



# International Primatological Society XXIII Congress Kyoto 2010

12-18 September, 2010 Kyoto, Japan  
Kyoto University (Yoshida Main Campus)



**XXIII Congress**  
*Kyoto 2010*

# Program



# International Primatological Society XXIII Congress Kyoto 2010

12-18 September, 2010 Kyoto, Japan  
Kyoto University (Yoshida Main Campus)

Organized by Primate Society of Japan (PSJ) and Science Council of Japan

## Program

### Contents

Welcome Message .....	p3
Committee / Supporting Academic Societies / Cooperating Organizations .....	p4
General Information .....	p6
Access Map .....	p9
Floor Map .....	p10
Congress Timetable .....	p12
Program Overview .....	p13
Plenary Lectures .....	p18
IPS Lifetime Achievement Award Winner .....	p19
Pre-Congress Symposium and Workshop .....	p20
Open Symposium / Student Affair Workshop .....	p22
Scientific Program .....	p23
Presentation Guidelines .....	p51
Contributors .....	p53
Exhibition .....	p54

# Welcome Message



**Juichi Yamagiwa**

President of the Organizing Committee for IPS2010

## WELCOME

It is our great pleasure to welcome you to the 23<sup>rd</sup> Congress of the International Primatological Society in Kyoto. We are sure that detailed discussions and exchange of ideas will take place on a broad spectrum of topics. I believe that all participants will enjoy our program, including scientific and social events, and am confident that this Congress will be a valuable experience for all of us.

This Congress has brought together more than 1,000 delegates from 56 countries. Fully one-fifth of the delegates are primatologists from the range countries, and students actually account for a greater of the delegates. This diversity of participants was made possible by the great efforts of the organizing committee, who set the low registration fee and gathered funds to support participants from range countries.

Kyoto University is the ideal place to host this Congress. It is the center of natural science in Japan and the birth place of Japanese primatology. We can use the university facilities and attract many students from a wide range of academic studies. This may well reflect the recent scope of primatology, in which various fields of study are integrated in a single research project. In this Congress, nine sessions for oral presentation (301) will run simultaneously every day while two sessions for poster presentation (133) will run on two different days. The titles of the presentations are diverse, and it was very difficult to classify several presentations into the categories set for the sessions. We have accepted proposals for 57 symposia (402) and 12 workshops, and 11 sessions will be run simultaneously every day. In the student competition, 21 students (13 for oral and 8 for poster) have been selected as finalists. The winners will be awarded during this Congress. A student affairs workshop will be held on Wednesday September 15, from 19:00 to 20:30. This is an opportunity for students to network and meet professional primatologists.

Kyoto is renown as a historical city, and more than 40 million people visit Kyoto every year. There are about 400 Shinto shrines and 1,650 Buddhist temples that dot the entire city. Please visit these sites and enjoy innumerable culture treasures and traditional crafts. As a social event, a banquet will be held on Friday, September 17. Kaiseki, a traditional Japanese dinner, will be served with a performance of Shomyo, a type of traditional Japanese music. Three excursions (Arashiyama Monkey Park, Kyoto City Zoo and Kyoto University Museum) and four post-Congress tours (Koshima, Kinkazan, Yakushima and Japan Monkey Centre) are available. I hope that visitors will enjoy these sites showing the various stages in the history of Japanese primatology.

The theme of this Congress is 'Quest for coexistence with nonhuman primates.' Now the majority of nonhuman primates are facing the risk of extinction, which has been caused by habitat destruction, poaching, disease transmission, and other problems. In range countries, many primatologists are tackling growing conflicts between people and nonhuman primates. I hope all of the delegates will exchange up-to-date information and discuss conservation measures to mitigate such conflicts. I am sure that you will enjoy the Congress and learn many ideas from face-to-face discussions with new and old friends of primatology at Kyoto.

# Committee

## Organizing Committee

President	Juichi Yamagiwa
Vice President	Tetsuro Matsuzawa
Secretary Generals	Naofumi Nakagawa Masato Nakatsukasa
Fund-raising	Gen'ichi Idani
General Affairs	Michio Nakamura
Members	Keiji Terao Toshisada Nishida Gen Suwa Yasuhiro Yoshikawa Kazumichi Katayama Tetsukazu Yahara Keisuke Ueda Hisao Baba Shingo Miura Mitsuo Ichikawa Shun Sato Yoshiyuki Sakaki Naruya Saitou Kiyokazu Agata Masuo Koyasu
Inspectors	Toshikazu Hasegawa Kozo Matsubayashi Hiroo Kumakura
Advisory	Masao Kawai Yukimaru Sugiyama Hidemi Ishida Tasuku Kimura Kosei Izawa Hideo Nigi Akisato Nishimura Naoki Koyama Takayoshi Kano Akiyoshi Ehara Mitsuo Iwamoto Ken Nozawa Kisou Kubota

## Secretariat

Secretary Generals	Naofumi Nakagawa Masato Nakatsukasa
--------------------	--

## Executive Committee

Chair	Juichi Yamagiwa
Vice Chair	Tetsuro Matsuzawa
Secretary Generals	Naofumi Nakagawa Masato Nakatsukasa
Fund-raising	Gen'ichi Idani
General Affairs	Michio Nakamura Keiko Shimizu
Excursions	Hideki Sugiura
Venues	Gen Yamakoshi
Program and Symposia	Hirohisa Hirai Masayuki Nakamichi Takeshi Furuich
Education and Enlightenment	Hiroshi Ihobe
Pre-congress Workshops	Yoshi Kawamoto

## Fund-raising Committee

Chair	Gen'ichi Idani
Members	Juichi Yamagiwa Tetsuro Matsuzawa Keiji Terao

## Committee of General Affairs

Chair	Michio Nakamura
Vice Chair	Keiko Shimizu
Members	Masaki Tomonaga Miho Inoue-Murayama Satoshi Hirata Masayuki Tanaka Tatyana Humle

## Committee of Excursions

Chair	Hideki Sugiura
Members	Masayuki Tanaka Eiji Inoue Yamato Tsuji Takafumi Suzumura

## Committee of Education and Enlightenment

Chair	Hiroshi Ihobe
Members	Shigeru Suzuki Yuji Takenoshita Hidefusa Sakamoto Naobi Okayasu Yousuke Kaifu

**Committee of Venues**

Chair	Gen Yamakoshi
Members	Takeshi Nishimura Eiji Inoue

**Committee of Program and Symposia**

Chair	Hirohisa Hirai
Vice Chairs	Takeshi Furuichi Masayuki Nakamichi
Members	Kazuo Fujita Michael A. Huffman Peter Kappeler Shoji Kawamura Katherine Leighty Yasuyuki Muroyama Katsuki Nakamura Naobi Okayasu Yukiko Shimooka Juri Suzuki Masanaru Takai

**Committee of Pre-congress Workshops**

Chair	Yoshi Kawamoto
Members	Yutaka Kunimatsu Chie Hashimoto Yuzuru Hamada Eishi Hirasaki Eiji Inoue Noriko Itoh Takao Oishi Daisuke Shimizu

**Scientific Committee**

Ikuma Adachi Filippo Aureli Nancy G Caine Marina Cords Melissa Emery Thompson Linda Marie Fedigan Dorothy Fragaszy Kazuo Fujita Cecile Garcia Goro Hanya Chie Hashimoto Hirohisa Hirai Michael A. Huffman Miho Inoue-Murayama Takafumi Ishida Alison Jolly Yoshi Kawamoto Hiroki Koda Katherine Leighty Yasuyuki Muroyama Masayuki Nakamichi Shinichiro Nakamura Takeshi Nishimura Naobi Okayasu Naoki Osada Andy J. Plumptre Ulrich H. Reichard Naruya Saitou Yoko Satta Makoto Shimada Pascal Sicotte Sachi Sri Kantha Tara Stoinski Gen Suwa Masato Taira Masanari Takai Keiji Terao Masaki Tomonaga Kunio Watanabe Patricia C. Wright	James Anderson Fred Bercovitch Christina Campbell Anthony Di Fiore John Fa Eduardo Fernandez-Duque Eberhard Fuchs Takeshi Furuichi Yuzuru Hamada Brian Hare David Hill Eishi Hirasaki Hiroo Imai Tadashi Isa Akihiro Izumi Peter Kappeler Shoji Kawamura Jean-Baptiste Leca Nicholas Mundy Masako Myowa-Yamakoshi Katsuki Nakamura Masato Nakatsukasa Takao Oishi Hiroki Oota Elisabetta Palagi Marion Ratterree Atsuko Saito Cricket Sanz Gabriele Schino Yukiko Shimooka David Sprague Roscoe Stanyon Karen Strier Juri Suzuki Masahiko Takada Masayuki Tanaka Jo Thompson Yamato Tsuji Liz Williamson
--	--

# Supporting Academic Societies

The Anthropological Society of Nippon  
Human Behavior and Evolution Society of Japan  
Ecological Society of Japan  
Japanese Society of Cultural Anthropology  
The Genetics Society of Japan  
The Japanese Society for Animal Psychology

Mammalogical Society of Japan  
Japan Ethological Society  
The Society for Ecological Anthropology  
Society of Evolutionary Studies, Japan  
The Japanese Psychological Association

# Cooperating Organizations

Kyoto University      Kyoto City      Kyoto Prefecture      Japan National Tourism Organization (JNTO)

# General Information

## The Congress and the Venue

The 23rd Congress of the International Primatological Society will take place in Japan on 12th-18th September, 2010. The congress will be held in three buildings, the Clock Tower, the Faculty of Engineering Bldg. No.8, and Faculty of Law and Economics Main Bldg, situated in Yoshida Main Campus at Kyoto University, Kyoto. For details of access to the venue, please see the "Access Map" section.

## Registration

The registration desk will be open from 13:00 on 12th September at the Kyoto University Clock Tower building. The registration desk will remain open from 9:15 to 17:00 on 13th-17th September. Registered participants should go there to collect their name card and a delegate bag packed with program, presentation abstracts-CD (and also its book form, for purchasers in advance) and other materials. Please always wear your name card during the congress. Attendance at the scientific program will be permitted only to those wearing a name card. Registered accompanying guests will receive a different name card. The registration fee for accompanying guests includes the Welcome Reception, and the option to participate in the social program, but does not include attendance at the scientific program.

On-site registration will be possible. The fee structure is as follows: ¥36,000 for regular IPS members; ¥30,000 for range country IPS members; ¥30,000 for student IPS members; ¥48,000 for non-members; ¥5,000 for accompanying guests. A few copies of extra presentation abstracts in book form are available for purchase at the registration desk (¥5,000).

## Cloakroom

The cloakroom on the second floor of the Clock Tower building will be open for leaving luggage from 9:15 until 15 minutes after the end of the program each day from 13th to 17th September. You are requested to collect your luggage at the end of each day.

## Nursery Room

A nursery room is available at the Center for Women Researchers about 5 min walk from the Clock Tower. Priority of use will be given to those who applied for it at the time of online registration, but there may be room for others. Please check at the registration desk.

## Internet Access

Internet access will be available with a Wi-Fi connection at the venue using guest IDs and your own PC with wireless network interface. Because there will be a limited number of IDs and passwords, you can use it only for limited duration. Connecting service configuring manuals for Windows 7, VISTA, XP, Mac OS10.4 and 10.5 will be available on request at the registration desk (English is only available for Windows XP).

## Lunch

There are several restaurants and fast food shops in or near Kyoto University main campus where you can have lunch. You can also buy a lunch box at nearby stands or at convenience stores (see the restaurant list in the delegate bag). Please note delegates are not permitted to bring any food or drink into the Centennial Hall (CT-A) on the first floor of the Clock Tower building.

## Notice Board

Except in the case of an emergency, we will not make vocal announcements to call participants. Instead we will prepare a notice board near the registration desk for contacts between participants. Please check the notice board from time to time, as there will also be official written announcements.

## Resting Room with free drink

Coffee will be served in the following two rooms: the Multipurpose Room 1 (CT-MR1: one section of International Conference Hall) on the second floor of the Clock Tower building and the Multipurpose Room 2 (EN-MR2) on the third floor of the Faculty of Engineering Bldg. No.8.

## Exhibition

The IPS2010 Exhibition will be held in the Multipurpose Room 2 (EN-MR2) on the third floor of the Faculty of Engineering Bldg. No.8.

## IPS Silent Auction

The IPS Silent Auction will be held in the Multipurpose Room 1 (CT-MR1: one section of the International Conference Hall) on the second floor of the Clock Tower building.

## Board meeting

The IPS board meeting will be held from 13:00 to 17:00 on 12th September (Sun) and from 9:00 to 12:00 on 18th September (Sat) in Shirankaikan Annex (outside the main campus).

## General Assembly

The IPS general assembly will be held from 16:45 to 18:45 on 17th September (Fri) in the Centennial Hall (CT-A) on the first floor of the Clock Tower building. By courtesy of IPS, the ceremony of Takashima Awards (encouragement awards for young members of Primate Society of Japan) will be also held during the assembly.

## Welcome reception

The welcome reception will be officially held from 17:00 to 20:00 on 12th September (Sun) in the International Conference Hall on the second floor of the Clock Tower building. Neither ceremony nor special events will take place, so please take your drinks and snacks and find a better place to relax with your friends outside the room. It may be nice to relax outside the Clock Tower building. There are several restaurants and bars around Kyoto University if you want to drink more.

## Banquet (optional)

The banquet will be held from 19:15 to 21:15 on 17th September (Fri) in Hotel Heian no Mori Kyoto. Kaiseki, a traditional Japanese dinner, will be served with a performance of Shomyo, a type of traditional Japanese music. The hotel is located about 2 km away from the main venue at Kyoto University. There will be no chartered bus. You will be able to come to the hotel on foot, by bus or by taxi (a route map will be available at the registration desk). Due to the limitation of space, we have only about 400 seats available. We have already closed reservations for the banquet, but in case of any cancellations seats will be available for purchase on a first-come-first-served basis.

## Excursions & Post Congress Tours (optional)

We offer three excursions (Arashiyama Monkey Park, Kyoto City Zoo and Kyoto University Museum) during congress and four post-Congress tours (Koshima, Kinkazan, Yakushima and Japan Monkey Centre). Although the applications to the post-Congress tours were closed on 30 July, the following three excursions are still open without application.

### a) Arashiyama Monkey Park "Iwatayama"

Please visit the famous study site at Arashiyama Monkey Park "Iwatayama" and watch free-ranging Japanese monkeys. The Park is located on the outskirts of Kyoto City, about 1 hour from Kyoto University. The park is open from 9:00 to 17:00 every day and can readily be accessed by public transportation. You can visit the park by yourself whenever is convenient for you. On 18th September (Sat), researchers working in the park will be on hand to answer your questions as you watch the monkeys.

\* Application: not required.

\* Information is available at the registration desk.

\* Approximate charge: ¥1,500 (train and entrance fee)

\* Entrance fee is discounted for registered participants. Please show your IPS2010 name card at the entrance

## **b) Kyoto City Zoo**

Kyoto City Zoo is one of the oldest zoos in Japan. It is only 30-minutes' walk from Kyoto University. The park is open from 9:00 to 17:00 every day, except on Mondays. You can visit the zoo by yourself whenever is convenient for you. We are planning a guided tour to visit new facilities including the new ape house with its 9 meter-high tower and experimental booths which were inaugurated in 2009.

- \* Application: not required
- \* Information is available at the registration desk.
- \* Charge: free for registered participants.
- \* Please show your IPS2010 name card at the entrance.

## **c) Kyoto University Museum**

The Kyoto University Museum has a collection of more than 2.5 million objects relating to arts, sciences and education which Kyoto University has collected and studied for the past one hundred years, including some exhibits relating to primatology. You can buy some interesting souvenirs in the museum. It is located in the campus, only a few minutes' walk from the conference place. The museum is open from 9:30 to 16:00 every day, except for Mondays and Tuesdays. You can visit the museum by yourself whenever it is convenient for you.

- \* Application: not required
- \* Information is available at the registration desk.
- \* Charge: free for registered participants.
- \* Please show your IPS2010 name card at the entrance.



# Access Map

## Access to Kyoto

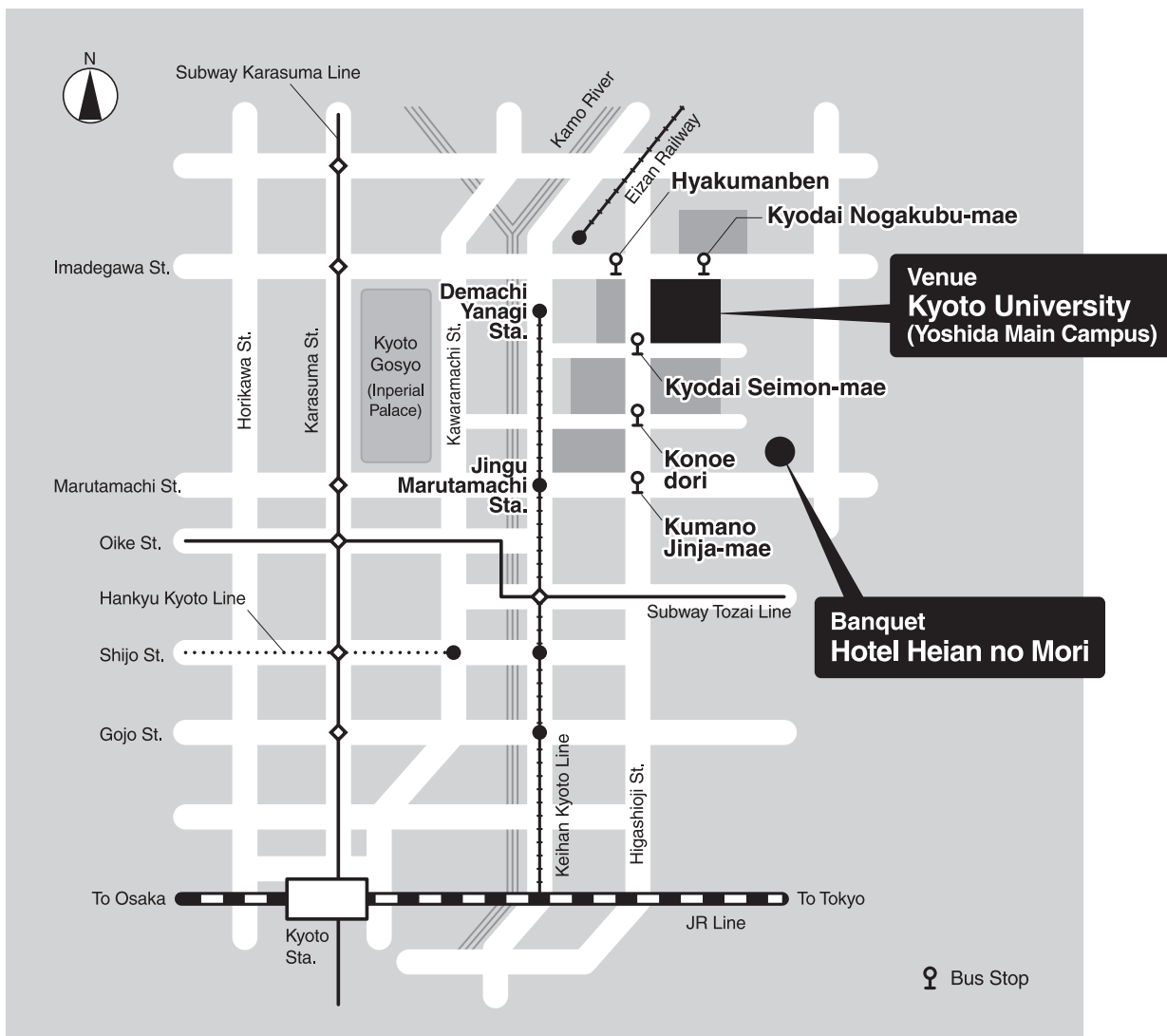
Kyoto is conveniently accessible via the Kansai International Airport (KIX). Direct flights from international cities and major hubs in Europe, North America and Asia land at KIX. From KIX to Kyoto, you may either take JR trains (Airport Express Haruka, ¥3,490 including the express ticket, 75 min, non-reserved seats available on site), airport busses (¥2,500, 85 min) to JR Kyoto Station, or use shared shuttle service directly to your hotel (¥3,500, 120-130 min, reservation required). For the reservation of the shuttle services, please visit the websites below.

MK Skygateshuttle: <http://www.mk-group.co.jp/english/shuttle/>

Yasaka Airport shuttle: <http://www.yasaka.jp/taxi/shuttle-e/>

## Access to Kyoto University

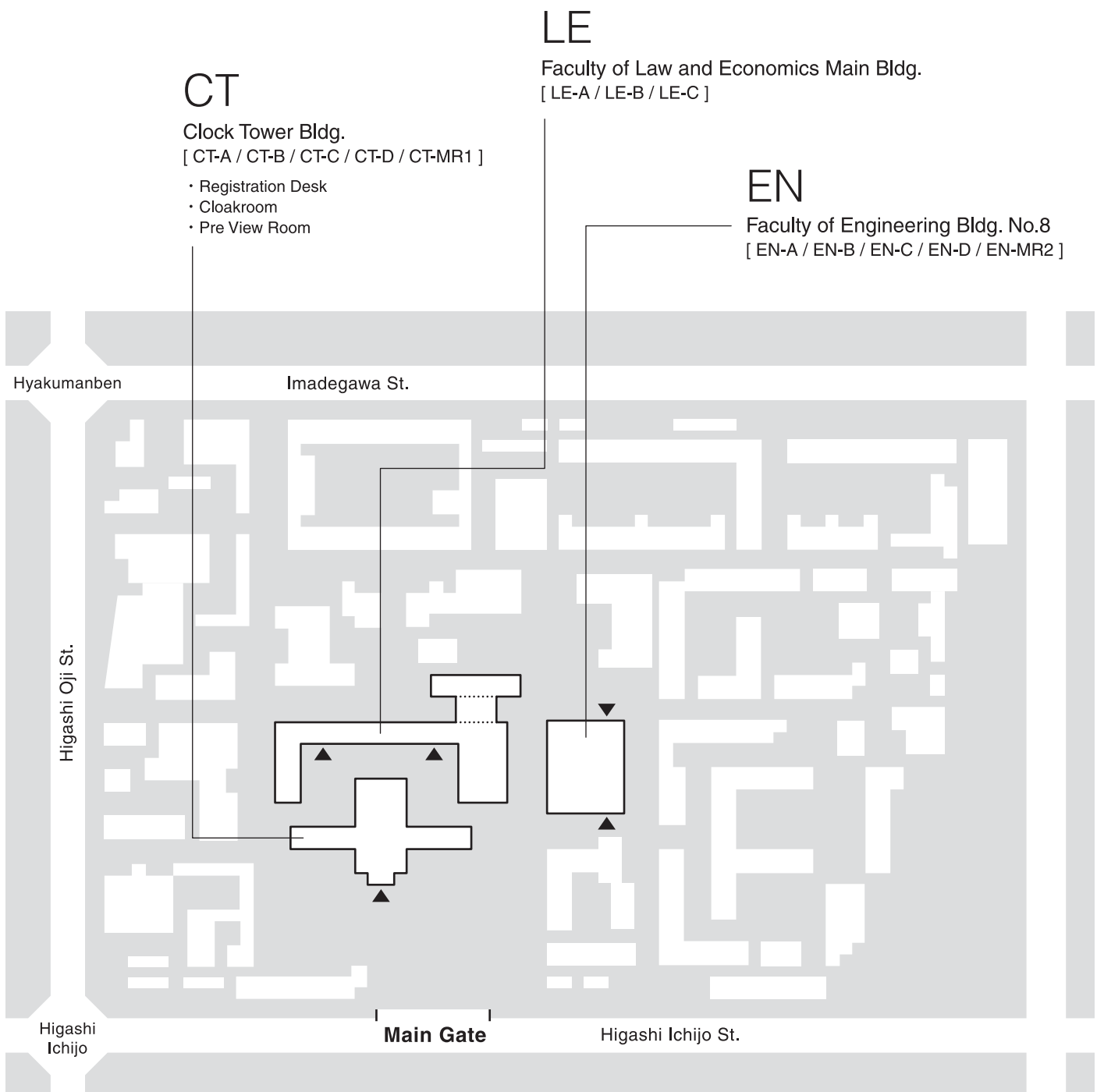
From JR Kyoto Station, you may take Kyoto City Bus (¥220) number 17 to Hyakumanben or number 206 to Kyodai Seimon-mae. It will take about 30 to 40 min depending on the traffic. If your hotel is close to Keihan Kyoto Line, take a train to Demachiyanaagi Station. Kyoto University is 10 to 15 min walk from Demachiyanaagi Station. If you take taxi from JR Kyoto Station to Kyoto University Clock Tower, it will cost approximately ¥2,000. Please tell driver to go to Kyoto University Clock Tower (or "Kyoto Daigaku Tokei-dai" in Japanese). Because Kyoto is a compact city, it may be a good idea to rent a bicycle during the congress.



# Floor Map

## Kyoto University (Yoshida Main Campus)

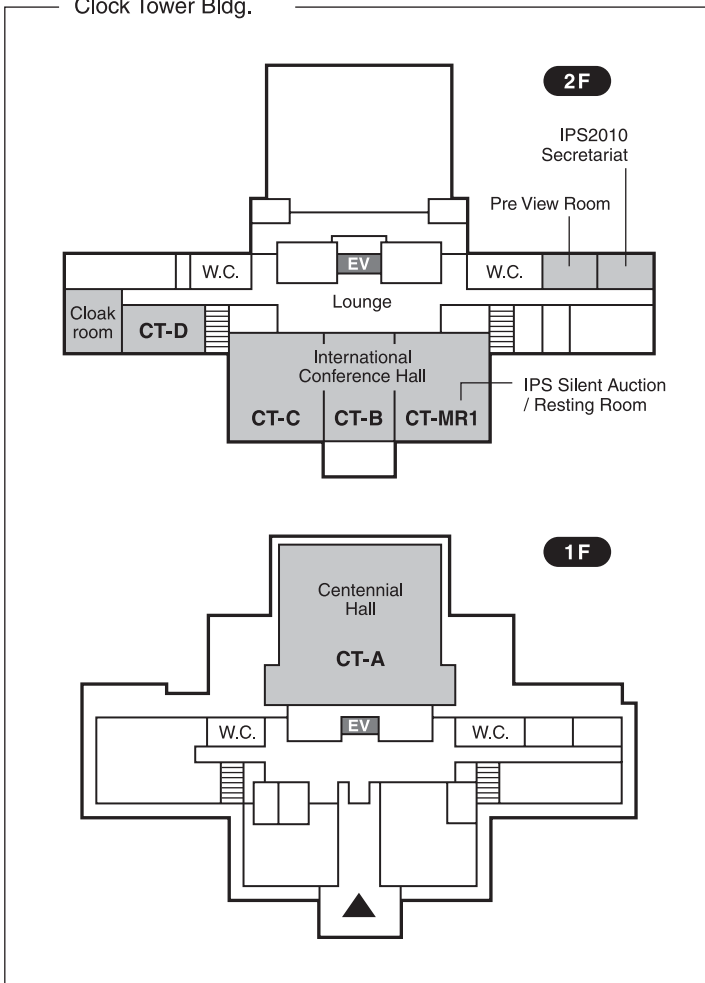
The congress uses three adjacent buildings, which are located at the center of Yoshida Main Campus of Kyoto University. The buildings are easy to find from the main gate of the campus. When lost, you can just ask people in the campus; "Where is Tokei-dai (Clock Tower) ."



▲ : Main Entrance

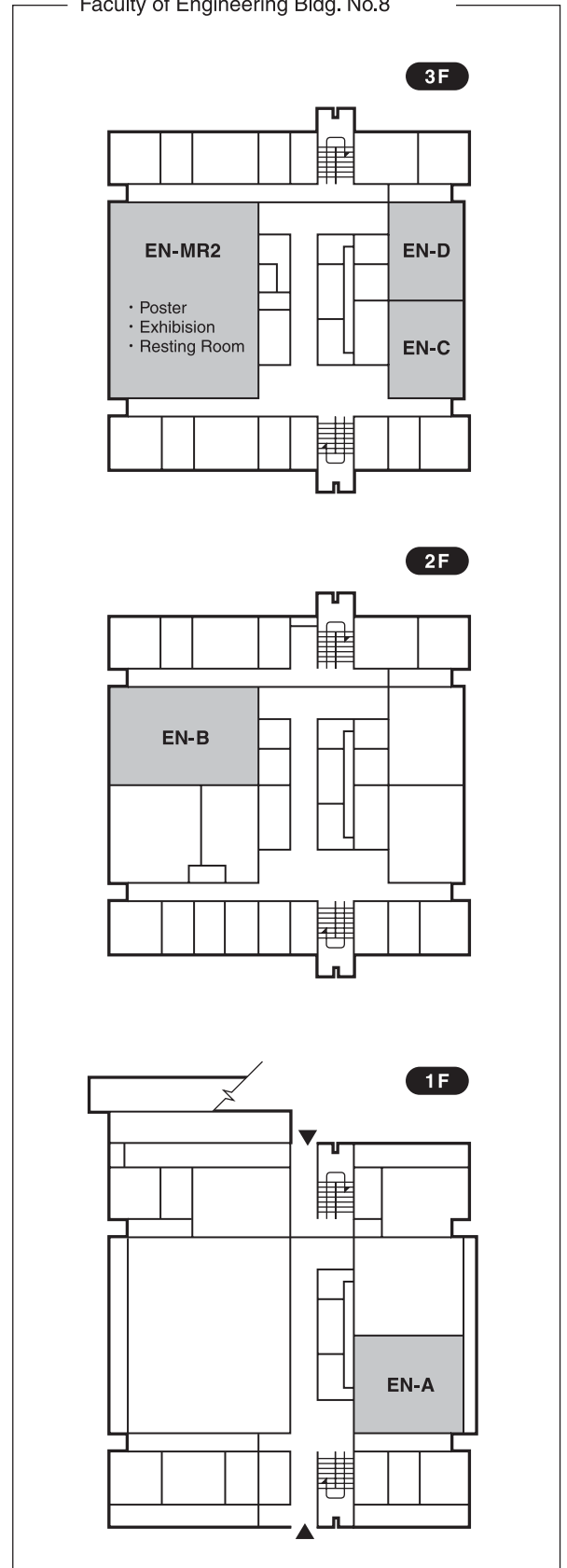
# CT

Clock Tower Bldg.



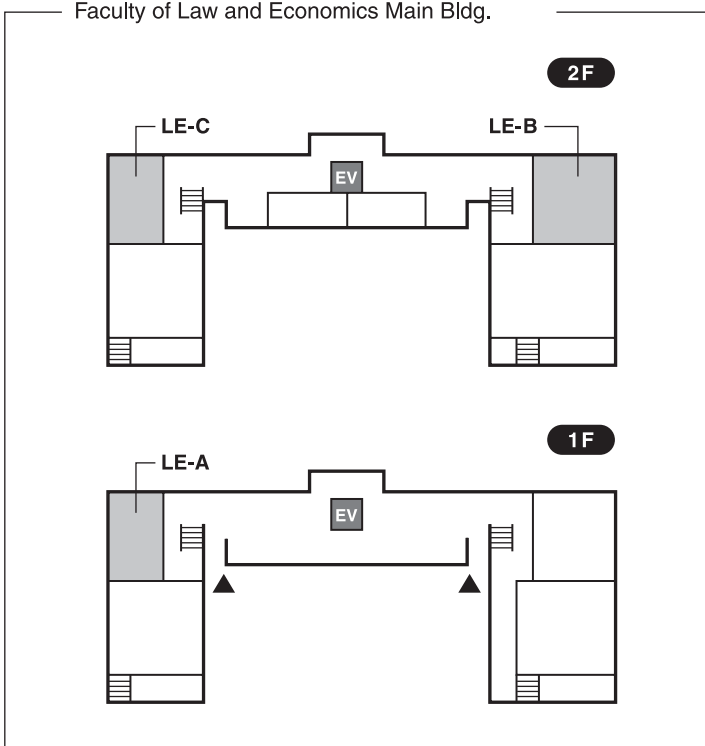
# EN

Faculty of Engineering Bldg. No.8



# LE

Faculty of Law and Economics Main Bldg.



