate of the number of chicks at time of recording

DVDRef: nest watch unique identifier

FwillDivorce: Whether or not (1/0) female repaired while her previous partner was still alive, after a specific recorded brood she had with that initial partner **GenPairID**: combination of the dam and sire IDs

HatchingDayAfter0401: the numbers of day after the first of April of that year

MeanFVisit1RateH: for males, the partner's provisioning rate in number of visits per hour

MeanLogAdev: logarithm of the deviation in alternation $[\log ((A \text{ observed}+0.5) / (A \text{ random}+0.5))]$, averaged accross all nest watch for that brood

MeanLogSdev: logarithm of the deviation in synchrony, averaged accross all nest watch for that brood

MeanMVisit1RateH: for females, the partner's provisioning rate in number of visits per hour

MeanTotalProRate: the average total provisioning rate for that brood in number of visits per hour

MixedBroodYN: whether or not (1/0) the brood contained cross-fostered chicks

MPriorResidence: whether or not (1/0) a male had nested in this nest box prior to the breeding attempt recorded

MumAge: age of the social female parent (in years)

MwillDivorce: Whether or not (1/0) male repaired while his previous partner was still alive, after a specific recorded brood he had with that initial partner

NbHatched: number of chicks that hatched in that brood

NBRinged: number of chicks ringed in that brood

PairBroodNb: the number of brood a pair already reared together (successfully or unsuccessfully, including the brood of interest)

PairID: combination of the social parents IDs

PairIDYear: combination of the Pair ID and the breeding year

ParentsAge: average of both parents age (in this population, pairs are assortatively mated for age, correlation between male and female age is $r=0.34$, $p < 0.0001$)

RearingBrood: the brood where chicks were reared (foster brood for cross-fostered chicks)

RelTimeHrs: the time, relative to sunrise, at which the video was taken
ResMassTarsus_perChick: residuals of the regression of chick mass over its tarsus length
rowID: observation level ID
S: count of synchronous visits
sdResMassTarsus: standard deviation of the residuals of the regression of chick mass over its tarsus length
sire: genetic male parent of a chick
SocialDadID: unique identifier for male parent observed caring for a brood
SocialMumID: unique identifier for female parent observed caring for a brood
TotalProRate: the total number of visits provided by both partners divided by the entire duration of the nest watch in hours
Type: the type of data (observed (“z_Obsv”) or randomized (“Exp”)
VisitRateDifference: the difference in visit rate per hour between the partner

