

# International Primatological Society XXIII Congress Kyoto 2010

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### Abstracts

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## 14th

Tuesday

16:15 - 19:35

Oral Session
'20min per paper

#### CT-A

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SOCIAL ORGANIZATION
Chairs: C Neumann &
K. Koops

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DOMINANCE AND SOCIAL
RELATIONSHIPS IN
FEMALES OF A TOLERANT
MACACOUE SPECIES.
MACACA NIGRA
J Duboscq.
D. Perwitasan-Farajallah.
M. Agil. B. Thierry.
K. Hodges. A Engelhardt

266 16:35-16:55
CALCULATING DOMINANCE
HIERARCHIES IN A DYNAMIC
SYSTEM: RANK AND RANK
CHANGES IN MALE CRESTED
MACAQUES (MACACA NIGRA)
'C. Neumann,

A. Maulana Irvan, M. Agil, D. Perwitasari-Farajallah, A. Widdig, A. Engelhardt

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BLACK MACAQUES
(Macaca nigra) IN THE
TANKGKOK-BATUANGUS
NATURE RESERVE
NORTH SULAWESI.
INDONESIA
'S Sumano. K Walanabe

268 17:15-17-35 DOMINANCE HIERARCHY AND SOCIAL GROOMING AMONG COMMENSAL FEMALE BONNET MACAOUES(MACACA RADIATA) IN MYSORE, INDIA 'S.R. Chacko

269 17:35-17:55 SYNCHRONIZED RANK CHANGES IN JUVENILES AND THEIR MOTHERS AND RELATED BEHAVIOR OBSERVED IN A CAPTIVE GROUP OF JAPANESE MACAQUES 'Rizald, K. Watanabe

270 17.55 18.15
NON-AGGRESSIVE
INTERVENTIONS IN CONFLICTS AMONG CAPTIVE
BORNEAN ORANGUTANS
(PONGO PYEMAEUS)
'T. Tajima. H. Kuroton.
S. Takeda

271 18.15-18.35 DOMINANCE STYLE AMONG FEMALE WHITE-FACED CAPUCHINS (CEBUS CAPUCINUS) AT SANTA ROSA NATIONAL PARK, COSTA RICA 'M.L. Bergstom, L.M. Fedigan

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HARASSMENT AND
FEMALE REPRODUCTIVE
SUCCESS IN
HAMADRYAS BABOONS
(PAPIO H. HAMADRYAS)
P. Polo. F. Colmenares,
M.V. Hemández-Lloreda

273 18:55-19:15 HOW ADULT MALE CHIMPANZEES OF MAHALE ACOUIRE THE ALPHA STATUS? '7 Nishida, A Inaba. N. Iloh. T. Kooriyama M. Nakamura. H. Nishie. T. Sakamaki. K. Zamma CT-B

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Chairs: F. Bercovilch &

274 16 15-16-35
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BODY WEIGHT DURING
PARENTAL CARE PERIOD
IN COOPERATIVELY
BREEDING COMMON
MARMOSETS
'I. Taisula, N. Kutsukake,
A. Kawasaki, C. Yokoyama,
H. Onoe, M. Hasegawa

275 16:35-16:55
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INTERACTIONS IN WILD
CRESTED MACAQUES
(MACACA NIGHA)
'D Kerhoas, M. Agil,
D. Pervitasari Farajallah,
A. Engelhardt, A. Widdig

276 16:55:17:15
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MATERNAL SUPPORT
AND MATING SUCCESS IN
MALE BONOBOS.
'M Surbeck, R. Mundry,
G. Hohmann

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LIFE HISTORY TRAITS,
MATERNAL BEHAVIOUR
AND INFANT DEVELOPMENT
OF THE BLUE-EYED
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FLAVIFRONS): IMPLICATIONS FOR CONSERVATION
'M.S.N. Volampeno.
J.C. Masters, C.T. Downs

278 17:35-17:55 GRANDMOTHERING IN GAPTIVE GALAGO SENE-GALENSIS BRACCATUS -PARENTING BEYOND NURSING L. T. Nash. S. E. Kessler

279 17:55:18:15
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DAYTIME BIRTH IN THE
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(CALLICEBUS OENANTHE)
AND SUBSEOUENT MALE
PARENTAL CARE
'A.M. DeLuycker

280 18 15-18:35 TWINNING FREQUENCY OF JAPANESE MACAQUES (MACACA FUSCATA) AT TAKASAKIYAMA 'Y Sugyama, H Kuria, T Matsur, T Shimomura

281 18:35-18:55 SENESCENCE AND TERMINAL INVESTMENT IN FREE-RANGING FEMALE RHESUS MACAQUES (MACACA MULATTA) "C.L. Hollman, J.P. Higham, A. Mas-Rivera, J.E. Ayala. D. Maestripieri

282 18:55-19:15 REPRODUCTIVE SUCCESS OF FEMALE TAIWANESE MACAQUES (MACACA CYCLOPIS) CT-C

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SELF-MEDICATION AND
HOST-PARASITE ECOLOGY
Chairs: M.A. Hullman & A.J.J. MacIntosh

283 16.15-16:35 MEDICINAL USE OF PLANTS BY ORANG-UTANS 'H.C. Morrogh-Bernard, R. De Martin, L. Hoffmannova, K. Dolezal, I. Foitova

284 16:35-16:55
SELF-MEDICATION IN BONOBOS
A REPORT OF LEAR-SWALLOWING
FROM LUI KOTALE IN SALONGA
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'A. Fowler, G. Hohmann, B. Fruth