# Congress Timetable

CT: Clock Tower Bldg. LE: Faculty of Law and Economics Main Bldg. EN: Faculty of Engineering Bldg. No.8

	12 Sep (Sun)	13 Sep (Mon)	14 Sep (Tue)	15 Sep (Wed)	16 Sep (Thu)	17 Sep (Fri)	18 Sep (Sat)
	<b>Registration</b> 13:00-20:00	<b>Registration</b> 9:15-17:00	<b>Registration</b> 9:15-17:00	<b>Registration</b> 9:15-17:00	<b>Registration</b> 9:15-17:00	<b>Registration</b> 9:15-17:00	
9:00							<b>Board meeting</b> 9:00-12:00
10:00		<b>Opening ceremony</b> 9:30-10:00 CT-A	<b>Plenary lecture</b> (G. Suwa) 9:30-10:30 CT-A	<b>Plenary lecture</b> (T. Furuichi) 9:30-10:30 CT-A	<b>Plenary lecture</b> (G. Rizzolatti) 9:30-10:30 CT-A	<b>Plenary lecture</b> (B. Thierry) 9:30-10:30 CT-A	
11:00		<b>Plenary lecture</b> (S. Hrdy) 10:00-11:00 CT-A	<b>Poster presentations</b> 10:40-12:40 EN-MR2	<b>Oral sessions</b> 10:40-12:40 CT-A~D EN-A~D LE-A~C	<b>Poster presentations</b> 10:40-12:40 EN-MR2	<b>Oral sessions</b> 10:40-12:40 CT-A~D EN-A~D LE-A~C	
12:00		<b>Oral sessions</b> 11:10-13:10 CT-A~D EN-A~D LE-A~C					
13:00	<b>Board meeting</b> 13:00-17:00	<b>Lunch</b> 13:10-14:00	<b>Lunch</b> 12:40-13:30	<b>Lunch</b> 12:40-13:30	<b>Lunch</b> 12:40-13:30	<b>Lunch</b> 12:40-13:30	
14:00		<b>Symposia</b> 14:00-16:30 CT-A~D EN-A~D LE-A~C	<b>Symposia</b> 13:30-16:00 CT-A~D EN-A~D LE-A~C	<b>Symposia</b> 13:30-16:00 CT-A~D EN-A~D LE-A~C	<b>Symposia</b> 13:30-16:00 CT-A~D EN-A~D LE-A~C	<b>Symposia</b> 13:30-16:00 CT-A~D EN-A~D LE-A~C	<b>Open symposium</b> 13:30-17:30 CT-A
15:00							
16:00			<b>Oral sessions</b> 16:15-19:35 CT-A~D EN-A~D LE-A~C	<b>Symposia</b> 16:15-18:45 CT-A~D EN-A~D LE-A~C	<b>Oral sessions</b> 16:15-19:15 CT-A~D EN-A~D LE-A~C	<b>Plenary lecture</b> (President) 16:15-16:45 CT-A	
17:00	<b>Reception</b> 17:00-20:00 CT / 2F	<b>Symposia</b> 16:45-19:15 CT-A~D EN-A~D LE-A~C				<b>General assembly</b> 16:45-18:45 CT-A	
18:00						<b>Closing Address</b>	
19:00				<b>Student affair workshop</b> 19:00-20:30 CT-B~C			
20:00					<b>Plenary lecture</b> (Lifetime Achievement Award winner) 19:30-20:30 CT-A	<b>Banquet</b> 19:15-21:15 Hotel Heian no Mori	
21:00							

# 13th September Monday

09:15-17:00	Registration
09:30-10:00	Opening ceremony
10:00-11:00	Plenary lecture MOTHERS AND OTHERS: WHAT DOES IT MEAN TO DEVELOP AND EVOLVE AS A COOPERATIVELY BREEDING APE? <i>S. B. Hrdy (University of California-Davis, United States)</i> [ 006 ]
11:10-13:10	Oral sessions
13:10-14:00	Lunch
14:00-16:30	Symposia
16:45-19:15	Symposia

## Concurrent Sessions Monday - summary

ROOM	11:10 - 13:10 (see pages p24-p25)	14:00 - 16:30 (see pages p26-p27)	16:45 - 19:15 (see pages p28-p29)
CT-A	<b>CT-A-13M Oral Session (Psychology)</b> Learning in social context 1 [ 007~012 ]	<b>CT-A-13A Symposium</b> SOCIAL NETWORK THEORY AND ANALYSIS: APPLICATIONS TO THE STUDY OF PRIMATE SOCIALITY [ 061-S / 062~067 ]	<b>CT-A-13E Symposium</b> FIFTY YEARS OF PRIMATE RESEARCH AT GOMBE NATIONAL PARK, TANZANIA [ 121-S / 122~131 ]
CT-B	<b>CT-B-13M Oral Session (Psychology)</b> Self and others [ 013~018 ]	<b>CT-B-13A Symposium</b> NEW METHODOLOGICAL APPROACHES TO CUMU- LATIVE CULTURE: HOW AND WHY DO HUMANS DIFFER FROM OTHER ANIMALS? [ 068-S / 069~074 ]	<b>CT-B-13E Symposium</b> THE JAPANESE MACAQUES OF ARASHIYAMA: DEMOGRAPHIC STUDIES, BEHAVIORAL RESEARCH, AND MANAGEMENT EFFORTS [ 132-S / 133~140 ]
CT-C	<b>CT-C-13M Oral Session (Psychology)</b> Communication [ 019~024 ]	<b>CT-C-13A Symposium</b> MIOCENE HOMINIDS: UNDERSTANDING THE EVOLUTIONARY HISTORY OF APES AND HUMANS [ 075-S / 076~081 / 141~147 ]	
CT-D			<b>CT-D-13E Workshop</b> SEEKING SOLUTIONS FOR MANAGING THE DEMANDS OF PERSONAL LIFE AND CAREER IN PRIMATOLOGY [ 148-W ]
EN-A	<b>EN-A-13M Oral Session (Ecology &amp; Behavior)</b> Feeding ecology 1 - Africa [ 025~030 ]	<b>EN-A-13A Symposium</b> COMPARATIVE GENOMIC STUDIES BETWEEN HUMANS AND NON-HUMAN PRIMATES: FROM EVOLUTIONARY RESEARCH TO BIOMEDICAL APPLICATION [ 083-S / 084~088 ]	<b>EN-A-13E Symposium</b> HOMO SAPIENS AND PAN TROGLODYTES: WHAT MAKES US DIFFERENT? [ 149-S / 150~155 ]
EN-B	<b>EN-B-13M Oral Session (Ecology &amp; Behavior)</b> Communication ecology [ 031~036 ]	<b>EN-B-13A Symposium</b> NON-HUMAN PRIMATE MODELS FOR HUMAN DISEASES [ 089-S / 090~095 ]	<b>EN-B-13E Symposium</b> METHODS TO MEASURE PHYSIOLOGICAL AND BEHAVIORAL ACTIVITIES IN NON-HUMAN PRIMATES [ 156-S / 157~160 ]
EN-C	<b>EN-C-13M Oral Session (Ecology &amp; Behavior)</b> Interspecies interaction [ 037~042 ]	<b>EN-C-13A Symposium</b> POST-GENOME BIOLOGY OF PRIMATES [ 096-S / 097~101 ]	<b>EN-C-13E Symposium</b> BIOLOGICAL CORRELATES OF PRIMATE PERSONALITY AND TEMPERAMENT [ 161-S / 162~166 ]
EN-D	<b>EN-D-13M Oral Session (Conservation)</b> New aspects on conservation [ 043~048 ]	<b>EN-D-13A Symposium</b> SEX HORMONES, COGNITION AND EMOTION IN PRIMATES: A LIFESPAN PERSPECTIVE [ 102-S / 103~107 ]	<b>EN-D-13E Symposium</b> OBJECT MANIPULATION AS A WINDOW ON THE PRIMATE MIND [ 167-S / 168~172 ]
LE-A	<b>LE-A-13M Oral Session (Morphology &amp; Phylogeny)</b> Aspects of dentition and cranial morphology [ 049~054 ]	<b>LE-A-13A Symposium</b> REVIEW OF HOOLOCK GIBBON CONSERVATION [ 108-S / 109~114 ]	<b>LE-A-13E Symposium</b> REVIEW OF NOMASCUS GIBBON CONSERVATION [ 173-S / 174~180 ]
LE-B	<b>LE-B-13M Oral Session (Veterinary Medicine)</b> Captive primate management and disease [ 055~060 ]	<b>LE-B-13A Symposium</b> REASON FOR HOPE: THE QUEST FOR COEXISTENCE AMONG AFRICAN HOMINIDS [ 115-S / 116~120 ]	<b>LE-B-13E Symposium</b> BALANCING THE COSTS AND BENEFITS OF PRIMATE TOURISM [ 181-S / 182~188 ]
LE-C			<b>LE-C-13E Workshop</b> THE LEMUR SYNDROME: WHERE ARE WE AND WHERE DO WE NEED TO GO? [ 189-W ]

# 14th September Tuesday

09:15-17:00	Registration
09:30-10:30	Plenary lecture THE SIGNIFICANCE OF ARDIPITHECUS RAMIDUS IN UNDERSTANDING HOMINID DIVERGENCE. <i>G. Suwa (The University Museum, The University of Tokyo, Japan)</i> [ 190 ]
10:40-12:40	Poster presentations
12:40-13:30	Lunch
13:30-16:00	Symposia
16:15-19:35	Oral sessions

## Concurrent Sessions Tuesday - summary

ROOM	13:30 - 16:00 (see pages p30-p31)	16:15 - 19:35 (see pages p32-p33)
CT-A	<b>CT-A-14A Symposium</b> ONTOGENY OF PLANT SELECTION RELATED TO NUTRITIONAL AND MEDICINAL PROPERTIES IN PRIMATES [ 191-S / 192~197 ]	<b>CT-A-14E Oral Session (Ecology &amp; Behavior)</b> Social organization [ 265~273 ]
CT-B	<b>CT-B-14A Symposium</b> PRIMATES IN ZOOS, MUSEUMS, LABORATORIES AND THE WILD: COMPARATIVE AND COMPLEMENTARY RESEARCH [ 198-S / 199~203 ]	<b>CT-B-14E Oral Session (Ecology &amp; Behavior)</b> Parental behavior [ 274~282 ]
CT-C	<b>CT-C-14A Symposium</b> LOOKING THROUGH THE PRIMATE EYES: RECENT ADVANCES IN THE GAZE BEHAVIOR IN HUMAN AND NONHUMAN PRIMATES FROM THE COMPARATIVE-COGNITIVE PERSPECTIVE [ 204-S / 205~211 ]	<b>CT-C-14E Oral Session (Ecology &amp; Behavior)</b> Self-medication and host-parasite ecology [ 283~292 ]
CT-D	<b>CT-D-14A Workshop</b> THE EXPANDING ROLE OF PRIMATE SANCTUARIES - GOING BEYOND RESCUE AND CARE [ 212-W ]	
EN-A	<b>EN-A-14A Symposium</b> DIVERSITY, DISTRIBUTION AND PRESENT STATUS OF NON-HUMAN PRIMATES IN ASIA [ 213-S / 214~222 ]	<b>EN-A-14E Oral Session (Morphology &amp; Phylogeny)</b> Locomotion & posture [ 293~297 ]
EN-B	<b>EN-B-14A Symposium</b> GREAT APE CONSERVATION IN THE FACE OF A DEVELOPING WORLD [ 223-S / 224~228 ]	<b>EN-B-14E Oral Session (Genomics &amp; Genetics)</b> Population differentiation [ 298~306 ]
EN-C	<b>EN-C-14A Symposium</b> RECENT ADVANCES IN BEHAVIORAL COMPARISONS BETWEEN WILD BONOBOS AND CHIMPANZEES [ 229-S / 230~236 ]	<b>EN-C-14E Oral Session (Psychology)</b> Caring for others [ 307~315 ]
EN-D	<b>EN-D-14A Symposium</b> ENERGETICS: MEASUREMENT AND INTERPRETATION [ 237-S / 238~245 ]	<b>EN-D-14E Oral Session (Psychology)</b> Reasoning & laterality [ 316~324 ]
LE-A	<b>LE-A-14A Symposium</b> ALTERNATIVE VIEWS ON THE ORIGIN AND EARLY EVOLUTION OF PRIMATES [ 246-S / 247~256 ]	<b>LE-A-14E Oral Session (Conservation)</b> Conservation of New World monkeys [ 325~332 ]
LE-B	<b>LE-B-14A Symposium</b> HABITAT FRAGMENTATION IN TIME AND SPACE: LESSONS TO LEARN ABOUT AND FROM PRIMATES [ 257-S / 258~263 ]	<b>LE-B-14E Oral Session (Conservation)</b> Conservation of Asian monkeys [ 333~340 ]
LE-C	<b>LE-C-14A Workshop</b> THE ADVANCEMENT OF COGNITIVE AND BEHAVIORAL RESEARCH IN ZOO SETTINGS [ 264-W ]	

# 15th September Wednesday

09:15-17:00	Registration
09:30-10:30	Plenary lecture LIFE HISTORY OF FEMALE BONOBOS AND THEIR CONTRIBUTION TO PEACEFUL NATURE OF THE SOCIETY <i>T. Furuichi (Primate Research Institute, Kyoto University, Japan)</i> [ 341 ]
10:40-12:40	Oral sessions
12:40-13:30	Lunch
13:30-16:00	Symposia
16:15-18:45	Symposia
19:00-20:30	Student affair workshop

## Concurrent Sessions Wednesday - summary

ROOM	10:40 - 12:40 (see pages p34-p35)	13:30 - 16:00 (see pages p36-p37)	16:15 - 18:45 (see pages p38-p39)
CT-A	<b>CT-A-15M Oral Session (Welfare)</b> Welfare concerns in animal transport and relocation [ 342~347 ]	<b>CT-A-15A Symposium</b> VARIATION AND EVOLUTION OF PRIMATE COLOR VISION REVEALED BY CROSS-DISCIPLINARY STUDIES [ 393-S / 394~399 / 466~471 ]	
CT-B	<b>CT-B-15M Oral Session (Morphology &amp; Phylogeny)</b> Morphology of lemurs and monkeys [ 348~352 ]	<b>CT-B-15A Symposium</b> HUMAN-MACAQUE INTERACTIONS: TRADITIONAL AND MODERN PERSPECTIVES ON COOPERATION AND CONFLICT [ 400-S / 401~407 ]	<b>CT-B-15E Symposium</b> JAPANESE MONKEYS AND THE JAPANESE PEOPLE: HISTORY AND ISSUES IN JAPANESE MONKEY CONSERVATION [ 472-S / 473~476 ]
CT-C	<b>CT-C-15M Oral Session (Veterinary Medicine)</b> Disease transmission in the wild and captivity [ 353~358 ]	<b>CT-C-15A Symposium</b> A NATIONAL BONOBO CONSERVATION STRATEGY: ARE WE READY FOR SOME SPATIAL MODELLING? [ 408-S / 409~414 ]	<b>CT-C-15E Symposium</b> PARENTAL INVESTMENTS AND DEMANDS OF INFANTS [ 477-S / 478~483 ]
CT-D		<b>CT-D-15A Workshop</b> WARMING WORLD: CAN GIBBON TACKLE CLIMATE CHANGE ? [ 415-W ]	<b>CT-D-15E Workshop</b> DEVELOPING A NATIONAL BONOBO CONSERVATION STRATEGY USING SPATIAL MODELS FOR ACTION PLANNING [ 484-W ]
EN-A	<b>EN-A-15M Oral Session (Conservation)</b> Conservation of prosimians [ 359~363 ]	<b>EN-A-15A Symposium</b> GREGARIOUS LEMURS OF SOUTHERN MADAGASCAR: ECOLOGY AND SOCIAL BEHAVIOR [ 416-S / 417~423 ]	<b>EN-A-15E Symposium</b> PRIMATE ARCHAEOLOGY: PALAEOANTHROPOLOGY MEETS PRIMATOLOGY 3 [ 485-S / 486~493 ]
EN-B	<b>EN-B-15M Oral Session (Ecology &amp; Behavior)</b> Feeding Ecology 2 - Asia [ 364~369 ]	<b>EN-B-15A Symposium</b> WHERE NEXT? GROUP COORDINATION AND DECISION-MAKING IN PRIMATES [ 424-S / 425~430 / 494~498 ]	
EN-C	<b>EN-C-15M Oral Session (Ecology &amp; Behavior)</b> Social organization and habitat use [ 370~374 ]	<b>EN-C-15A Symposium</b> BEHAVIOR AND INTELLIGENCE OF NEW-WORLD MONKEYS [ 431-S / 432~440 ]	<b>EN-C-15E Symposium</b> CAPUCHIN EVOLUTION: COMPARING BEHAVIOR, MORPHOLOGY & GENETICS ACROSS SPECIES [ 499-S / 500~506 ]
EN-D	<b>EN-D-15M Oral Session (Ecology &amp; Behavior)</b> Social affiliation and stress regulation [ 375~380 ]	<b>EN-D-15A Symposium</b> THE EVOLUTION OF GIBBONS: MOLECULAR GENETICS, MORPHOLOGY, BEHAVIOR, AND THE FOSSIL RECORD [ 441-S / 442~448 / 507~512 ]	
LE-A	<b>LE-A-15M Oral Session (Psychology)</b> Learning in social context 2 [ 381~386 ]	<b>LE-A-15A Symposium</b> EVOLUTION OF LATERALIZATION IN PRIMATES: CURRENT INSIGHTS FROM PROSIMIANS TO HUMANS [ 449-S / 450~455 ]	<b>LE-A-15E Symposium</b> COGNITION IN THE WILD: EXPLORING ANIMAL MINDS WITH OBSERVATIONAL EVIDENCE [ 513-S / 514~521 ]
LE-B	<b>LE-B-15M Oral Session (Psychology)</b> Affective processes [ 387~392 ]	<b>LE-B-15A Symposium</b> GREAT APE HEALTH: THREATS AND SOLUTIONS [ 456-S / 457~464 ]	<b>LE-B-15E Symposium</b> DO INVESTIGATIONS OF PRIMATE COGNITION PROMOTE PRIMATE WELFARE? [ 522-S / 523~530 ]
LE-C		<b>LE-C-15A Workshop</b> INNOVATIONS IN FIELD METHODS [ 465-W ]	<b>LE-C-15E Workshop</b> BEYOND COEXISTENCE: WORKSHOP ON THE BIOSYNERGY OF HUMANS AND OTHER PRIMATES - EXPLORING OUR BONDS IN CARE-GIVING, CONSERVATION AND RESEARCH [ 531-W ]

# 16th September Thursday

09:15-17:00	Registration
09:30-10:30	Plenary lecture THE MIRROR MECHANISM IN MONKEYS AND HUMANS <i>G. Rizzolatti (Dipartimento di Neuroscienze, University of Parma, Italy)</i> [ 532 ]
10:40-12:40	Poster presentations
12:40-13:30	Lunch
13:30-16:00	Symposia
16:15-19:15	Oral sessions
19:30-20:30	Plenary lecture (Lifetime Achievement Award Winner) CHILDREN AND PRIMATES: LEARNING TO LOVE NATURE <i>A. Jolly (Sussex University, UK.)</i> [ 673 ]

## Concurrent Sessions Thursday - summary

ROOM	13:30 - 16:00 (see pages p40-p41)	16:15 - 19:15 (see pages p42-p43)
CT-A	<b>CT-A-16A Symposium</b> PRIMATE EVOLUTION BY GENE LOSS  [ 533-S / 534 ~538 ]	<b>CT-A-16E Oral Session (Genomics &amp; Genetics)</b> Genetic variation  [ 598 ~605 ]
CT-B	<b>CT-B-16A Symposium</b> PRIMATE CYTOGENETICS AND CELL GENETICS  [ 539-S / 540 ~545 ]	<b>CT-B-16E Oral Session (Conservation)</b> Conservation of Asian apes  [ 606 ~613 ]
CT-C	<b>CT-C-16A Symposium</b> THE CHIMPANZEE BRAIN  [ 546-S / 547 ~552 ]	<b>CT-C-16E Oral Session (Conservation)</b> Direct human impacts on primates  [ 614 ~622 ]
CT-D	<b>CT-D-16A Workshop</b> STATUS REVIEW AND CONSERVATION ACTION PLANNING FOR HOOLOCK GIBBON  [ 553-W ]	
EN-A	<b>EN-A-16A Symposium</b> HOW TO STUDY PERSONALITY DIFFERENCES IN PRIMATES  [ 554-S / 555 ~561 ]	<b>EN-A-16E Oral Session (Psychology)</b> Social cognition & social interaction  [ 623 ~630 ]
EN-B		<b>EN-B-16E Oral Session (Psychology)</b> Phylogenetic and ontogenetic issues in behavior  [ 631 ~638 ]
EN-C	<b>EN-C-16A Symposium</b> PRIMATES IN FRAGMENTS  [ 562-S / 563 ~570 ]	<b>EN-C-16E Oral Session (Morphology &amp; Phylogeny)</b> Asian paleoprimatology  [ 639 ~645 ]
EN-D	<b>EN-D-16A Symposium</b> GREAT APES AND ECOSYSTEM DIVERSITY  [ 571-S / 572 ~579 ]	
LE-A	<b>LE-A-16A Symposium</b> ECOLOGY OF TEMPERATE PRIMATES  [ 580-S / 581 ~588 ]	<b>LE-A-16E Oral Session (Ecology &amp; Behavior)</b> Sociality  [ 646 ~654 ]
LE-B	<b>LE-B-16A Symposium</b> LANDSCAPES FOR TOOL USE  [ 589-S / 590 ~596 ]	<b>LE-B-16E Oral Session (Ecology &amp; Behavior)</b> Ranging behavior  [ 655 ~663 ]
LE-C	<b>LE-C-16A Workshop</b> THE WORLD'S 25 MOST ENDANGERED PRIMATES 2010-2012  [ 597-W ]	<b>LE-C-16E Oral Session (Ecology &amp; Behavior)</b> Cognitive ecology  [ 664 ~672 ]



# 17th September Friday

09:15-17:00	Registration
09:30-10:30	Plenary lecture EVOLUTIONARY TRANSFORMATION IN PRIMATE SOCIETIES: THE MACAQUE MODEL <i>B. Thierry (Department Ecology, Physiology &amp; Ethology, IPHC, CNRS, University of Strasbourg, France) [ 674 ]</i>
10:40-12:40	Oral sessions
12:40-13:30	Lunch
13:30-16:00	Symposia
16:15-16:45	Plenary lecture (President) QUEST FOR COEXISTENCE WITH NONHUMAN PRIMATES <i>J. Yamagiwa (President of IPS, Kyoto University, Japan) [ 787 ]</i>
16:45-18:45	General assembly Closing Address

## Concurrent Sessions Friday - summary

ROOM	10:40 - 12:40 (see pages p44-p45)	13:30 - 16:00 (see pages p46-p47)
CT-A	<b>CT-A-17M Oral Session (Morphology &amp; Phylogeny)</b> Evolution & theory [ 675~679 ]	<b>CT-A-17A Symposium</b> RECIPROCITY IN GREAT APES [ 721-S / 722~727 ]
CT-B	<b>CT-B-17M Oral Session (Psychology)</b> Learning, perception & concepts [ 680~685 ]	<b>CT-B-17A Symposium</b> MULTI-LEVEL SOCIETIES IN PRIMATES [ 728-S / 729~735 ]
CT-C	<b>CT-C-17M Oral Session (Psychology)</b> Use of social cues [ 686~691 ]	<b>CT-C-17A Symposium</b> FROM RANDOM WALKS TO TRAVEL ROUTES: UNDERSTANDING PATTERNS OF PRIMATE MOVEMENT AND SPACE-USE [ 736-S / 737~745 ]
CT-D		<b>CT-D-17A Workshop</b> STATUS REVIEW AND CONSERVATION ACTION PLANNING FOR NOMASCUS GIBBONS [ 746-W ]
EN-A	<b>EN-A-17M Oral Session (Ecology &amp; Behavior)</b> Feeding ecology 3 - Asia & America [ 692~697 ]	<b>EN-A-17A Symposium</b> COPING WITH RESOURCE SCARCITY: DIVERSITY IN PRIMATE ADAPTATIONS [ 747-S / 748~757 ]
EN-B	<b>EN-B-17M Oral Session (Ecology &amp; Behavior)</b> Reproductive behavior and physiology [ 698~702 ]	<b>EN-B-17A Symposium</b> HOW NONHUMAN GREAT APES RESPOND TO ANTHROPOGENIC CONTEXTS [ 758-S / 759~765 ]
EN-C	<b>EN-C-17M Oral Session (Ecology &amp; Behavior)</b> Primates and human landscape [ 703~708 ]	<b>EN-C-17A Symposium</b> LANDSCAPE GENETICS IN PRIMATES: NEW METHODS AND APPLICATIONS [ 766-S / 767~773 ]
EN-D	<b>EN-D-17M Oral Session (Conservation)</b> Conservation of African great apes [ 709~714 ]	<b>EN-D-17A Symposium</b> ACOUSTIC VARIABILITY IN NONHUMAN PRIMATES: DETERMINANTS AND CONTROLS [ 774-S / 775~779 ]
LE-A	<b>LE-A-17M Oral Session (Welfare)</b> Welfare issues in zoos and research institutions [ 715~720 ]	<b>LE-A-17A Workshop</b> NEW APPROACHES IN THE STUDY OF GREAT APE PSYCHOLOGY AND WELL-BEING: THEORY, METHODS, AND APPLICATION [ 780-W ]
LE-B		<b>LE-B-17A Symposium</b> PRIMATE MORPHOLOGY, METABOLISM, AND BRAIN FROM AN EVOLUTION STANDPOINT [ 781-S / 782~786 ]
LE-C		

# Plenary Lectures

## Sarah Blaffer Hrdy (13 Sep. 10:00-11:00)

Sarah Blaffer Hrdy is professor emerita at the University of California-Davis and a member of the National Academy of Sciences, the American Academy of Arts and Sciences and the California Academy of Sciences. Her 1977 book *The Langurs of Abu: Female and male strategies of reproduction* was the first sociobiological study of wild primates from the perspective of both sexes. In subsequent work she expanded her focus to consider parental investment strategies across species, including humans, and in *Mother Nature*, sought to combine comparative and evolutionary with historical perspectives. Her current research focuses on the psychological and emotional implications of humankind's deep history of cooperative breeding.



Photo: S. Bassouls.

## Gen Suwa (14 Sep. 9:30-10:30)

Gen Suwa is Professor at the University Museum, the University of Tokyo. His research focuses on Miocene to Pleistocene hominid evolution. He has research experience with a wide range of hominid fossils, including *Ardipithecus ramidus*, and has conducted micro-ct based analysis of early hominid and modern/fossil ape skulls/teeth. He currently coordinates field work at the 10 Ma Chororapithecus fossil ape site.



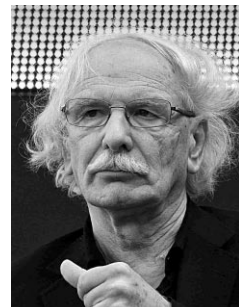
## Takeshi Furuichi (15 Sep. 9:30-10:30)

Professor Takeshi Furuichi is currently head of the Department of Ecology and Social Behavior at the Primate Research Institute of Kyoto University. He is known for his 27-years research on the wild bonobos at Wamba, especially focusing on their sexuality and the life history of females. He is also studying the eastern chimpanzees of the Kalinzu Forest for 14 years, thus he is probably one of the few people who knows the true nature of both bonobos and chimpanzees in the wild.



## Giacomo Rizzolatti (16 Sep. 9:30-10:30)

Giacomo Rizzolatti is Professor of Physiology and Director of the Department of Neuroscience at the University of Parma. He is the discoverer of the "mirror" mechanism. His recent and current studies have focused mostly on the role of the mirror mechanism in action and intention understanding in both humans and in non-human primates. His interest recently also included the neural basis of autism.



## Bernard Thierry (17 Sep. 9:30-10:30)

Bernard Thierry is Research Director at the Department Ecology, Physiology & Ethology (IPHC), CNRS, University of Strasbourg. He has conducted comparative studies on social relations in macaques. His main research interests have involved investigating how internal constraints shape primate societies by limiting them to a subset of possible outcomes. His current priority is to establish a new field station for the study of animals in France.



# IPS Lifetime Achievement Award Winner



**Alison Jolly**

Sussex University, UK.

Photo: Cyril Ruoso

The IPS Lifetime Achievement Award is presented every two years, given to a member of IPS for outstanding career contributions to research, conservation, education, and/or captive care and breeding of nonhuman primates, with attention to efforts with enduring international scope. The winner of the 2010 award is Professor Alison Jolly.

Professor Jolly is known best as the pioneering conservationist and primatologist in the world. She began studying lemur behavior at Berenty in 1963. She has focused on demography, ranging, and social behavior of ring-tailed lemurs. Her notable discoveries included the social structure and relations characterized by female dominance over male, which is unique to diurnal primates, and territorial behavior using scent marking. She produced many scientific papers and books (*Lemur Behavior: A Madagascar Field Study*, 1996; *The Evolution of Primate Behavior*, 1972; *Play: Its Role in Development and Evolution*, 1976; *Lucy's Legacy: Sex and Intelligence in Human Evolution*, 1999), which disseminate knowledge about primates in general, and lemurs in particular. Her inspirational insights into the social behaviors of ringtail lemurs have helped to establish her 40+-year study of their behavior as one of the longest and most detailed and interesting datasets on a nonhuman primate species in the wild.

She has devoted her life in conservation of primates in the world. She promoted ecotourism in Berenty Reserve from the early stage of her study for conservation of lemurs, and produced many books for conservation and education (*A World like Our Own: Man and Nature in Madagascar*, 1980; *Madagascar, Key Environmental Series*, 1984; *Ako the Aye-Aye*, 2005). Because of her long term commitments and interest in Madagascar conservation, she is always solicited by Conservation International, World Wildlife Fund, Durrell Wildlife Conservation Trust. She is an active member of the GERP (*Groupe d'Etude et de Recherche sur les Primates de Madagascar*), the Malagasy Primate Group. Based on these contributions, she received a recognition title (Chevalier de l'Ordre National) from the Malagasy government.

Education is one of the main activities that she never stop to discuss as she found out that the only chance to save the endangered lemurs of Madagascar is to provide tools in which the Malagasy children can learn and love what exist in their backyards. She gave always a presentation on Lemur conservation and education in Madagascar at each single international conference she attended. For her, it was a real battle, but she never gave up. Through the Ecole Normale Superieure at the University of Antananarivo in Madagascar, she has supervised over 50 Master level students. Fundamentally, by supporting education for upcoming Malagasy primatologists and individuals in other habitat countries with endemic endangered and rare primate species, she has helped to better ensure the survival of these iconic species and their habitats. And in doing so, her significant compassion for others is also expressed. She has also been a Professor of Biology in a number of universities (Sussex, Princeton, and Rockefeller) where she has inspired students and colleagues alike. She continues to work towards educational efforts in combination with conservation measures.

Professor Alison Jolly served as President of the International Primatological Society between 1992 and 1996, and continues to strengthen primatology in her current achievements to universities in US and UK. It is my great pleasure and honor to present this award to Professor Alison Jolly. Congratulations!

Juichi Yamagiwa  
President of International Primatological Society

# Pre-Congress Symposium and Workshop

## Pre-congress Symposium and Workshop in Inuyama

### Quest for Coexistence with Non-human Primates

- Date: 6-10 September, 2010
- Venue: Inuyama International Sightseeing Center (Freude), Inuyama, Aichi (6-7 Sept)  
Primate Research Institute (PRI), Kyoto University, Inuyama, Aichi (8-10 Sept)  
Japan Monkey Centre (JMC), Inuyama, Aichi (8-9 Sept)
- Sponsors: IPS2010, the 23rd Congress of the International Primatological Society (Kyoto)  
Primate Research Institute, Kyoto University (Inuyama)  
Japan Monkey Centre (Inuyama)
- Supporters: Primate Society of Japan  
Inuyama City  
The Little World, Museum of Man (Inuyama)

A pre-congress symposium and workshop entitled "Quest for Coexistence with Non-human Primates" will be held in Inuyama city, Aichi Prefecture, on 6-10 September, 2010. It is organized by the Committee of Pre-congress Workshops, IPS2010. It is also a part of ASIAN-HOPE program (Exchange Program for East Asian Young Researchers) of Primate Research Institute, Kyoto University, financially sponsored by JSPS (Japan Society for the Promotion of Science). The aim of this academic meeting is to exchange our knowledge and discuss issues for conservation and management of non-human primates. This program consists of symposium (6-7 September), workshop (8-9 September) and facility visit (10 September). The symposium is an open symposium and includes five lectures (see abstract below) and poster sessions. The workshop and facility visit are closed program for training of ASIAN-HOPE invitees.

Language: English

### Schedule

#### ■ 6 Sep. (Mon): Pre-congress symposium (at Freude, Open symposium, Free of charge)

- 09:30 - 10:00 Registration
- 10:00 - 10:30 Opening remarks: Tetsuro Matsuzawa
- 10:30 - 11:30 Lecture 1: "Participative land-use planning for bonobo conservation in the Maringa-Lopori-Wamba landscape, Democratic Republic of Congo (DRC)" by Janet Nackoney (University of Maryland)
- 11:30 - 13:00 Poster session 1
- 13:00 - 14:00 Lunch
- 14:00 - 15:00 Lecture 2: "Field techniques for health monitoring and the study of disease transmission in primates: some recent examples of their use in the wild" by Michael A. Huffman (Primate Research Institute)
- 15:00 - 17:30 Poster session 2
- 18:00 - Reception (at Glanz, B1F, Freude, Charged)

#### ■ 7 Sep. (Tue): Pre-congress symposium (at Freude, Open symposium, Free of Charge)

- 09:00 - 09:30 Registration
- 09:30 - 10:30 Lecture 3: "Conservation of primates in Vietnam" by Tilo Nadler (Endangered Primate Rescue Center, Vietnam)
- 10:30 - 12:30 Poster session 3
- 12:30 - 13:30 Lunch
- 13:30 - 14:30 Lecture 4: "Hybridization in primates" by Christian Roos (German Primate Center)
- 14:30 - 16:00 Poster session 4
- 16:00 - 17:00 Lecture 5: "Wide variety in the way of population management of primates" by Kunio Watanabe (Primate Research Institute)
- 17:00 - 17:30 General Discussion

■ **8-9 Sep. (Wed-Thu):** Pre-congress workshop (at PRI, JMC, Closed Courses for ASIAN-HOPE invitees)

- Practice Course 1: "Data collection and analysis using GPS and GIS" by Janet Nackoney (University of Maryland) and Chie Hashimoto (Primate Research Institute)
- Practice Course 2: "Inspection of animal, measurements and sampling" by Juri Suzuki, Yuzuru Hamada, Yutaka Kunimatsu and Eishi Hirasaki (Primate Research Institute)
- Practice Course 3: "Methods in genetic monitoring" by Yoshi Kawamoto and Hiroyuki Tanaka (Primate Research Institute)
- Practice Course 4: "Numerical methods in population conservation and management" by Shuichi Matsumura (Gifu University)
- Practice Course 5: "Methods in zoological museum managements" by Staff of Japan Monkey Centre

■ **10 Sep. (Fri):** Facility visit to PRI and The Little World (Closed Course for ASIAN-HOPE invitees)

Pre-congress Symposium and Workshop in Kyoto

**IPS Pre-Congress Training Program (PCTP)**  
**- A workshop conducted by the IPS Conservation Committee**

Date: 8-12 September, 2010  
 Venue: Arashiyama Monkey Park "Iwatayama"  
 Bldg. No.2, Faculty of Science, North Campus of Kyoto University

The PCTP provides an intensive training program for 14 specially selected participants from primate habitat countries around the world. Topics of concern include habitat destruction and fragmentation, ecotourism, crop-raiding and local human response, disease transmission, and community involvement in solutions.

Language: English

**Schedule**

Opening reception on the evening of the 8th, full days on 9, 10, 11, and morning of 12.

# Open Symposium

## Origin of Violence and its Solution

Date & Time: 13:30-17:30, 18th September

Venue: Centennial Hall of the Clock Tower

Sponsors: Primate Society of Japan, Organizing Committee of the 23rd Congress of International Primatological Society, Science Council of Japan

Supporters: Kyoto University, Board of Education of Kyoto Prefecture, Board of Education of Kyoto City

Various violence, such as bullying in schools, domestic violence and war, are widespread among the present human society. Infant killing and violence between groups have been also reported in the societies of non-human primates. How Violence in humans has evolved? Are there any common or different points of violence between humans and non-human primates? How we coexist peacefully to suppress violence? Primate Society of Japan has organized several symposia aiming cross-discussion from a wide range of fields to reveal the characteristics of violence and a quest for peace of humans from the view point of evolution. From such attempts, many mechanisms for suppressing aggression and preventing violence from escalation have been found in non-human primates, as well as in humans. This symposium was organized to discuss origins of violence and its solutions based on the results of previous symposiums. One of the aims of this symposium is to consider the origin of violence in humans and to investigate the solutions of the violence from discussions among primatology, evolutionary psychology, cultural anthropology, and science of religions.

Language: Japanese and English, with simultaneous translation

## Time table

- 13:30-13:40: An opening address  
Nobuyoshi Esaki (Trustee of Kyoto University)
- 13:40-14:00: An introductory remark  
Juichi Yamagiwa (President of International Primatological Society)
- 14:00-15:00: Chimpanzees and the origins of human warfare  
Richard Wrangham (Professor of Harvard University)
- 15:00-15:20: Coffee break
- 15:20-15:50: Society of hunter-gatherers and their violence  
Mitsuo Ichikawa (Professor Emeritus of Kyoto University)
- 15:50-16:20: Religion and Violence  
Katsuhiro Kohara (Professor of Doshisha University)
- 16:30-17:30: Discussion  
Discussant Yuki Konagaya (Professor of National Museum of Ethnology)  
Shinsho Kajita (Head monk of Honen-in Temple)  
Toshikazu Hasegawa (Professor of University of the Tokyo)  
Suehisa Kuroda (Professor of the University of Shiga Prefecture)

# Student Affair Workshop

Student affairs workshop will be held at 19:00-20:30 on 15th September at the International Conference Hall of the Clock Tower. This workshop is organized to provide students an opportunity to network and meet professional primatologists. Young scientists, graduate and undergraduate students, and high school students will talk on various topics with several professionals in each field of primatology.