Predictors of coordination

Alternation

```
## Generalized linear mixed model fit by maximum likelihood (Laplace Approximation) ['glmerMod']
## Family: poisson ( log )
## Formula: A ~ Type * scale(ParentsAge) + Type * scale(HatchingDayAfter0401) +
##         Type * scale(PairBroodNb) + Type * scale(DVDInfoChickNb) +
##         Type * ChickAgeCat + Type * scale(RelTimeHrs) + Type * MPriorResidence +
##         Type * scale(TotalProRate) + Type * scale(VisitRateDifference) +
##         (1 | BroodRef) + (1 | SocialMumID) + (1 | SocialDadID) +
##         (1 | PairID) + (1 | BreedingYear) + (1 | PairIDYear) + (1 | DVDRef) + (1 | rowID)
## Data: MY_TABLE_perDVD_long
## Control: glmerControl(optimizer = "bobyqa")
##
##          AIC          BIC    logLik deviance df.resid
## 17591.2 17761.2 -8767.6 17535.2      3170
##
## Scaled residuals:
##      Min       1Q   Median       3Q      Max
## -4.1065 -0.3318  0.0476  0.3775  1.6533
##
## Random effects:
##  Groups      Name          Variance Std.Dev.
## rowID      (Intercept) 0.0000000 0.00000
## DVDRef     (Intercept) 0.0174908 0.13225
```

```

## BroodRef      (Intercept) 0.0071555 0.08459
## PairIDYear    (Intercept) 0.0029059 0.05391
## PairID        (Intercept) 0.0000000 0.00000
## SocialMumID   (Intercept) 0.0003230 0.01797
## SocialDadID   (Intercept) 0.0005549 0.02356
## BreedingYear  (Intercept) 0.0009226 0.03037
## Number of obs: 3198, groups:
## rowID, 3198; DVDRef, 1599; BroodRef, 872; PairIDYear, 546; PairID, 443; SocialMumID, 290; SocialDadID, 280; BreedingYear, 12
##
## Fixed effects:
##
##              Estimate Std. Error z value      Pr(>|z|)
## (Intercept)      2.7006047   0.0163234  165.44 < 0.0000000000000002 ***
## Typez_Obsv       0.0955885   0.0145448    6.57   0.00000000000496 ***
## scale(ParentsAge) -0.0363686   0.0114500   -3.18     0.00149 **
## scale(HatchingDayAfter0401) 0.0063874   0.0087336    0.73     0.46456
## scale(PairBroodNb) 0.0154411   0.0118719    1.30     0.19338
## scale(DVDInfoChickNb) 0.0449820   0.0096733    4.65   0.0000033176145 ***
## ChickAgeCatAge10 -0.0788861   0.0158692   -4.97   0.0000006659921 ***
## scale(RelTimeHrs) -0.0170679   0.0081321   -2.10     0.03583 *
## MPriorResidenceTRUE 0.0180885   0.0175580    1.03     0.30291
## scale(TotalProRate) 0.4505385   0.0100739   44.72 < 0.0000000000000002 ***
## scale(VisitRateDifference) -0.1873943   0.0088413  -21.20 < 0.0000000000000002 ***
## Typez_Obsv:scale(ParentsAge) -0.0070065   0.0116504   -0.60     0.54757
## Typez_Obsv:scale(HatchingDayAfter0401) -0.0041037   0.0092877   -0.44     0.65860
## Typez_Obsv:scale(PairBroodNb) 0.0015400   0.0119930    0.13     0.89783
## Typez_Obsv:scale(DVDInfoChickNb) -0.0126860   0.0106066   -1.20     0.23168
## Typez_Obsv:ChickAgeCatAge10 -0.0193630   0.0187363   -1.03     0.30139
## Typez_Obsv:scale(RelTimeHrs) -0.0079952   0.0090420   -0.88     0.37657
## Typez_Obsv:MPriorResidenceTRUE 0.0009645   0.0184301    0.05     0.95826
## Typez_Obsv:scale(TotalProRate) 0.0123925   0.0102975    1.20     0.22880
## Typez_Obsv:scale(VisitRateDifference) -0.0179941   0.0097157   -1.85     0.06402 .
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

##
## Correlation matrix not shown by default, as p = 20 > 12.
## Use print(x, correlation=TRUE) or
##   vcov(x)      if you need it

