**Electronic Supplementary Material**

**Stability and Durability of Intra- and Intersex Social Bonds of Captive Rhesus Macaques (*Macaca mulatta*)**

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**Table SI** Name (including abbreviation), year of birth, rank and presence off all individuals in the study

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | | Year of birth | Rank in year | | | Present in period\* | | | | | | |
| Individual | | | 1. Nov. 2006–Jun. 2007 | 2. Jul. 2007–Jun. 2008 | 3. Nov. 2008–Jun. 2009 | 1. Nov. 2006–Feb. 2007 | 2. Mar. 2007–Jun. 2007 | 3. Jul. 2007–Oct. 2007 | 4. Nov. 2007–Feb. 2008 | 5. Mar. 2008–Jun. 2008 | 6. Nov. 2008–Feb. 2008 | 7. Mar. 2009–Jun. 2009 |
| *Males* | Robbedoes (Ro) | 1995 | | 1 | 1 | 1 | \* | \* | \* | \* | \* | \* | \* |
|  | Jam (Ja) | 2003 | | 11 | 6 | 4 | \* | \* | \* | \* | \* | \* | \* |
|  | Timo (Ti) | 2001 | | 3 | — | — | \* | \* | † | † | † | † | † |
|  | Bout (Bo) | 2002 | | 9 | 15 | — | \* | \* | \* | \* | \* | † | † |
|  | Kaas (Ka) | 2001 | | 13 | 17 | 15 | \* | \* | \* | \* | \* | \* | \* |
|  | Moer (Me) | 2002 | | 12 | 10 | 10 | \* | \* | \* | \* | \* | \* | \* |
|  | Ham (Ha) | 2004 | | 16 | 13 | — | \* | \* | \* | \* | \* | † | † |
|  | Zier (Zi) | 2003 | | 19 | 21 | — | \* | \* | \* | \* | \* | † | † |
|  | Dremel (Dr) | 2004 | | 18 | 18 | 19 | \* | \* | \* | \* | \* | \* | \* |
|  | Kwast (Kw) | 2005 | | — | 8 | 3 | — | — | \* | \* | \* | \* | \* |
|  | Okki (Ok) | 2005 | | — | 9 | 5 | — | — | \* | \* | \* | \* | \* |
|  | Choco (Ch) | 2005 | | — | 24 | — | — | — | \* | \* | \* | † | † |
|  | Kimsie (Ki) | 2006 | | — | — | 16 | — | — | — | — | — | \* | \* |
|  | Venz (Vz) | 2006 | | — | — | 18 | — | — | — | — | — | \* | \* |
| *Females* | Mona (Mo) | 1996 | | 2 | 2 | 2 | \* | \* | \* | \* | \* | \* | \* |
|  | Lisa (Li) | 2003 | | 4 | 7 | 6 | \* | \* | \* | \* | \* | \* | \* |
|  | Verf (Ve) | 2004 | | 10 | 3 | 8 | \* | \* | \* | \* | \* | \* | \* |
|  | Priegel (Pr) | 2002 | | 6 | 4 | 7 | \* | \* | \* | \* | \* | \* | \* |
|  | Saravi (Sa) | 2001 | | 5 | 5 | 9 | \* | \* | \* | \* | \* | \* | \* |
|  | Wenk (We) | 1988 | | 14 | 20 | — | \* | \* | \* | \* | \* | \* | † |
|  | Natasha (Nt) | 1996 | | 8 | 14 | 13 | \* | \* | \* | \* | \* | \* | \* |
|  | Yota (Yo) | 2004 | | 15 | 23 | 21 | \* | \* | \* | \* | \* | \* | \* |
|  | Epha (Ep) | 1988 | | 17 | 22 | 20 | \* | \* | \* | \* | \* | \* | \* |
|  | Emoe (Em) | 1996 | | 7 | 11 | 12 | \* | \* | \* | \* | \* | \* | \* |
|  | Fassa (Fa) | 2005 | | — | 12 | 11 | — | — | \* | \* | \* | \* | \* |
|  | Girl (Gi) | 2005 | | — | 16 | 14 | — | — | \* | \* | \* | \* | \* |
|  | Tang (Ta) | 2005 | | — | 19 | 22 | — | — | \* | \* | \* | \* | \* |
|  | Taptoe (Tt) | 2006 | | — | — | 17 | — | — | — | — | — | \* | \* |

—, still too young; †, died or taken out of the group. All individuals were part of a social group of captive rhesus macaques living at the BPRC, the Netherlands.