# Scientific Program

# 13th

## September

Monday

11:10 - 13:10

### Oral Session

\*20min per paper

CT-A	CT-B	CT-C	CT-D	EN-A
<p><b>CT-A-13M</b> Psychology <b>LEARNING IN SOCIAL CONTEXT 1</b> Chairs: C. Rudolf Von Rohr &amp; M. Dindo</p>	<p><b>CT-B-13M</b> Psychology <b>SELF AND OTHERS</b> Chairs: T. Kaneko &amp; T. Ogura</p>	<p><b>CT-C-13M</b> Psychology <b>COMMUNICATION</b> Chairs: R. Vercauteren Drubbel &amp; D. M. Kitchen</p>		<p><b>EN-A-13M</b> Ecology &amp; Behavior <b>FEEDING ECOLOGY 1 - AFRICA</b> Chairs: C.A. Phillips &amp; M.A. Huffman</p>
<p><b>007</b> 11:10-11:30 THE USE OF FIELD EXPERIMENTS TO STUDY CULTURE IN WILD CHIMPANZEES *T. Gruber, K. Zuberbühler</p>	<p><b>013</b> 11:10-11:30 REVIEW ON SELF-CONTROL STUDIES IN TWO LEMUR SPECIES: THE BROWN AND THE BLACK LEMUR (<i>EULEMUR FULVUS</i> AND <i>E. MACACO</i>) *E. Genty, J.J. Roeder</p>	<p><b>019</b> 11:10-11:30 FOUNDING RESEARCHES ON ACOUSTIC COMMUNICATION IN PRIMATES *R. Vercauteren Drubbel, J-P. Gautier</p>		<p><b>025</b> 11:10-11:30 COMPARATIVE FEEDING ECOLOGY OF TWO SYMPATRIC MOUSE LEMURS (<i>MICROCEBUS</i> SPP.) IN NORTHWESTERN MADAGASCAR *S.I.K. Thorén, U. Radespiel</p>
<p><b>008</b> 11:30-11:50 DO CHIMPANZEES RELY ON PERSONAL OR SOCIAL INFORMATION WHEN FACED WITH AN EXTRACTIVE FORAGING TASK? *L.M. Hopper, S.P. Lambeth, S.J. Schapiro, R. Kendal</p>	<p><b>014</b> 11:30-11:50 RELATIVE CONTRIBUTIONS OF KINEMATICAL INFORMATION AND GOAL REPRESENTATION FOR THE PERCEPTION OF SELF-AGENCY IN CHIMPANZEES AND HUMANS *T. Kaneko, M. Tomonaga</p>	<p><b>020</b> 11:30-11:50 VOCAL COMMUNICATION IN <i>CALLICEBUS</i>: NEW PERSPECTIVES FOR THE STUDY OF HUMAN LANGUAGE EVOLUTION *C. Cäsar, R. Young, R. Byrne, K. Zuberbühler</p>		<p><b>026</b> 11:30-11:50 FOREST EDGE EFFECTS ON THE BEHAVIORAL ECOLOGY OF CERCOPITHECUS LHOESTI IN BWINDI IMPENETRABLE FOREST, UGANDA *T. Ukizintambara, B.A. Kaplin</p>
<p><b>009</b> 11:50-12:10 THE EVOLUTIONARY ROOTS OF HUMAN SOCIAL NORMS: AN EXPERIMENTAL STUDY *C. Rudolf von Rohr, J.M. Burkart, C.P. van Schaik</p>	<p><b>015</b> 11:50-12:10 NON-HUMAN PRIMATES TAKE THEIR CHANCE IN A FOOD-GAMBLING GAME *M. Pelé, M.H. Broihanne, B. Thierry, J. Call, V. Dufour</p>	<p><b>021</b> 11:50-12:10 ROLE OF VOCAL TRACT MORPHOLOGY IN DETERMINING SPECIES-SPECIFIC VOCAL PATTERNS *M. Gamba, C. Giacoma</p>		<p><b>027</b> 11:50-12:10 DIVERSITY OF FIGS (GENUS <i>FICUS</i>, FAMILY MORACEAE) IN KALINZU FOREST IN UGANDA. IMPLICATIONS FOR PRIMATE CONSERVATION *P. Ipulet, H. Muhanguzi</p>
<p><b>010</b> 12:10-12:30 MAJORITY INFLUENCE DURING SOCIAL LEARNING IN CHIMPANZEES AND HUMANS *D. Haun, Y. Rekers, M. Tomasello</p>	<p><b>016</b> 12:10-12:30 DO ORANGUTANS KNOW WHEN THEY DO NOT REMEMBER? *C. Suda-King, F. Subiaul</p>	<p><b>022</b> 12:10-12:30 ON THE SIGNIFICANCE OF THE TCHI-FAK: A REFLECTION ON SPECIES-RECOGNITION IN LOUD CALLS OF SIFAKAS (<i>PROPTHECUS</i> SPP.) *C. Fichtel</p>		<p><b>028</b> 12:10-12:30 FIG (<i>FICUS</i>, MORACEAE) PHENOLOGY AND FOOD AVAILABILITY TO PRIMATES IN KALINZU FOREST IN UGANDA *H. Muhanguzi, P. Ipulet</p>
<p><b>011</b> 12:30-12:50 Canceled</p>	<p><b>017</b> 12:30-12:50 CONTRAFREELoading WITH MOVIE STIMULI IN JAPANESE MACAQUES *T. Ogura</p>	<p><b>023</b> 12:30-12:50 ACOUSTIC VARIATION AMONG HYBRID AND PUREBRED BLACK AND MANTLED HOWLER MONKEYS (<i>ALOUATTA</i> SPP.) WITHIN AND OUTSIDE A MEXICAN HYBRID ZONE *D.M. Kitchen, T.J. Bergman, L. Cortes-Ortiz</p>		<p><b>029</b> 12:30-12:50 SEASONAL VARIATION IN CHIMPANZEE DIET AND HABITAT USE IN A SMALL TROPICAL MONTANE FOREST *R.L. Chancellor, A.S. Rundus, S. Nyandwi</p>
<p><b>012</b> 12:50-13:10 SOCIAL LEARNING AND CONFORMITY IN ORANGUTANS (<i>PONGO PYGMAEUS</i> x <i>ABELII</i>) *M. Dindo, F. Subiaul</p>	<p><b>018</b> 12:50-13:10 Canceled</p>	<p><b>024</b> 12:50-13:10 VOCAL AND NON-VOCAL ANTI-PREDATOR BEHAVIOR OF WEST AFRICAN GREEN MONKEYS, <i>CHLOROCEBUS SABAEUS</i>, IN SENEGAL *U. Kalbitzer, T. Price, J. Fischer</p>		<p><b>030</b> 12:50-13:10 PHYTOLITHIC ANALYSIS - A NOVEL APPROACH FOR ASSESSING CHIMPANZEE DIET *C.A. Phillips, C. Lancelotti</p>



EN-B	EN-C	EN-D	LE-A	LE-B	LE-C
<b>EN-B-13M</b> Ecology & Behavior <b>COMMUNICATION ECOLOGY</b> <i>Chairs: J.M. Setchell &amp; S.K. Papworth</i>	<b>EN-C-13M</b> Ecology & Behavior <b>INTERSPECIES INTERACTION</b> <i>Chairs: B.Z. Freed &amp; J.C.M Sha</i>	<b>EN-D-13M</b> Conservation <b>NEW ASPECTS ON CONSERVATION</b> <i>Chairs: D.A. Hill &amp; S.G. Costa</i>	<b>LE-A-13M</b> Morphology & Phylogeny <b>ASPECTS OF DENTITION AND CRANIAL MORPHOLOGY</b> <i>Chair: R. Kono</i>	<b>LE-B-13M</b> Veterinary Medicine <b>CAPTIVE PRIMATE MANAGEMENT AND DISEASE</b> <i>Chairs: M.S. Ratterree &amp; J. Suzuki</i>	
<b>031</b> 11:10-11:30 AGE AND SEX DIFFERENCE IN THE RATE OF CONTACT CALLS IN JAPANESE MACAQUES <i>*M. Suzuki, H. Sugiura</i>	<b>037</b> 11:10-11:30 MACAQUES OF A FEATHER? DO MIXED SPECIES ASSOCIATIONS INDUCE BEHAVIOURAL CHANGES IN ONE OF THE PARTICIPATING MACAQUE SPECIES? <i>*R. Kumar, A. Sinha</i>	<b>043</b> 11:10-11:30 FIELD STUDIES OF BATS AND PRIMATES: THE DIFFERENTIAL GROWTH OF TWO DISCIPLINES AND ITS IMPLICATIONS FOR CONSERVATION. <i>*D.A. Hill</i>	<b>049</b> 11:10-11:30 SHAPE QUANTIFICATION OF SULAWESI MACAQUES ISCHIAL CALLOSITIES <i>*B. Julianti, B. Suryobroto, D. Perwitasari-Farajallah</i>	<b>055</b> 11:10-11:30 THE ESTABLISHMENT OF A SPECIFIC PATHOGEN FREE COLONY OF RHESUS MONKEYS AT TULANE NATIONAL PRIMATE RESEARCH CENTER <i>*M.S. Ratterree</i>	
<b>032</b> 11:30-11:50 VOCAL EMISSION AT FISSION-FUSION EVENTS OF SPIDER MONKEYS IN COMPARISON WITH JAPANESE MACAQUES. <i>*Y. Shimooka, H. Sugiura, A. Link, A. Di Fiore</i>	<b>038</b> 11:30-11:50 HABITAT SELECTION, SPECIES INTERACTIONS, AND CONSERVATION OF <i>EULEMUR CORONATUS</i> AND <i>EULEMUR SANFORDI</i> IN NORTHERN MADAGASCAR SACRED FORESTS <i>*B.Z. Freed</i>	<b>044</b> 11:30-11:50 A GENETIC PORTRAIT OF THE CHIMPANZEE: UNDERSTANDING THE POPULATION STRUCTURE <i>*C. Hvilson, F. Carlsen, B. Sallé, H.S. Siegmund</i>	<b>050</b> 11:30-11:50 DENTAL SEXUAL DIMORPHISM IN LOCAL POPULATIONS OF <i>MACACA FUSCATA</i> <i>*A. Yamamoto, Y. Kunimatsu</i>	<b>056</b> 11:30-11:50 BLEEDING PRIMATES WITHOUT NEEDLE STRESS-FREE BLOOD-SAMPLING THROUGH BLOOD-SUCKING BUGS <i>*R. Thomsen, C. Voigt</i>	
<b>033</b> 11:50-12:10 GIBBON SONG AND INDIVIDUAL IDENTIFICATION <i>*G.Z. Sun, B. Huang, Z.H. Guan, X.L. Jiang</i>	<b>039</b> 11:50-12:10 THE USE OF TIME AND SPACE BY TWO SYMPATRIC COLOBINES, <i>SYMIAS CONCOLOR</i> AND <i>PRESBYTIS POTENZIANI</i> ON THE MENTAWAI ISLAND OF SIBERUT, INDONESIA <i>*S. Hadi, T. Ziegler, J.K. Hodges</i>	<b>045</b> 11:50-12:10 ASSESSING THE IMPACTS OF CLIMATE CHANGE ON NONHUMAN PRIMATES <i>*H.D. Matthews, S.E. Turner</i>	<b>051</b> 11:50-12:10 GIBBON FACIAL MUSCULATURE IN FUNCTIONAL AND EVOLUTIONARY CONTEXTS. <i>*A.M. Burrows, B.M. Waller, C.J. Bonar, K. Liebal</i>	<b>057</b> 11:50-12:10 COMPARATIVE PATHOLOGY OF NONHUMAN PRIMATES <i>*S. Nakamura, R. Torii</i>	
<b>034</b> 12:10-12:30 DOES TREE GOUGING IN A RAINFOREST DWELLING LEMUR CONVEY RESOURCE OWNERSHIP AS LOUD CALLING IN A DRY FOREST DWELLING LEMUR? <i>*S. Rasoloharijaona</i>	<b>040</b> 12:10-12:30 DIETARY AND DIGESTIVE DIFFERENCES OF PRIMATES IN RELATION TO FOLIVORY/FRUGIVORY AND BODY SIZE <i>*J. Sha, S. Chandran</i>	<b>046</b> 12:10-12:30 GENDER ROLE IN WILDLIFE PROTECTION: DIFFERENCES BETWEEN MEN AND WOMEN SOCIAL PERCEPTIONS IN CANTANHEZ NATIONAL PARK (GUINEA-BISSAU, WEST-AFRICA) <i>*S.G. Costa, P. Lee, C. Casanova</i>	<b>052</b> 12:10-12:30 INSIGHTS FROM THE INSIDE: WHAT TEETH TELL US ABOUT GREAT APE EVOLUTION <i>*T.M. Smith</i>	<b>058</b> 12:10-12:30 THE EFFECT OF WEANING STRATEGIES ON AGGRESSION IN JUVENILE RHESUS MACAQUES ( <i>MACACA MULATTA</i> ) <i>*P. Honess, W. Mackintosh, M. Nixon</i>	
<b>035</b> 12:30-12:50 ODOUR SIGNALS SEX, MALE STATUS, INDIVIDUAL IDENTITY AND GENETIC SIMILARITY IN MANDRILLS ( <i>MANDRILLUS SPHINX</i> ) <i>*J.M. Setchell, S. Vaglio, K.M. Abbott, J. Moggi-Cecchi, F. Boscaro, L. Calamai, L.A. Knapp</i>	<b>041</b> 12:30-12:50 COPROPHAGY-RELATED INTERSPECIFIC NOCTURNAL INTERACTIONS BETWEEN JAPANESE MACAQUES AND SIKA DEER <i>*K. Mochida, M. Nishikawa</i>	<b>047</b> 12:30-12:50 A PRIMATE BEHAVIORAL ECOLOGY COURSE FOR EMERGING PRIMATOLOGISTS IN ASIA <i>*C.L. Tan, S. Atsalis, T.H. Dong, Q. Le Khac</i>	<b>053</b> 12:30-12:50 HOMINOID MOLAR CROWN MORPHOLOGY AND ENAMEL DISTRIBUTION <i>*R.T. Kono, G. Suwa</i>	<b>059</b> 12:30-12:50 HEALTH MANAGEMENT OF MACAQUE OUTDOOR COLONIES WITH FOCUS ON HEPATITIS E INFECTION <i>*J. Suzuki, H. Yamamoto, T. Ishida, T-C. Li, N. Takeda</i>	
<b>036</b> 12:50-13:10 CHANGES IN DUSKY TITI MONKEY ( <i>CALLICEBUS CUPREUS DISCOLOR</i> ) DAWN CHORUSES WITH HUNTING PRESSURE FROM HUMAN HUNTERS. <i>*S.K. Papworth, E.J. Milner-Gulland, K. Slocombe</i>	<b>042</b> 12:50-13:10 VIGILANCE OF THE RING TAILED LEMURS AT BERENTY RESERVE IN THE SOUTH OF MADAGASCAR <i>*A. Razafimahatratra, H. Rasamimanana</i>	<b>048</b> 12:50-13:10 BUILDING CAPACITY IN PRIMATOLOGY: A NEW SERIES OF PRIMATE FIELD COURSES IN BRAZIL <i>*M.G. Talebi, F.R. Melo, R. Martinez</i>	<b>054</b> 12:50-13:10 AN INDEX OF ASYMMETRY TO UNCOVER PREFERENTIAL MANIFESTATION OF BILATERAL NON-METRIC CHARACTER <i>*B. Suryobroto</i>	<b>060</b> 12:50-13:10 SPONTANEOUS ENDOMETRIOSIS IN RHESUS MACAQUES: A USEFUL PRECLINICAL MODEL <i>*I. Kondova, G. Braskamp, W. Collignon, A.G.M. Haaksma, P.J. Heidt, N. Otting, G. Doxiadis, N. De Groot, R.E. Bontrup</i>	

13th  
September

Monday

14:00 - 16:30

Symposium &  
Workshop

CT-A	CT-B	CT-C	CT-D	EN-A
<p><b>CT-A-13A [061-S]</b> Symposium <b>SOCIAL NETWORK THEORY AND ANALYSIS: APPLICATIONS TO THE STUDY OF PRIMATE SOCIALITY</b> <i>L.J.N. Brent, J. Lehmann, S. Semple</i></p> <p>OPENING REMARKS</p> <p><b>062</b> 14:05-14:25 FORMALIZING THE MULTI-DIMENSIONAL NATURE OF SOCIAL NETWORKS - A PERTURBATION ANALYSIS <i>*D. Lusseau, L. Barrett, S.P. Henzi</i></p> <p><b>063</b> 14:25-14:45 USING SOCIAL NETWORK METRICS TO EXPLORE THE ECOLOGICAL DETERMINANTS OF GROUPING PATTERNS IN SPIDER MONKEYS (ATELES SPP.) <i>*G. Ramos-Fernandez</i></p> <p><b>064</b> 14:45-15:05 SHORT-TERM FLEXIBILITY IN THE STRUCTURE OF FEMALE RHESUS MACAQUE NETWORKS <i>*L.J.N. Brent, A. MacLarnon, S. Semple</i></p> <p><b>065</b> 15:05-15:25 SOCIALITY AND FEMALE REPRODUCTIVE SUCCESS OF OLIVE BABOONS IN GASHAKA GUMTI NATIONAL PARK, NIGERIA <i>*C. Ross, J.P. Higham, D. Macgregor Inglis, A.M. MacLarnon, Y. Warren, J. Lehmann</i></p> <p><b>066</b> 15:25-15:45 THE GAMBIT OF THE GROUP: EXPLORING SPATIAL ASSOCIATION AND INTERACTION PATTERNS OF CAPTIVE CHIMPANZEES USING SOCIAL NETWORK ANALYSIS <i>*F.E. Clark</i></p> <p><b>067</b> 15:45-16:05 BABOON SOCIAL COMPLEXITY - A NETWORK APPROACH <i>*J. Lehmann, C. Ross</i></p> <p>DISCUSSION PERIOD</p> <p>CLOSING REMARKS</p>	<p><b>CT-B-13A [068-S]</b> Symposium <b>NEW METHODOLOGICAL APPROACHES TO CUMULATIVE CULTURE: HOW AND WHY DO HUMANS DIFFER FROM OTHER ANIMALS?</b> <i>C.A. Caldwell, C. Tennie</i></p> <p>INTRODUCTION <i>C. Tennie &amp; C.A. Caldwell</i></p> <p><b>069</b> 14:10-14:30 EXPERIMENTAL STUDIES OF CUMULATIVE CULTURE IN HUMANS <i>*C.A. Caldwell, A.E. Millen</i></p> <p><b>070</b> 14:30-14:50 APE TRADITIONS: USING LATENT SOLUTION EXPERIMENTS TO DETERMINE UNDERLYING LEARNING MECHANISMS <i>*C. Tennie, J. Call, M. Tomasello</i></p> <p><b>071</b> 14:50-15:10 TESTING FOR CUMULATIVE CULTURAL TRANSMISSION IN CHIMPANZEES AND CHILDREN <i>*S. Marshall-Pescini, N. McGuigan, A. Whiten,</i></p> <p><b>072</b> 15:10-15:30 CONSTRAINTS ON CUMULATIVE CULTURE IN CHIMPANZEES <i>*L.G. Dean, R.L. Kendal, K.N. Laland</i></p> <p><b>073</b> 15:30-15:50 WHY IS THERE SO LITTLE CUMULATIVE CULTURE IN GREAT APES? <i>*C.P. van Schaik, S. Lehner, C. Hrubesch, J. Burkart</i></p> <p><b>074</b> 15:50-16:10 CULTURAL EVOLUTION OF CULTURAL SYSTEMS <i>*A. Acerbi, M. Enquist, K. Eriksson, S. Ghirlanda</i></p> <p>GENERAL DISCUSSION</p>	<p><b>CT-C-13A [075-S]</b> <b>Session 1</b> Symposium <b>MIOCENE HOMINOIDS: UNDERSTANDING THE EVOLUTIONARY HISTORY OF APES AND HUMANS</b> <i>S. Almécija, B. Senut, Y. Kunitatsu</i></p> <p><b>076</b> 14:00-14:20 AN UPDATED CHRONOLOGY OF THE MIOCENE PRIMATE RECORD OF THE VALLÈS-PENEDÈS BASIN (CATALONIA, SPAIN) <i>*I. Casanovas Vilar, M. Garces, D.M. Alba, L. Cabrera, J.M. Robles, J. Galindo, S. Moyà-Solà, C. Rotgers, R. Carmona, S. Almécija, J.V. Bertó Mengual, J. Balaguer, E. Beamud</i></p> <p><b>077</b> 14:20-14:40 MIDDLE MIOCENE FOSSIL APES FROM ABOCADOR DE CAN MATA: IMPLICATIONS FOR THE ORIGIN AND EARLY RADIATION OF THE GREAT APES AND HUMANS CLADE (PRIMATES: HOMINIDAE). <i>*S. Moyà-Solà, D. Alba, S. Almécija</i></p> <p><b>078</b> 14:40-15:00 TAXONOMIC AND PHYLOGENETIC IMPLICATIONS OF THE CRANIAL MORPHOLOGY OF <i>PIEROLAPITHECUS CATALAUNICUS</i> (PRIMATES: HOMINIDAE) <i>*M. Pérez de los Ríos, S. Moyà-Solà, D. M. Alba, J. Fortuny</i></p> <p><b>079</b> 15:00-15:20 TO HANG OR NOT TO HANG: SUSPENSORY ADAPTATIONS IN FOSSIL APES ON THE BASIS OF PHALANGEAL CURVATURE AND RELATIVE LENGTH <i>*D.M. Alba, S. Almécija, S. Moyà-Solà</i></p> <p><b>080</b> 15:20-15:40 IMPLICATIONS OF THE EVOLUTION OF THE HOMINOID THUMB FOR THE ORIGIN OF REFINED MANIPULATION IN HOMININS <i>*S. Almécija, D.M. Alba, S. Moyà-Solà</i></p> <p><b>081</b> 15:40-16:00 MORPHOFUNCTIONAL STUDY OF HOMINOID HANDS USING COMPUTER SIMULATION TECHNIQUE <i>*N. Oghara, M. Nakatsukasa</i></p> <p>DISCUSSION 1</p>		<p><b>EN-A-13A [083-S]</b> Symposium <b>COMPARATIVE GENOMIC STUDIES BETWEEN HUMANS AND NON-HUMAN PRIMATES: FROM EVOLUTIONARY RESEARCH TO BIOMEDICAL APPLICATION</b> <i>N. Osada</i></p> <p>BRIEF INTRODUCTION <i>N. Osada</i></p> <p><b>084</b> 14:10-14:35 COMPLEX EVOLUTIONARY HISTORY OF FASTEVO IN HUMANS AND ITS ROLE IN BRAIN DEVELOPMENT <i>*H-Y. Wang</i></p> <p><b>085</b> 14:35-15:00 IDENTIFICATION AND ANALYSIS OF ANCESTRAL HOMINOID TRANSCRIPTOME INFERRED FROM NON-HUMAN PRIMATE GENOMIC SEQUENCES <i>Y-T. Huang, F-C. Chen, C-J. Chen, H-L. Chen, *T-J. Chuang</i></p> <p><b>086</b> 15:00-15:25 DIVERSIFICATION OF BITTER TASTE RECEPTOR GENE FAMILY IN CHIMPANZEES <i>*T. Sugawara, Y. Go, T. Usono, N. Morimura, M. Tomonaga, H. Hirai, H. Imai</i></p> <p><b>087</b> 15:25-15:50 IDENTIFICATION AND ANALYSIS OF CYTOCHROME P450S IN CYNOMOLGUS MACAQUE <i>*Y. Uno</i></p> <p><b>088</b> 15:50-16:15 TOOLS FOR GENETIC ANALYSIS OF CYNOMOLGUS MACAQUES <i>*A. Higashino, N. Osada, Y. Kameoka, I. Takahashi, Y. Yasutomi, K. Terao</i></p> <p>DISCUSSION, CLOSING REMARKS</p>

EN-B	EN-C	EN-D	LE-A	LE-B	LE-C
<p><b>EN-B-13A [089-S]</b> Symposium <b>NON-HUMAN PRIMATE MODELS FOR HUMAN DISEASES</b> <i>K. Nakamura, E. Fuchs</i></p> <p>INTRODUCTION <i>K. Nakamura</i></p> <p><b>090</b> 14:05-14:30 GENERATION OF TRANSGENIC NONHUMAN PRIMATES WITH GERMLINE TRANSMISSION <i>*E. Sasaki</i></p> <p><b>091</b> 14:30-14:55 APPLICATION OF RECOMBINANT VIRAL VECTORS TO PRIMATE BRAIN RESEARCH: GENE THERAPY FOR PARKINSON'S DISEASE <i>*M. Takada</i></p> <p><b>092</b> 14:55-15:20 UNREVEALING THE KEY PATHOGENIC MECHANISMS IN A MARMOSET MODEL OF MULTIPLE SCLEROSIS <i>Y.S. Kap, S.A. Jagessar, N. Heijmans, N. van Driel, J.D. Laman, *B.A. 't Hart</i></p> <p><b>093</b> 15:20-15:45 GROWTH OF YOUNG MONKEYS GIVEN THE ATYPICAL ANTIPSYCHOTIC DRUGS RISPERIDONE AND QUETIAPINE <i>*G.P. Sackett, B. Crouthamel</i></p> <p><b>094</b> 15:45-16:10 INDIVIDUAL AGING PATTERNS OF THE HYPOTHALAMIC-PITUITARY-ADRENAL AXIS IN NON-HUMAN PRIMATES <i>*N.D. Goncharova, B.A. Lapin</i></p> <p><b>095</b> 16:10-16:35 PROGRAMMING OBESITY IN MARMOSET MONKEYS <i>E. Fuchs, *C. Schlumbohm</i></p> <p>CONCLUDING REMARKS <i>E. Fuchs</i></p>	<p><b>EN-C-13A [096-S]</b> Symposium <b>POST-GENOME BIOLOGY OF PRIMATES</b> <i>H. Imai, Y. Go</i></p> <p><b>097</b> 14:00-14:30 BITTER TASTE RECEPTORS OF PRIMATES <i>*H. Imai</i></p> <p><b>098</b> 14:30-15:00 ALCOHOL DEHYDROGENASE (ADH) GENE CLUSTER IN PRIMATES <i>*H. Oota, R. Kaul, H. Shibata, A. Toyoda, A. Fijiyama, W.C. Speed, J.R. Kidd, M. Olson, S. Kawamura, K.K. Kidd</i></p> <p><b>099</b> 15:00-15:30 COMPARATIVE TRANSCRIPTOME ANALYSIS IN CHIMPANZEE TRIO <i>*Y. Go, O. Nishimura, A. Toyoda, A. Fujiyama, K. Agata</i></p> <p><b>100</b> 15:30-16:00 EVOLUTION OF SIALIC ACID BIOLOGY IN THE PRIMATE LINEAGE <i>*T. Hayakawa</i></p> <p><b>101</b> 16:00-16:30 FUNCTIONAL EVOLUTION OF PRIMATE ODORANT RECEPTORS <i>*H. Matsunami, K.A. Adipietro, H. Zhuang</i></p>	<p><b>EN-D-13A [102-S]</b> Symposium <b>SEX HORMONES, COGNITION AND EMOTION IN PRIMATES: A LIFESPAN PERSPECTIVE</b> <i>A. Lacreuse</i></p> <p>INTRODUCTION <i>A. Lacreuse</i></p> <p><b>103</b> 14:05-14:35 PRENATAL HORMONES AND SEX DIFFERENCES IN SPATIAL COGNITION IN RHESUS MONKEYS <i>*K. Wallen, S.B.Z. Stephens, R.A. Herman</i></p> <p><b>104</b> 14:35-15:00 AGE, REPRODUCTIVE STATUS, AND COGNITION IN FEMALE CHIMPANZES <i>*J. Russell, J.G. Herndon, W. Hopkins, J. Paredes, M.E. Wilson</i></p> <p><b>105</b> 15:00-15:30 NEUROPROTECTION WITH HORMONE THERAPY IN OLDER MENOPAUSAL MONKEYS <i>*M.L. Voytko</i></p> <p><b>106</b> 15:30-16:00 EFFECTS OF SEX STEROIDS ON COGNITION AND EMOTION IN MALE AND FEMALE MACAQUES <i>*A. Lacreuse, H.M. King, L.B. Kurdziel, S.R. Partan, J.S. Meyer, D.R. Grow</i></p> <p><b>107</b> 16:00-16:30 BEYOND THE WOMEN'S HEALTH INITIATIVE: RECENT PERSPECTIVES ON THE ROLE OF SEX STEROIDS IN THE HUMAN BRAIN <i>*E. Hampson</i></p>	<p><b>LE-A-13A [108-S]</b> Symposium <b>REVIEW OF HOOLOCK GIBBON CONSERVATION</b> <i>S.J. Browne</i></p> <p>INTRODUCTION TO SYMPOSIUM <i>S.J. Browne</i></p> <p><b>109</b> 14:05-14:25 SAVING THE HOOLOCK GIBBONS OF BANGLADESH, PROTECTING FORESTS AND CONSERVING BIODIVERSITY THROUGH AWARENESS BUILDING <i>*G.W. Chowdhury, M.A. Islam, S.B. Muzaffar, M.M. Kabir, I. Jahan, M.A. Aziz, M.K. Hasan, S. Chakma, S. Saif, M. Uddin, R. Akter, S. Mohsanin</i></p> <p><b>110</b> 14:25-14:45 THE MYANMAR HOOLOCK GIBBON CONSERVATION STATUS REVIEW: FIRST RESULTS ON WESTERN AND EASTERN HOOLOCKS IN MYANMAR <i>*N. Lwin, T. Geissmann, Fr. Momberg, M. Grindley, S.S. Aung, T.N. Aung, K.T. Khaing, Z.M. Aung, T. Htin Hla</i></p> <p><b>111</b> 14:45-15:05 EASTERN HOOLOCK GIBBON CONSERVATION IN CHINA <i>*H-S. Ai, P-F. Fan</i></p> <p><b>112</b> 15:05-15:25 HOOLOCK GIBBON CONSERVATION IN BANGLADESH <i>*M. A. Islam, S.B. Muzaffar, M.M. Feeroz, M.M. Kabir, S. Begum, G.W. Chowdhury, M.A. Aziz, I. Jahan</i></p> <p><b>113</b> 15:25-15:45 HOOLOCK GIBBON CONSERVATION IN INDIA <i>*D. Chetry, R. Chetry</i></p> <p><b>114</b> 15:45-16:05 STRATEGIC PLAN FOR WESTERN HOOLOCK GIBBON CONSERVATION IN ASSAM, INDIA <i>*J. Das, J. Biswas, N. Das, S. Molur, F. Bagley</i></p> <p>SYMPOSIUM DISCUSSION <i>S. Browne</i></p>	<p><b>LE-B-13A [115-S]</b> Symposium <b>REASON FOR HOPE: THE QUEST FOR COEXISTENCE AMONG AFRICAN HOMINIDS</b> <i>T. Matsuzawa, J. Yamagiwa</i></p> <p><b>116</b> 14:00-14:20 SUPPORT FOR AFRICAN/ASIAN GREAT APES (SAGA): EFFORTS TOWARD THE CARE AND CONSERVATION OF CHIMPANZEES <i>*T. Matsuzawa</i></p> <p><b>117</b> 14:20-15:20 MY REASONS FOR HOPE: WHAT I LEARNED FROM GOMBE 50 YEARS <i>*J. Goodall</i></p> <p><b>118</b> 15:20-15:40 JAPANESE PRIMATOLOGY: ITS UNIQUE SCOPE AND METHODOLOGY <i>*J. Yamagiwa</i></p> <p><b>119</b> 15:40-16:00 FROM THE BONOBOS' FOREST TO THE CHIMPANZEES' WOODLAND <i>*G. Idani</i></p> <p><b>120</b> 16:00-16:20 IMPACTS OF LONG-TERM RESEARCH ON CONSERVATION <i>*R. Wrangham, E. Ross, J. Lloyd, A. Pokempner</i></p> <p>DISCUSSION</p>	

13th  
September

Monday

16:45 - 19:15

Symposium &  
Workshop

**CT-A**

**CT-A-13E [121-S]**  
Symposium  
**FIFTY YEARS OF PRIMATE RESEARCH AT GOMBE NATIONAL PARK, TANZANIA**  
*A. Pusey, M.L. Wilson*

**122** 16:45-17:00  
CAUSES OF INTER-GROUP AGGRESSION AMONG CHIMPANZEES AT GOMBE  
*\*M.L. Wilson, D.C. Mjungu, A.E. Pusey*

**123** 17:00-17:15  
POWER RELATIONS AMONG NEIGHBORING COMMUNITIES AFFECT PARTY SIZE AND COMPOSITION IN GOMBE CHIMPANZEES: A REMOTE SENSING AND GIS ANALYSIS  
*\*L. Pintea, M.L. Wilson, I.C. Gilby, A.E. Pusey*

**124** 17:15-17:30  
ALPHA MALE CHIMPANZEES AT GOMBE: CONSEQUENCES OF DOMINANCE STYLE  
*\*I.C. Gilby*

**125** 17:30-17:45  
FATHER-OFFSPRING RELATIONSHIPS AMONG THE GOMBE CHIMPANZEES (*PAN TROGLODYTES SCHWEINFURTHII*)  
*\*E.E. Wroblewski, L. Johnson, C.M. Murray, J. Henderson, A. Stanley, A.E. Pusey*

**126** 17:45-18:00  
FACTORS INFLUENCING NUMBER OF SEXUAL CYCLES IN THE GOMBE CHIMPANZEES  
*\*A.E. Pusey*

**127** 18:00-18:15  
STRESS AND MATERNAL BEHAVIOR IN WILD CHIMPANZEES AT GOMBE NATIONAL PARK, TANZANIA  
*\*C.M. Murray, M.R. Heintz, R.M. Santymire, I. Lipende, E.V. Lonsdorf*

**128** 18:15-18:30  
THE IMPACT OF DISEASE ON THE GOMBE CHIMPANZEES - PAST AND PRESENT  
*\*E.V. Lonsdorf, D.A. Travis, I. Lipende, C.M. Murray, J. Raphael, E.V. Lonsdorf, I.C. Gilby, T.G. Gillespie, K.A. Terio, M. Kinsel, J. Chosy, R. Rudicell, B.H. Hahn, A.E. Pusey, J. Goodall*

**129** 18:30-18:45  
SKELETAL INDICATORS OF LIFE HISTORY EVENTS IN BABOONS AT GOMBE  
*\*D.A. Collins, J. Bowman, C.P. Msuya, S. Appolinaire, J. Goodall*

**130** 18:45-19:00  
FEMALE BABOONS ADOPT A MATE STRATEGY OF OESTRUS ASYNCHRONY IN GOMBE  
*\*A. Matsumoto-Oda, Y. Ihara, R. Oda, D.A. Collins*

**131** 19:00-19:15  
CONSERVING THE GREATER GOMBE ECOSYSTEM  
*\*S.M. Kamenya, L. Pintea, E.R. Miti, S.A. Ndimuligo*

**CT-B**

**CT-B-13E [132-S]**  
Symposium  
**THE JAPANESE MACAQUES OF ARASHIYAMA: DEMOGRAPHIC STUDIES, BEHAVIORAL RESEARCH, AND MANAGEMENT EFFORTS**  
*J.-B. Leca*

INTRODUCTION: SCOPE AND MAGNITUDE OF RESEARCH AND MANAGEMENT EFFORTS AT ARASHIYAMA  
*J.-B. Leca*

**133** 16:55-17:12  
LIFE HISTORY OF FEMALE JAPANESE MACAQUES AT ARASHIYAMA: HOW DO THEY COMPETE AND COEXIST?  
*\*Y. Takahata*

**134** 17:12-17:29  
BIRTH CONTROL IN FEMALE JAPANESE MACAQUES AT ARASHIYAMA MONKEY PARK  
*\*K. Shimizu*

**135** 17:29-17:46  
ARE FEMALE JAPANESE MACAQUES THAT ENGAGE IN HOMOSEXUAL BEHAVIOR MASCULINIZED? BEHAVIORAL AND NEUROANATOMICAL EVIDENCE  
*\*P.L. Vasey*

**136** 17:46-18:03  
MALE REPRODUCTIVE SUCCESS AND MASTURBATION BEHAVIOR OF JAPANESE MACAQUES IN ARASHIYAMA E TROOP  
*\*E. Inoue*

**137** 18:03-18:20  
MOUNTING AND SOCIAL PLAY IN JUVENILE MALE JAPANESE MACAQUES  
*\*D.P. Vanderlaan, S.M. Pellis, P.L. Vasey*

**138** 18:20-18:37  
SEASONAL CHANGES IN PARTNERS AND INTERACTIONS DURING SOCIAL GROOMING AMONG ADULT FEMALE JAPANESE MACAQUES (*MACACA FUSCATA*) OF THE ARASHIYAMA E-GROUP  
*\*M. Fujimoto*

**139** 18:37-18:54  
COMPARING PLAY PATTERNS IN JUVENILE JAPANESE MACAQUES AT ARASHIYAMA AND OTHER FIELD SITES IN JAPAN  
*\*M. Shimada*

**140** 18:54-19:11  
THIRTY YEARS OF STONE HANDLING TRADITION IN JAPANESE MACAQUES: IMPLICATIONS FOR CUMULATIVE CULTURE AND STONE-TOOL USE EVOLUTION  
*\*J.-B. Leca, N. Gunst, M.A. Huffman*

CONCLUDING REMARKS  
*J.-B. Leca*

**CT-C**

**CT-C-13A [075-S]**  
**Session 2**  
Symposium  
**MIOCENE HOMINOIDS: UNDERSTANDING THE EVOLUTIONARY HISTORY OF APES AND HUMANS**  
*S. Almécija, B. Senut, Y. Kunimatsu*

**141** 16:45-17:02  
UNIQUENESS OF THORACIC CAGE MORPHOLOGY IN EXTANT HOMINOIDS: IMPLICATIONS FOR THE EVOLUTION OF POSITIONAL BEHAVIORS.  
*\*M. Kagaya, N. Oginara, M. Nakatsukasa, B. Senut*

**142** 17:02-17:19  
THE LOCOMOTOR ADAPTATION OF THE PELVIC MORPHOLOGY IN *NACHOLAPITHECUS*.  
*\*Y. Nakano, N. Oginara, D. Shimizu, H. Tsujikawa, H. Makishima, M. Kagaya, T. Takano, Y. Kunimatsu, H. Ishida*

**143** 17:19-17:36  
POSTCRANIAL ADAPTATIONS IN THE MIOCENE LARGE APES OF KARAMOJA  
*\*B. Senut, D. Gommerly, E. Musiime, M. Pickford*

**144** 17:36-17:53  
SMALL-BODIED APES FROM NAPAK, UGANDA  
*\*M. Pickford, D. Gommerly, E. Musiime, B. Senut*

**145** 17:53-18:10  
FOSSIL CATARRHINES FROM THE EARLY LATE MIOCENE OF NAKALI IN KENYA  
*\*Y. Kunimatsu, M. Nakatsukasa, D. Shimizu, A. Yamamoto, T. Sakai, H. Nakaya, Y. Sawada, E. Mbua*

**146** 18:10-18:27  
DIET ANALYSIS FOR LATE MIOCENE CATARRHINES FROM NAKALI IN KENYA  
*\*D. Shimizu, T. Ikarashi, Y. Kunimatsu, M. Nakatsukasa, E. Mbua*

**147** 18:27-18:44  
LATE MIOCENE PALEOENVIRONMENTS OF HOMINOIDS - MESOWEAR ANALYSIS OF FOSSIL UNGULATE CHEEK TEETH FROM NORTHERN KENYA-  
*\*H. Nakaya, K. Uno, A. Fukuchi, Y. Kunimatsu, M. Nakatsukasa, T. Matsui, T. Sakai, M. Onodera, E. Yamada*