```

Synchrony

```
## Generalized linear mixed model fit by maximum likelihood (Laplace Approximation) ['glmerMod']
## Family: poisson ( log )
## Formula: S ~ Type * scale(ParentsAge) + Type * scale(HatchingDayAfter0401) +
##      Type * scale(PairBroodNb) + Type * scale(DVDInfoChickNb) +
##      Type * ChickAgeCat + Type * scale(RelTimeHrs) + Type * MPriorResidence +
##      Type * scale(TotalProRate) + Type * scale(VisitRateDifference) +
##      (1 | BroodRef) + (1 | SocialMumID) + (1 | SocialDadID) +
##      (1 | PairID) + (1 | BreedingYear) + (1 | PairIDYear) + (1 |      DVDRef) + (1 | rowID)
## Data: MY_TABLE_perDVD_long
## Control: glmerControl(optimizer = "bobyqa")
##
##      AIC      BIC    logLik deviance df.resid
## 15246.3 15416.3 -7595.2 15190.3      3170
##
## Scaled residuals:
##      Min       1Q   Median       3Q      Max
## -3.2096 -0.4098  0.0079  0.3397  1.8140
##
## Random effects:
##      Groups      Name      Variance      Std.Dev.
## rowID      (Intercept) 0.000000000000000000 0.0000000000
## DVDRef      (Intercept) 0.038890799171147690 0.1972075028
## BroodRef     (Intercept) 0.009127119141879058 0.0955359573
## PairIDYear   (Intercept) 0.008200794558676250 0.0905582385
## PairID       (Intercept) 0.000000000000000000 0.0000000000
## SocialMumID  (Intercept) 0.0000000000000005506 0.0000000742
## SocialDadID  (Intercept) 0.000000000000000000 0.0000000000
## BreedingYear (Intercept) 0.001607736413916966 0.0400965886
## Number of obs: 3198, groups:
## rowID, 3198; DVDRef, 1599; BroodRef, 872; PairIDYear, 546; PairID, 443; SocialMumID, 290; SocialDadID, 280; BreedingYear, 12
##
## Fixed effects:
##
##              Estimate Std. Error z value      Pr(>|z|)
## (Intercept)      1.952239   0.022441  87.00 < 0.0000000000000002 ***
## Typez_Obsv        0.098021   0.020249   4.84    0.00000129339 ***
## scale(ParentsAge) -0.035943   0.015627  -2.30     0.0214 *
## scale(HatchingDayAfter0401) 0.016187   0.012068   1.34     0.1798
```

```
## scale(PairBroodNb)          0.014099  0.016179  0.87          0.3835
## scale(DVDInfoChickNb)      0.080168  0.013574  5.91          0.00000000351 ***
## ChickAgeCatAge10          -0.009505  0.022066  -0.43          0.6666
## scale(RelTimeHrs)          -0.001611  0.011258  -0.14          0.8862
## MPriorResidenceTRUE        -0.001473  0.024058  -0.06          0.9512
## scale(TotalProRate)        0.688638  0.013808  49.87 < 0.0000000000000002 ***
## scale(VisitRateDifference) -0.182004  0.011360 -16.02 < 0.0000000000000002 ***
## Typez_Obsv:scale(ParentsAge) -0.011816  0.015356  -0.77          0.4416
## Typez_Obsv:scale(HatchingDayAfter0401) 0.002616  0.012498  0.21          0.8342
## Typez_Obsv:scale(PairBroodNb) 0.004958  0.015825  0.31          0.7541
## Typez_Obsv:scale(DVDInfoChickNb) -0.011873  0.014382  -0.83          0.4091
## Typez_Obsv:ChickAgeCatAge10 0.008623  0.024789  0.35          0.7280
## Typez_Obsv:scale(RelTimeHrs) -0.003006  0.011942  -0.25          0.8013
## Typez_Obsv:MPriorResidenceTRUE 0.003897  0.024391  0.16          0.8731
## Typez_Obsv:scale(TotalProRate) 0.004829  0.012880  0.37          0.7077
## Typez_Obsv:scale(VisitRateDifference) -0.000616  0.011714  -0.05          0.9581
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

##
## Correlation matrix not shown by default, as p = 20 > 12.
## Use print(x, correlation=TRUE) or
##   vcov(x)      if you need it
```