**Table SII** Actual number, i.e., without correcting for the time two individuals could be observed together (see Table I) of contact sits observed per dyad over the entire 3 yr of the study. Abbreviations of male names (see also Table I) are in *italics*.



**Table SIII** Actual number, i.e., without correcting for the time two individuals could be observed together (see Table I) of grooming bouts observed per dyad over the entire 3 yr of the study. Abbreviations of male names (see also Table I) are in *italics*.

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**Table SIV** Example of how top-two contact sitting partners were calculated from the female–female data from the period between March 2008 and June 2008

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Mo | Li | Ve | Sa | Fa | Pr | Em | Gi | We | Nt | Yo | Ep | Ta |  | | |
| Mo | \* | 0.719 | 0.875 | 0.125 | 0.094 | 0.125 | 0.031 | 0.031 | 0.125 | 0.031 | 0.000 | 0.219 | 0.000 | | ***a*** | | |
| Li | 0.719 | \* | 0.281 | 0.406 | 0.156 | 0.438 | 0.125 | 0.156 | 0.188 | 0.125 | 0.063 | 0.000 | 0.031 | | ***b*** | | |
| Ve | 0.844 | 0.281 | \* | 0.188 | 0.250 | 0.188 | 0.125 | 0.063 | 0.031 | 0.094 | 0.094 | 0.031 | 0.031 | | ***a*** | | |
| Sa | 0.125 | 0.406 | 0.188 | \* | 0.688 | 0.344 | 0.125 | 0.125 | 0.188 | 0.125 | 0.031 | 0.094 | 0.000 | | ***c*** | | |
| Fa | 0.094 | 0.156 | 0.250 | 0.750 | \* | 0.094 | 0.094 | 0.094 | 0.031 | 0.281 | 0.063 | 0.063 | 0.000 | | ***a*** | | |
| Pr | 0.125 | 0.438 | 0.188 | 0.344 | 0.094 | \* | 0.031 | 0.000 | 0.188 | 0.281 | 0.063 | 0.031 | 0.031 | | ***a*** | | |
| Em | 0.031 | 0.125 | 0.125 | 0.125 | 0.094 | 0.031 | \* | 1.281 | 0.125 | 0.063 | 0.156 | 0.000 | 0.000 | | ***c*** | | |
| Gi | 0.031 | 0.156 | 0.063 | 0.125 | 0.094 | 0.000 | 1.281 | \* | 0.063 | 0.156 | 0.156 | 0.063 | 0.094 | | ***d*** | | |
| We | 0.125 | 0.188 | 0.031 | 0.188 | 0.031 | 0.188 | 0.125 | 0.063 | \* | 0.219 | 0.563 | 0.031 | 0.031 | | ***d*** | | |
| Nt | 0.031 | 0.125 | 0.094 | 0.125 | 0.281 | 0.281 | 0.063 | 0.156 | 0.219 | \* | 0.125 | 0.094 | 0.031 | | ***d*** | | |
| Yo | 0.000 | 0.063 | 0.094 | 0.031 | 0.063 | 0.063 | 0.156 | 0.156 | 0.563 | 0.125 | \* | 0.031 | 0.000 | | ***d*** | | |
| Ep | 0.219 | 0.000 | 0.031 | 0.094 | 0.094 | 0.031 | 0.000 | 0.063 | 0.031 | 0.094 | 0.031 | \* | 0.875 | | ***c*** | | |
| Ta | 0.000 | 0.031 | 0.031 | 0.000 | 0.000 | 0.031 | 0.000 | 0.094 | 0.031 | 0.031 | 0.031 | 0.875 | \* |  | | ***c*** |

Data are relative (/day) frequencies of contact-sitting of each dyad. Data of related individuals (which were not included as top-two partners) are depicted in red. The data of the top contact-sitting partner are highlighted in yellow and those of the “runner-ups” in green. As such, we have individuals that have (a) one top-partner and one “runner-up”; (b) one top-partner and two “runners-up”; (c) one top-partner and more than two “runners-up” (highlighted in blue), which were then not included as being within the top partners; or (d) two or more top-partners and therefore no runner-ups were included as top partners.