DISCUSSION 2

**CT-D**

**CT-D-13E [148-W]**  
Workshop  
**SEEKING SOLUTIONS FOR MANAGING THE DEMANDS OF PERSONAL LIFE AND CAREER IN PRIMATOLOGY.**  
*N. Caine*

**EN-A**

**EN-A-13E [149-S]**  
Symposium  
**HOMO SAPIENS AND PAN TROGLODYTES: WHAT MAKES US DIFFERENT?**  
*J.G. Herndon*

**150** 16:45-17:10  
MICROSTRUCTURAL AND MOLECULAR SPECIALIZATIONS OF THE HUMAN BRAIN: COMPARISONS WITH OTHER APES  
*\*T.M. Preuss*

**151** 17:10-17:35  
JUVENILIZED BONOBOS AND THE EVOLUTION OF HUMAN COGNITIVE DEVELOPMENT  
*\*B.A. Hare*

**152** 17:35-18:00  
LANGUAGE PATHWAYS IN HUMANS AND CHIMPANZEES  
*\*J.K. Rilling*

**153** 18:00-18:25  
HUMAN-SPECIFIC ADAPTATIONS IN LONGEVITY, REPRODUCTIVE FUNCTION, AND PATTERNS OF COGNITIVE AGING  
*\*J.G. Herndon*

**154** 18:25-18:50  
DIFFERENTIAL VULNERABILITY TO AGE-ASSOCIATED NEURODEGENERATION IN HUMANS AND CHIMPANZEES  
*\*L.C. Walker*

**155** 18:50-19:15  
BIOMARKERS OF OXIDATIVE STRESS AND CARDIOVASCULAR DISEASE IN HUMANS AND CHIMPANZEES  
*\*E.N. Videan, C.B. Heward, Y. Su, K. Chowdhury, R.G. Cutler*

EN-B	EN-C	EN-D	LE-A	LE-B	LE-C
<p><b>EN-B-13E [156-S]</b> Symposium <b>METHODS TO MEASURE PHYSIOLOGICAL AND BEHAVIORAL ACTIVITIES IN NON-HUMAN PRIMATES</b> <i>E. Fuchs, K. Nakamura</i></p> <p>INTRODUCTION <i>E. Fuchs</i></p> <p><b>157</b> 16:50-17:05 PC-BASED AUTOMATED APPARATUS TO TEST COGNITIVE ABILITIES OF MACAQUES <i>*A. Izumi, J. Tsuchida, K. Nakamura</i></p> <p><b>158</b> 17:05-17:15 PC-BASED AUTOMATED APPARATUS TO TEST COGNITIVE ABILITIES OF MARMOSSET MONKEYS <i>*K. Nakamura, A. Takemoto, R. Koba, A. Izumi</i></p> <p><b>159</b> 17:15-17:40 IN VIVO AND IN VITRO APPROACHES TO DIRECT ASSESSMENT OF HYPOTHALAMIC RELEASE OF GONADOTROPIN RELEASING-HORMONE IN MARMOSSETS <i>*D.H. Abbott, P.L. Tannenbaum, N.J. Schultz-Darken, W. Saltzman, M.J. Woller</i></p> <p><b>160</b> 17:40-18:05 REMOTE REGISTRATION OF EEG AND CORE BODY TEMPERATURE IN MARMOSSET MONKEYS <i>*E. Fuchs, K. Plassmann</i></p> <p>GENERAL DISCUSSION</p> <p>CONCLUDING REMARKS <i>K. Nakamura</i></p>	<p><b>EN-C-13E [161-S]</b> Symposium <b>BIOLOGICAL CORRELATES OF PRIMATE PERSONALITY AND TEMPERAMENT</b> <i>A. Weiss, M. Inoue-Murayama</i></p> <p><b>162</b> 16:45-17:10 GENE X ENVIRONMENT INTERACTIONS IN RHESUS MONKEY BEHAVIORAL AND BIOLOGICAL DEVELOPMENT <i>*S.J. Suomi</i></p> <p><b>163</b> 17:10-17:35 MOLECULAR BEHAVIORAL RESEARCH IN GREAT APES <i>*M. Inoue-Murayama, A. Weiss, K. Kato, N. Morimura, M. Tanaka, J. Yamagiwa, G. Idani</i></p> <p><b>164</b> 17:35-18:00 INTER-INSTITUTIONAL TRANSFER OF CAPTIVE CHIMPANZEES: A CASE STUDY OF RELATIONSHIPS AMONG BEHAVIOR, PERSONALITY, AND "QUALITY OF LIFE" <i>*A. Konno, N. Morimura, M. Tanaka, K. Ushida, S. Kusuda, T. Udono, K. Okahashi, Y. Yamamoto, M. Matsunaga, F. Ito, M. Inoue-Murayama, T. Hasegawa, M. Tomonaga</i></p> <p><b>165</b> 18:00-18:25 PERSONALITY AND DISEASE IN RHESUS MACAQUES: SOME POTENTIAL NEUROIMMUNE MECHANISMS <i>*J.P. Capitanio</i></p> <p><b>166</b> 18:25-18:50 MOLECULAR BRAIN IMAGING OF PERSONALITY TRAITS IN COMMON MARMOSSETS <i>*C. Yokoyama, H. Onoe</i></p> <p>OPEN DISCUSSION AND QUESTIONS <i>A. Weiss, S.J. Suomi, M. Inoue-Murayama, A. Konno, J.P. Capitanio, C. Yokoyama</i></p>	<p><b>EN-D-13E [167-S]</b> Symposium <b>OBJECT MANIPULATION AS A WINDOW ON THE PRIMATE MIND</b> <i>D.M. Fragaszy, H. Takeshita</i></p> <p><b>168</b> 16:45-17:10 STACKING BLOCKS IN CHIMPANZEES AND HUMANS <i>*M. Hayashi, H. Takeshita</i></p> <p><b>169</b> 17:10-17:35 HOW DO CAPUCHINS STACK UP AGAINST CHIMPANZEES AND HUMANS? ASSESSING COMBINATORY MANIPULATION IN A BLOCK STACKING TASK <i>*B.W. Stone, T. Jeyaraj, D. Fragaszy</i></p> <p><b>170</b> 17:35-18:00 DRAWING BEHAVIOUR IN CHIMPANZEES COMPARED WITH HUMAN DEVELOPMENT <i>*A. Saito, M. Hayashi, T. Matsuzawa, H. Takeshita</i></p> <p><b>171</b> 18:00-18:25 HOMO ARTIFEX: UNIQUELY HUMAN MANIPULATIVE SKILLS? <i>*D. Stout</i></p> <p><b>172</b> 18:25-18:50 LOCAL TRADITIONS IN GORILLA MANUAL SKILL: EVIDENCE FOR OBSERVATIONAL LEARNING OF BEHAVIOURAL ORGANIZATION <i>*R.W. Byrne, C. Hobaiter, M. Klailova</i></p> <p>SYMPOSIUM DISCUSSION: FROM COGNITIVE, SOCIAL, AND PERCEPTION-ACTION DEVELOPMENT <i>J.J. Lockman</i></p> <p>CLOSING REMARKS</p>	<p><b>LE-A-13E [173-S]</b> Symposium <b>REVIEW OF NOMASCUS GIBBON CONSERVATION</b> <i>P. Insua-Cao</i></p> <p>INTRODUCTION TO SYMPOSIUM <i>P. Lusua-Cao</i></p> <p><b>174</b> 16:50-17:05 TAXONOMY AND HISTORICAL DISTRIBUTION OF THE CRESTED GIBBON (GENUS <i>NOMASCUS</i>) <i>*T. Geissmann</i></p> <p><b>175</b> 17:05-17:25 CONSERVATION STATUS OF <i>NOMASCUS</i> GIBBONS IN CHINA <i>*P-F. Fan</i></p> <p><b>176</b> 17:25-17:45 STATUS OF <i>NOMASCUS</i> GIBBONS IN VIETNAM <i>*P. Insua-Cao</i></p> <p><b>177</b> 17:45-17:50 CASE STUDY ON TRANSBOUNDARY CAO VIT GIBBON CONSERVATION IN VIETNAM AND CHINA <i>Y. Lu, *P. Insua-Cao</i></p> <p><b>178</b> 17:50-18:10 CONSERVATION STATUS OF GIBBONS IN LAO PDR <i>*C.D. Hallam, C. Sisomphane</i></p> <p><b>179</b> 18:10-18:30 STATUS OF <i>NOMASCUS</i> GIBBONS IN CAMBODIA <i>*B.M. Rawson</i></p> <p><b>180</b> 18:30-18:50 STATUS AND DISTRIBUTION OF THE NORTHERN WHITE-CHEEKED CRESTED GIBBON (<i>NOMASCUS LEUCOGENYS</i>) IN VIETNAM <i>*T.B. Luu, B.M. Rawson</i></p> <p>SYMPOSIUM DISCUSSION - IDENTIFYING GAPS IN INFORMATION &amp; REGIONAL PRIORITIES FOR ACTION</p>	<p><b>LE-B-13E [181-S]</b> Symposium <b>BALANCING THE COSTS AND BENEFITS OF PRIMATE TOURISM</b> <i>M.P. Muehlenbein</i></p> <p>INTRODUCTION <i>M. Muehlenbein</i></p> <p><b>182</b> 16:50-17:10 GORILLA TOURISM, PAST AND FUTURE <i>*I.M. Redmond</i></p> <p><b>183</b> 17:10-17:30 RED APE ENCOUNTERS: HOW WALKING WITH WILD ORANG-UTANS REALLY BENEFIT COMMUNITIES <i>*M. Ancrenaz, I. Lackman-Ancrenaz, L. Ambu, S. Lias</i></p> <p><b>184</b> 17:30-17:50 MENACE OR MARVEL? MACAQUES AND THEIR MANAGEMENT IN AN URBAN LANDSCAPE <i>*B.P. Y-H. Lee, S.K.L. Chan</i></p> <p><b>185</b> 17:50-18:10 INTERACTIONS BETWEEN PARK WARDENS AND TIBETAN MACAQUES (<i>MACACA THIBETANA</i>) AT A TOURIST SITE IN HUANGSHAN, CHINA <i>*M.D. Matheson, A.M. Jones, L.K. Sheeran, J-H. Li, R.S. Wagner</i></p> <p><b>186</b> 18:10-18:30 HEALTH MONITORING OF THE HABITUATED AFRICAN GREAT APES <i>*S. Fujita</i></p> <p><b>187</b> 18:30-18:50 DO THE BENEFITS OF PRIMATE TOURISM OUTWEIGH THE COSTS OF POTENTIAL ANTHROPOZOONOSES AND STRESSED ANIMALS? <i>*M.P. Muehlenbein</i></p> <p><b>188</b> 18:50-19:10 IUCN/SSC PRIMATE SPECIALIST GROUP BEST PRACTICE GUIDELINES FOR WILD GREAT APE TOURISM <i>*E.J. Macfie, E.A. Williamson, M. Ancrenaz, C.M. Ellis</i></p> <p>CONCLUDING REMARKS <i>M. Muehlenbein</i></p>	<p><b>LE-C-13E [189-W]</b> Workshop <b>THE LEMUR SYNDROME: WHERE ARE WE AND WHERE DO WE NEED TO GO?</b> <i>P.M. Kappeler</i></p>



14th  
September

Tuesday

13:30 - 16:00

Symposium &  
Workshop

CT-A	CT-B	CT-C	CT-D	EN-A
<p><b>CT-A-14A [191-S]</b> Symposium <b>ONTOGENY OF PLANT SELECTION RELATED TO NUTRITIONAL AND MEDICINAL PROPERTIES IN PRIMATES</b> <i>L. Tarnaud, S. Krief</i></p> <p>INTRODUCTION <i>T. Laurent and K. Sabrina</i></p> <p><b>192</b> 13:40-14:00 THE INFLUENCE OF MOTHER'S FOOD ITEM ON INFANT'S FEEDING BEHAVIOR IN JAPANESE MACAQUES ON SHIMOKITA PENINSULA <i>*H. Taniguchi</i></p> <p><b>193</b> 14:00-14:20 EARLY FOOD SELECTION, SOCIAL FACILITATION AND FOOD QUALITY IN WILD YOUNG JAPANESE MACAQUES (<i>MACACA FUSCATA YAKUJ</i>) AT YAKUSHIMA ISLAND (JAPAN) <i>*L. Tarnaud, Y. Negishi</i></p> <p><b>194</b> 14:20-14:40 JUVENILE CAPUCHIN MONKEYS (<i>Cebus apella</i>) DIFFER FROM ADULTS ON FORAGING BEHAVIOR <i>*M.M. Winandy, P. Izar</i></p> <p><b>195</b> 14:40-15:00 UNUSUAL PLANT CONSUMPTION BY CAPTIVE CHIMPANZEES (<i>PAN TROGLODYTES</i>), GORILLAS (<i>GORILLA GORILLA</i>) AND ORANGUTANS (<i>PONGO SP.</i>): LEARNING MECHANISMS INVOLVED <i>*E. Gustafsson, M. Saint Jalme, M-C. Bomsel, S. Krief</i></p> <p><b>196</b> 15:00-15:20 HOW DO YOUNG WESTERN GORILLAS ACQUIRE INFORMATION ON FOOD, AND PLANTS WITH BIOACTIVE PROPERTIES? <i>*S. Masi, V. Dumontet, S. Ortmann, A. Todd, S. Krief</i></p> <p><b>197</b> 15:20-15:40 ONTOGENY OF PLANT SELECTION RELATED TO NUTRITIONAL AND MEDICINAL PROPERTIES IN WILD CHIMPANZEES <i>*S. Krief, M. Cibot</i></p> <p>DISCUSSION</p>	<p><b>CT-B-14A [198-S]</b> Symposium <b>PRIMATES IN ZOOS, MUSEUMS, LABORATORIES AND THE WILD: COMPARATIVE AND COMPLEMENTARY RESEARCH</b> <i>C. Schwitzer, B.M. Bezerra</i></p> <p>BRIEF INTRODUCTION</p> <p><b>199</b> 13:35-14:00 INTEGRATING FIELD AND ZOO STUDIES ON LEMURS TO BENEFIT THEIR CONSERVATION <i>*C. Schwitzer, S.Y. Polowinsky, G.H. Randriatahina, S. Volampeno, N. Schwitzer, M. Seiler</i></p> <p><b>200</b> 14:00-14:25 COMMUNICATION IN NEOTROPICAL PRIMATES: CAPTIVE VERSUS FIELD STUDIES <i>*B.M. Bezerra, A.S. Souto, G. Jones</i></p> <p><b>201</b> 14:25-14:50 PAYOFFS FROM IN SITU - EX SITU COOPERATIVE RESEARCH ON THE ENDANGERED LION-TAILED MACAQUES <i>*M. Singh, M. Singh, W. Kaumanns</i></p> <p><b>202</b> 14:50-15:15 ASSESSING THE EFFECTS OF COGNITIVE EXPERIMENTS ON THE WELFARE OF CAPTIVE CHIMPANZEES BY DIRECT COMPARISON OF ACTIVITY BUDGET BETWEEN WILD AND CAPTIVITY <i>*Y. Yamanashi, M. Hayashi, T. Matsuzawa</i></p> <p><b>203</b> 15:15-15:40 WHAT MAKES THEM HUMAN? THE ATTRIBUTION OF MENTAL STATES TO PRIMATES BY ZOO VISITORS <i>*V. Servais</i></p> <p>GENERAL DISCUSSION</p>	<p><b>CT-C-14A [204-S]</b> Symposium <b>LOOKING THROUGH THE PRIMATE EYES: RECENT ADVANCES IN THE GAZE BEHAVIOR IN HUMAN AND NONHUMAN PRIMATES FROM THE COMPARATIVE-COGNITIVE PERSPECTIVE</b> <i>M. Tomonaga, S. Itakura, M. Myowa-Yamakoshi, P.F. Ferrari</i></p> <p><b>205</b> 13:30-13:50 A COMPARATIVE EYE-TRACKING STUDY IN CHIMPANZEES AND HUMANS <i>*F. Kano, M. Tomonaga</i></p> <p><b>206</b> 13:50-14:10 THE BEHAVIORAL HALL-MARKS OF FACE PROCESSING IN HUMANS AND MACAQUES - AN EYE TRACKING INVESTIGATION <i>*C.D. Dahl</i></p> <p><b>207</b> 14:10-14:30 SOCIAL ATTENTION AND THE BRAIN IN PRIMATES <i>*M.L. Platt, K.K. Watson, J.T. Klein, R.O. Deaner, S.V. Shepherd</i></p> <p><b>208</b> 14:30-14:50 THE LINK BETWEEN GAZE AND NEONATAL IMITATION IN THE DEVELOPMENT OF MACAQUE SOCIO-COGNITIVE SKILLS <i>*P.F. Ferrari, A. Paukner, S.J. Suomi</i></p> <p><b>209</b> 14:50-15:10 HUMAN INFANTS' FACES PROCESSING AS REVEALED BY THEIR EYE GAZE PATTERNS <i>*K. Lee, A. Wheeler, G. Anzures</i></p> <p><b>210</b> 15:10-15:30 THE CORRESPONDENT LINK BETWEEN ACTION PREDICTION AND MOTOR ABILITY IN EARLY INFANCY <i>*Y. Kanakogi, S. Itakura</i></p> <p><b>211</b> 15:30-15:50 GAZE PROCESSING IN HUMAN INFANTS: ADAPTATION FOR COMMUNICATIVE LEARNING? <i>*A. Senju</i></p> <p>GENERAL DISCUSSION</p>	<p><b>CT-D-14A [212-W]</b> Workshop <b>THE EXPANDING ROLE OF PRIMATE SANCTUARIES - GOING BEYOND RESCUE AND CARE</b> <i>L. Brent</i></p>	<p><b>EN-A-14A [213-S]</b> Symposium <b>DIVERSITY, DISTRIBUTION AND PRESENT STATUS OF NON-HUMAN PRIMATES IN ASIA</b> <i>Y. Hamada</i></p> <p><b>214</b> 13:30-13:45 DISTRIBUTION, PHYLOGEOGRAPHY AND PRESENT STATUS OF MACAQUES DISTRIBUTED IN INDOCHINA <i>*Y. Hamada, S. Malaivijitnond, S. Pathomthong, P. Kingsada, V.D. Son, N.H. Van, N.V. Minh, A.M. San, A. Thu, T. Oi, Y. Kawamoto</i></p> <p><b>215</b> 13:45-14:00 STATUS, THREATS AND DISTRIBUTION OF PRIMATES IN VIETNAM - AND CURRENT CONSERVATION ACTIVITIES <i>*T. Nadler</i></p> <p><b>216</b> 14:00-14:10 DISTRIBUTION AND PRESENT STATUS OF NON-HUMAN PRIMATES IN CENTRAL VIETNAM <i>*N.V. Minh, N.H. Van, Y. Hamada</i></p> <p><b>217</b> 14:10-14:20 RECORDED SPECIES OF NON-HUMAN PRIMATES IN CAMBODIA AND THEIR PRESENT STATUS <i>*S. Thao, S. Meas, T. Oi</i></p> <p><b>218</b> 14:20-14:35 DISTRIBUTION PATTERN OF MACAQUE SPECIES INSOUTHERN LAO PDR: EXAMINING THE ECOLOGICAL SEGREGATION AMONG MACAQUE SPECIES <i>*P. Kingsada, S. Pathomthong, B. Praxaysombath, S. Malaivijitnond, Y. Hamada</i></p> <p><b>219</b> 14:35-14:50 DISTRIBUTION AND CURRENT STATUS OF LONG-TAILED MACAQUES (<i>Macaca fascicularis aurea</i>) IN MYANMAR <i>*A.M. San, Y. Hamada</i></p> <p><b>220</b> 14:50-15:05 SEX DIFFERENCES, HANDEDNESS, AND SELECTION PREFERENCES IN THE STONE TOOL-USE OF ANDAMAN LONG-TAILED MACAQUES (<i>MACACA FASCICULARIS AUREA</i>) <i>*M.D. Gumert, K.H. Low, V. Tan, S. Malaivijitnond</i></p> <p><b>221</b> 15:05-15:20 COEXISTENCE AND CONSERVATION OF SYMPATRIC PRIMATES IN THE FRAGMENTED HABITAT OF THE HOLLONGAPAR GIBBON WILDLIFE SANCTUARY, ASSAM, NORTHEASTERN INDIA <i>*N. Sharma, M.D. Madhusudan, A. Sinha</i></p> <p><b>222</b> 15:20-15:35 GENETIC SURVEY OF HYBRIDS IN A SEMI-WILD POPULATION OF LONG-TAILED (<i>Macaca fascicularis</i>) AND RHESUS MACAQUES (<i>Macaca mulatta</i>): HUMAN-ABO BLOOD GROUPS <i>*J. Jadejaroen, S. Malaivijitnond, Y. Hamada</i></p> <p>DISCUSSION</p>

## EN-B

## EN-B-14A [223-S]

Symposium

**GREAT APE CONSERVATION IN THE FACE OF A DEVELOPING WORLD**

T. Humle

## INTRODUCTION

**224** 13:35-13:55

POTENTIAL INFLUENCE OF PALM OIL AND CARBON POLICIES ON ORANGUTAN CONSERVATION AND FOREST COVER

\*S. Wich, E. Meijaard

**225** 13:55-14:15

PROTECTING WILD ORANG-UTANS OUTSIDE OF PROTECTED AREAS

M. Ancrenaz, L. Ambu,

\*I. Lackman

**226** 14:15-14:35

ARE ENVIRONMENTAL AND ANIMAL WELFARE ACTIVISTS COUNTER-PRODUCTIVE IN GREAT APE CONSERVATION?

\*E. Meijaard

**227** 14:35-14:55

THE CONSEQUENCES OF SUSTAINABLE FORESTRY AND CONSERVATION EFFORTS ON WESTERN LOWLAND GORILLAS AND CHIMPANZEES IN NORTHERN REPUBLIC OF CONGO

\*D.B. Morgan, C.M. Sanz, S. Strindberg, C.E. Ayina, E. Lonsdorf

**228** 14:55-15:15

A LARGE-SCALE APPROACH TO AFRICAN APE POPULATION RESEARCH AND CONSERVATION MONITORING

H. Kühn, J. Junker, \*E.A. Williamson, C. Boesch

## SUMMING UP

## FURTHER QUESTIONS

## EN-C

## EN-C-14A [229-S]

Symposium

**RECENT ADVANCES IN BEHAVIORAL COMPARISONS BETWEEN WILD BONOBOS AND CHIMPANZEES.**

T. Furuichi, C. Hashimoto

## INTRODUCTION

T. Furuichi

**230** 13:35-13:55

DIFFERENCE IN TERRESTRIALITY BETWEEN CHIMPANZEES AND BONOBOS INFLUENCED BY AIR TEMPERATURE INSIDE FOREST

\*H. Takemoto

**231** 13:55-14:15

COMPARISON OF FOOD PATCH USE AND RANGING PATTERN BETWEEN BONOBOS AT WAMBA AND CHIMPANZEES IN THE KALINZU FOREST

\*T. Furuichi, M.N. Mulavwa, C. Hashimoto

**232** 14:15-14:35

WHAT WE KNOW FROM NEST GROUPS OF BONOBOS AT WAMBA: HABITAT USE, SOCIO-ECOLOGICAL FEATURES, AND COMPARISONS WITH CHIMPANZEES

\*M.N. Mulavwa, K. Yangozene, M. Yamba-Yamba, B. Motema-Salo, N.N. Mwanza, T. Furuichi

**233** 14:35-14:55

COMPARISON OF RANGING BEHAVIOR BETWEEN WILD BONOBOS AND CHIMPANZEES

\*C. Hashimoto, T. Furuichi, T. Sakamaki, M.N. Mulavwa, K. Yangozene

**234** 14:55-15:15

GROOMING INTERACTIONS IN WILD BONOBOS AT WAMBA IN THE LUO SCIENTIFIC RESERVE, DRC: COMPARISON WITH CHIMPANZEES.

\*T. Sakamaki

**235** 15:15-15:35

JOY IN THE JUNGLE: PLAY BEHAVIOUR AND LAUGHTER IN THE WILD BONOBOS OF WAMBA

\*I. Behncke, R. Dunbar

**236** 15:35-15:55

LOMAKO BONOBO SOCIAL AND RANGING BEHAVIOR: FEMALE BONDING, MALE STRATEGIES, AND WHY NO INFANTICIDE OR LETHAL RAIDING

\*F.J. White, M. Waller, R. Tindale, I. Minton, K. Boose

## CLOSING REMARKS

## EN-D

## EN-D-14A [237-S]

Symposium

**ENERGETICS: MEASUREMENT AND INTERPRETATION**

A. MacLarnon, C. Ross

**238** 13:30-13:48

URINARY STABLE ISOTOPE RATIOS INDICATE NUTRITIONAL STRESS IN BONOBOS

\*T. Deschner, B.T. Fuller, V. Oelze, S. Ortman, R. Mundry, M.P. Richards, G. Hohmann

**239** 13:48-14:06

VALIDATION OF URINARY C-PEPTIDE MEASUREMENTS AS A POTENTIAL MARKER OF ENERGETIC CONDITION IN MACAQUES

\*C. Girard-Buttoz, M. Heistermann, J.P. Higham, S. Wedegaertner, D. Maestripietri, A. Engelhardt

**240** 14:06-14:24

ENERGETICS: THE LINK BETWEEN FORAGING AND REPRODUCTIVE STRATEGIES IN MALE RHESUS MACAQUES.

\*J. P. Higham, M. Heistermann, D. Maestripietri

**241** 14:24-14:42

THE ENERGETICS OF HOMINOID CARRYING AND ITS IMPLICATIONS FOR HUMAN EVOLUTION

\*W.I. Sellers

**242** 14:42-15:00

ENERGETIC EFFECTS OF COOPERATIVE BREEDING ON BRAIN SIZE AND FERTILITY

\*K. Isler, C.P. van Schaik

**243** 15:00-15:18

ENERGETICS AND STRESS: CLIMATIC VARIATION AND GLUCOCORTICOID LEVELS IN FOREST-LIVING WEST AFRICAN BABOONS

\*A.M. MacLarnon, V. Sommer, J.J. Ellis, A.S. Goffe, J.P. Higham, P.J. Tkaczynski, C. Ross

**244** 15:18-15:36

THE ENERGETIC COSTS OF BEING A FLANGED PRIME MALE ORANGUTAN: INSIGHTS INTO THE EVOLUTION OF MALE BI-MATURISM

\*C. Knott, M. Emery Thompson

**245** 15:36-15:54

C-PEPTIDE OF INSULIN AS A TOOL FOR TRACKING THE COSTS OF REPRODUCTION IN WILD CHIMPANZEES

\*M. Emery Thompson, M.N. Muller, E. Fitzgerald, R.W. Wrangham

## LE-A

## LE-A-14A [246-S]

Symposium

**ALTERNATIVE VIEWS ON THE ORIGIN AND EARLY EVOLUTION OF PRIMATES**

J. Masters, M. Silcox, N. Stevens

**247** 13:30-13:44

DATING THE PRIMATE TREE: NEW INSIGHTS ON PRIMATE ORIGINS FROM COMPLETE MITOCHONDRIAL GENOMES.

\*L. Pozzi, J.A. Hodgson, C. Bergey, T.R. Disotell

**248** 13:44-13:58

DATING PRIMATE ORIGINS: INTEGRATING GENETIC AND FOSSIL DATA

M.E. Steiper, \*R.D. Wilkinson

**249** 13:58-14:12

THE ORIGIN AND EVOLUTION OF THE FIRST PRIMATE RADIATION: NEW EVIDENCE FROM THE FOSSIL RECORD

\*J.I. Bloch, M.T. Silcox, D.M. Boyer, E.J. Sargis

**250** 14:12-14:26

THE BRAINS OF THE EARLIEST PRIMATES: ENDOCASTS AND THE QUESTION OF PRIMATE BRAIN SIZE INCREASE

\*M.T. Silcox, A.E. Benham, C.K. Dalmyn, J.I. Bloch

**251** 14:26-14:40

THE FOSSIL RECORD OF EARLY PRIMATE EVOLUTION IN AFRICA: IMPLICATIONS FOR PRIMATE ORIGINS

\*E.R. Seiffert

**252** 14:40-14:54

INTER-CONTINENTAL DISPERSAL OF PALEO-PRIMATES: RETHINKING RAFTING

\*A.H. Harcourt

**253** 14:54-15:08

WHAT CAN PHYLOGENETIC STUDIES TELL US ABOUT EARLY PRIMATE EVOLUTION?

\*J. Masters, M. DelPero, D. Silvestro, F. Génin

**254** 15:08-15:22

LATITUDE, SEASONALITY AND ACTIVITY PATTERNS IN EARLY PRIMATE RADIATIONS

\*G. Donati, S.M. Borgognini-Tarli, D.J. Curtis

**255** 15:22-15:36

CAN ANCESTRAL PRIMATE SOCIAL SYSTEMS BE PHYLOGENETICALLY RECONSTRUCTED?

\*F.G.S. Génin, J.C. Masters

**256** 15:36-15:50

RETHINKING PRIMATE ORIGINS

\*R.W. Sussman

## COMMENTARY AND DISCUSSION

N. Stevens

## LE-B

## LE-B-14A [257-S]

Symposium

**HABITAT FRAGMENTATION IN TIME AND SPACE: LESSONS TO LEARN ABOUT AND FROM PRIMATES**

U. Radespiel, L. Chikhi

**258** 13:30-13:55

THE EFFECTS OF HABITAT FRAGMENTATION AND PHYLOGEOGRAPHIC HISTORY ON THE GENETIC STRUCTURE OF A SMALL NOCTURNAL LEMUR

\*U. Radespiel, M. Currat, L. Chikhi

**259** 13:55-14:20

THE EFFECT OF LANDSCAPE FEATURES AND SOCIAL ORGANIZATION ON POPULATION GENETIC STRUCTURE OF FRANCOIS'S LANGUR

\*Z.J. Liu, F.W. Wei, C.M. Huang, M. Li

**260** 14:20-14:45

FRAGMENTATION IN LARGE FOREST MAMMALS OF BORNEO: THE EXAMPLES OF BORNEAN ELEPHANTS AND ORANG-UTANS

\*B. Goossens, L. Chikhi, N. Othman, F. Jallil, M. Ancrenaz, L. Ambu, M.W. Bruford

**261** 14:45-15:10

POSSIBILITY OF INTER-SPECIES GENE FLOW AMONG GIBBON SPECIES

\*N. Saitou, R. Suzuki, Y. Kawai, T. Ishida

**262** 15:10-15:35

THE EFFECT OF THE DEMOGRAPHIC HISTORY AND SAMPLING SCHEME ON THE DETECTION OF SPURIOUS BOTTLENECKS IN FRAGMENTED AND STRUCTURED POPULATIONS

\*L. Chikhi, B.D.V. Sousa, P. Luisi, B. Goossens, M.A. Beaumont

**263** 15:35-16:00

POLYMORPHISM AND MIGRATION RATE DIFFERENCE IN FRAGMENTED HABITAT

\*S. Mano

# 14th

## September

Tuesday

16:15 - 19:35

### Oral Session

\*20min per paper

CT-A	CT-B	CT-C	CT-D	EN-A
<p><b>CT-A-14E</b> Ecology &amp; Behavior <b>SOCIAL ORGANIZATION</b> Chairs: C. Neumann &amp; K. Koops</p>	<p><b>CT-B-14E</b> Ecology &amp; Behavior <b>PARENTAL BEHAVIOR</b> Chairs: F. Bercovitch &amp; H-H. Su</p>	<p><b>CT-C-14E</b> Ecology &amp; Behavior <b>SELF-MEDICATION AND HOST-PARASITE ECOLOGY</b> Chairs: M.A. Huffman &amp; A.J.J. MacIntosh</p>		<p><b>EN-A-14E</b> Morphology &amp; Phylogeny <b>LOCOMOTION &amp; POSTURE</b> Chair: A. Matsumura</p>
<p><b>265</b> 16:15-16:35 DOMINANCE AND SOCIAL RELATIONSHIPS IN FEMALES OF A TOLERANT MACAQUE SPECIES, <i>MACACA NIGRA</i>. *J. Duboscq, D. Perwitasari-Farajallah, M. Agil, B. Thierry, K. Hodges, A. Engelhardt</p>	<p><b>274</b> 16:15-16:35 PATERNAL CHANGES IN BODY WEIGHT DURING PARENTAL CARE PERIOD IN COOPERATIVELY BREEDING COMMON MARMOSETS *I. Tatsuta, N. Kutsukake, A. Kawasaki, C. Yokoyama, H. Onoe, M. Hasegawa</p>	<p><b>283</b> 16:15-16:35 MEDICINAL USE OF PLANTS BY ORANG-UTANS *H.C. Morrogh-Bernard, R. De Martin, L. Hoffmannova, K. Dolezal, I. Foitova</p>		<p><b>293</b> 16:15-16:35 REGIONAL DIFFERENCES IN CORTICAL THICKNESS OF THE FEMORAL NECK IN CHIMPANZEES *A. Matsumura, T. Nakamura, H. Gunji, Y. Takahashi, T. Nishida, M. Okada</p>
<p><b>266</b> 16:35-16:55 CALCULATING DOMINANCE HIERARCHIES IN A DYNAMIC SYSTEM: RANK AND RANK CHANGES IN MALE CRESTED MACAQUES (<i>MACACA NIGRA</i>) *C. Neumann, A. Maulana Irvan, M. Agil, D. Perwitasari-Farajallah, A. Widdig, A. Engelhardt</p>	<p><b>275</b> 16:35-16:55 MALE-INFANT SOCIAL INTERACTIONS IN WILD CRESTED MACAQUES (<i>MACACA NIGRA</i>) *D. Kerhoas, M. Agil, D. Perwitasari Farajallah, A. Engelhardt, A. Widdig</p>	<p><b>284</b> 16:35-16:55 SELF-MEDICATION IN BONOBOB: A REPORT OF LEAF-SWALLOWING FROM LUI KOTALA IN SALONGA NATIONAL PARK, DR CONGO. *A. Fowler, G. Hohmann, B. Fruth</p>		<p><b>294</b> 16:35-16:55 FUNCTIONAL MORPHOLOGY OF ANTHROPOID HAND POSTURES: A 3D APPROACH TO PHALANGEAL ARTICULAR SURFACES *A.S. Deane</p>
<p><b>267</b> 16:55-17:15 SOCIAL INTERACTION OF MALE SULAWESI CRESTED BLACK MACAQUES (<i>Macaca nigra</i>) IN THE TANGKOKO-BATUANGUS NATURE RESERVE, NORTH SULAWESI, INDONESIA *S. Sumarto, K. Watanabe</p>	<p><b>276</b> 16:55-17:15 MOTHERS MATTER! DOMINANCE STATUS, MATERNAL SUPPORT AND MATING SUCCESS IN MALE BONOBOB *M. Surbeck, R. Mundry, G. Hohmann</p>	<p><b>285</b> 16:55-17:15 THE ADAPTIVE SIGNIFICANCE OF GEOPHAGY IN THE MILNE-EDWARDS' SIFAKA (PROPTHECUS EDWARDSI) AT RANOMAFANA NATIONAL PARK, MADAGASCAR. *S.J. Arrigo-Nelson, A.L. Baden, R.L. Salisbury, P.C. Wright, E.M. McGee</p>		<p><b>295</b> 16:55-17:15 HIND LIMB USE AND LOADING PATTERNS IN PRIMATES WITH DIFFERENT LOCOMOTOR REPERTOIRES *K.J. Carlson, B.A. Patel</p>
<p><b>268</b> 17:15-17:35 DOMINANCE HIERARCHY AND SOCIAL GROOMING AMONG COMMENSAL FEMALE BONNET MACAQUES (<i>MACACA RADIATA</i>) IN MYSORE, INDIA *S.R. Chacko</p>	<p><b>277</b> 17:15-17:35 LIFE HISTORY TRAITS, MATERNAL BEHAVIOUR AND INFANT DEVELOPMENT OF THE BLUE-EYED BLACK LEMUR (<i>EULEMUR FLAVIFRONS</i>): IMPLICATIONS FOR CONSERVATION *M.S.N. Volampeno, J.C. Masters, C.T. Downs</p>	<p><b>286</b> 17:15-17:35 DOCUMENTING GEOPHAGY IN WILD CHACMA BABOONS AT WILD-CLIFF, SOUTH AFRICA, USING TRAP CAMERAS *P.A. Pebsworth, M.A. Huffman</p>		<p><b>296</b> 17:15-17:35 ORTHOGRADE TRUNK POSTURE, BIPEDALISM AND LUMBAR BACK MUSCULATURE *B. Hesse, R. Fröeber, M.S. Fischer, N. Schilling</p>
<p><b>269</b> 17:35-17:55 SYNCHRONIZED RANK CHANGES IN JUVENILES AND THEIR MOTHERS AND RELATED BEHAVIOR OBSERVED IN A CAPTIVE GROUP OF JAPANESE MACAQUES *Rizaldi, K. Watanabe</p>	<p><b>278</b> 17:35-17:55 GRANDMOTHERING IN CAPTIVE <i>GALAGO SENEGALENSIS BRACCATUS</i> - PARENTING BEYOND NURSING *L.T. Nash, S.E. Kessler</p>	<p><b>287</b> 17:35-17:55 FEEDING ON PHYTOESTROGENS: IMPLICATIONS FOR UGANDAN RED COLOBUS MONKEY (<i>PROCOLOBUS RUFOMITRATUS TEPHROSCELES</i>) PHYSIOLOGICAL ECOLOGY *M.D. Wasserman</p>		<p><b>297</b> 17:35-17:55 ARBOREAL ORIGIN OF BIPEDALISM REEXAMINED - COMPARATIVE DYNAMICS - *T. Kimura</p>
<p><b>270</b> 17:55-18:15 NON-AGGRESSIVE INTERVENTIONS IN CONFLICTS AMONG CAPTIVE BORNEAN ORANGUTANS (<i>PONGO PYGMAEUS</i>) *T. Tajima, H. Kurotori, S. Takeda</p>	<p><b>279</b> 17:55-18:15 OBSERVATIONS ON A DAYTIME BIRTH IN THE WILD OF A TITI MONKEY (<i>CALLICEBUS OENANTHE</i>) AND SUBSEQUENT MALE PARENTAL CARE *A.M. DeLuycker</p>	<p><b>288</b> 17:55-18:15 PARASITE SPECIES DIVERSITY AND INFECTION INTENSITY OF ORANGUTAN - ECOLOGICAL FACTORS WITH AN EMPHASIS ON FOOD ITEMS IN THEIR DIET *I. Foitová, M.A. Huffman, L. Dušek, J. Jarkovský, R. Klapka, M. Olšanský</p>		
<p><b>271</b> 18:15-18:35 DOMINANCE STYLE AMONG FEMALE WHITE-FACED CAPUCHINS (<i>CEBUS CAPUCINUS</i>) AT SANTA ROSA NATIONAL PARK, COSTA RICA *M.L. Bergstrom, L.M. Fedigan</p>	<p><b>280</b> 18:15-18:35 TWINNING FREQUENCY OF JAPANESE MACAQUES (<i>MACACA FUSCATA</i>) AT TAKASAKIYAMA *Y. Sugiyama, H. Kurita, T. Matsui, T. Shimomura</p>	<p><b>289</b> 18:15-18:35 THE FRACTAL DIMENSION: MEASURING BEHAVIORAL COMPLEXITY AND ITS IMPLICATIONS FOR EVALUATING THE HEALTH OF PRIMATES IN THE WILD *A.J.J. Macintosh, M.A. Huffman</p>		
<p><b>272</b> 18:35-18:55 MALE TAKEOVERS, SEXUAL HARASSMENT AND FEMALE REPRODUCTIVE SUCCESS IN HAMADRYAS BABOONS (<i>PAPIO H. HAMADRYAS</i>) *P. Polo, F. Colmenares, M.V. Hernández-Lloreda</p>	<p><b>281</b> 18:35-18:55 SENESCENCE AND TERMINAL INVESTMENT IN FREE-RANGING FEMALE RHESUS MACAQUES (<i>MACACA MULATTA</i>) *C.L. Hoffman, J.P. Higham, A. Mas-Rivera, J.E. Ayala, D. Maestriperi</p>	<p><b>290</b> 18:35-18:55 PARASITE BURDEN AS A TOOL TO ASSESS IMMUNOSENECENCE IN WILD BROWN MOUSE LEMURS (<i>MICROCEBUS RUFUS</i>) *S. Zohdy, T.H. Rakotoarinivo, J. Carag, P.C. Wright, J. Jernvall</p>		
<p><b>273</b> 18:55-19:15 HOW ADULT MALE CHIMPANZEES OF MAHALE ACQUIRE THE ALPHA STATUS? *T. Nishida, A. Inaba, N. Itoh, T. Kooriyama, N. Nakamura, H. Nishie, T. Sakamaki, K. Zamma</p>	<p><b>282</b> 18:55-19:15 REPRODUCTIVE SUCCESS OF FEMALE TAIWANESE MACAQUES (<i>MACACA CYCLOPIS</i>) *H-H. Su</p>	<p><b>291</b> 18:55-19:15 SOCIAL GROOMING IN PRIMATES: HYGIENIC OR HEALTH RISK? *B.T. Wren, M.J. Remis, T.R. Gillespie</p>		
		<p><b>292</b> 19:15-19:35 OF LEMURS AND LOUSE FLIES: IMPLICATIONS OF LEMUR ECOLOGY AND BEHAVIOR ON PARASITE SPECIFICITY IN RANOMAFANA NATIONAL PARK, MADAGASCAR *S.E. Vaughn, E. McGee</p>		