Fitness correlates

Chick Survival

```
## Generalized linear mixed model fit by maximum likelihood (Laplace Approximation) ['glmerMod']
## Family: binomial ( logit )
## Formula: cbind(NbRinged, NbHatched - NbRinged) ~ scale(MeanTotalProRate) +
##   scale(I(MeanTotalProRate^2)) + scale(MeanLogAdev) + scale(MeanLogSdev) +
##   scale(HatchingDayAfter0401) + scale(PairBroodNb) + MPriorResidence +
##   (1 | SocialMumID) + (1 | SocialDadID) + (1 | PairID) + (1 | BreedingYear) + (1 | BroodRef)
## Data: MY_TABLE_perBrood
## Control: glmerControl(optimizer = "bobyqa")
##
##      AIC      BIC  logLik deviance df.resid
```

```

##    1862.9    1925.0    -918.5    1836.9        859
##
## Scaled residuals:
##      Min       1Q   Median       3Q      Max
## -3.3380 -0.6080  0.1694  0.7776  2.1576
##
## Random effects:
##   Groups      Name      Variance      Std.Dev.
##   BroodRef    (Intercept) 0.00000000000002765 0.00000005258
##   PairID      (Intercept) 0.00000000000000000 0.00000000000
##   SocialMumID (Intercept) 0.050807860792350217 0.22540599103
##   SocialDadID (Intercept) 0.00000000000000000 0.00000000000
##   BreedingYear (Intercept) 0.066559832964918950 0.25799192422
## Number of obs: 872, groups:  BroodRef, 872; PairID, 443; SocialMumID, 290; SocialDadID, 280; BreedingYear, 12
##
## Fixed effects:
##              Estimate Std. Error z value      Pr(>|z|)
## (Intercept)      0.93453    0.10005   9.341 < 0.0000000000000002 ***
## scale(MeanTotalProRate)      1.65597    0.17991   9.204 < 0.0000000000000002 ***
## scale(I(MeanTotalProRate^2)) -0.94701    0.18436  -5.137   0.000000279549 ***
## scale(MeanLogAdev)      -0.07972    0.04750  -1.678    0.0933 .
## scale(MeanLogSdev)       0.02319    0.04790   0.484    0.6284
## scale(HatchingDayAfter0401)  0.28732    0.04595   6.252   0.000000000405 ***
## scale(PairBroodNb)       0.05429    0.04993   1.087    0.2768
## MPriorResidenceTRUE      -0.01689    0.09564  -0.177    0.8598
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
##              (Intr) s(MTPR s(I(MT s(MLA) s(MLS) s(HDA0 s(PBN)
## scl(MnTtPR) -0.003
## s(I(MTPR^2)  0.022 -0.959
## scl(MnLgAd)  0.010 -0.021  0.015
## scl(MnLgSd) -0.005 -0.148  0.107 -0.422
## sc(HDA0401)  0.069 -0.015  0.026  0.056 -0.038
## scl(PrBrdN)  0.158 -0.029  0.019  0.027  0.025 -0.108
## MPrrRsdTRUE -0.372 -0.008 -0.006 -0.002 -0.011 -0.109 -0.276

```

Chick Mass

```
## Linear mixed model fit by REML ['lmerMod']
## Formula: I(log(AvgOfMass)) ~ I(log(AvgOfTarsus)) + scale(MeanTotalProRate) +
##      scale(I(MeanTotalProRate^2)) + scale(HatchingDayAfter0401) +
##      scale(PairBroodNb) + scale(NbRinged) + scale(MeanLogAdev) +
##      scale(MeanLogSdev) + (1 | RearingBrood) + (1 | SocialMumID) +
##      (1 | SocialDadID) + (1 | PairID) + (1 | BreedingYear) + (1 |      dam) + (1 | sire) + (1 | GenPairID)
## Data: MY_TABLE_perChick
##
## REML criterion at convergence: -3417.3
##
## Scaled residuals:
##      Min       1Q   Median       3Q      Max
## -3.7725 -0.4755  0.0274  0.5243  2.9776
##
## Random effects:
##      Groups      Name      Variance  Std.Dev.
## RearingBrood (Intercept) 0.00302917 0.055038
## GenPairID    (Intercept) 0.00002524 0.005024
## PairID       (Intercept) 0.00071280 0.026698
## sire         (Intercept) 0.00111081 0.033329
## dam          (Intercept) 0.00037152 0.019275
## SocialMumID  (Intercept) 0.00000000 0.000000
## SocialDadID  (Intercept) 0.00000000 0.000000
## BreedingYear (Intercept) 0.00087228 0.029534
## Residual                0.00722328 0.084990
## Number of obs: 2063, groups:
## RearingBrood, 791; GenPairID, 683; PairID, 424; sire, 308; dam, 294; SocialMumID, 282; SocialDadID, 271; BreedingYear, 12
##
## Fixed effects:
##
##              Estimate Std. Error t value
## (Intercept)    -3.353052   0.094723  -35.40
## I(log(AvgOfTarsus))    2.238160   0.032783   68.27
## scale(MeanTotalProRate) -0.016342   0.014070   -1.16
## scale(I(MeanTotalProRate^2)) 0.019485   0.013823    1.41
## scale(HatchingDayAfter0401) -0.005933   0.003302   -1.80
## scale(PairBroodNb)      0.001506   0.003610    0.42
## scale(NbRinged)        -0.015017   0.004099   -3.66
```

```

## scale(MeanLogAdev)          -0.002174    0.003405    -0.64
## scale(MeanLogSdev)          -0.002979    0.003326    -0.90
##
## Correlation of Fixed Effects:
##      (Intr) I((AOT s(MTPR s(I(MT s(HDA0 s(PBN) sc(NR) s(MLA)
## I(lg(AvOT)) -0.995
## scl(MnTtPR)  0.111 -0.111
## s(I(MTPR^2) -0.087  0.087 -0.953
## sc(HDA0401)  0.214 -0.220  0.081 -0.051
## scl(PrBrdN)  0.031 -0.023 -0.028  0.044 -0.205
## scl(NbRngd) -0.028  0.031 -0.343  0.161 -0.093 -0.080
## scl(MnLgAd)  0.001  0.000 -0.024  0.013 -0.012  0.015  0.078
## scl(MnLgSd)  0.002 -0.002 -0.143  0.123  0.004  0.049 -0.029 -0.462