285 16:55:17:15
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'S.J. Arngo-Nelson, A.L. Baden, R.L. Salisbury, P.C. Wright, E.M. McGee

286 17:15-17:35 DOCUMENTING GEOPHAGY IN WILD CHACMA BABOONS AT WILD CLIFF, SOUTH AFRICA, USING TRAP CAMERAS "PA Pebsworth, MA Hulfman

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RUFDMITRATUS TEPHROSCELES)
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290 18:35-18:55 PARASITE BURDEN AS A TOOL TO ASSESS IMMUNOSENESCENCE IN WILD BROWN MOUSE LEMURS (MICROCEBUS RUFUS) 'S Zohdy, T.H. Rakoloarinivo, J. Carag. P.C. Wright, J. Jernvall

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292 19:15-19:35
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AND BEHAVIOR ON PARASITE
SPECIFICITY IN RANOMAFANA
NATIONAL PARK, MADAGASCAR
'S.E. Vaughn, E. McGee

CT-D

EN-A-14E
Morphology & Phylogeny
LOCOMOTION & POSTURE
Chairs: A. Malsumura

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293 16.15-16.35 REGIONAL DIFFERENCES IN CORTICAL THICKNESS OF THE FEMORAL NECK IN CHIMPANZEES A. Malsumura. T. Nakamura. H. Gunji, Y. Takanashi, T. Nishida. M. Okada.

294 16:35-16:55 FUNCTIONAL MORPHOLO-GY OF ANTHROPOID HAND POSTURES: A 3D APPROACH TO PHALANGEAL ARTICULAR SURFACES: "A S Deane

295 16 55 17 15 HIND LIMB USE AND LOADING PATTERNS IN PRIMATES WITH DIFFER-ENT LOCOMOTOR REPER TOIRES

296 17 15:17 35 ORTHOGRADE TRUNK POSTURE BIPEDALISM AND LUMBAR BACK MUSCULATURE 18 Hesse, R. Fineher M.S. Fischer, N. Schilling

297 17 35-17 55 ARBOREAL ORIGIN OF BIPEDALISM REEXAMINED - COMPARATIVE DYNAMICS-- T. Kimura 268

DOMINANCE HIERARCHY AND SOCIAL GROOMING AMONG COMMENSAL FEMALE BONNET MACAQUES (MACACA RADIATA) IN MYSORE, INDIA

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It has been argued that commensal primates are behaviorally different from their wild counterparts and less useful for the study of primate behavior. Several differences proposed to occur in provisioned groups are an increase in aggression and the linearity of the female dominance hierarchy and more asymmetrical grooming relationships. This paper examines dominance and social grooming among females in a troop of commensal bonnet macaques to see if they fit the species' classification of "moderately relaxed". Dominance hierarchy strength, evaluated using a modified Landau index, was 0.72 on a 0 to 1 scale, indicating moderate linearity. Rank and aggression given were positively correlated (Spearman's rho r=.852, n=11, p<0.01) and rank and aggression received were negatively correlated (Spearman's rho r=-.856, n=11 p<0.01). However the hierarchy contained reversals with a Directional Inconsistency Index, DII, of 13% and a Dyads Up Index of 9%. Dominance and grooming scores were converted to an interval scale using standard scores to determine the dominance categories high, middle, and low rank. Grooming given and received were not correlated with rank (Spearman's rho r=-.483, n=11, p>0.1; r=0.539, n=11; p>0.1). As well, only females in the high rank category groomed adjacent individuals significantly more often than non-adjacent individuals (x2=15.83, df1, p<0.0001). On the continuum of macaque behaviors from despotic to relaxed, wild bonnet macaques have been considered a level three (moderately relaxed) species and these findings are consistent. This indicates that commensality does not seem to affect the overall strength or character of bonnet macaque dominance and grooming interactions.

Keywords: Macaca radiata, commensal primates, grooming, social behavior

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SYNCHRONIZED RANK CHANGES IN JUVENILES AND THEIR MOTHERS AND RELATED BEHAVIOR **OBSERVED IN A CAPTIVE GROUP OF JAPANESE MACAQUES** 

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Synchronized rank change in juveniles and their mothers was studied in a captive group of Japanese macaques (Macaca fuscata fuscata), a species characterized by highly despotic hierarchical relations. This study aimed to evaluate whether rank changes of mothers lead to rank changes among their offspring and whether any observed correlation is due to 1) agonistic support by mother, the commonly made prediction, or 2) recognition by juveniles of an "opportunity" to change rank. We systematically recorded behaviors of 18 juvenile subjects belonging to two cohorts, together with their mothers. A total of 1854, 30-minute continuous focal recording sessions combined with all occurrence-sampling methods were collected. Our analyses allowed us to clarify the role support received from mother and other individuals and of some associated behavior patterns. Most rank changes among mothers were followed by a change of rank in their offspring (21 out of 26 cases) within several days (mean 5.1 ± 4.5 SD). Support provided by mothers or other individuals was not often observed and did not increase, even when a juvenile outranked their targets. Alternatively, juveniles started to perform intensive head-flagging, agonistic intervention, and successive aggression toward certain individuals after their mothers outranked them. These results suggest that juvenile macaques recognize opportunities and take the initiative to outrank others because of the rank change of their mothers. We highlight the importance of spontaneous behavioral changes in juvenile macaques for the inheritance of matrilineal rank.

Keywords: Japanese macaque; dominance rank; agonistic support; spontaneous behavior