EN-B	EN-C	EN-D	LE-A	LE-B	LE-C
<p><b>EN-B-14E</b> Genomics &amp; Genetics <b>POPULATION DIFFERENTIATION</b> Chairs: S. Kawamura &amp; P. Nietlisbach</p>	<p><b>EN-C-14E</b> Psychology <b>CARING FOR OTHERS</b> Chairs: K. A. Cronin &amp; M.W. Campbell</p>	<p><b>EN-D-14E</b> Psychology <b>REASONING &amp; LATERALITY</b> Chairs: G. Martin-Ordas &amp; Y. Sato</p>	<p><b>LE-A-14E</b> Conservation <b>CONSERVATION OF NEW WORLD MONKEYS</b> Chairs: R. del Rio do Valle &amp; L. Jerusalinsky</p>	<p><b>LE-B-14E</b> Conservation <b>CONSERVATION OF ASIAN MONKEYS</b> Chairs: A.A. Eudey &amp; J. Biswas</p>	
<p><b>298</b> 16:15-16:35 UNDERSTANDING TARSIER DIVERSITY: THE INTRIGUING PHYLOGEOGRAPHY OF <i>TARSIUS</i> IN CENTRAL SULAWESI *S. Merker, C. Driller, D. Perwitasari-Farajallah, J. Pamungkas, Wiradateti, H. Zischler, B. Streit</p>	<p><b>307</b> 16:15-16:35 GROUP SERVICE EXPERIMENTS: QUICK ASSESSMENT OF SOCIAL TOLERANCE AND SPONTANEOUS PROSOCIALITY *J.M. Burkart, J. Huber, C. van Schaik</p>	<p><b>316</b> 16:15-16:35 ACTION PLANNING IN TOOL-USE TASKS: THE IMPORTANCE OF THE ORDER OF EVENTS *G. Martin-Ordas, J. Call</p>	<p><b>325</b> 16:15-16:35 COLLECTION AND ANALYSIS OF SEMEN FROM CAL-LITHRIX PENICILLATA V.M. Massarotto, F.M. Carvalho, P.R. Arakaki, T.S. Calvi, M. Nichi, M.A.B.V. Guimarães, M.A. Miglino, *R.R. Valle</p>	<p><b>333</b> 16:15-16:35 DISTRIBUTION PATTERN AND CURRENT STATUS OF LONG-TAILED MACAQUES (<i>Macaca fascicularis</i>) AND LUTUNGS (<i>Trachypithecus auratus</i>) IN THE LOMBOK ISLAND, INDONESIA *I. Hadi, T. Tanaka, B. Suryobroto, K. Watanabe</p>	
<p><b>299</b> 16:35-16:55 HYBRIDIZATION AND GENE INTRODUCTION IN MEXICAN HOWLER MONKEYS *L. Cortés-Ortiz</p>	<p><b>308</b> 16:35-16:55 PROSOCIAL BEHAVIOR EMERGES INDEPENDENT OF RECIPROCITY IN COTTONTOP TAMARINS (<i>SAGUINUS OEDIPUS</i>) *K.A. Cronin, K.K.E. Schroder, C.T. Snowdon</p>	<p><b>317</b> 16:35-16:55 GREAT APES FACING GRAVITY: WHAT IS SO DIFFICULT ABOUT THE VERTICAL TUBES TASK? *A. Albiach Serrano, J. Call</p>	<p><b>326</b> 16:35-16:55 GEOGRAPHICAL DISTRIBUTION AND STATE OF CONSERVATION OF THE YELLOW TAILED WOOLLY MONKEY <i>OREONAX FLAVICAUDA</i> IN NORTHEASTERN PERU *F.M. Cornejo, C. Tello, M. Chocce, N. Vega</p>	<p><b>334</b> 16:35-16:55 NEGLECTED SPECIES: CONSERVATION AND ETHICAL RAMIFICATIONS *A.A. Eudey</p>	
<p><b>300</b> 16:55-17:15 MITOCHONDRIAL DNA COMPARISON OF LONG TAILED MACAQUE (<i>MACACA FASCICULARIS</i>) BETWEEN SABAH ISLANDS AND MAINLAND *K.Y. Ong, A.H. Ahmad, H. Bernard</p>	<p><b>309</b> 16:55-17:15 RESPONSES TO INEQUITY IN SQUIRREL MONKEYS, <i>SAIMIRI</i> SPP. *C.F. Talbot, L.E. Williams, S.F. Brosnan</p>	<p><b>318</b> 16:55-17:15 DO CAPUCHIN MONKEYS (<i>CEBUS APELLA</i>) AND CHIMPANZEES (<i>PAN TROGLODYTES</i>) SHOW ANALOGICAL REASONING WHEN USING TOOLS? *G. Sabbatini, V. Truppa, B. Gambetta, A. Hribar, J. Call, E. Visalberghi</p>	<p><b>327</b> 16:55-17:15 VIABILITY ASSESSMENT FOR A POPULATION OF THE MEXICAN HOWLER MONKEY: POTENTIAL THREATS AND PERFORMANCE OF DIFFERENT MANAGEMENT INTERVENTIONS. *E.I. Ameza y Juárez, E. Rodriguez - Luna, G. Mace</p>	<p><b>335</b> 16:55-17:15 IS THERE ANY FUTURE FOR PROBOSCIS MONKEYS? THE CASE OF FAILING CONSERVATION OF BALIKPAPAN BAY. *S. Lhota</p>	
<p><b>301</b> 17:15-17:35 GENETIC DIVERSITY WITHIN AND AMONG REGIONAL POPULATIONS OF LONGTAIL MACAQUES (<i>MACACA FASCICULARIS</i>) *D.G. Smith, S. Kanthaswamy, J.S. Trask, D.A. George</p>	<p><b>310</b> 17:15-17:35 DO CAPUCHIN MONKEYS BEHAVE PROSOCIALY TO OTHERS AT A SMALL EXPENSE OF THEIR REWARD IN AN EXPERIMENTAL FOOD SHARING SITUATION? *A. Takimoto, K. Fujita</p>	<p><b>319</b> 17:15-17:35 CAUSAL INFERENCE IN CHIMPANZEES *D. Hanus, J. Call</p>	<p><b>328</b> 17:15-17:35 THE CRITICALLY-ENDANGERED MARGARITA CAPUCHIN: DISTRIBUTION, DENSITIES AND ABUNDANCE. *N. Ceballos-Mago, D.J. Chivers</p>	<p><b>336</b> 17:15-17:35 ANTI-POACHING, THE MOST EFFECTIVE STRATEGY IN SAVING CHINA'S WILDLIFE: LESSONS LEARNT FROM YUNNAN SNUB-NOSED MONKEY CONSERVATION INITIATIVE *T. Jin, Y. Long</p>	
<p><b>302</b> 17:35-17:55 DIVERSITY AND MOLECULAR PHYLOGENY OF MITOCHONDRIAL DNAs OF RHESUS MACAQUES IN BANGLADESH *M.K. Hasan, M.M. Feeroz, Y. Kawamoto</p>	<p><b>311</b> 17:35-17:55 TRUE LIES! PATTERNS OF GENERALIZATION IN TACTICAL DECEPTION BY WILD BONNET MACAQUES <i>MACACA RADIATA</i> *S.S. Ghuman, R. Kasturirangan, A. Sinha</p>	<p><b>320</b> 17:35-17:55 Canceled</p>	<p><b>329</b> 17:35-17:55 DISTRIBUTION AND ABUNDANCE OF THE CRITICALLY ENDANGERED ECUADORIAN WHITE-FRONTED CAPUCHIN (<i>CEBUS ALBIFRONS AEUATORIALIS</i>) IN WESTERN ECUADOR *F.A. Campos, K.M. Jack</p>	<p><b>337</b> 17:35-17:55 RHESUS MACAQUE IN CHINA AND HENAN PROVINCE J-D. Tian, H-F. Wang, Z-L. Wang, *J-Q. Lu</p>	
<p><b>303</b> 17:55-18:15 POPULATION GENETIC STRUCTURE AND RECENT BOTTLENECKS IN A WILD, HIGH-ALTITUDE, MACAQUE: STRONG EFFECTS OF GEOGRAPHY AND ANTHROPOGENIC FACTORS *D. Chakraborty, U. Ramakrishnan, A. Sinha</p>	<p><b>312</b> 17:55-18:15 DO RHESUS MACAQUES REASON ABOUT FALSE BELIEFS? *A.M. Ruiz, D.C. Marticorena, C. Mukerji, A. Goddu, L.R. Santos</p>	<p><b>321</b> 17:55-18:15 CHIMPANZEES CHOICE OF HAMMER WEIGHT IS BASED ON AN AVOIDANCE TO SMASH THE KERNEL *C. Schrauf, K. Fuwa, J. Call, S. Hirata</p>	<p><b>330</b> 17:55-18:15 CONSERVATION OF THE NORTHERN MURIQUI, BRAZIL *F.R. Melo</p>	<p><b>338</b> 17:55-18:15 CONSERVATION STATUS OF GOLDEN LANGUR IN ASSAM, INDIA *J. Biswas, S. Ghose, A. Sangma, P.C. Ray, J. Das, N. Das</p>	
<p><b>304</b> 18:15-18:35 DISENTANGLING THE COMPLEX POPULATION HISTORY OF ORANGUTANS *A. Nater, N. Arora, P. Nietlisbach, J. Pamungkas, C. van Schaik, M. Krützen</p>	<p><b>313</b> 18:15-18:35 CHIMPANZEES HELP CONSPECIFICS OBTAIN FOOD AND NON-FOOD ITEMS *A. P. Melis, F. Warneken, K. Jensen, A. Schneider, J. Call, M. Tomasello</p>	<p><b>322</b> 18:15-18:35 HAND PREFERENCES IN 94 BONOBOS (<i>PAN PANISCUS</i>) FOR: SPONTANEOUS DAILY ACTIONS, BIMANUAL COORDINATION ("UBE TASK"), TOOL-USE (PROBE), INDUCED GESTURES (BEGGING). *A.S. Chapelain</p>	<p><b>331</b> 18:15-18:35 PREDICTORS OF OCCURRENCE OF FOUR PRIMATE SPECIES ON A HIGHLY FRAGMENTED LANDSCAPE IN BRAZIL *R.G.T. da Cunha, E. Hasui, L.L.C.Z. Jardim, L.G. da Silva</p>	<p><b>339</b> 18:15-18:35 CAN WE SAVE THE BANDED LEAF MONKEYS (<i>PRESBYTIS FEMORALIS</i>) IN SINGAPORE? *A. Ang, R. Meier</p>	
<p><b>305</b> 18:35-18:55 MALE-SPECIFIC MARKERS REVEAL SEX-BIASED DISPERSAL IN ORANG-UTANS (<i>PONGO</i> SPP.) *P. Nietlisbach, M. Krützen</p>	<p><b>314</b> 18:35-18:55 THIRD PARTY PUNISHMENT IN CHIMPANZEES (<i>PAN TROGLODYTES</i>) AND HUMAN CHILDREN *K. Riedl, K. Jensen, J. Call, M. Tomasello</p>	<p><b>323</b> 18:35-18:55 LATERALITY OF MANUAL ACTIONS IN SUBSTRATE USE BY CAPTIVE TUFTED CAPUCHIN MONKEYS (<i>CEBUS APELLA</i>) *Y. Sato, Y. Fujimori, M. Hayashi</p>	<p><b>332</b> 18:35-18:55 STRATEGIC PLANNING FOR BRAZILIAN PRIMATES CONSERVATION: ADVANCES AND PRIORITIES *L. Jerusalinsky</p>	<p><b>340</b> 18:35-18:55 CURRENT STATUS OF BLACK-SHANKED DOUC IN VIETNAM *H.M. Duc, H.H. Covert, T.V. Bang</p>	
<p><b>306</b> 18:55-19:15 DEMOGRAPHIC HISTORY AND GENETIC DIFFERENTIATION IN CHIMPANZEES FROM THE GULF OF GUINEA REGION *S. Locatelli, L. Ghobrial, M.K. Gonder</p>	<p><b>315</b> 18:55-19:15 CHIMPANZEES SHOW IN-GROUP-OUT-GROUP BIAS IN CONTAGIOUS YAWNING *M.W. Campbell, F.B.M. de Waal</p>	<p><b>324</b> 18:55-19:15 CONSISTENCY IN RIGHT-HANDEDNESS FOR GESTURAL COMMUNICATION ACROSS TIME AND ACROSS DIFFERENT GROUPS OF CAPTIVE BABOONS AND CHIMPANZEES *A. Meguerditchian, S. Molesti, J. Vauclair, W.D. Hopkins</p>			

# 15th

## September

Wednesday

10:40 - 12:40

### Oral Session

\*20min per paper

CT-A	CT-B	CT-C	CT-D	EN-A
<p><b>CT-A-15M</b> Animal Welfare <b>WELFARE CONCERNS IN ANIMAL TRANSPORT AND RELOCATION</b> Chairs: S.J. Schapiro &amp; K. Wimberger</p>	<p><b>CT-B-15M</b> Morphology &amp; Phylogeny <b>MORPHOLOGY OF LEMURS AND MONKEYS</b> Chair: C. Workman</p>	<p><b>CT-C-15M</b> Veterinary Medicine <b>DISEASE TRANSMISSION IN THE WILD AND CAPTIVITY</b> Chairs: G.A. Engel &amp; J. Singh</p>		<p><b>EN-A-15M</b> Conservation <b>CONSERVATION OF PROSIMIANS</b> Chairs: S. Radhakrishna &amp; A. Jolly</p>
<p><b>342</b> 10:40-11:00 EFFECTS OF TRANSPORT ON BEHAVIORAL AND PHYSIOLOGICAL PARAMETERS IN CHIMPANZEES *S.J. Schapiro, S.P. Lambeth, L.E. Williams, B.N. Nehete, P.N. Nehete</p>	<p><b>348</b> 10:40-11:00 THE HADROPITHECUS CONUNDRUM - SOLVED *L.R. Godfrey, E.R. Dumont</p>	<p><b>353</b> 10:40-11:00 SYNANTHROPIC PRIMATES AND PATHOGEN HOST SWITCHES: ENTEROVIRUSES IN BANGLADESH L. Jones-Engel, *G. Engel, M.M. Feeroz, M. Pallansch, S. Oberste</p>		<p><b>359</b> 10:40-11:00 COPING IN A DEGRADED HABITAT: BEHAVIORAL ECOLOGY OF A POPULATION OF GREATER BAMBOO LEMURS (<i>PROLEMUR SIMUS</i>) IN IVATO, SOUTH-EASTERN MADAGASCAR *E. Larney, R.R. Rafaliarison, P.C. Wright</p>
<p><b>343</b> 11:00-11:20 ALTERATIONS IN AGONISTIC AND ABNORMAL BEHAVIOUR AFTER RELOCATION OF EX-LABORATORY CHIMPANZEES *E. Schippers, G. Kranendonk, D.R. van Gennep</p>	<p><b>349</b> 11:00-11:20 Canceled</p>	<p><b>354</b> 11:00-11:20 POTENTIAL PARASITE EXCHANGES BETWEEN CHIMPANZEES AND HUMANS IN GOMBE NATIONAL PARK, TANZANIA *J.S. Bakuza, G. Nkwengulila</p>		<p><b>360</b> 11:00-11:20 EARTHWATCH VOLUNTEERS HAVE MADE A DIFFERENCE IN SAVING THE ENDANGERED BLACK-AND-WHITE RUFFED LEMURS OF MADAGASCAR *J.H. Ratsimbazafy, F.B. Ralainasolo</p>
<p><b>344</b> 11:20-11:40 VISUAL AND TACTILE CONTACT DECREASES STRESS DURING TRANSPORTATION OF NON-HUMAN PRIMATES Y. Paramastri, J. Pamungkas, S.S. Fard, A. Klockars, J. Hau, *H-E. Carlsson</p>	<p><b>350</b> 11:20-11:40 RE-EVALUATION OF THE NOMENCLATURE OF THE BLACK-FACED UACARIS (CACAJAO MELANOCEPHALUS GROUP, SENSU HERSHKOVITZ, 1987) S.F. Ferrari, *P.G. Guedes, W.M.B. Figueiredo, A.A. Barnett</p>	<p><b>355</b> 11:20-11:40 GASTROINTESTINAL PARASITES OF INDIGENOUS AND INTRODUCED PRIMATE SPECIES OF RUBONDO ISLAND NATIONAL PARK, TANZANIA WITH EMPHASIS ON <i>BLASTOCYSTIS</i> INFECTIONS *K.J. Petrzalkova, J. Petrasova, M. Uzlíkova, M. Kostka, M.A. Huffman, M.I. Mapua, L. Bobakova, V. Mazoch, J. Singh, T. Kaur, D. Modry</p>		<p><b>361</b> 11:20-11:40 THE IMPORTANCE OF PRE-RELEASE MONITORING IN SLOW LORIS REINTRODUCTION PROGRAMMES: A CASE STUDY FROM JAVA (<i>NYCTICEBUS JAVANICUS</i>) *R.S. Moore, K.A.I. Nekaris</p>
<p><b>345</b> 11:40-12:00 POST-RELEASE SUCCESS OF TWO REHABILITATED VERVET MONKEY (CHLOROCEBUS AETHIOPS) TROOPS IN KWAZULU-NATAL, SOUTH AFRICA *K. Wimberger, C.T. Downs, M.R. Perrin</p>	<p><b>351</b> 11:40-12:00 POSITIONAL BEHAVIOR OF DELACOUR'S LANGURS (TRACHYPITHECUS DELACOURI) IN NORTHERN VIETNAM *C. Workman</p>	<p><b>356</b> 11:40-12:00 MOTHER-TO-CHILD TRANSMISSION OF SIV IS RARE IN NATURALLY INFECTED SOOTY MANGABEYS J.G. Else, T. Meeker, A. Chahroudi, *G. Silvestri</p>		<p><b>362</b> 11:40-12:00 STATUS &amp; CONSERVATION OF BENGAL SLOW LORIS <i>NYCTICEBUS BENGALENSIS</i> IN NORTHEAST INDIA *N. Das, J. Biswas, J. Das, P.C. Ray, A. Sangma, K.A. Nekaris, P.C. Bhattacharjee</p>
<p><b>346</b> 12:00-12:20 EFFECTS OF RELOCATION ON IMMUNOLOGICAL AND PHYSIOLOGICAL MEASURES IN TWO CAPTIVE NON-HUMAN PRIMATE SPECIES: SQUIRREL AND OWL MONKEYS *L.E. Williams, S.J. Schapiro, P.N. Nehete, B. Behete, S. Lambeth</p>	<p><b>352</b> 12:00-12:20 PHYSICAL IMPAIRMENT AND BEHAVIOR IN FREE-RANGING ADULT <i>MACACA FUSCATA</i> FEMALES *S.E. Turner, L.M. Fedigan, J.F. Addicott, H.D. Matthews</p>	<p><b>357</b> 12:00-12:20 AIRBORNE MYCOBACTERIUM AVIUM-INFECTION IN A GROUP OF REDSHANKED DOUC LANGURS (PYGATHRIX NEMAEUS NEMAEUS) *R. Plesker, K. Teschner, O. Behlert, E. Prenger-Berninghoff, D. Hillemann</p>		<p><b>363</b> 12:00-12:20 DISTRIBUTION AND CONSERVATION STATUS OF SLENDER LORIS IN INDIA *S. Radhakrishna, H.N. Kumara, A. Sinha</p>
<p><b>347</b> 12:20-12:40 TRADE IN NIGHT MONKEYS IN THE BRAZIL-COLOMBIA-PERU TRI-BORDER AREA: INTERNATIONAL WILDLIFE TRADE REGULATIONS ARE INEFFECTIVELY ENFORCED *A.M. Maldonado, V. Nijman, S.K. Bearder</p>		<p><b>358</b> 12:20-12:40 CLINICAL CASES OF NON HUMAN PRIMATES HOUSED AT THE "ENTRE DE PRIMATOLOGIE-UdS", (STRASBOURG, FRANCE) IN 2008-2009. *P. Regnard, J-M. Héliès, F. Wanert</p>		

EN-B	EN-C	EN-D	LE-A	LE-B	LE-C
<p><b>EN-B-15M</b> Ecology &amp; Behavior <b>FEEDING ECOLOGY 2 - ASIA</b> Chairs: N. Swapna &amp; V.N. Thanh</p>	<p><b>EN-C-15M</b> Ecology &amp; Behavior <b>SOCIAL ORGANIZATION AND HABITAT USE</b> Chairs: M.A. Van Noordwijk &amp; R. Matsuda Goodwin</p>	<p><b>EN-D-15M</b> Ecology &amp; Behavior <b>SOCIAL AFFILIATION AND STRESS REGULATION</b> Chairs: N.E. Newton-Fisher &amp; E. Polizzi di Sorrentino</p>	<p><b>LE-A-15M</b> Psychology <b>LEARNING IN SOCIAL CONTEXT 2</b> Chairs: S. Yamamoto &amp; C. R. Menzel</p>	<p><b>LE-B-15M</b> Psychology <b>AFFECTIVE PROCESSES</b> Chairs: H. Ferdowsian &amp; K. Slocombe</p>	
<p><b>364</b> 10:40-11:00 FEEDING ECOLOGY OF THE RED SHANKED DOUC LANGUR (PYGATHRIX NEMAEUS) AT SON TRA NATURE RESERVE, VIETNAM *L.K. Lippold, V.N. Thanh, N.T. Dinh, T.N. Xuan, H.L. Thanh, D.H. Ngoc</p>	<p><b>370</b> 10:40-11:00 RELATIONSHIPS, RELATEDNESS AND RANGE OVERLAP AMONG FEMALE BORNEAN ORANGUTANS *M.A. van Noordwijk, N. Arora, E.P. Willems, M. Krützen, J. Pamungkas, S.S. Utami Atmoko, C.P. van Schaik</p>	<p><b>375</b> 10:40-11:00 GROOMING RECIPROCITY IN WILD MALE CHIMPANZEES *N.E. Newton-Fisher, P.C. Lee</p>	<p><b>381</b> 10:40-11:00 POSSIBLE CUMULATIVE CULTURE IN CHIMPANZEES: INVENTION, MODIFICATION, AND SOCIAL LEARNING OF TOOL-USE TECHNIQUE *S. Yamamoto, G. Yamakoshi, T. Humle, M. Tanaka, T. Matsuzawa</p>	<p><b>387</b> 10:40-11:00 INTERPRETING PRIMATE REACTIONS DURING HABITUATION: OBSERVER-PRIMATE RELATIONSHIP IN THE FIELD. *F. Jankowski</p>	
<p><b>365</b> 11:00-11:20 FEEDING BEHAVIOUR OF GREY-SHANKED DOUC MONKEYS IN VIETNAM *T.L. Ha, H.V. Tran, T.T. Nguyen</p>	<p><b>371</b> 11:00-11:20 BEYOND SOCIAL MONOGAMY: DNA-FINGERPRINTING REVEALS VARIABLE MATING BEHAVIOUR IN LARIANG TARSIERS. *C. Driller, D. Perwitasari-Farajallah, J. Pamungkas, H. Zischler, S. Merker</p>	<p><b>376</b> 11:00-11:20 THE FUNCTIONS OF MUTUAL GROOMING AMONG WILD CHIMPANZEES *Z.P. Machanda, I.C. Gilby, R.W. Wrangham</p>	<p><b>382</b> 11:00-11:20 OBSERVATIONAL LEARNING OF TOOL CONSTRUCTION IN YOUNG CHILDREN AND CHIMPANZEES *E.E. Price, A. Whiten</p>	<p><b>388</b> 11:00-11:20 Canceled</p>	
<p><b>366</b> 11:20-11:40 FEEDING BEHAVIOR OF PROBOSCIS MONKEYS (NASALIS LARVATUS) IN ISOLATED MANGROVES HABITAT OF SABAH (NORTHERN BORNEO), MALAYSIA *J. Tangah, H. Bernard</p>	<p><b>372</b> 11:20-11:40 GROUP STRUCTURES OF CERCOPIHTECUS MONA IN THE LAMA FOREST OF THE REPUBLIC OF BENIN *R. Matsuda Goodwin</p>	<p><b>377</b> 11:20-11:40 RECONCILIATION REDUCES POST-CONFLICT ANXIETY IN CAPUCHIN MONKEYS *E. Polizzi di Sorrentino, G. Schino, E. Visalberghi, F. Aureli</p>	<p><b>383</b> 11:20-11:40 IMITATION OF A DISABLED INDIVIDUAL'S ACTIONS IN WILD CHIMPANZEES *C. Hobaite, R.W. Byrne</p>	<p><b>389</b> 11:20-11:40 A COMPARISON OF PSYCHIATRIC SYMPTOMS AMONG CHIMPANZEES LIVING IN THE WILD AND SANCTUARIES *H. Ferdowsian, D. Durham</p>	
<p><b>367</b> 11:40-12:00 BROAD DIETARY REPERTOIRE OF FRANÇOIS LANGUR AT MAYANGHE NATURE RESERVE, CHINA, AND IMPLICATIONS FOR FOOD CHOICE AND CONSERVATION *G. Hu</p>	<p><b>373</b> 11:40-12:00 SPACING PATTERN OF PROBOSCIS MONKEY GROUPS AT SLEEPING SITES *T. Murai</p>	<p><b>378</b> 11:40-12:00 SOCIAL BEHAVIOR AND STRESS IN ADULT MALE RHESUS MONKEYS OF CAYO SANTIAGO *M.V. Rakhovskaya, M. Heistermann</p>	<p><b>384</b> 11:40-12:00 TRANSMISSION OF EXPERIMENTALLY-SEEDED INFORMATION IN FREE-LIVING COMMON MARMOSETS *T. Gunhold, T. Bugnyar</p>	<p><b>390</b> 11:40-12:00 AGE-RELATED RISK AND THE EXPRESSION OF PSYCHOLOGICAL SYMPTOMS AMONG CHIMPANZEES *D.L. Durham, H. Ferdowsian</p>	
<p><b>368</b> 12:00-12:20 SEASONAL AND INTER-ANNUAL CHANGES IN GIBBON FOODS LEAD TO UNPREDICTABLE SHORTAGES W.Y. Brockelman, *A. Nathalang</p>	<p><b>374</b> 12:00-12:20 LIVING ARCHAEOLOGY: EVIDENCE OF SPECIFIC BED-SITE RE-USE IN WILD CHIMPANZEES *F.A. Stewart, J.D. Pruett</p>	<p><b>379</b> 12:00-12:20 ASSESSMENT OF SOCIAL STRESSORS AMONG WILD FEMALE BARBARY MACAQUES (MACACA SYLVANUS) THROUGH THE MEASUREMENT OF SELF-SCRATCHING AND FAECAL GLUCOCORTICOIDS *S.S.K. Kaburu, S. Semple, B. Majolo, A. Maclarnon</p>	<p><b>385</b> 12:00-12:20 SOCIAL LEARNING OF A VOCAL SIGNAL IN WILD CHIMPANZEES *M.N.C. Laporte, K. Zuberbühler</p>	<p><b>391</b> 12:00-12:20 CAPUCHIN MONKEYS REASON ABOUT EMOTIONAL VALENCE OF AN OBJECT WHICH ELICITS CONSPECIFIC EXPRESSIONS *Y. Morimoto, K. Fujita</p>	
<p><b>369</b> 12:20-12:40 GOUGING (PLANTS) FOR A LIVING: EXUDATORY IN THE BENGAL SLOW LORIS NYCTICEBUS BENGALENSIS *N. Swapna, S. Radhakrishna, A.K. Gupta, A. Kumar</p>		<p><b>380</b> 12:20-12:40 CORTISOL LEVELS IN THREE SPECIES OF TUFTED CAPUCHIN MONKEYS LIVING IN DIFFERENT HABITATS *O. Mendonça-Furtado, M.B.C. de Souza, P. Izar</p>	<p><b>386</b> 12:20-12:40 ROLES OF MEMORY AND ENVIRONMENTAL CONTEXT IN CHIMPANZEE COMMUNICATION *C.R. Menzel</p>	<p><b>392</b> 12:20-12:40 CHIMPANZEES EXTRACT SOCIAL INFORMATION FROM AGONISTIC SCREAMS *K.E. Slocombe, T. Kaller, J. Call, K. Zuberbühler</p>	