```

Variance in Chick Body Condition (residuals of mass on tarsus)

```

## Linear mixed model fit by REML ['lmerMod']
## Formula: sdResMassTarsus ~ scale(MeanTotalProRate) + scale(I(MeanTotalProRate^2)) +
##      scale(HatchingDayAfter0401) + scale(NbRinged) + MixedBroodYN +
##      scale(MeanLogAdev) + scale(MeanLogSdev) + scale(PairBroodNb) +
##      (1 | SocialMumID) + (1 | SocialDadID) + (1 | PairID) + (1 | BreedingYear)
## Data: MY_TABLE_perBrood
##
## REML criterion at convergence: 1816.9
##
## Scaled residuals:
##      Min       1Q   Median       3Q      Max
## -1.6469 -0.6792 -0.1581  0.5702  5.3593
##
## Random effects:
##      Groups      Name      Variance Std.Dev.
##      PairID      (Intercept) 0.000000 0.00000
##      SocialMumID (Intercept) 0.000000 0.00000
##      SocialDadID (Intercept) 0.027631 0.16623
##      BreedingYear (Intercept) 0.000995 0.03154
##      Residual              0.782272 0.88446
## Number of obs: 681, groups: PairID, 379; SocialMumID, 263; SocialDadID, 253; BreedingYear, 12
##

```



```

## Fixed effects:
##               Estimate Std. Error t value
## (Intercept)      1.311235   0.053261  24.619
## scale(MeanTotalProRate)    0.086472   0.174883   0.494
## scale(I(MeanTotalProRate^2)) -0.105320   0.157259  -0.670
## scale(HatchingDayAfter0401) -0.030760   0.036921  -0.833
## scale(NbRinged)          0.141830   0.058114   2.441
## MixedBroodYNTRUE          0.143368   0.071760   1.998
## scale(MeanLogAdev)         0.024061   0.043005   0.559
## scale(MeanLogSdev)        -0.058227   0.047613  -1.223
## scale(PairBroodNb)        -0.009524   0.036313  -0.262
##
## Correlation of Fixed Effects:
##      (Intr) s(MTPR s(I(MT s(HDAO sc(NR) MBYNTR s(MLA) s(MLS)
## scl(MnTtPR) -0.197
## s(I(MTPR^2)  0.207 -0.964
## sc(HDAO401)  0.003  0.076 -0.042
## scl(NbRngd) -0.148 -0.193  0.046 -0.083
## MxdBrYNTRUE -0.607  0.024 -0.025 -0.068 -0.151
## scl(MnLgAd) -0.055 -0.026  0.013  0.004  0.067  0.100
## scl(MnLgSd)  0.021 -0.138  0.118  0.001 -0.019 -0.062 -0.490
## scl(PrBrdN)  0.001 -0.041  0.044 -0.182 -0.077  0.071  0.015  0.046

```

Range in chick mass

```

## Linear mixed model fit by REML ['lmerMod']
## Formula: MassRange ~ scale(MeanTotalProRate) + scale(I(MeanTotalProRate^2)) +
##      scale(HatchingDayAfter0401) + scale(NbRinged) + MixedBroodYN +
##      scale(MeanLogAdev) + scale(MeanLogSdev) + scale(PairBroodNb) +
##      (1 | SocialMumID) + (1 | SocialDadID) + (1 | PairID) + (1 | BreedingYear)
## Data: MY_TABLE_perBrood
##
## REML criterion at convergence: 4033.8
##
## Scaled residuals:
##      Min      1Q  Median      3Q      Max
## -1.9493 -0.6155 -0.2742  0.3334  6.0265
##

```

```

## Random effects:
##   Groups      Name      Variance      Std.Dev.
##   PairID      (Intercept) 0.00000000000003816 0.0000001953
##   SocialMumID (Intercept) 0.00000000000000000 0.00000000000
##   SocialDadID (Intercept) 0.00000000000000000 0.00000000000
##   BreedingYear (Intercept) 0.01704581711424668 0.1305596305
##   Residual      8.50662917156371279 2.9166126194
## Number of obs: 808, groups: PairID, 426; SocialMumID, 282; SocialDadID, 273; BreedingYear, 12
##
## Fixed effects:
##               Estimate Std. Error t value
## (Intercept)      3.28200899 0.15231348 21.548
## scale(MeanTotalProRate) 0.33302161 0.47257134 0.705
## scale(I(MeanTotalProRate^2)) -0.63182433 0.43509937 -1.452
## scale(HatchingDayAfter0401) -0.48868227 0.10876184 -4.493
## scale(NbRinged) 1.97853110 0.16023318 12.348
## MixedBroodYNTRUE 0.18394825 0.21356760 0.861
## scale(MeanLogAdev) 0.23463756 0.11690495 2.007
## scale(MeanLogSdev) -0.20100742 0.12441558 -1.616
## scale(PairBroodNb) -0.00002984 0.10604878 0.000
##
## Correlation of Fixed Effects:
##      (Intr) s(MTPR s(I(MT s(HDAO sc(NR) MByNTR s(MLA) s(MLS)
## scl(MnTtPR) -0.075
## s(I(MTPR^2) 0.082 -0.952
## sc(HDAO401) 0.029 0.049 -0.013
## scl(NbRngd) 0.034 -0.373 0.185 -0.115
## MxdBrYNTRUE -0.674 0.060 -0.059 -0.058 -0.151
## scl(MnLgAd) -0.035 -0.043 0.028 -0.001 0.073 0.059
## scl(MnLgSd) 0.004 -0.151 0.126 0.012 -0.018 -0.017 -0.421
## scl(PrBrdN) -0.030 -0.018 0.023 -0.165 -0.073 0.068 0.009 0.047

```

Divorce correlates

Male

```

## Generalized linear mixed model fit by maximum likelihood (Laplace Approximation) ['glmerMod']
## Family: binomial ( logit )