# 15th

## September

Wednesday

13:30 - 16:00

### Symposium & Workshop

CT-A	CT-B	CT-C	CT-D	EN-A
<p><b>CT-A-15A [393-S]</b>  <b>Session 1</b>            Symposium  <b>VARIATION AND EVOLUTION OF PRIMATE COLOR VISION REVEALED BY CROSS-DISCIPLINARY STUDIES</b>  <i>S. Kawamura, A.D. Melin</i></p> <p>OPENING REMARKS  <i>A.D. Melin</i></p> <p><b>394</b> 13:35-14:00            DISCOVERY AND EVALUATION OF PRIMATE COLOR VISION POLY-MORPHISMS  <i>*G.H. Jacobs</i></p> <p><b>395</b> 14:00-14:25            THE ECOLOGY OF PRIMATE COLOR VISION  <i>*D. Osorio</i></p> <p><b>396</b> 14:25-14:50            CONSIDERING VISUAL SYSTEMS WHEN EXPLORING PRIMATES AND COLOR  <i>*M. Stevens, J.P. Higham</i></p> <p><b>397</b> 14:50-15:15            THE VISUAL ECOLOGY OF NEOTROPICAL PRIMATES: FOOD SELECTION, PREDATION AVOIDANCE AND REPRODUCTION  <i>*D.M.A. Pessoa, V.F. Pessoa</i></p> <p><b>398</b> 15:15-15:40            THE VISUAL ECOLOGY OF NOCTURNAL PRIMATES  <i>*G.L. Moritz, N.J. Dominy</i></p> <p><b>399</b> 15:40-16:00            DIETARY SELECTIVITY BY WHITE-FACED CAPUCHINS: HOW IMPORTANT ARE COLOURFUL FRUITS?  <i>*A.D. Melin, L.M. Fedigan, N. Parr, S. Kawamura</i></p>	<p><b>CT-B-15A [400-S]</b>            Symposium  <b>HUMAN-MACAQUE INTERACTIONS: TRADITIONAL AND MODERN PERSPECTIVES ON COOPERATION AND CONFLICT</b>  <i>S. Radhakrishna, A. Sinha</i></p> <p>HUMAN-MACAQUE INTERACTIONS: INTRODUCTION  <i>S. Radhakrishna and A. Sinha</i></p> <p><b>401</b> 13:35-13:55            MACAQUE-HUMAN INTERACTIONS IN SRI LANKA  <i>*M.A. Huffman, C.A.D. Nahallage</i></p> <p><b>402</b> 13:55-14:15            RHESUS MACAQUE-HUMAN INTERACTIONS IN URBAN AND RURAL BANGLADESH: A COMPARATIVE ASSESSMENT  <i>*M.F. Jaman, M.A. Huffman</i></p> <p><b>403</b> 14:15-14:35            COEXISTENCE WITH "PEST MONKEYS": CONFLICT-COPING IN JAPAN  <i>*Y. Maruyama</i></p> <p><b>404</b> 14:35-14:55            WHY WOULD ANYONE WANT A MACAQUE AS A PET?  <i>G. Engel, *L. Jones-Engel</i></p> <p><b>405</b> 14:55-15:15            HUMAN IMPACT ON LONG-TAILED MACAQUES IN THAILAND  <i>*S. Malaivijitnond, Y. Vazquez, Y. Hamada</i></p> <p><b>406</b> 15:15-15:35            OF MONKEYS AND MEN: HUMAN-RHESUS MACAQUE CONFLICT IN NORTHERN INDIA  <i>*S. Chaudhuri, A. Sinha</i></p> <p><b>407</b> 15:35-15:55            THE MACAQUE-HUMAN INTERFACE: CONFLICT, COOPERATION, AND THE POSSIBILITIES OF SUSTAINABLE COMMUNITIES  <i>*A. Fuentes</i></p> <p>CONCLUDING REMARKS</p>	<p><b>CT-C-15A [408-S]</b>            Symposium  <b>A NATIONAL BONOBO CONSERVATION STRATEGY: ARE WE READY FOR SOME SPATIAL MODELLING?</b>  <i>J. Dupain</i></p> <p>INTRODUCTION  <i>J. Dupain, H. Kuehl, J. Nackoney, D. Williams</i></p> <p><b>409</b> 13:35-13:55            HARNESSING SPATIAL TOOLS FOR LANDSCAPE-LEVEL BONOBO CONSERVATION PLANNING IN THE MARINGA-LOPORI-WAMBA LANDSCAPE, DRC  <i>*J.R. Nackoney, D.G. Williams</i></p> <p><b>410</b> 13:55-14:15            ECOLOGICAL AND SOCIO-ECONOMIC CORRELATES OF RANGE OCCUPATION BY BONOBOS: A SPATIAL ANALYSIS  <i>*J.A. Hart, F. Grossmann, A. Vosper, R. Beyers, N. January</i></p> <p><b>411</b> 14:15-14:35            PREDICTING BONOBO (<i>PAN PANISCUS</i>) DISTRIBUTION: INFLUENCE OF NEST HABITAT VS. HUMAN PRESENCE.  <i>*G.E. Reinartz, P. Guislain, B. Bunda, I. Edmond, B. Nduzo, N. Reinartz, S. McLaughlin, B. Michel, N. Mozart, B. Ghislain, K-W. Jose</i></p> <p><b>412</b> 14:35-14:55            HABITAT MODELING OF BONOBOS IN RELATION TO BUSHMEAT HUNTING, SLASH AND BURN AGRICULTURE, AND TIMBER HARVEST  <i>*J.R. Hickey, T.M. Eppley, J. Carroll, N.N. Nibbelink</i></p> <p><b>413</b> 14:55-15:15            THE IMPACT OF BUSHMEAT HUNTING ON BONOBO PRESENCE  <i>*T.K. Hart, J.A. Hart, F. Grossmann, A. Vosper</i></p> <p><b>414</b> 15:15-15:35            THE LARGE SCALE PERSPECTIVE: A RANGE-WIDE META-ANALYSIS OF BONOBO SURVEY DATA  <i>*H.S. Kuehl, J. Nackoney, D. Williams, J. Dupain</i></p> <p>DISCUSSION AND CONCLUDING REMARKS</p>	<p><b>CT-D-15A [415-W]</b>            Workshop  <b>WARMING WORLD: CAN GIBBON TACKLE CLIMATE CHANGE ?</b>  <i>J. Das, J. Biswas, S. Barua</i></p> <p>OPENING REMARKS  <i>A. Jolly</i></p> <p><b>417</b> 13:35-13:55            NICHE SEPARATION BETWEEN RINGTAILED AND BROWN LEMURS AT BERENTY RESERVE - MADAGASCAR  <i>*J. Razafindramanana, G. Donati, A. Jolly</i></p> <p><b>418</b> 13:55-14:15            FEEDING ECOLOGY AND RANK IN RING-TAILED LEMURS (<i>LEMUR CATTIA</i>) IN THE BERENTY RESERVE, SOUTHEASTERN MADAGASCAR  <i>*T. Soma</i></p> <p><b>419</b> 14:15-14:35            RANGING BEHAVIOR AND SOCIAL DECISION-MAKING OF TWO SPECIES OF LEMURS AT BERENTY RESERVE, MADAGASCAR  <i>*F.L. Dolins, A.B. Jolly</i></p> <p><b>420</b> 14:35-14:55            MALE REPRODUCTIVE STRATEGIES OF RING-TAILED LEMURS (<i>LEMUR CATTIA</i>) AT BERENTY RESERVE, MADAGASCAR  <i>*S. Ichino, Y. Kawamoto, N. Miyamoto, H. Hirai, N. Koyama</i></p> <p><b>421</b> 14:55-15:15            HOME RANGE EXPLOITATION AND COHABITATION OF NATIVE RINGTAILED LEMURS (<i>Lemur catta</i>) WITH INTRODUCED BROWN LEMURS AT THE BERENTY RESERVE, MADAGASCAR  <i>*S.M. Raharison, H. Rasamimanana</i></p> <p><b>422</b> 15:15-15:35            THE MODEL OF THE OPTIMAL DIET IN THREE SYMPATRIC LEMUR SPECIES IN THE BERENTY RESERVE.  <i>*H.R. Rasamimanana, V. Razoliarisoa, L. Tarnaud</i></p> <p><b>423</b> 15:35-15:55            LOW ENERGY OUTPUT AND FITNESS RING-TAILED LEMURS AND BROWN LEMURS  <i>*B. Simmen, F. Bayart, H. Rasamimanana, A. Zahariev, S. Blanc, P. Pasquet</i></p> <p>GENERAL DISCUSSION</p>	

## EN-B

## EN-B-15A [424-S]

## Session 1

Symposium

## WHERE NEXT? GROUP COORDINATION AND DECISION-MAKING IN PRIMATES

A.J. King, C. Sueur

SESSION INTRODUCTION  
A. King

## 425 13:40-14:00

FOLLOW YOUR SUBORDINATES? TRAVEL DECISIONS AFTER INTERGROUP ENCOUNTERS IN GROUPS OF WILD CHACMA BABOONS (*PAPIO URSINUS*) - A PLAYBACK EXPERIMENT  
\*R. Noser

## 426 14:00-14:20

COORDINATION PROCESSES AND DECISION-MAKING IN GROUPS OF WILD RED-FRONTED LEMURS (*EULEMUR FULVUS RUFUS*)  
\*L.W. Pyritz, C. Fichtel, P.M. Kappeler

## 427 14:20-14:40

IMPACT OF SOCIAL AND ECOLOGICAL FACTORS ON DECISION MAKING DURING COLLECTIVE MOVEMENTS OF WILD JAPANESE MACAQUES  
\*A. Jacobs, K. Watanabe, O. Petit

## 428 14:40-15:00

CO-DOMINANT FEMALES LEAD GROUP MOVEMENTS AND ACTIVITIES IN A WILD POPULATION OF WHITE-HANDED GIBBONS  
\*C. Barelli

## 429 15:00-15:20

VARIATION IN INTERINDIVIDUAL SPACING AND BEHAVIORAL CORRELATES IN A GROUP OF JAPANESE MACAQUES  
\*H. Sugiura, Y. Shimooka, Y. Tsuji

## 430 15:20-15:40

GROUP COMPOSITION OF GUINEA BABOONS (*PAPIO PAPIO*) AT A WATER PLACE SUGGESTS A FLUID FISSION-FUSION SOCIAL ORGANIZATION  
\*A. Patzelt, G. Fickenscher, S. Diedhou, B. Camara, D. Zinner, J. Fischer

## EN-C

## EN-C-15A [431-S]

Symposium

## BEHAVIOR AND INTELLIGENCE OF NEW-WORLD MONKEYS

K. Fujita, J.R. Anderson

## INTRODUCTION

## 432 13:36-13:52

MEMORY AWARENESS IN TUFTED CAPUCHIN MONKEYS  
\*K. Fujita

## 433 13:52-14:08

VIDEO, PREFERENCES, AND LEARNING IN NEW WORLD MONKEYS  
\*J.R. Anderson, H. Kuroshima, K. Fujita

## 434 14:08-14:24

IMITATION AND SOCIAL BONDING IN TUFTED CAPUCHIN MONKEYS  
\*A. Paukner, P. Ferrari, E. Visalberghi, S.J. Suomi

## 435 14:24-14:40

SOCIAL CONTAGION AS A POTENTIAL MECHANISM FOR TRANSMISSION OF SOCIAL CULTURE IN COMMON MARMOSETS  
\*C.F.I. Watson, K. Morris, C.A. Caldwell

## 436 14:40-14:56

PERCEPTION OF OTHERS' ACTIONS: EFFECT OF ONE'S OWN ACTIONS IN CAPUCHIN MONKEYS  
\*H. Kuroshima, A. Paukner, I. Kaiser, S.J. Suomi, D.M. Fragaszy, K. Fujita

## 437 14:56-15:12

FISSION-FUSION DYNAMICS AND COGNITION: SPIDER MONKEYS AS A KEY SPECIES  
\*F. Amici, F. Aureli, I. Capellini, J. Call

## 438 15:12-15:28

COMPARING THE MANIPULATIVE ABILITIES OF CEBUS APELLA AND CEBUS CAPUCINUS: INSIGHTS INTO THEIR COGNITIVE SKILLS?  
\*C. Fruteau, S. Perry, O. Petit

## 439 15:28-15:44

AN EGG TODAY? OR A HEN TOMORROW? DELAY DISCOUNTING FOR PRIMARY AND SECONDARY REWARDS IN CAPUCHIN MONKEYS  
\*E. Addessi, F. Paglieri, V. Focaroli, E. Visalberghi

## 440 15:44-16:00

BODY PERCEPTION IN TUFTED CAPUCHIN MONKEYS (*CEBUS APELLA*)  
\*T. Matsuno, K. Fujita

## EN-D

## EN-D-15A [441-S]

## Session 1

Symposium

## THE EVOLUTION OF GIBBONS: MOLECULAR GENETICS, MORPHOLOGY, BEHAVIOR, AND THE FOSSIL RECORD

U.H. Reichard, C. Barelli, H. Hirai

## INTRODUCTION

U. Reichard, C. Barelli, H. Hirai

## 442 13:35-13:55

INTERGENERIC AND INTERSPECIFIC HYBRIDS IN GIBBONS: CHROMOSOMAL ASPECTS OF THE SMALL APE EVOLUTION  
S. Baicharoen, T. Miyabe-Nishiwaki, Y. Hirai, K. Duangsa-Ard, B. Siritaroonrat, \*H. Hirai

## 443 13:55-14:15

PHYLOGENY, TAXONOMY AND DISTRIBUTION OF CRESTED GIBBONS (GENUS *NOMASCUS*)  
\*C. Roos, K. Hammerschmidt, V.N. Thinh

## 444 14:15-14:35

GIBBON PHYLOGENY STILL LIES HIDDEN IN THE TREES: MOLECULAR GENETIC AND CHROMOSOMAL HYPOTHESES  
\*D.S. Woodruff

## 445 14:35-14:55

THE ROLE OF THE GIBBON FOSSIL RECORD IN PREDICTING RANGE CHANGES AND PHYLOGENY  
\*H.J. Chatterjee

## 446 14:55-15:15

HANGING FROM THE ARBOR VITAE: UNDERSTANDING THE GIBBON BRAIN  
\*C.E. MacLeod

## 447 15:15-15:35

THE EVOLUTION OF TECHNICAL INTELLIGENCE: PERSPECTIVES FROM THE HYLOBATIDAE  
\*C.L. Cunningham, J.R. Anderson, A.R. Mootnick

## 448 15:35-15:55

FEEDING ECOLOGY AND RESOURCE VISITATION PATTERN OF THE JAVAN GIBBON (*HYLOBATES MOLOCH*)  
\*S. Kim, S.M. Lappan, D. Rinaldi, J.C. Choe

## DISCUSSION SYMPOSIUM PART 1

## LE-A

## LE-A-15A [449-S]

Symposium

## EVOLUTION OF LATERALIZATION IN PRIMATES: CURRENT INSIGHTS FROM PROSIMIANS TO HUMANS

C. Blois-Heulin, E. Zimmermann

## INTRODUCTION

## 450 13:35-13:55

HAND PREFERENCE IN TREE SHREWS AND PROSIMIAN PRIMATES: A COMPARATIVE APPROACH  
\*E. Zimmermann, M. Joly-Radko, M. Scheumann

## 451 13:55-14:15

HAND PREFERENCE BY BLACK-AND-WHITE SNUB-NOSED MONKEYS (*RHINOPITHECUS BIETI*) IN CAPTIVITY: INFLUENCE OF TASKS AND SEXES  
\*J. Pan, W. Xiao, Q-K. Zhao

## 452 14:15-14:35

MANUAL LATERALITY IN 3 SPECIES OF CERCOPITHECIDES: INFLUENCE OF TASK COMPLEXITY  
\*C. Blois-Heulin, A. Laurence, A.S. Chapelain, C. Wallez

## 453 14:35-14:55

INFANTS' HANDEDNESS FOR GRASPING OR POINTING TO OBJECTS, AND LANGUAGE DEVELOPMENT  
J. Fagard, \*A-Y. Jacquet

## 454 14:55-15:15

LATERALITY OF COMMUNICATIVE SIGNALING IN NONHUMAN PRIMATES: IMPLICATIONS FOR THE ORIGINS OF LANGUAGE  
J. Vauclair, \*A. Meguerditchian

## 455 15:15-15:35

LATERALIZATION IN BROCA'S AND WERNICKE'S AREAS IN THE CHIMPANZEE BRAIN  
W.D. Hopkins, \*J.P. Tagliatella

## CONCLUSION

## LE-B

## LE-B-15A [456-S]

Symposium

## GREAT APE HEALTH: THREATS AND SOLUTIONS

T.R. Gillespie, F.H. Leendertz

INTRODUCTION TO THE SESSION  
T.R. Gillespie, F.H. Leendertz

## 457 13:36-13:54

NON INVASIVE MONITORING OF RESPIRATORY VIRUSES IN WILD CHIMPANZEES  
\*S. Kónnig, C. Boesch, F.H. Leendertz

## 458 13:54-14:12

TRANSMISSION OF HUMAN BACTERIA TO WILD GREAT APES: *ESCHERICHIA COLI* AS A MODEL SYSTEM  
\*I.B. Rwego, T.R. Gillespie

## 459 14:12-14:30

TRANSMISSION OF HUMAN PARASITES TO WILD GREAT APES  
\*T.R. Gillespie, D. Morgan, E.V. Lonsdorf, D.A. Travis, C. Sanz, P. Reed, K. Cameron

## 460 14:30-14:48

IMPROVING PRIMARY HEALTH CARE FOR PEOPLE AND LIVESTOCK TO AID APE CONSERVATION  
\*G. Kalema-Zikusoka, L. Gaffikin

## 461 14:48-15:06

PROFILE OF A RESPIRATORY OUTBREAK IN MOUNTAIN GORILLAS  
M. Cranfield, L. Spelman, M. Braum, K. Gilardi, L. Lowenstine, J.F. Kinani, G. Palacios, K.J. Stewart, I.W. Lipkin

## 462 15:06-15:24

MODELING INFECTIOUS DISEASE TRANSMISSION IN WILD PRIMATE POPULATIONS: A CASE STUDY WITH MOUNTAIN GORILLAS.  
\*C.A. Whittier, F.B. Nutter, J.O. Lloyd-Smith, P.L.F. Johnson, B.D. Slennning, M.K. Stoskopf

## 463 15:24-15:42

HEALTH MONITORING TOOLS FOR ILLUSIVE GREAT APE POPULATIONS  
\*P.E. Reed, A.U. Ondzie, C. Sanz, D. Morgan, T. Gillespie, N. Sullivan, S. Mulangu, K. Cameron

## 464 15:42-16:00

LOGGING CREATES UNANTICIPATED THREAT TO APE HEALTH AND CONSERVATION IN EQUATORIAL AFRICA  
T.R. Gillespie, D. Morgan, G. Vazquez-Prokopec, \*K.N. Cameron, T. Reed, C. Sanz

## LE-C

## LE-C-15A [465-W]

Workshop

## INNOVATIONS IN FIELD METHODS

E.P. Cunningham, T. Matsuzawa, P.C. Wright



15th  
September

Wednesday

16:15 - 18:45

Symposium &  
Workshop

CT-A	CT-B	CT-C	CT-D	EN-A
<p><b>CT-A-15A [393-S]</b>  <b>Session 2</b>  Symposium  <b>VARIATION AND EVOLUTION OF PRIMATE COLOR VISION REVEALED BY CROSS-DISCIPLINARY STUDIES</b>  <i>S. Kawamura, A.D. Melin</i></p> <p><b>466</b> 16:15-16:40  BEHAVIORAL TESTS OF COLOR VISION HYPOTHESES: WHERE WE HAVE BEEN AND WHERE WE SHOULD GO NEXT.  <i>*N.G. Caine</i></p> <p><b>467</b> 16:40-17:05  THE EFFECT OF SEX AND COLOUR VISION STATUS ON INSECT PREY CAPTURE EFFICIENCY BY CAPTIVE AND WILD TAMARINS (<i>SAGUINUS</i> SPP.)  <i>*A.C. Smith, A.K. SurrIDGE, M.J. Prescott, D. Osorio, N.I. Mundy, H.M. Buchanan-Smith</i></p> <p><b>468</b> 17:05-17:30  CHALLENGING ADVANTAGE OF TRICHROMACY IN FRUIT FORAGING BEHAVIOR OF WILD SPIDER MONKEYS  <i>*C. Hiramatsu, A.D. Melin, F. Aureli, C.M. Schaffner, M. Vorobyev, S. Kawamura</i></p> <p><b>469</b> 17:30-17:55  THE IMPLICATIONS OF COLOR VISION ON PREY CAPTURE STRATEGIES FOR WILD SQUIRREL MONKEYS (<i>SAIMIRI SCIUREUS</i>)  <i>*M.J. Montague, A. Di Fiore</i></p> <p><b>470</b> 17:55-18:20  POLYMORPHIC COLOUR VISION COMPARED AMONG LEMURS AND NEW WORLD MONKEYS  <i>*N.I. Mundy</i></p> <p><b>471</b> 18:20-18:40  A POPULATION GENETIC TEST OF BALANCING SELECTION FOR COLOR VISION VARIATION IN NEW WORLD MONKEYS  <i>*S. Kawamura, T. Hiwatashi, Y. Okabe, T. Tsutsui, C. Hiramatsu, A.D. Melin, H. Oota, C.M. Schaffner, F. Aureli, L.M. Fedigan, H. Innan</i></p> <p>CLOSING REMARKS  <i>S. Kawamura</i></p>	<p><b>CT-B-15E [472-S]</b>  Symposium  <b>JAPANESE MONKEYS AND THE JAPANESE PEOPLE: HISTORY AND ISSUES IN JAPANESE MONKEY CONSERVATION</b>  <i>Committee of Conservation and Animal Welfare, Primate Society of Japan Representative: T. Oi</i></p> <p><b>473</b> 16:15-16:45  THE JAPANESE PEOPLE AND THE JAPANESE MONKEY: HOW HAVE THE JAPANESE PEOPLE ASSOCIATED WITH MONKEYS?  <i>*Y. Mito</i></p> <p><b>474</b> 16:45-17:10  REVIEW OF JAPANESE MONKEY CONSERVATION: THEORY AND REALITY  <i>*T. Maruhashi</i></p> <p><b>475</b> 17:10-17:30  CASE STUDY REPORT: CROP DAMAGE BY JAPANESE MONKEYS  <i>*K. Suzuki, Y. Muroyama</i></p> <p><b>476</b> 17:30-17:45  CASE STUDY: FERAL NON-JAPANESE MONKEYS  <i>*Y. Kawamoto</i></p> <p>PANEL DISCUSSION  <i>D. Sprague and T. Oi</i></p>	<p><b>CT-C-15E [477-S]</b>  Symposium  <b>PARENTAL INVESTMENTS AND DEMANDS OF INFANTS</b>  <i>K. Yamada, K. Onishi</i></p> <p><b>478</b> 16:15-16:35  ALLOCATION OF MATERNAL AND ALLOMATERNAL FORAGING ASSISTANCE IN WILD GOLDEN LION TAMARINS  <i>*L. Rapaport</i></p> <p><b>479</b> 16:35-16:55  SOCIAL PLAY AND MATERNAL INTERVENTION IN FREE-RANGING RHESUS MACAQUES  <i>*A. Yanagi, C. Berman</i></p> <p><b>480</b> 16:55-17:15  MATERNAL VISUAL MONITORING IN JAPANESE MACAQUES: ALLOCATION OF MATERNAL INVESTMENT IN INFANT PROTECTION.  <i>*K. Onishi, M. Nakamichi</i></p> <p><b>481</b> 17:15-17:35  WHEN DOES A MOTHER CARRY HER INFANT IN JAPANESE MACAQUES?  <i>*M. Harasawa</i></p> <p><b>482</b> 17:35-17:55  DEALING WITH WEANING CONFLICT IN JAPANESE MACAQUES  <i>*K. Yamada, M. Nakamichi</i></p> <p><b>483</b> 17:55-18:15  HUMAN INFANTS USE POINTING GESTURES TO PROVOKE RESPONSES FROM CAREGIVERS  <i>*T. Kishimoto</i></p> <p>GENERAL DISCUSSION</p>	<p><b>CT-D-15E [484-W]</b>  Workshop  <b>DEVELOPING A NATIONAL BONOBO CONSERVATION STRATEGY USING SPATIAL MODELS FOR ACTION PLANNING</b>  <i>J. Dupain, J. Nackoney, D. Williams</i></p>	<p><b>EN-A-15E [485-S]</b>  Symposium  <b>PRIMATE ARCHAEOLOGY: PALAEOANTHROPOLOGY MEETS PRIMATOLOGY 3</b>  <i>W.C. McGrew</i></p> <p>INTRODUCTION</p> <p><b>486</b> 16:20-16:35  THE ROLE OF BODY SIZE IN NUT CRACKING IN BEARDED CAPUCHIN MONKEYS  <i>*E. Visalberghi, N. Spagnoletti, D. Fragaszy</i></p> <p><b>487</b> 16:35-16:50  STONE TOOLS FOR NUT CRACKING AND FOR DIGGING ROOTS AND TUBERS BY WILD CAPUCHIN MONKEYS IN SERRA DA CAPIVARA, BRAZIL  <i>*E.B. Ottoni, T. Falótico, M. Mannu</i></p> <p><b>488</b> 16:50-17:05  VARIABILITY IN KINEMATICS OF NUT-CRACKING IN CAPUCHINS AS A FUNCTION OF STONE WEIGHT, NUT SIZE AND INDIVIDUAL BODY WEIGHT  <i>*Q. Liu, D. Fragaszy, E. Visalberghi</i></p> <p><b>489</b> 17:05-17:20  A WINDOW INTO EARLY HOMININ EVOLUTION? CLUES TO THE ORIGINS OF TECHNOLOGICAL EVOLUTION AND BIPEDALITY FROM CHIMPANZEE FIELD EXPERIMENTS  <i>*S. Carvalho, *D. Biro, T. Matsuzawa, B. Richmond</i></p> <p><b>490</b> 17:20-17:35  AN APE'S VIEW OF THE OLDOWAN REVISITED  <i>*L.F. Marchant, R.A. Hernandez-Aguilar, W.C. McGrew, T.G. Wynne</i></p> <p><b>491</b> 17:35-17:50  RESIDUE ANALYSIS OF MODERN AND ANCIENT CHIMPANZEE POUNDING TOOLS FROM BOSSOU AND DIECKÉ, GUINEA: DEFINING A PRIMATE ARCHAEOLOGICAL SIGNATURE  <i>*M. Haslam, S. Carvalho, T. Matsuzawa</i></p> <p><b>492</b> 17:50-18:05  IS OLDOWAN TECHNOLOGY THE PRODUCT OF SOCIAL LEARNING?: EVIDENCE FROM THE TURKANA BASIN  <i>*D.R. Braun, J.W. Harris</i></p> <p><b>493</b> 18:05-18:20  MODELING THE BEHAVIOR OF THE EARLIEST HOMININS DRAWING ON THE NEW DISCIPLINE OF PRIMATE ARCHAEOLOGY  <i>*J.W.K. Harris, T. Matsuzawa, W.C. McGrew, E. Visalberghi, L. Marchant, S. Carvalho, D. Braun, A. Du, K. Barbour, A. Van Plantinga, J. Rodgers, C. Lyons</i></p> <p>GENERAL QUESTIONS AND DISCUSSION</p>

EN-B	EN-C	EN-D	LE-A	LE-B	LE-C
<p><b>EN-B-15A [424-S]</b></p> <p><b>Session 2</b></p> <p>Symposium</p> <p><b>WHERE NEXT? GROUP COORDINATION AND DECISION-MAKING IN PRIMATES</b></p> <p><i>A.J. King, C. Sueur</i></p> <p>SESSION INTRODUCTION</p> <p><b>494</b> 16:25-16:45 SELF-ORGANIZATION IN BIOLOGICAL SYSTEMS: FROM INDIVIDUAL DECISION TO GROUP COHESION AND POPULATION STRUCTURE <i>*J.L. Deneubourg, C. Sueur</i></p> <p><b>495</b> 16:45-17:05 THE UTILITY OF COMBINING FIELD OBSERVATIONS WITH THEORETICAL MODELS <i>*O. Petit</i></p> <p><b>496</b> 17:05-17:25 COLLECTIVE BEHAVIOUR IN HUMAN GROUPS: LEADERSHIP AND INFORMATION TRANSFER <i>*J.J. Faria, J.R.G. Dyer, S. Krause, C.R. Tosh, J. Krause</i></p> <p><b>497</b> 17:25-17:45 CHIMPANZEES' COORDINATION IN A 'STAG HUNT' GAME <i>*A.F. Bullinger, E. Wyman, A.P. Melis, M. Tomasello</i></p> <p><b>498</b> 17:45-18:05 UNDERSTANDING LEADERSHIP: HOW 'PURE RESEARCH' IS GUIDING CONSERVATION AND MANAGEMENT OF BABOONS IN THE CAPE PENINSULA, SOUTH AFRICA <i>*A.J. King, R. van Eeden, B. Kaplan, G. Cowlishaw, J. O'Riain</i></p> <p>GENERAL QUESTIONS AND DISCUSSION</p>	<p><b>EN-C-15E [499-S]</b></p> <p>Symposium</p> <p><b>CAPUCHIN EVOLUTION: COMPARING BEHAVIOR, MORPHOLOGY &amp; GENETICS ACROSS SPECIES</b></p> <p><i>J.W. Lynch Alfaro</i></p> <p><b>500</b> 16:15-16:35 PHYLOGEOGRAPHY AND GENETIC STRUCTURE OF CEBUS APELLA, C. ALBIFRONS AND C. CAPUCINUS BY MEANS OF DNA MICROSATELLITES AND mtDNA SEQUENCES <i>*M. Ruiz-García, M.I. Castillo</i></p> <p><b>501</b> 16:35-16:55 CAPUCHIN PHYLOGENETICS AND STATISTICAL PHYLOGEOGRAPHY: IMPLICATIONS FOR BEHAVIORAL EVOLUTION <i>*J. Lynch Alfaro, D. Schwachow, F. Santini, M.E. Alfaro</i></p> <p><b>502</b> 16:55-17:15 GENETIC DIVERSITY AND EVOLUTION OF THE ATLANTIC FOREST CAPUCHINS. <i>*R.A. Martinez, C. Goncalves de Oliveira, F.A. Gaiotto</i></p> <p><b>503</b> 17:15-17:35 CAPUCHINS OF THE PANTEPUY BIOGEOGRAPHIC REGION: CEBUS APELLA, C. OLIVACEUS, AND C. ALBIFRONS <i>*J.P. Boubli, J.L. Alfaro, I. Farias</i></p> <p><b>504</b> 17:35-17:55 CAPUCHINS IN NORTHEASTERN BRAZIL CAATINGA: LIMITS OF OCCURRENCE, AREA OF USE, AND DIET <i>*R.G. Ferreira, R.A. Emidio</i></p> <p><b>505</b> 17:55-18:15 SOCIECOLOGY OF TWO SPECIES OF TUFTED CAPUCHIN MONKEYS: CEBUS LIBIDINOSUS AND CEBUS NIGRITUS <i>*P. Izar, M.P. Verderane, O. Mendonça-Furtado</i></p> <p><b>506</b> 18:15-18:35 IS A FIXED OR PLASTIC RESPONSE TO ECOLOGICAL VARIATION THE KEY TO CAPUCHIN ADAPTABILITY? <i>*K. Wright, B. Wright, D. Fragaszy, P. Izar, M. Norconk</i></p> <p>SUMMARY AND DISCUSSION <i>J.W. Lynch Alfaro and R. Martinez</i></p>	<p><b>EN-D-15A [441-S]</b></p> <p><b>Session 2</b></p> <p>Symposium</p> <p><b>THE EVOLUTION OF GIBBONS: MOLECULAR GENETICS, MORPHOLOGY, BEHAVIOR, AND THE FOSSIL RECORD</b></p> <p><i>U.H. Reichard, C. Barelli, H. Hirai</i></p> <p><b>507</b> 16:15-16:35 GIBBONS AS PHYLETIC DWARFS <i>*S.M. Ford, M.G. Nowak</i></p> <p><b>508</b> 16:35-16:55 HYLOBATID POSITIONAL BEHAVIOR AND POSTCRANIAL ANATOMY: TERMINAL BRANCH FEEDING AND THE EVOLUTION OF HOMINOID ORTHOGRAHY. <i>*M.G. Nowak, U.H. Reichard</i></p> <p><b>509</b> 16:55-17:15 THE EVOLUTION OF THE SMALL APE NICHE <i>*N.G. Jablonski, G. Chaplin</i></p> <p><b>510</b> 17:15-17:35 ECOLOGICAL NICHE MODELLING OF THE SMALL APES - CONSTRAINTS ON GIBBON DISTRIBUTION AND HABITAT <i>*S.M. Cheyne, R.I.M. Dunbar</i></p> <p><b>511</b> 17:35-17:55 MOTHER-OFFSPRING OVERLAPPING DUETING IN GIBBONS <i>*H. Koda, C. Oyakawa, A. Lemasson</i></p> <p><b>512</b> 17:55-18:15 DO WILD GIBBONS USE GROOMING AS A COMMODITY? AN EXAMPLE OF ADAPTIVE SOCIAL BEHAVIOR <i>*T. Wolf, R. Mundry, C. Barelli</i></p> <p>CONCLUDING DISCUSSION</p>	<p><b>LE-A-15E [513-S]</b></p> <p>Symposium</p> <p><b>COGNITION IN THE WILD: EXPLORING ANIMAL MINDS WITH OBSERVATIONAL EVIDENCE</b></p> <p><i>R.W. Byrne, L.A. Bates</i></p> <p>WELCOME &amp; INTRODUCTION <i>R. Byrne &amp; L. Bates</i></p> <p><b>514</b> 16:21-16:39 USING OBSERVATIONAL DATA TO STUDY COGNITION: EXAMPLES FROM ELEPHANTS (LOXODONTA AFRICANA) AND PRIMATES. <i>*L.A. Bates, R.W. Byrne</i></p> <p><b>515</b> 16:39-16:57 FORAGING IN THE DARK: DO NOCTURNAL LEMURS PLAN THEIR ROUTES? <i>*M. Joly-Radko, R. Ramanankirahina, E. Zimmermann</i></p> <p><b>516</b> 16:57-17:15 WHAT'S THE PLAN? TRAVEL ROUTES AND CHANGE POINTS IN BABOONS. <i>*A. L. de Raad, R.A. Hill</i></p> <p><b>517</b> 17:15-17:33 REFERENTIAL GESTURAL COMMUNICATION IN WILD CHIMPANZEES (PAN TROGLODYTES): SIGNALLERS AND RECEIVERS <i>*S. Pika, J.C. Mitani</i></p> <p><b>518</b> 17:33-17:51 ORANGUTAN PANTOMIME: ELABORATING ON THE MESSAGE <i>*A.E. Russon, K. Andrews</i></p> <p><b>519</b> 17:51-18:09 ELEMENTAL VARIATION IN THE TOOL USING BEHAVIOR OF WILD CHIMPANZEES <i>*C.M. Sanz, D.B. Morgan</i></p> <p><b>520</b> 18:09-18:27 IS IT MORE BLESSED TO GIVE THAN TO TAKE? "SHARING" OF FOOD IN GREAT APES <i>*K. Liebal, J. Keil, D. Haun</i></p> <p><b>521</b> 18:27-18:45 DOLPHIN ALLIANCE NETWORKS <i>*R.C. Connor, M. Krutzen, W.S. Sherwin</i></p>	<p><b>LE-B-15E [522-S]</b></p> <p>Symposium</p> <p><b>DO INVESTIGATIONS OF PRIMATE COGNITION PROMOTE PRIMATE WELFARE?</b></p> <p><i>K.A. Leightly, E.V. Lonsdorf</i></p> <p>WELCOME AND INTRODUCTION</p> <p><b>523</b> 16:19-16:36 CHIMPANZEE STUDIES IN THE LAB AND THE ZOO <i>*I. Adachi</i></p> <p><b>524</b> 16:36-16:53 ACCOUNTING FOR SOCIAL COMPARISON WHEN CONSIDERING PRIMATE WELL-BEING <i>*S.F. Brosnan</i></p> <p><b>525</b> 16:53-17:10 THE ENRICHING EFFECTS OF FORAGING TASKS IN RESEARCH WITH CAPTIVE ANIMALS <i>*J. Crast, D. Fragaszy</i></p> <p><b>526</b> 17:10-17:27 ASSESSING WELFARE: A NEW COGNITIVE RESEARCH PROGRAMME FOR THE CHIMPANZEES (PAN TROGLODYTES) OF BUDONGO TRAIL, RZSS <i>*E.S. Herrelko, S.-J. Vick, H.M. Buchanan-Smith</i></p> <p><b>527</b> 17:27-17:44 DEVELOPING A COGNITIVE RESEARCH PROGRAM FOR MANDRILL MONKEYS (MANDRILLUS SPHINX) <i>*K.A. Leightly, M.A. Maloney, C.W. Kuhar, T. Bettinger</i></p> <p><b>528</b> 17:44-18:01 TESTING METHODS FOR ASSESSING THE REINFORCING EFFECTS OF CHOICE IN PRIMATES <i>*J. Moody, N. Perriello, C. McCann, E. Metzger</i></p> <p><b>529</b> 18:01-18:18 GORILLAS, TOUCH-SCREENS AND TOOL-USE: THE BEHAVIORAL BENEFIT OF SPECIES-ATYPICAL ACTIVITIES <i>*S.R. Ross, K.E. Wagner, E.V. Lonsdorf</i></p> <p><b>530</b> 18:18-18:35 COGNITIVE STUDIES WITH ORANGUTANS IN CAPTIVITY - ENRICHING, REVEALING, STIMULATING, AND EDUCATIONAL <i>*R.W. Shumaker</i></p> <p>GENERAL DISCUSSION</p>	<p><b>LE-C-15E [531-W]</b></p> <p>Workshop</p> <p><b>BEYOND COEXISTENCE: WORKSHOP ON THE BIOSYNERGY OF HUMANS AND OTHER PRIMATES - EXPLORING OUR BONDS IN CARE-GIVING, CONSERVATION AND RESEARCH.</b></p> <p><i>A.L. Rose, A. Vitale, A. Fuentes, A.G. Rose</i></p>