```

```

## Formula: MwillDivorce ~ scale(MeanLogSdev) + scale(MeanLogAdev) + scale(DadAge) +
##      scale(PairBroodNb) + scale(MeanFVisit1RateH) + scale(NbRinged) +      (1 | SocialDadID) + (1 | BreedingYear)
## Data: MY_TABLE_perBrood
## Control: glmerControl(optimizer = "bobyqa")
##
##      AIC      BIC    logLik deviance df.resid
##    669.1    709.8   -325.6    651.1      674
##
## Scaled residuals:
##      Min       1Q   Median       3Q      Max
## -1.3299 -0.4127 -0.3238 -0.1942  4.3848
##
## Random effects:
##  Groups      Name      Variance Std.Dev.
## SocialDadID (Intercept) 1.656    1.287
## BreedingYear (Intercept) 0.000    0.000
## Number of obs: 683, groups: SocialDadID, 224; BreedingYear, 12
##
## Fixed effects:
##              Estimate Std. Error z value      Pr(>|z|)
## (Intercept)   -1.90728    0.20951  -9.104 < 0.0000000000000002 ***
## scale(MeanLogSdev)    0.05534    0.12613   0.439    0.660874
## scale(MeanLogAdev)   -0.12180    0.12152  -1.002    0.316196
## scale(DadAge)        0.23451    0.16021   1.464    0.143254
## scale(PairBroodNb)   -0.58662    0.17076  -3.435    0.000592 ***
## scale(MeanFVisit1RateH) 0.07994    0.14012   0.570    0.568357
## scale(NbRinged)     -0.22454    0.13701  -1.639    0.101229
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
##              (Intr) s(MLS) s(MLA) sc(DA) s(PBN) s(MFV1
## scl(MnLgSd) -0.010
## scl(MnLgAd)  0.032 -0.376
## scale(DdAg) -0.168  0.069  0.029
## scl(PrBrdN)  0.213 -0.001  0.004 -0.454
## scl(MFV1RH)  0.044 -0.138  0.033 -0.056  0.016
## scl(NbRngd)  0.049 -0.079  0.045  0.042 -0.061 -0.530

```

Female

```
## Generalized linear mixed model fit by maximum likelihood (Laplace Approximation) ['glmerMod']
## Family: binomial ( logit )
## Formula: FwillDivorce ~ scale(MeanLogSdev) + scale(MeanLogAdev) + scale(MumAge) +
##       scale(PairBroodNb) + scale(MeanMVisit1RateH) + scale(NbRinged) + (1 | SocialMumID) + (1 | BreedingYear)
## Data: MY_TABLE_perBrood
## Control: glmerControl(optimizer = "bobyqa")
##
##      AIC      BIC   logLik deviance df.resid
##    468.2    508.9   -225.1    450.2     673
##
## Scaled residuals:
##      Min       1Q   Median       3Q      Max
## -0.6865 -0.3217 -0.2631 -0.1928  4.4796
##
## Random effects:
##  Groups      Name      Variance      Std.Dev.
## SocialMumID (Intercept) 1.051935600446811003 1.02563911804
## BreedingYear (Intercept) 0.000000000000008058 0.00000008977
## Number of obs: 682, groups: SocialMumID, 233; BreedingYear, 12
##
## Fixed effects:
##              Estimate Std. Error z value      Pr(>|z|)
## (Intercept)    -2.53738    0.25366 -10.003 <0.0000000000000002 ***
## scale(MeanLogSdev) -0.08433    0.14654  -0.576      0.5649
## scale(MeanLogAdev)  0.22665    0.15093   1.502      0.1332
## scale(MumAge)     -0.21485    0.17691  -1.214      0.2246
## scale(PairBroodNb) -0.34044    0.20537  -1.658      0.0974 .
## scale(MeanMVisit1RateH) -0.12401    0.17501  -0.709      0.4786
## scale(NbRinged)    0.13223    0.17503   0.755      0.4500
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
##              (Intr) s(MLS) s(MLA) sc(MA) s(PBN) s(MMV1)
## scl(MnLgSd)  0.064
## scl(MnLgAd) -0.140 -0.389
## scale(MmAg)  0.222  0.073 -0.082
```

```
## scl(PrBrdN)  0.035 -0.025  0.026 -0.394
## scl(MMV1RH)  0.089  0.042 -0.134  0.124 -0.017
## scl(NbRngd) -0.109 -0.195  0.183 -0.113 -0.026 -0.586
```