# 16th

## September

Thursday

13:30 - 16:00

### Symposium & Workshop

CT-A	CT-B	CT-C	CT-D	EN-A
<p><b>CT-A-16A [533-S]</b> Symposium <b>PRIMATE EVOLUTION BY GENE LOSS</b> <i>Y. Satta</i></p> <p><b>534</b> 13:30-13:40 HUMAN AND NON-HUMAN PRIMATE PSEUDOGENES - INTRODUCTION- <i>*Y. Satta</i></p> <p><b>535</b> 13:40-14:20 GENE LOSS IN HUMANS <i>*Y. Xue, D.G. MacArthur, B. Yngvadottir, C. Tyler-Smith</i></p> <p><b>536</b> 14:20-15:00 THE LESS-IS-MORE-HYPOTHESIS REVISITED <i>*M.V. Olson</i></p> <p><b>537</b> 15:00-15:20 DEGENERATION OF OLFACTORY RECEPTOR GENE REPERTORIES IN PRIMATES: NO DIRECT LINK TO FULL TRICHROMATIC VISION <i>*A. Matsui, Y. Go, Y. Niimura</i></p> <p><b>538</b> 15:20-16:00 LOSS OF GLYCAN MODIFYING GENES - EFFECTS ON DIVERSITY, IMMUNITY AND REPRODUCTION <i>*P. Gagneux, S. Springer, D. Ghaderi, F. Ma, A. Varki</i></p>	<p><b>CT-B-16A [539-S]</b> Symposium <b>PRIMATE CYTOGENETICS AND CELL GENETICS</b> <i>H. Tanabe, T. Ishida</i></p> <p><b>540</b> 13:30-13:55 Canceled</p> <p><b>541</b> 13:55-14:20 ORIGIN AND EVOLUTION OF RETROTRANSPOSABLE COMPOUND REPEAT DNA ORGANIZATION (RCRO) <i>*A. Koga, H. Hirai</i></p> <p><b>542</b> 14:20-14:45 COMPARATIVE ANALYSIS OF THE GENOME CONSTITUTION FOR UNDERSTANDING THE CONFORMATION OF THE REPETITIVE SEQUENCE BLOCKS IN PRIMATE EVOLUTION. <i>*Y. Kuroki, H. Tanabe, T. Ishida, A. Toyoda, A. Fujiyama, M. Tajii</i></p> <p><b>543</b> 14:45-15:10 PRIMATE CELL REPOSITIONING NOW: 20-YEAR INTERVAL SINCE IPS-1990 AND ITS CONTRIBUTION TO THE PRIMATE MOLECULAR STUDIES <i>*T. Ishida</i></p> <p><b>544</b> 15:10-15:35 3D-REPOSITIONING OF CHROMOSOME TERRITORIES LEADING TO PRIMATE KARYOTYPIC EVOLUTION <i>*H. Tanabe</i></p> <p><b>545</b> 15:35-16:00 RECENT PROGRESS IN REPRODUCTIVE TECHNOLOGIES BASED ON THE COMMON MARMOSSET (<i>Callithrix jacchus</i>): APPLICATION OF ES AND IPS CELLS <i>*I. Tomioka, E. Sasaki</i></p>	<p><b>CT-C-16A [546-S]</b> Symposium <b>THE CHIMPANZEE BRAIN</b> <i>L.A. Parr, S. Hirata</i></p> <p>OPENING REMARK <i>L.A. Parr, S.Hirata</i></p> <p><b>547</b> 13:40-14:00 ERP MEASUREMENTS AND ULTRASOUND SCANNING FOR INVESTIGATING CHIMPANZEE BRAIN CHARACTERISTICS <i>*S. Hirata</i></p> <p><b>548</b> 14:00-14:20 NEURAL ACTIVITIES IN AN AWAKE CHIMPANZEE IN RESPONSE TO AFFECTIVE AND SELF-RELEVANT STIMULI: VISUAL AND AUDITORY ERPS <i>*A. Ueno</i></p> <p><b>549</b> 14:20-14:40 BRAIN DEVELOPMENT IN CHIMPANZES: A COMBINED 3D ULTRASOUND AND MRI STUDY <i>*T. Sakai</i></p> <p><b>550</b> 14:40-15:00 NEURAL BASIS OF FACE PROCESSING IN CHIMPANZES AND MONKEYS USING FDG-PET <i>*L.A. Parr, E. Hecht</i></p> <p><b>551</b> 15:00-15:20 WHY IS HUMAN IMITATION DIFFERENT? CONNECTIVITY OF THE MIRROR NEURON SYSTEM IN MACAQUES, CHIMPANZES, AND HUMANS <i>*E.E. Hecht, D.A. Gutman, J.K. Rilling, L.A. Parr</i></p> <p><b>552</b> 15:20-15:40 CORTICAL REPRESENTATION OF LATERALIZED GRASPING IN CHIMPANZES (PAN TROGLO-DYTES): A COMBINED MRI AND PET STUDY <i>*W.D. Hopkins, J.P. Tagliatela</i></p> <p>GENERAL DISCUSSION</p>	<p><b>CT-D-16A [553-W]</b> Workshop <b>STATUS REVIEW AND CONSERVATION ACTION PLANNING FOR HOOLOCK GIBBON</b> <i>S.J. Browne, F. Momberg, F. Pengfei, F. Ahsan, J. Das</i></p>	<p><b>EN-A-16A [554-S]</b> Symposium <b>HOW TO STUDY PERSONALITY DIFFERENCES IN PRIMATES</b> <i>J. Uher, A. Weiss</i></p> <p><b>555</b> 13:30-13:50 META-THEORETICAL AND METHODOLOGICAL FOUNDATIONS OF PRIMATE PERSONALITY RESEARCH - AN OVERVIEW <i>*J. Uher</i></p> <p><b>556</b> 13:50-14:10 PERSONALITY IN NONHUMAN PRIMATES: A REVIEW AND EVALUATION OF PAST RESEARCH <i>*H.D. Freeman, S.D. Gosling</i></p> <p><b>557</b> 14:10-14:30 CHIMPANZEE PERSONALITY ASSESSED BY OBSERVATIONAL QUANTIFICATION OF BEHAVIOUR IN THREE ZOOS <i>*S.E. Koski, E.H.M. Sterck</i></p> <p><b>558</b> 14:30-14:50 MEASURING INDIVIDUAL DIFFERENCES IN TEMPERAMENT AND FRIENDSHIP IN RHESUS MONKEYS (<i>MACACA MULATTA</i>) <i>*T.A.R. Weinstein</i></p> <p><b>559</b> 14:50-15:10 A LONGITUDINAL ASSESSMENT OF PERSONALITY IN CAPTIVE, WESTERN-LOWLAND GORILLAS <i>*T.S. Stoinski, B.M. Perdue, C.W. Kuhar, K.E. Lukas, K.C. Gold, T.L. Maple</i></p> <p><b>560</b> 15:10-15:30 PERSONALITY BEYOND BEHAVIOR: CAUSAL VALIDITY WITH STRATEGIES, OUTCOMES, AND LIFE HISTORIES <i>*M.J. Adams</i></p> <p><b>561</b> 15:30-15:50 USING M- AND G-TYPE FACTOR ANALYSES TO BETTER UNDERSTAND PERSONALITY <i>*A. Weiss, M. Inoue-Murayama</i></p> <p>GENERAL DISCUSSION <i>J. Uher and A. Weiss</i></p>



## EN-B

## EN-C

## EN-D

## LE-A

## LE-B

## LE-C

## EN-C-16A [562-S]

Symposium

PRIMATES IN FRAGMENTS  
*L.K. Marsh*INTRODUCTION TO  
PRIMATES IN FRAGMENTS  
*L.K. Marsh***563** 13:40-13:55  
STAUD MONITORING OF  
ISOLATED POPULATIONS  
OF MACAQUES AND OTHER  
NON-HUMAN PRIMATES  
IN THAILAND.  
*\*N. Aggimarangsee***564** 13:55-14:10  
LIVING ON THE EDGE:  
HABITAT FRAGMENTATION  
AT THE INTERFACE OF  
THE SEMI-ARID ZONE OF  
THE BRAZILIAN NORTHEAST  
*\*S.F. Ferrari,  
E.M. Santos Junior,  
E.B. Freitas,  
J.P. Souza-Alves,  
L. Jerusalinsky, R.B. Mendes,  
R.R.D. Chagas***565** 14:10-14:25  
COMPARATIVE STUDY OF  
PRIMATE POPULATIONS  
IN FRAGMENTS OF LOS  
TUXTLAS BIOSPHERE  
RESERVE, MEXICO:  
LANDSCAPE DYNAMICS  
AND HABITAT AVAILABILITY  
(1986-2007).  
*\*B. Solórzano-García,  
E.A. Ellis, E. Rodríguez-Luna***566** 14:25-14:40  
SPATIAL USE AND ROUTE  
SELECTION OF A  
TRANSLOCATED  
HOWLER MONKEY  
GROUP: CONSERVATION  
IMPLICATIONS.  
*\*A. Shedden, E.A. Ellis,  
E. Rodríguez-Luna***567** 14:40-14:55  
LEVELS OF PARASITISATION  
IN HOWLER MONKEYS:  
INTER AND INTRA-ANNUAL  
VARIATIONS BETWEEN  
TWO GROUPS LIVING IN  
FOREST FRAGMENTS IN  
MEXICO  
*\*J. Cristóbal Azkarate,  
J.C. Dunn, J. García,  
D. Osorio Sarabia, J.J. Veà***568** 14:55-15:10  
A REGION-WIDE REVIEW OF  
MESOAMERICAN PRIMATES  
AND PRIORITIZING FOR  
CONSERVATION  
*\*E. Rodríguez-Luna,  
A. Shedden, B. Solorzano***569** 15:10-15:25  
EFFECTS OF HABITAT  
DEGRADATION ON  
BEHAVIOUR AND ECOLOGY  
OF THE SAHAMALAZA  
SPORTIVE LEMUR,  
*LEPILEMUR SAHAMALAZEN-  
SIS*, IN NW MADAGASCAR  
*\*M. Seiler, M. Holderied,  
C. Schwitzer***570** 15:25-15:40  
SEASONAL PATTERNS IN  
REPRODUCTIVE ECOLOGY  
OF CHIMPANZEES LIVING  
IN A UGANDAN FOREST  
FRAGMENT  
*\*J. Wallis*

DISCUSSION

## EN-D-16A [571-S]

Symposium

GREAT APES AND  
ECOSYSTEM DIVERSITY  
*Y. Takenoshita*INTRODUCTION  
*Y. Takenoshita***572** 13:35-13:50  
EFFECTS OF VEGETATION  
AND PHENOLOGY ON  
CHIMPANZEE FORAGING  
IN THE MAHALE MOUNTAINS  
NATIONAL PARK, TANZANIA  
*\*N. Itoh***573** 13:50-14:05  
VARIATION IN FRUIT  
PHENOLOGY IN CENTRAL  
AFRICAN GREAT APE  
HABITATS.  
*\*Y. Takenoshita***574** 14:05-14:20  
BIOMASS OF TERRESTRIAL  
MAMMALS IN THE  
MOUKALABA-DOUDOU  
NATIONAL PARK, GABON  
*\*P.P. Nguema Mbehang***575** 14:20-14:35  
BIOMASS OF MAMMALS  
AND ECOLOGY OF  
SYMPATRIC CERCOP-  
ITHECINES IN CHIM-  
PANZEE HABITAT IN THE  
KALINZU FOREST, UGANDA.  
*\*Y. Tashiro, T. Furuichi,  
C. Hashimoto***576** 14:35-14:50  
SYMPATRIC GREAT APES  
AND CERCOPITHECIDS IN  
THE MAHALE MOUNTAINS,  
TANZANIA AND THE  
KALINZU FOREST, UGAN-  
DA.  
*\*H. Ihobe, Y. Tashiro,  
K. Zamma, Y. Tsuji,  
S. Uehara***577** 14:50-15:05  
WHAT DOES IT MEAN TO  
BE A CHIMPANZEE?  
EXAMINING VARIATION  
BETWEEN AND ACROSS  
SUBSPECIES  
*\*S.M. Russak***578** 15:05-15:20  
SUCCESSFUL MODEL OF  
REGIONAL COLLABORATION  
FOR MOUNTAIN GORILLA  
CONSERVATION IN BWINDI-  
RUNGA LANDSCAPE  
*\*A.K. Basabose***579** 15:20-15:35  
SURVEYS OF CHIMPANZEE  
HABITATS IN WEST  
AFRICA: INFORMATION  
FROM GUINEA AND  
LIBERIA  
*\*G. Ohashi, T. Matsuzawa*COMMENTS AND  
DISCUSSION

## LE-A-16A [580-S]

Symposium

ECOLOGY OF TEMPERATE  
PRIMATES  
*G. Hanya, Y. Tsuji,  
C. Grueter***581** 13:30-13:45  
OUT OF THE TROPICS:  
ECOLOGICAL ADAPTATIONS  
OF TEMPERATE PRI-  
MATES  
*\*G. Hanya***582** 13:45-14:00  
TEMPORAL AND SPATIAL  
VARIATION IN FEEDING  
ECOLOGY OF JAPANESE  
MACAQUES  
*\*Y. Tsuji***583** 14:00-14:15  
BARBARY MACAQUE USE  
OF FOOD RESOURCES IN  
DEGRADED CEDAR-OAK  
FORESTS IN MOROCCO -  
WHY DO MONKEYS STRIP  
CEDAR BARK?  
*\*N. Ménard, P. Motsch,  
A. Delahaye, A. Saintvanne,  
G. Le Flohic, S. Dupé,  
M. Qarro***584** 14:15-14:30  
OF FRUGIVORY AND  
FALLBACK FOODS: FOR-  
AGING ECOLOGY OF THE  
HIGH-ALTITUDE  
ARUNACHAL MACAQUE  
IN NORTHEASTERN INDIA  
*U. Mendiratta, R.S. Kumar,  
C. Mishra, \*A. Sinha***585** 14:30-14:45  
ACTIVITY BUDGET OF  
RHINOPIITHECUS BIETI IN  
TIBET: EFFECTS OF DAY  
LENGTH, TEMPERATURE  
AND FOOD AVAILABILITY  
*\*Z-F. Xiang, S. Huo,  
W. Xiao***586** 14:45-15:00  
EFFECTS OF A HARSH  
ENVIRONMENT ON  
BEHAVIORAL AND  
ECOLOGICAL STRATEGIES  
OF BLACK SNUB-NOSED  
MONKEYS IN THE SAMAGE  
FOREST, CHINA  
*\*C.C. Grueter, D. Li, B. Ren,  
F. Wei***587** 15:00-15:15  
ECOLOGICAL AND  
BEHAVIORAL ADAPTATIONS  
OF GOLDEN SNUB-NOSED  
MONKEY IN TEMPEATE  
FOREST: DIET AND HOME  
RANGE USE  
*\*S.T. Guo, B.G. Li, W.H. Ji***588** 15:15-15:30  
HIMALAYAN GRAY LANGURS:  
ON THE ECOLOGICAL  
EXTREMES OF GENERALIST  
PRIMATES  
*\*K. Sayers*

GENERAL DISCUSSION

## LE-B-16A [589-S]

Symposium

LANDSCAPES FOR TOOL  
USE  
*D.M. Fragaszy***590** 13:30-13:50  
BIPEDAL POSTURE AND  
TERRESTRIALITY IN  
BEARDED CAPUCHIN  
MONKEYS  
*\*L. Biondi, K. Wright,  
D.M. Fragaszy, P. Izar***591** 13:50-14:10  
SPATIAL DISTRIBUTION  
OF RESOURCES FOR THE  
OCCURRENCE OF NUT  
CRACKING WITH TOOLS  
IN WILD BEARDED  
CAPUCHINS (*CEBUS  
LIBIDINOSUS*)  
*\*N. Spagnoletti,  
E. Visalberghi, A. Presotto,  
P. Izar***592** 14:10-14:30  
CAPUCHIN MONKEYS  
(*CEBUS LIBIDINOSUS*)  
NAVIGATION SYSTEM IN  
A SEMI-ARID HABITAT.  
BOA VISTA, PIAUI - BRAZIL  
*\*A. Presotto, L.M. Biondi,  
M.P. Verderane, P. Izar***593** 14:30-14:55  
GEOSPATIAL MODELING  
OF FACTORS PREDICTING  
BEARDED CAPUCHIN  
TOOL USE IN BOA VISTA  
AND ACROSS THE  
CERRADO OF BRAZIL  
*\*M. Madden, T. Jordan,  
A.J. Hinley, S. Bernardes,  
Y. Tavares-Rochas, P. Izar,  
A. Presotto, A. Eury,  
D.M. Fragaszy***594** 14:55-15:15  
TOOL USE BY FONGOLI  
CHIMPANZEES (*PAN  
TROGLODYTES VERUS*):  
NAVIGATING A SAVANNA  
MOOSAIC ENVIRONMENT.  
*\*M. Gaspersic,  
S. Lindshield, C. Tourkakis,  
E. Wessling, J. Pruetz***595** 15:15-15:40  
MODELING TOOL USE  
ACROSS SPACE: AN  
EXPERIMENTAL  
APPROACH TO EXPLAINING  
SUBSISTENCE TOOL  
TECHNOLOGY IN *PAN  
TROGLODYTES*  
*\*S.M. Lindshield,  
E. Otárola-Castillo,  
J.D. Pruetz***596** 15:40-16:00  
GEOSPATIAL MODELS:  
LIMITATIONS AND  
PROMISES IN PREDICTING  
OCCURRENCE AND  
DIVERSITY OF TOOL USE  
*\*T. Humle*

## LE-C-16A [597-W]

Workshop

THE WORLD'S 25 MOST  
ENDANGERED PRIMATES  
2010-2012  
*R.A. Mittermeier, J. Wallis,  
A.B. Rylands*

# 16th

## September

Thursday

16:15 - 19:15

### Oral Session

\*20min per paper

CT-A	CT-B	CT-C	CT-D	EN-A
<p><b>CT-A-16E</b> Genomics &amp; Genetics <b>GENETIC VARIATION</b> Chairs: <i>K. Guschanski &amp; E. Davion</i></p>	<p><b>CT-B-16E</b> Conservation <b>CONSERVATION OF ASIAN APES</b> Chairs: <i>M.A. Huffman &amp; F. Momberg</i></p>	<p><b>CT-C-16E</b> Conservation <b>DIRECT HUMAN IMPACTS ON PRIMATES</b> Chairs: <i>J.H. Wright &amp; B.S. Kaplan</i></p>		<p><b>EN-A-16E</b> Psychology <b>SOCIAL COGNITION &amp; SOCIAL INTERACTION</b> Chairs: <i>E. A. Cartmill &amp; B.M.Waller</i></p>
<p><b>598</b> 16:15-16:35 IDENTIFICATION AND VALIDATION OF DNA SEQUENCE VARIATION (SNPS) IN RHESUS MACAQUES USING NEXT-GEN SEQUENCING <i>G.L. Fawcett, M. Raveendran, D. Rio Deiros, D. Chen, R.A. Harris, M. Bainbridge, D.M. Muzny, J. Reid, D.A. Wheeler, K.C. Worley, A. Milosavljevic, R.A. Gibbs, *J. Rogers</i></p>	<p><b>606</b> 16:15-16:35 REPRODUCTIVE PARAMETERS OF REHABILITANT FEMALE ORANGUTANS (<i>PONGO SPP.</i>); HIGH INFANT MORTALITY RATE AND YOUNGER AGE AT FIRST REPRODUCTION <i>*N. Kuze, D. Dellatore, G.L. Banes, P. Pratje, T. Tajima, A.E. Russon</i></p>	<p><b>614</b> 16:15-16:35 NON HUMAN PRIMATE CONSERVATION IN GUINEA-BISSAU (WEST AFRICA) <i>*C. Casanova, C. Sousa</i></p>		<p><b>623</b> 16:15-16:35 PATERNAL KIN DISCRIMINATION IN RHESUS MACAQUES (MACACA MULATTA)- IDENTIFICATION OF CUES AND MECHANISMS <i>*D. Pfefferle, A. Widdig</i></p>
<p><b>599</b> 16:35-16:55 MITOCHONDRIAL DNA DIVERSITY AND REPRODUCTIVE SUCCESS IN THE ORANG-UTANS AT CAMP LEAKEY, TANJUNG PUTING NATIONAL PARK, CENTRAL KALIMANTAN, REPUBLIC OF INDONESIA. <i>*G.L. Banes, S.B. Piertney, B.M.F. Galdikas, L.A. Knapp</i></p>	<p><b>607</b> 16:35-16:55 CAN CARBON FINANCE MECHANISMS SAVE ORANGUTAN? <i>*F. Momberg, A. Kusworo, D. Liswanto</i></p>	<p><b>615</b> 16:35-16:55 MONITORING OF PRIMATES AND ILLEGAL HUNTING ACTIVITIES IN KAKUM NATIONAL PARK, GHANA <i>*E.D. Wiñe</i></p>		<p><b>624</b> 16:35-16:55 SOCIAL GROUPING AND INTERGROUP BIASES IN RHESUS MACAQUES <i>*N. Mahajan, M.A. Martinez, N.L. Gutierrez, G. Diesendruck, M. Banaji, L.R. Santos</i></p>
<p><b>600</b> 16:55-17:15 WHAT DOES IT TAKE TO RESOLVE THE GUENON PHYLOGENY? NEXT-GENERATION SEQUENCING FROM 100-YEAR OLD MUSEUM SPECIMENS <i>*K. Guschanski, J. Krause, S. Rankin, V. Savolainen</i></p>	<p><b>608</b> 16:55-17:15 POPULATION, DISTRIBUTION AND CONSERVATION STATUS OF ORANGUTAN (<i>Pongo pygmaeus wurmbii</i>) IN KETAPANG, WEST KALIMANTAN, INDONESIA <i>*A.R. Hadrianus, A. Erman</i></p>	<p><b>616</b> 16:55-17:15 BEEKEEPING AS AN ECONOMIC ALTERNATIVE TO BUSHMEAT HUNTING IN CAMEROON <i>*J.H. Wright, N. Bradbear</i></p>		<p><b>625</b> 16:55-17:15 ADDRESSING THE PROBLEM OF GRANULARITY IN PRIMATE GESTURE RESEARCH <i>*E.A. Cartmill, R.W. Byrne</i></p>
<p><b>601</b> 17:15-17:35 PHYLOGENY AND DIVERGENCE DATES OF THE MITOCHONDRIAL GENOME OF FIVE GIBBON SPECIES IN THREE GENERA <i>*K. Matsudaira, T. Ishida</i></p>	<p><b>609</b> 17:15-17:35 COLLABORATIVE LAW ENFORCEMENT FOR ORANGUTAN CONSERVATION IN DANAU SENTARUM NATIONAL PARK <i>*Y. Kurniawan, I.M. Hilman, E. Darmawan</i></p>	<p><b>617</b> 17:15-17:35 CONSERVATION STATUS OF MONKEYS ON BIKO ISLAND, EQUATORIAL GUINEA (1990 - 2009) <i>*G.W. Hearn, W.A. Morra, D. Bucuma Meñe, T.M. Butynski</i></p>		<p><b>626</b> 17:15-17:35 Canceled</p>
<p><b>602</b> 17:35-17:55 OPSN GENES IN NOCTURNAL MAMMALS: IMPLICATIONS FOR PRIMATE EVOLUTION <i>*E.B. Davion, R.D. Martin</i></p>	<p><b>610</b> 17:35-17:55 HABITAT RESTORATION IN A LOGGED AREA FOR ORANGUTAN CONSERVATION <i>*B. Saragih, R.S.E Siregar, D.J. Chivers</i></p>	<p><b>618</b> 17:35-17:55 Canceled</p>		<p><b>627</b> 17:35-17:55 COMMUNICATIVE FUNCTION OF TEETH EXPOSURE IN THE GORILLA PLAYFACE <i>*B.M. Waller, L. Cherry</i></p>
<p><b>603</b> 17:55-18:15 IN THEIR GENES: GENETIC POLYMORPHISM IN THE SEROTONIN TRANSPORTER PROMOTER REGION AND ECOLOGICAL SUCCESS IN MACAQUES <i>*S. Chakraborty, D. Chakraborty, U. Ramakrishnan, A. Sinha</i></p>	<p><b>611</b> 17:55-18:15 CONSERVATION OF JAVAN GIBBON IN DIENG MOUNTAIN, CENTRAL JAVA INDONESIA <i>*A. Setiawan, T.S. Nugroho, Y. Wibisono, V. Ikawati, Djuwantoko</i></p>	<p><b>619</b> 17:55-18:15 IN PURSUIT OF A PANACEA: MITIGATING HUMAN-BABOON CONFLICT IN THE CAPE PENINSULA, SOUTH AFRICA <i>*B.S. Kaplan, M.J. O'Riain, A.J. King</i></p>		<p><b>628</b> 17:55-18:15 Canceled</p>
<p><b>604</b> 18:15-18:35 HUMAN SPECIFIC ENERGY-CONSUMPTION TYPE SNP OF OBESITY GENES OCCURRED AFTER DIVERGENCE FROM APES <i>*A. Takenaka, S. Nakamura, F. Mitsunaga, M. Inoue-Murayama, T. Udono, B. Suryobroto</i></p>	<p><b>612</b> 18:15-18:35 GIBBON CONSERVATION IN VIETNAM: INFORMATION GAP AND FUTURE CONSERVATION REQUIREMENT <i>*N.M. Ha</i></p>	<p><b>620</b> 18:15-18:35 BEHAVING, BUT AT WHAT COST? THE EFFECTS OF A MANAGEMENT TECHNIQUE ON A BABOON TROOP IN SOUTH AFRICA. <i>*A.C. van Doorn, M.J. O'Riain, L. Swedell</i></p>		<p><b>629</b> 18:15-18:35 SIGNIFICANCE OF PANTING AND FUNCTION OF PENILE ERECTION DURING MALE-MALE INTRODUCTIONS IN CHIMPANZEES <i>*M. Seres</i></p>
<p><b>605</b> 18:35-18:55 COMPARATIVE PRIMATE VAGINAL MICROBIAL ECOLOGY <i>S. Yildirim, S. Leigh, B.A. Wilson, A. Rivera, B.A. White, M. Irwin, T. Goldberg, A. Salyers, *R.M. Stumpf</i></p>	<p><b>613</b> 18:35-18:55 Canceled</p>	<p><b>621</b> 18:35-18:55 HUMAN AND THE RHESUS MACAQUES CONFLICT: SOLUTION FOR NEPAL <i>*M.K. Chalise</i></p>		<p><b>630</b> 18:35-18:55 GROOMING INTERACTIONS BETWEEN ADULT FEMALES IN A FREE-RANGING GROUP OF JAPANESE MACAQUES FOR FOUR CONSECUTIVE YEARS <i>*M. Nakamichi</i></p>
		<p><b>622</b> 18:55-19:15 THE BIOSYNERGY HYPOTHESIS: EXPLORING THE PSYCHOSOCIAL FORCES THAT ENHANCE HUMAN AND NONHUMAN PRIMATE COEXISTENCE IN CAPTIVE AND NATURAL SETTINGS. <i>*A.L. Rose, A.G. Rose</i></p>		

EN-B	EN-C	EN-D	LE-A	LE-B	LE-C
<p><b>EN-B-16E</b> Psychology <b>PHYLOGENETIC AND ONTOGENETIC ISSUES IN BEHAVIOR</b> Chairs: <i>M. Uchikoshi &amp; S.D. Hurst</i></p>	<p><b>EN-C-16E</b> Morphology &amp; Phylogeny <b>ASIAN PALEOPRIMATOLOGY</b> Chair: <i>M. Takai</i></p>		<p><b>LE-A-16E</b> Ecology &amp; Behavior <b>SOCIALITY</b> Chairs: <i>P. Pebsworth &amp; A. Sinha</i></p>	<p><b>LE-B-16E</b> Ecology &amp; Behavior <b>RANGING BEHAVIOR</b> Chairs: <i>D.S. Sprague &amp; H.G.W. Notman</i></p>	<p><b>LE-B-16E</b> Ecology &amp; Behavior <b>COGNITIVE ECOLOGY</b> Chairs: <i>B. Urbani &amp; R.C. O'Malley</i></p>
<p><b>631</b> 16:15-16:35 THE EFFECT OF BRAIN GROWTH ON LIFE HISTORY IN ANTHROPOIDS <i>*N.L. Barrickman</i></p>	<p><b>639</b> 16:15-16:35 THE ANTIQUITY OF LATE MIOCENE PRIMATES IN INDIA <i>*R. Patnaik</i></p>		<p><b>646</b> 16:15-16:35 MALE LIFE HISTORY AND SOCIAL STRUCTURE OF WILD JAPANESE MACAQUES <i>*S. Suzuki</i></p>	<p><b>655</b> 16:15-16:35 ACCURACY OF METHODS USED FOR ESTIMATING WILD CHIMPANZEES' DAILY TRAVEL DISTANCE <i>*P. Bertolani</i></p>	<p><b>664</b> 16:15-16:35 DIFFERENT BEHAVIOURAL REPERTOIRES AMONG EIGHT ORANG-UTAN POPULATIONS ARE BEST EXPLAINED BY SOCIABILITY AND CULTURE, RATHER THAN GENETIC OR ECOLOGICAL SIMILARITY <i>*M. Krützen, E.P. Willems, C.P. van Schaik</i></p>
<p><b>632</b> 16:35-16:55 THE GROWTH AND DEVELOPMENT OF TWO AGILE GIBBONS FROM INFANCY TO ADULTHOOD <i>*M. Uchikoshi</i></p>	<p><b>640</b> 16:35-16:55 FIRST DISCOVERY OF COLOBINE FOSSILS FROM THE LATE MIOCENE/EALRY PLOCENE OF CENTRAL MYANMAR <i>*M. Takai, T. Htike, Z.M. Maung Thein, N. Egi, T. Tsubamoto</i></p>		<p><b>647</b> 16:35-16:55 ESTIMATING THE DENSITY OF SOLITARY MALE JAPANESE MACAQUES IN YAKUSHIMA <i>*Y. Otani, G. Hanya</i></p>	<p><b>656</b> 16:35-16:55 MONITORING MOVEMENTS: TRACKING UNHABITUATED CHIMPANZEES IN UGALLA, WESTERN TANZANIA USING A NOVEL METHOD - REAL-TIME ACOUSTIC LOCALIZATION <i>*A.K. Piel, J.J. Moore</i></p>	<p><b>665</b> 16:35-16:55 CULTURAL VARIATION IN NUT CRACKING BEHAVIOR AMONG NEIGHBORING CHIMPANZEE (<i>PAN TROGLODYTES VERUS</i>) COMMUNITIES IN COTE-D'IVOIRE, WEST AFRICA <i>*L. Luncz, C. Boesch</i></p>
<p><b>633</b> 16:55-17:15 LONGITUDINAL STUDY DOCUMENTS DEVELOPMENT OF INDIVIDUAL DIFFERENCES IN TERMITE FISHING IN YOUNG CAPTIVE CHIMPANZEES. <i>*M. Kakinuma, H. Hatakeyama, A. Tsuchida, I. Nose</i></p>	<p><b>641</b> 16:55-17:15 QUATERNARY PRIMATES IN SOUTHEAST ASIA, BETWEEN PALAEOENVIRONMENTS AND HUMAN PRESSURES. <i>*T. Ingicco</i></p>		<p><b>648</b> 16:55-17:15 WILD FEMALE BONOBOS (PAN PANISCUS): FRIENDSHIP, SEX, AND SOCIALITY <i>*L.A. Ward, J. Lehmann, G. Hohmann</i></p>	<p><b>657</b> 16:55-17:15 TRAVEL ROUTES TO FEEDING SITES OF FEMALE JAPANESE MACAQUES IN RELATION TO SOCIAL RANK AND FOOD DISTRIBUTION <i>*M. Nishikawa, M. Suzuki, D.S. Sprague</i></p>	<p><b>666</b> 16:55-17:15 UNDERSTANDING TOOL USE IN ORANGUTANS <i>*E.J.M. Meulman, S.I.F. Forss, T. Mitra Setia, C.P. van Schaik</i></p>
<p><b>634</b> 17:15-17:35 EYE MOVEMENTS OF YOUNG AND ADULT CHIMPANZEES DURING A MEMORY TASK <i>*S. Inoue, T. Matsuzawa</i></p>	<p><b>642</b> 17:15-17:35 SIZE VARIATIONS OF THE MOLARS OF THE QUATERNARY JAPANESE MACAQUE <i>*Y. Nishioaka, T. Anezaki, M. Takai</i></p>		<p><b>649</b> 17:15-17:35 FROM HAIR TO BEHAVIOUR: ANALYSES OF SHED HAIRS WITH MULTIPLE GENETIC MARKERS PROVIDE NEW INSIGHTS INTO GROUND-NESTING BY WILD CHIMPANZEES <i>*K. Koops, T. Matsuzawa, L.A. Knapp</i></p>	<p><b>658</b> 17:15-17:35 INTERGROUP VARIATION IN RANGING STRATEGIES OF <i>SEMNOPIITHECUS VETULUS NESTOR</i>: RESPONSE TO FOOD AVAILABILITY IN HUMAN MODIFIED ENVIRONMENTS, SRI LANKA <i>*J.D.S. Dela</i></p>	<p><b>667</b> 17:15-17:35 TESTING FOR TRADITIONS OF FOOD CLEANING IN 6 GROUPS OF VERVET MONKEYS <i>*E. van de Waal, J. Goudet, R. Bshary</i></p>
<p><b>635</b> 17:35-17:55 A COMPARISON OF COGNITIVE ABILITIES AND TEMPERAMENT OF BONOBOS AND CHIMPANZEES <i>*E. Hermann, B. Hare, J. Call, M.V. Hernandez-Lloreda, M. Tomasello</i></p>	<p><b>643</b> 17:35-17:55 A MORPHOMETRIC ANALYSIS OF THE JAPANESE MACAQUE (<i>MACACA FUSCATA</i>) TEETH ARCHAEOLOGICAL SITES, JAPAN <i>*T. Anezaki, H. Hongo, N. Shigehara, M. Takai</i></p>		<p><b>650</b> 17:35-17:55 THE INFLUENCE OF SOCIAL COHESION ON THE DEVELOPMENT OF SEX-SPECIFIC ASSOCIATION PATTERNS IN JUVENILE ATELIN PRIMATES <i>*C.A. Schmitt, A. Di Fiore</i></p>	<p><b>659</b> 17:35-17:55 ALTITUDINAL MOVEMENT PATTERNS OF GUIZHOU SNUB-NOSED MONKEYS (<i>RHINOPITHECUS BRELICHI</i>) IN FANJINGSHAN NATIONAL NATURE RESERVE, CHINA <i>*K. Niu, C.L. Tan, Y. Yang</i></p>	<p><b>668</b> 17:35-17:55 LONG-TERM CHANGES IN HUNTING BEHAVIOR OF THE MAHALE CHIMPANZEES <i>*K. Hosaka, T. Nishida</i></p>
<p><b>636</b> 17:55-18:15 DARWIN'S APES OR "SAVAGES" DESCENT DILEMMA, REVISITED. <i>*J. Martinez-Contreras</i></p>	<p><b>644</b> 17:55-18:15 PRELIMINARY REPORT OF NON-HUMAN PRIMATE BONES DISCOVERED AT THE PREHISTORIC SIGIRIYA POTANA CAVE SITE IN SRI LANKA <i>*C.A.D. Nahallage, N. Kanthilatha, G. Adikari, M.A. Huffman</i></p>		<p><b>651</b> 17:55-18:15 SOCIAL BEHAVIOUR OF THE WESTERN HOOLOCK GIBBON IN A LOWLAND RAINFOREST FRAGMENT OF THE UPPER BRAHMAPUTRA VALLEY, NORTHEASTERN INDIA <i>*S. Sankaran, G.S. Rawat, R.S. Kumar, A. Sinha</i></p>	<p><b>660</b> 17:55-18:15 SOCIAL ORGANIZATION AND RANGE SIZE IN TONKIN SNUB-NOSED MONKEY (<i>RHINOPITHECUS AVUNCULUS</i>) IN KHAU CA <i>*T.H. Dong</i></p>	<p><b>669</b> 17:55-18:15 TOOL-ASSISTED PREDATION ON <i>CAMPANOTUS</i> ANTS BY GOMBE CHIMPANZEES. <i>*R.C. O'Malley, B. Wallauer, C. Murray</i></p>
<p><b>637</b> 18:15-18:35 TESTING PICTORIAL COMPETENCE IN NON-HUMAN PRIMATES <i>*T. Persson</i></p>	<p><b>645</b> 18:15-18:35 CLIMATIC INFLUENCES ON CRANIAL VARIATION IN <i>MACACA FASCICULARIS</i> AND <i>M. FUSCATA</i> <i>*T. Ito, T. Nishimura, M. Takai</i></p>		<p><b>652</b> 18:15-18:35 ACTIVITY BUDGET OF DELACOUR'S LANGUR IN VAN LONG NATURE RESERVE, VIETNAM <i>*V.T. Nguyen, V.K. Le</i></p>	<p><b>661</b> 18:15-18:35 HOME RANGE USE AND PATTERNS OF SOCIAL INTERACTIONS FOR CEBUS APELLA AT BROWNSBERG, SURINAME <i>*K.C. MacKinnon</i></p>	<p><b>670</b> 18:15-18:35 EXPLORATIONS OF A THREATENED CHIMPANZEE MEGA-CULTURE IN THE NORTHERN DEMOCRATIC REPUBLIC OF THE CONGO <i>*T.C. Hicks, J. Swinkels, S. Menken</i></p>
<p><b>638</b> 18:35-18:55 EVOLUTION OF THE HOMINOID ORBITOFRONTAL CORTEX <i>*S.D. Hurst, K.D. Hunt, W.D. Hopkins</i></p>			<p><b>653</b> 18:35-18:55 THE FUNCTION OF FEMALE INTERGROUP AGGRESSION IN COLOBUS VELLEROSUS <i>*E.C. Wikberg, P. Sicotte</i></p>	<p><b>662</b> 18:35-18:55 CONSTRUCTING TRAVEL ROUTES FROM GPS DATA COLLECTED DURING FOCAL ANIMAL FOLLOWS OF JAPANESE MACAQUES IN YAKUSHIMA, JAPAN <i>*D.S. Sprague, M. Nishikawa</i></p>	<p><b>671</b> 18:35-18:55 DEALING WITH SEASONAL HABITATS: ENERGETIC CONSTRAINTS VS. COGNITIVE BUFFER EFFECTS ON BRAIN SIZE <i>*J.T. van Woerden, C.P. van Schaik, K. Isler</i></p>
			<p><b>654</b> 18:55-19:15 RETHINKING THE CAUSES OF SEX-SPECIFIC AGGRESSION DURING INTERGROUP ENCOUNTERS: LESSONS FROM GREY-CHEEKED MANGABEYS (<i>LOPHOCEBUS ALBIGENA</i>) AND REDTAIL MONKEYS (<i>CERCOPITHECUS ASCANIUS</i>) <i>*M. Brown</i></p>	<p><b>663</b> 18:55-19:15 DEMOGRAPHY, DIET AND RANGE SIZE IN A POPULATION OF BLACK-HANDED SPIDER MONKEYS (<i>ATELES GEOFFROYI YUCATANENSIS</i>) FROM BELIZE <i>*H.G.W. Notman, M.S.M. Pavelka</i></p>	<p><b>672</b> 18:55-19:15 SPATIAL MAPPING IN WILD WHITE-FACED CAPUCHIN MONKEYS (<i>CEBUS CAPUCINUS</i>) <i>*B. Urbani, P.A. Garber</i></p>

# 17th

## September

Friday

10:40 - 12:40

### Oral Session

\*20min per paper

CT-A	CT-B	CT-C	CT-D	EN-A
<b>CT-A-17M</b> Morphology & Phylogeny <b>EVOLUTION &amp; THEORY</b> Chair: T. Nishimura	<b>CT-B-17M</b> Psychology <b>LEARNING, PERCEPTION &amp; CONCEPTS</b> Chairs: M. Tanaka & T. Ushitani	<b>CT-C-17M</b> Psychology <b>USE OF SOCIAL CUES</b> Chairs: M. Tomonaga & Z. Clay		<b>EN-A-17M</b> Ecology & Behavior <b>FEEDING ECOLOGY 3 - ASIA &amp; AMERICA</b> Chairs: C. Garcia & E.R. Vogel
<b>675</b> 10:40-11:00 THE UTILITY OF GENETIC AND MORPHOLOGICAL DATA IN UNDERSTANDING TAXONOMY IN VERVET MONKEYS *T.R. Turner, J. Lorenz, J.D. Pampush, N. Freimer, J.P. Grobler	<b>680</b> 10:40-11:00 SAME/DIFFERENT CONCEPT LEARNING IN MATCHING-TO-SAMPLE TASKS BY CAPUCHIN MONKEYS *V. Truppa, D. Garofoli, E. Piano Mortari, G. Castorina, F. Natale, E. Visalberghi	<b>686</b> 10:40-11:00 THE ONTOGENETIC DEVELOPMENT OF GAZE FOLLOWING AMONG BARBARY MACAQUES IS MODULATED BY SOCIAL INFORMATION *J. Fischer, A. Gutmann, R. Pirow, C. Teufel		<b>692</b> 10:40-11:00 BEHAVIORAL, PHYSIOLOGICAL AND MORPHOLOGICAL ADAPTATIONS TO PERIODS OF FRUIT SCARCITY IN WILD BORNEAN ORANGUTANS (PONGO PYGMAEUS WURMBII) *E.R. Vogel, M.A. van Noordwijk, N.J. Dominy, K.V. Baritell, A. Meididit, C.P. van Schaik
<b>676</b> 11:00-11:20 DEVELOPMENTAL PATTERNS OF SCROTAL COLORATION AMONG FREE-RANGING AFRICAN AND CARIBBEAN VERVET MONKEYS *J. Danzy, J.P. Grobler, J.G. Lorenz, T.R. Turner	<b>681</b> 11:00-11:20 SOCIAL FACILITATION OF LEARNING OF A COMPUTER-BASED TASK IN CAPTIVE GROUP OF MANDRILLS (MANDRILLUS SPHINX) *M. Tanaka, N. Yamashita, M. Nagao, H. Kamanaru, H. Ito, Y. Yamamoto	<b>687</b> 11:00-11:20 DO CHIMPANZEES HAVE "SHIFTY EYES"? AN ANALYSIS OF GAZE FOLLOWING IN THE INFORMED FORAGER PARADIGM *K.M. Hall, M.W. Campbell, V. Horner, T.M. Eppley, J.D. Carter, R.W. Byrne, F.B.M. de Waal		<b>693</b> 11:00-11:20 INTRA GROUP VARIATION IN THE DIETARY PROFILE OF JAPANESE MACAQUES AS REVEALED BY STABLE ISOTOPE ANALYSIS OF HAIR *T. Oi, H. Seino, S. Hamazaki
<b>677</b> 11:20-11:40 THE EXPENSIVE TISSUE HYPOTHESIS IN PRIMATES - NEW RESULTS *A. Navarrete, K. Isler, C. van Schaik	<b>682</b> 11:20-11:40 SYMBOLIC REPRESENTATION AND QUANTITY DISCRIMINATION IN OLIVE BABOONS (PAPIO ANUBIS) *V. Schmitt, J. Fischer	<b>688</b> 11:20-11:40 PERCEPTION OF TRIADIC GAZE IN CHIMPANZEES (PAN TROGLODYTES) TESTED BY THE VISUAL SEARCH TASK *M. Tomonaga, T. Imura		<b>694</b> 11:20-11:40 OPTIMAL PATCH USE OF MYRICA RUBRA FRUIT BY YAKUSHIMA MACAQUES (MACACA FUSCATA YAKU) ON YAKUSHIMA ISLAND, JAPAN. *M. Terakawa, L. Tarnaud, M. Yamasaki, Y. Isagi, T. Yumoto
<b>678</b> 11:40-12:00 THE SELECTIVE VALUE OF BIG SIZE AND SEXUAL DIMORPHISM IN PRIMATES. *H. Preuschoft	<b>683</b> 11:40-12:00 DOES SYMBOLIC COMPETENCE PREDICT PERFORMANCE OF BONOBO, PAN PANISCUS, ON MATCH-TO-SAMPLE TASK? *J. Pedersen, K. Swartz, D. Musgrave, P. Segerdahl, W.M. Fields	<b>689</b> 11:40-12:00 CHIMPANZEES' USE OF CONSPECIFIC CUES IN MATCHING-TO-SAMPLE TASKS *C.F. Martin, D. Biro, T. Matsuzawa		<b>695</b> 11:40-12:00 ENERGETICS AND SEASONALITY IN CAPTIVE FEMALE JAPANESE MACAQUES (MACACA FUSCATA) *C. Garcia, M.A. Huffman, K. Shimizu, P. Redman, J.R. Speakman
<b>679</b> 12:00-12:20 PHYLOGENY OF PRIMATES BASED ON MUSCULAR CHARACTERS *R. Diogo, B. Wood	<b>684</b> 12:00-12:20 ATTENTIONAL BENEFIT FOR PERCEPTUALLY-STRUCTURED OBJECTS IN CHIMPANZEE VISION *T. Ushitani, T. Imura, M. Tomonaga	<b>690</b> 12:00-12:20 SENSITIVITY OF CAPTIVE CHIMPANZEES TO INDIVIDUAL AND SOCIAL INFORMATION DURING FORAGING TASKS *K.E. Bonnie, M.S. Milstein, S.R. Ross, S. Calcutt, E.V. Lonsdorf		<b>696</b> 12:00-12:20 DOES FOOD AGGREGATION AFFECT FINDER'S SHARE AND INDIVIDUAL FORAGING STRATEGIES IN A FREE-RANGING CAPUCHIN MONKEY GROUP? *J.C. Bicca-Marques, D.F. Gomes
	<b>685</b> 12:20-12:40 ASSOCIATION BETWEEN ERROR CLASS AND PERFORMANCE OF ZOO-LIVING CHIMPANZEES AND GORILLAS ON A COMPUTERIZED SEQUENCING TASK *K.E. Wagner, S.R. Ross	<b>691</b> 12:20-12:40 THE SOCIAL USE OF COPULATION CALLS IN BONOBO, PAN PANISCUS *Z. Clay, K. Zuberbühler		<b>697</b> 12:20-12:40 FEEDING PARTY SIZE AND PARTY COMPOSITION IN RELATION TO FOOD AVAILABILITY IN FREE-RANGING SPIDER MONKEYS *A.L. Perez-Ruiz, R. Mondragon-Ceballos

## EN-B

## EN-B-17M

Ecology &amp; Behavior

**REPRODUCTIVE BEHAVIOR AND PHYSIOLOGY**

Chairs: B. Majolo &amp; I. Foitova

**698** 10:40-11:00

BENEFITS OF SOCIAL STATUS FOR BEHAVIOUR AND REPRODUCTION IN PRIMATES

\*B. Majolo, A. de Bortoli Vizioli, J. Lehmann, G. Schino

**699** 11:00-11:20

FITNESS CONSEQUENCES OF MIGRATION STRATEGIES IN MALE RHESUS MACAQUES

\*L. Muniz, A. Widdig

**700** 11:20-11:40

RELATIONSHIPS BETWEEN REPRODUCTIVE HORMONES AND FEMALE BEHAVIOR IN RHESUS MACAQUES ON CAYO SANTIAGO.

\*T.M. Mandalaywala, J.P. Higham, M. Heistermann, D. Maestripieri

**701** 11:40-12:00

VARIATION IN FECAL TESTOSTERONE AND CORTISOL LEVELS DURING THE FERTIL PERIOD OF FEMALES IN STUMPTAILED MACAQUES (MACACA ARCTOIDES)

\*A.L. Cerda-Molina, O. Peña-Ramírez, L. Hernández-López, R. Chavira, R. Mondragón-Ceballos

**702** 12:00-12:20

LOCAL DIFFERENCES IN MATING PATTERNS IN JAPANESE MACAQUES (MACACA FUSCATA)

\*N. Nakagawa, H. Sugiura, M. Matsubara, S. Hayakawa, S. Fujita, S. Suzuki, Y. Shimooka, M. Nishikawa

## EN-C

## EN-C-17M

Ecology &amp; Behavior

**PRIMATES AND HUMAN LANDSCAPE**

Chairs: S. Ram &amp; T. Hoffman

**703** 10:40-11:00

BABOONS IN A HUMANIZED LANDSCAPE: BENEFICIARIES, VICTIMS AND AGENTS OF CHANGE

S.C. Strum, D. Western, \*D.L. Manziolillo Nightingale

**704** 11:00-11:20

THE IMPORTANCE OF SPATIAL ECOLOGY IN THE EFFECTIVE CONSERVATION OF CHACMA BABOONS IN THE CAPE PENINSULA, SOUTH AFRICA

\*T.S. Hoffman, M.J. O'Riain

**705** 11:20-11:40

HISTORICAL BIOGEOGRAPHY OF CHIMPANZEES BY CONTRAST WITH HUMAN/ELEPHANT POPULATION MOVEMENTS IN XIXth AND XXth CENTURY KAKANDE COUNTRY (NORTHWESTERN GUINEA)

\*V. Leblan

**706** 11:40-12:00

POPULATION SURVEY OF THE JAVAN GIBBONS (HYLOBATES MOLOCH) IN WEST AND CENTRAL JAVA

\*E. Iskandar, W. Sinaga, S.D. Riendriasari, R.C. Kyes, Rahmuddin, K. Tedjosiswojo, K. Sultan, J. Pamungkas

**707** 12:00-12:20

THE AMBATOVY LEMUR POPULATION SPATIAL MONITORING PROGRAM: SUMMARY OF PRELIMINARY RESULTS

\*V. Mass, A. Cooke, B. Rakotomanga, G. Rakotondratsimba, P. Andrianaivomahefa

**708** 12:20-12:40

WITHIN SITE VARIATION IN THE FEEDING ECOLOGY OF THE NILGIRI LANGUR (SEMNOPTHECUS JOHNI) IN HUMAN ALTERED LANDSCAPES: IMPLICATIONS FOR LONG TERM SURVIVAL

\*S. Ram, S. Vaidyanathan

## EN-D

## EN-D-17M

Conservation

**CONSERVATION OF AFRICAN GREAT APES**

Chairs: T. Kaur &amp; C. Genton

**709** 10:40-11:00

MONITORING OF GORILLAS AND ENVIRONMENTAL EDUCATION IN KAHUZI-BIEGA NATIONAL PARK, DEMOCRATIC REPUBLIC OF CONGO

\*J. Kahekwa, A.K. Basabose, J. Yamagiwa

**710** 11:00-11:20

TRAINING LOCAL COMMUNITY MEMBERS ON BIOLOGICAL DATA COLLECTION TECHNIQUES: HOW DOES IT IMPROVE CO-HABITATION WITH PRIMATES HABITAT IN THE BECHATI FOREST AREA, CAMEROON?

\*M.F. Nkemnyi, S. Ajabji, L. Nkembi

**711** 11:20-11:40

GORILLA POPULATION DYNAMICS AFTER AN EBOLA OUTBREAK

\*C. Genton, S. Gatti, F. Levréro, R. Cristescu, E. Bigot, J-S. Pierre, N. Ménard

**712** 11:40-12:00

CONSEQUENCES OF INCREASED ARTISANAL MINING FOR PRIMATES IN NORTHERN DRCONGO

\*L.L. Darby, T.R. Gillespie, T.C. Hicks

**713** 12:00-12:20

FECAL BACTERIAL DIVERSITY OF HABITUATED CHIMPANZEES (PAN TROGLODYTES SCHWEINFURTHII) AT MAHALE MOUNTAINS NATIONAL PARK, TANZANIA

B.A. Szekely, J. Singh, T.L. Marsh, C. Hagedorn, S.R. Werre, \*T. Kaur

**714** 12:20-12:40

CURRENT CONSERVATION EFFORTS OF WILD CHIMPANZEES AT BOSSOU, GUINEA

\*A.G. Soumah, T. Matsuzawa

## LE-A

## LE-A-17M

Animal Welfare

**WELFARE ISSUES IN ZOOS AND RESEARCH INSTITUTIONS**

Chairs: K.E. Lukas &amp; S. Wolfensohn

**715** 10:40-11:00

A PILOT STUDY ON THE EFFECTS OF DIETARY RESISTANT STARCH ON SERUM CHOLESTEROL AND REGURGITATION AND REINGESTION IN ZOO GORILLAS

\*K.E. Lukas, E.H. Less, P.M. Dennis

**716** 11:00-11:20

PROJECT CHIMPCARE: AN ASSESSMENT OF PRIVATELY-OWNED CHIMPANZEES IN THE UNITED STATES

\*V.M. Vreeman, S.R. Ross, E.V. Lonsdorf

**717** 11:20-11:40

NOVO NORDISK WAY OF ENSURING HIGH ANIMAL WELFARE STANDARD IN NON-HUMAN PRIMATE STUDIES

\*L.F. Mikkelsen, A.S. de Boer, H.K. Offenberg, M. Carlsen

**718** 11:40-12:00

EUROPEAN PRIMATE-NETWORK (EURPRIM-NET): CHALLENGES AND POSSIBILITIES

\*S. Treue, B. Pauling, R. Teepe

**719** 12:00-12:20

NATIONAL STRATEGIES FOR PRIMATE USE IN BIOSCIENCE - DOES THE UK NEED ONE?

\*S. Wolfensohn

**720** 12:20-12:40

PRIMATOLOGY BETWEEN FEELINGS AND SCIENCE: DOES NAMING A MONKEY LEAD TO A BETTER PRIMATOLOGY?

\*A. Vitale

## LE-B

## LE-C



17<sup>th</sup>  
September

Friday

13:30 - 16:00

Symposium &  
Workshop

CT-A	CT-B	CT-C	CT-D	EN-A
<p><b>CT-A-17A [721-S]</b> Symposium <b>RECIPROCITY IN GREAT APES</b> <i>B. Hare, S. Yamamoto</i></p> <p>OPENING REMARKS <i>S. Yamamoto</i></p> <p><b>722</b> 13:45-14:05 RECIPROCITY IN FOOD SHARING AMONG CHIMPANZEES AND BONOBOS <i>*A.V. Jaeggi, J.M.G. Stevens, C.P. van Schaik</i></p> <p><b>723</b> 14:05-14:25 RECIPROCAL BEHAVIOR IN CHIMPANZEES <i>*D.P. Proctor, S.F. Brosnan</i></p> <p><b>724</b> 14:25-14:45 THE GOOD, THE BAD AND THE UGLY: COOPERATION, PUNISHMENT AND SPITE IN CHIMPANZEES <i>*K. Jensen, J. Call, M. Tomasello</i></p> <p><b>725</b> 14:45-15:05 REPUTATION JUDGMENTS IN CHIMPANZEES <i>*F. Subiaul</i></p> <p><b>726</b> 15:05-15:25 SHORT AND LONG TERM GROOMING RECIPROCITY IN CAPTIVE BONOBOS <i>*J.M. Stevens, N. Staes, A.V. Jaeggi</i></p> <p><b>727</b> 15:25-15:45 GREAT APES AND ECONOMICS: EVIDENCE OF CALCULATION BEHIND RECIPROCAL TRANSFERS. <i>*V. Dufour, M. Pelé, B. Thierry, J. Call</i></p> <p>CLOSING REMARKS <i>B. Hare</i></p>	<p><b>CT-B-17A [728-S]</b> Symposium <b>MULTI-LEVEL SOCIETIES IN PRIMATES</b> <i>P. Zhang, I. Matsuda</i></p> <p><b>729</b> 13:30-13:50 FOOD DISTRIBUTION AND SOCIAL COHESION IN HAMADRYAS BABOONS: TESTING THE ASSUMPTIONS BEHIND THE EVOLUTION OF HAMADRYAS SOCIAL STRUCTURE <i>*A.L. Schreier, L. Swedell</i></p> <p><b>730</b> 13:50-14:10 MULTI-LEVEL SOCIAL STRUCTURE AND INFANTICIDE <i>*A. Mori, U. Mori, T. Iwamoto</i></p> <p><b>731</b> 14:10-14:30 SOCIAL ORGANIZATION OF TONKIN SNUB-NOSED MONKEYS IN NORTHERN VIETNAM: ECOLOGICAL PRESSURES AND EVOLUTIONARY IMPLICATIONS. <i>*R. Boonratana, X.C. Le</i></p> <p><b>732</b> 14:30-14:50 MULTI-LEVEL SOCIAL SYSTEM OF THE SICHUAN SNUB-NOSED MONKEYS <i>*P. Zhang</i></p> <p><b>733</b> 14:50-15:10 FUNCTIONS OF ALL-MALE UNITS IN A MULTILEVEL SOCIETY OF RHINOPITHECUS BIETI <i>B. Ren, *M. Li</i></p> <p><b>734</b> 15:10-15:30 THE SOCIAL SYSTEM OF PROBOSCIS MONKEYS: INVESTIGATIONS OF INTER- AND INTRA-GROUP RELATIONSHIPS <i>*I. Matsuda, T. Kubo, A. Tuuga, S. Higashi</i></p> <p><b>735</b> 15:30-16:00 THE DIVERSITY OF MULTI-LEVEL PRIMATE SOCIAL SYSTEMS - PATTERNS AND EVOLUTION <i>*D. Zinner, C.C. Grueter</i></p>	<p><b>CT-C-17A [736-S]</b> Symposium <b>FROM RANDOM WALKS TO TRAVEL ROUTES: UNDERSTANDING PATTERNS OF PRIMATE MOVEMENT AND SPACE-USE</b> <i>M.C. Crofoot, C.H. Janson</i></p> <p>INTRODUCTION TO THE SESSION <i>C. Janson</i></p> <p><b>737</b> 13:45-14:00 THE USE OF FRUITING SYNCHRONY IN THE MOVEMENT DECISIONS OF FORAGING CHIMPANZEES: WHAT BOTANICAL KNOWLEDGE DOES IT REVEAL? <i>*K.R.L. Janmaat, S.D. Ban, R. Mundry, J. Riedel, C. Boesch</i></p> <p><b>738</b> 14:00-14:15 DEVELOPING A GENERAL THEORY OF PRIMATE SPACE USE: INSIGHTS FROM MECHANISTIC ANALYSES OF MAMMALIAN MOVEMENT ECOLOGY <i>*P.R. Moorcroft, M. Crofoot, J.D. Forester, A. Barnett, M.A. Lewis</i></p> <p><b>739</b> 14:15-14:30 DYNAMIC LANDSCAPE PARTITIONING AMONG BABOON SOCIAL GROUPS <i>*A.C. Markham, S.C. Alberts, J. Altmann</i></p> <p><b>740</b> 14:30-14:45 NO NEED FOR VIOLENCE: MEMORY-BASED FORAGING AND CONSPECIFIC RESOURCE COMPETITION CAN EXPLAIN PRIMATE "WAR ZONES" <i>*M.C. Crofoot, D. Caillaud, L. Salvador, S. Scarpino, D. Boyer, S.J. Ryan, P. Walsh</i></p> <p><b>741</b> 14:45-15:00 NAVIGATING THE LANDSCAPES OF FEAR AND FOOD <i>*E.P. Willems, R.A. Hill</i></p> <p><b>742</b> 15:00-15:15 THE IMPORTANCE OF LOCATION: EVALUATING MANTLED HOWLER MONKEY SPATIAL FORAGING DECISIONS FOR NEIGHBORHOOD EFFECTS <i>*M.E. Hopkins</i></p> <p><b>743</b> 15:15-15:30 INFLUENCE OF NUTRIENT REQUIREMENTS ON ACTIVITY BUDGET AND MOVEMENTS PATTERNS IN PRIMATES <i>*C. Sueur, O. Petit, J.L. Deneubourg, I.D. Couzin</i></p> <p><b>744</b> 15:30-15:45 HOW DO LEMURS RETURN TO IMPORTANT LOCATIONS? <i>*E.P. Cunningham, F.P.G. Princee, F. Lopresti</i></p> <p><b>745</b> 15:45-16:00 LINKING FORAGING EXPERIMENTS TO THE REAL WORLD: WHAT ARE WE MISSING? <i>*C.H. Janson</i></p>	<p><b>CT-D-17A [746-W]</b> Workshop <b>STATUS REVIEW AND CONSERVATION ACTION PLANNING FOR NOMASCUS GIBBONS</b> <i>P. Insua-Cao, Y. Lu, F. Pengfei, B. Rawson, T. Geissmann, S.J. Browne</i></p>	<p><b>EN-A-17A [747-S]</b> Symposium <b>COPING WITH RESOURCE SCARCITY: DIVERSITY IN PRIMATE ADAPTATIONS</b> <i>R.A. Delgado, S.A. Wich</i></p> <p><b>748</b> 13:30-13:35 INTRODUCTION: COPING WITH RESOURCE SCARCITY <i>*R.A. Delgado, S. Wich</i></p> <p><b>749</b> 13:35-13:50 PRIMATE ORAL ADAPTATIONS TO STARCH AS A RESPONSE TO RESOURCE SCARCITY <i>*A.J. Cunningham, E.R. Vogel, N.J. Dominy</i></p> <p><b>750</b> 13:50-14:05 GETTING TOUGH DURING PERIODS OF FOOD SCARCITY: FOOD MECHANICAL PROPERTIES IN LEMURS <i>*N. Yamashita, C. Tan, C. Vinyard</i></p> <p><b>751</b> 14:05-14:20 THE INFLUENCE OF SEASONAL SCARCITY ON POWER DYNAMICS IN VERREAUX'S SIFAKA (<i>PROPIITHECUS VERREAUX</i>) <i>*R.J. Lewis</i></p> <p><b>752</b> 14:20-14:35 WHY LEAVE A FEEDING PATCH: PATCH CHOICE, PATCH DEPLETION AND NUTRIENT MIXING IN PERUVIAN TAMARIN MONKEYS (<i>Saguinus mystax</i> and <i>Saguinus fuscicollis</i>) <i>*P.A. Garber, M.K. Kowalewski</i></p> <p><b>753</b> 14:35-14:50 MALE SCARCITY: HOW DOES THE NUMBER OF MALES IN A GROUP INFLUENCE SPIDER MONKEY SOCIETY? <i>*S.N. Spehar, A. Di Fiore, A. Link, F. Aureli, G. Ramos-Fernandez, C.M. Schaffner, Y. Shimooka, L. Vick, R.B. Wallace</i></p> <p><b>754</b> 14:50-15:05 PARTNERS AS A SCARCE RESOURCE IN KHAO-YAI WHITE-HANDED GIBBONS <i>*U.H. Reichard</i></p> <p><b>755</b> 15:05-15:20 UNDER PRESSURE: RESOURCE SCARCITY AND ORANG-UTAN ENERGETICS IN A BORNEAN PEAT-SWAMP FOREST <i>*M.E. Harrison, H.C. Morrogh-Bernard, S.J. Husson</i></p> <p><b>756</b> 15:20-15:35 HABITAT SELECTION BY BORNEAN ORANGUTANS: POPULATION DISPERSION IN RESPONSE TO TEMPORAL CHANGES IN LOCAL FOOD AVAILABILITY <i>*A.J. Marshall</i></p> <p><b>757</b> 15:35-15:50 THE ROLE OF SEASONAL FALLBACK FOODS IN THE DIETS OF CHIMPANZEES AND GORILLAS IN BWINDI IMPENETRABLE NATIONAL PARK <i>*C. Stanford, J.B. Nkurunungi</i></p>

## EN-B

## EN-B-17A [758-S]

Symposium

**HOW NONHUMAN GREAT APES RESPOND TO ANTHROPOGENIC CONTEXTS**

K.J. Hockings, C.Sousa, G.Campbell-Smith

Introduction to symposium

**759** 13:40-14:00FISSION-FUSION DYNAMICS IN CHIMPANZEES (*Pan troglodytes verus*) AT BOSSOU, REPUBLIC OF GUINEA: ECOLOGICAL CONSTRAINTS IN AN ANTHROPOGENIC ENVIRONMENT.

\*K.J. Hockings, J.R. Anderson, T. Matsuzawa

**760** 14:00-14:20HOW CHIMPANZEES (*Pan troglodytes verus*) IN GUINEA-BISSAU RESPOND TO ANTHROPOGENIC CONTEXTS: A HUMAN PERSPECTIVE

\*C. Sousa, A. Frazão-Moreira, C. Casanova

**761** 14:20-14:40DYNAMICS OF CROP-RAIDING BY SUMATRAN ORANGUTANS (*PONGO ABELII*) LIVING IN A HUMAN-DOMINATED LANDSCAPE IN NORTHERN SUMATRA, INDONESIA

\*G.A. Campbell-Smith, M. Linkie

**762** 14:40-15:00

BEHAVIORAL RESPONSES OF ONE WESTERN LOWLAND GORILLA GROUP AT BAI HOKOU, CENTRAL AFRICAN REPUBLIC, TO TOURISTS, RESEARCHERS AND TRACKERS

\*M. Klailova, C. Hodgkinson, C. Cipolletta, P. Lee

**763** 15:00-15:20THE EFFECT OF WILDLIFE TOURISM ON A POPULATION OF WILD AND SEMI-WILD SUMATRAN ORANGUTANS (*Pongo abelii*) IN BUKIT LAWANG, INDONESIA

\*D.F. Dellatore, P. Hadisiswoyo, H. Buckland

**764** 15:20-15:40LOCAL PERCEPTIONS OF VILLAGE CHIMPANZEES (*PAN TROGLODYTES SCHWEINFURTHII*) AT BULINDI, UGANDA: MANAGEMENT IMPLICATIONS.

\*M.R. McLennan, C.M. Hill

**765** 15:40-16:00FROM A PRISTINE FOREST INTO A PLANTATION: DIETARY DIFFERENCES IN WILD ORANGUTANS (*PONGO ABELII*)

\*M.E. Hardus, G.A. Campbell-Smith, A.R. Lameira, S.A. Wich

## EN-C

## EN-C-17A [766-S]

Symposium

**LANDSCAPE GENETICS IN PRIMATES: NEW METHODS AND APPLICATIONS**

M. Blair, K. Guschanski, D.J. Melnick

INTRODUCTION

D.J. Melnick

**767** 13:32-13:52

THE EFFECT OF LANDSCAPE FEATURES ON POPULATION GENETIC STRUCTURE OF YUNNAN SNUB-NOSED MONKEY

\*Z.J. Liu, B.P. Ren, Y.C. Long, F.W. Wei, M. Li

**768** 13:52-14:12

FORWARD-TIME, INDIVIDUAL-BASED SIMULATIONS AND THEIR USE IN PRIMATE LANDSCAPE GENETICS

\*A. Di Fiore

**769** 14:12-14:32LANDSCAPE CONNECTIVITY DIFFERENCES IN BLACK LION TAMARINS (*LEONTOPIHTECUS CRYSOPIYGUS*) AND UNGULATES ACROSS THE FRAGMENTED LANDSCAPE OF THE PONTAL REGION, BRAZIL

\*A. Goncalves Da Silva, B. Perez-Sweeney, C.S. Martins, E.P. Medici, A. Nava, C.B. Valladares-Padua, D.J. Melnick

**770** 14:32-14:52

LANDSCAPE HETEROGENEITY INFLUENCES GENE FLOW IN THE CENTRAL AMERICAN SQUIRREL MONKEY

\*M.E. Blair, D.J. Melnick

**771** 14:52-15:12

FINE SCALE POPULATION STRUCTURE OF CHIMPANZEES AT THE SANAGA RIVER IN CENTRAL CAMEROON

M.K. Gonder, S. Locatelli, \*L. Ghobrial

**772** 15:12-15:32

GENETIC EVIDENCE FOR RECENT CONTRACTION AND EXPANSION OF BORNEAN ORANGUTAN POPULATIONS

\*N. Arora, A. Nater, N. Morf, E.P. Willems, D. Perwitasari-Farajallah, J. Pamungkas, B. Goossens, M. van Noordwijk, C. van Schaik, M. Krutzen

**773** 15:32-15:52

Canceled

DISCUSSION AND ADDITIONAL QUESTIONS FOR SPEAKERS

## EN-D

## EN-D-17A [774-S]

Symposium

**ACOUSTIC VARIABILITY IN NONHUMAN PRIMATES: DETERMINANTS AND CONTROLS**

H. Koda, A. Lemasson

**775** 13:30-14:00

CONSTRAINTS OF VOCAL PRODUCTION IN NON-HUMAN PRIMATES.

\*T. Riede

**776** 14:00-14:30

NOISE-DEPENDENT VOCAL PLASTICITY IN A NOCTURNAL PRIMATE?

\*C. Schopf, S. Schmidt, E. Zimmermann

**777** 14:30-15:00

THE VARIABILITY OF DIANA MONKEYS' CONTACT CALLS: SOCIAL AND PHYSICAL ENVIRONMENT DETERMINANTS

\*A. Candioti, K. Zuberbühler, A. Lemasson

**778** 15:00-15:30ATYPICAL CALLS IN CAPTIVE ORANGUTANS (*PONGO SP.*): THE DAWN OF AN OPEN-ENDED ACOUSTIC REPERTOIRE

\*A.R. Lameira, M.E. Hardus, R.W. Shumaker, S.A. Wich

**779** 15:30-16:00

GUENON VOCALIZATIONS AND HUMAN LANGUAGE: PARALLELS AND CONTRASTS

\*A. Lemasson, K. Ouattara, K. Zuberbühler

## LE-A

## LE-A-17A [780-W]

Workshop

**NEW APPROACHES IN THE STUDY OF GREAT APE PSYCHOLOGY AND WELL-BEING: THEORY, METHODS, AND APPLICATION**

D. Durham

## LE-B

## LE-B-17A [781-S]

Symposium

**PRIMATE MORPHOLOGY, METABOLISM, AND BRAIN FROM AN EVOLUTION STANDPOINT**

H. Ota

**782** 13:30-13:55

POPULATION GENETICS IN HUMANS AND NON-HUMAN PRIMATES: HOW ARE WE DIVERSE?

\*N. Osada

**783** 13:55-14:20

ARCHAIC POSTCRANIUM OF MIDDLE MIOCENE APES AND PARALLEL EVOLUTION OF MODERN POSTCRANIAL ANATOMY IN EXTANT APES

\*M. Nakatsukasa

**784** 14:20-14:45

THE SIGNATURE OF POSITIVE SELECTION ON HUMAN-SPECIFIC INSERTIONS AND DELETIONS

C-H. Chen, T-J. Chuang, B-Y. Liao, \*F-C. Chen

**785** 14:45-15:10

EVOLUTION OF PRIMATE GENE EXPRESSION

\*P. Khaitovich, S. Paabo, M. Somel

**786** 15:10-15:35

THE GENETIC BASIS FOR PRIMATE EVOLUTION AT CIS-REGULATORY SYSTEM LEVEL.

\*K. Sumiyama

DISCUSSION

Y. Shimooka (Commentator)

## LE-C



# Poster Presentation

[EN-MR2]

14th September (Tuesday) 10:40-12:40 for Odd Paper ID  
16th September (Thursday) 10:40-12:40 for Even Paper ID

## Ecology and Behavior

- 788**  
ENERGY EXPENDITURE AND GAIN FROM NUTCRACKING IN WILD CAPUCHIN MONKEYS (*CEBUS LIBIDINOSUS*) IN PIAUI, BRAZIL  
\*D.M. Fragaszy, Q. Liu, M. English, K. Simpson
- 789**  
MECHANISMS UNDERLYING THE EFFECT OF FEEDING SUBGROUP SIZE ON FEEDING RATE IN JAPANESE MACAQUES (*Macaca fuscata*)  
\*N. Kazahari, N. Agetsuma
- 790**  
NEWLY OBSERVED BEHAVIOR OF SOLITARY WESTERN LOWLAND GORILLAS  
\*S. Hongo, E. Inoue, C. Ando, J. Yamagiwa
- 791**  
FORAGING BEHAVIORS OF SILVERED LUTONG (*Trachypithecus auratus*) DURING THE 1997/98 EL NINO IN INDONESIA  
\*M. Mitani, K. Watanabe, K.J. Gurmaya, E.N. Megantara
- 792**  
SEXUALLY ACTIVE FEMALE INFLUENCE ON MALE FEEDING SELECTION AND BEHAVIORS IN WILD JAPANESE MACAQUES  
\*M. Matsubara
- 793**  
FEEDING ECOLOGY OF BORNEAN ORANGUTAN (*PONGO PYGMAEUS MORIO*) IN DANUM VALLEY, SABAH, MALAYSIA: 3 YEARS OF RECORDS INCLUDING TWO MAST FRUITINGS  
\*T. Kanamori, N. Kuze, H. Bernard, T.P. Malim, S. Kohshima
- 794**  
INFLUENCE OF FRUGIVOROUS DIET ON THE RANGING PATTERN OF THE WESTERN LOWLAND GORILLA GROUP IN MOUKALABA-DOUDOU NATIONAL PARK, GABON  
\*Y. Iwata, C. Ando
- 795**  
COAT COLOURATION AS A FORM OF CAMOUFLAGE IN A GROUP OF HIGHLY EXUDATIVOROUS PRIMATES (LORISIDAE: NYCTICEBUS)  
\*K.A.I. Nekaris, C.R. Starr, N. Das, R.S. Moore, L.D. Rogers
- 796**  
THE EFFECTS OF FOOD TYPE AND INTAKE LEVEL ON DIGESTA PASSAGE TIME AND DIGESTIBILITY IN JAPANESE MACAQUES  
\*A. Sawada, E. Sakaguchi, G. Hanya
- 797**  
FOOD PROCESSING ACTIVITIES AND DIET OF SOOTY MANGABEYS (*CERCOCEBUS ATYS*)  
\*W.S. McGraw, D.J. Daegling, A.E. Vick, A. Bitty, R. Paacho
- 798**  
FOOD TOUGHNESS AND CRANIODENTAL MORPHOLOGY IN THREE SYMPATRIC GUENON SPECIES IN KALINZU FOREST, UGANDA  
\*D.B. Koyabu, H. Endo, D. Shimizu, C. Hashimoto, T. Furuichi, Y. Tashiro, M. Go, H. Ithobe
- 799**  
POSITIONAL BEHAVIOR OF THE GOLDEN MONKEY (*CERCOPITHECUS MITIS KANDTI*) IN THE VOLCANOES NATIONAL PARK, RWANDA  
\*B. Arakwiye, D. Tuyisingize, K. Fawcett, A. Gasogo
- 800**  
MIXED TROOPS OF SAIMIRI SCIUREUS ALBIGENA - CEBUS APELLA IN FRAGMENTS AT COLOMBIAN LLANOS  
\*X. Carretero-Pinzón, T.R. Defler, M. Ruiz-García
- 801**  
QUO VADIS? DUAL SEX EMIGRATION IN A FEMALE-BONDED CERCOPITHECINE SPECIES, THE BONNET MACAQUE, IN BANDIPUR NATIONAL PARK, SOUTHERN INDIA  
\*K. Mukhopadhyay, A. Sinha
- 802**  
DEMOGRAPHIC DATA OF WILD JAPANESE MONKEYS ON KOSHIMA ISLAND: PRELIMINARY ANALYSIS OF THE PERIOD 1952 - 2009  
\*T. Suzumura, F. Kanchi, H. Sugiura, T. Matsuzawa, G. Idani
- 803**  
SEXUAL SEGREGATION IN SPIDER MONKEYS (*Ateles geoffroyi*) AT RUNAWAY CREEK NATURE RESERVE, BELIZE  
\*K.S. Hartwell, H. Notman, M.S. Pavelka
- 804**  
AN EVOLUTIONARY MODEL OF SOCIAL AND ECOLOGICAL NICHE CONSTRUCTION IN HOMINIDS  
\*N.M. Malone, A. Fuentes, F.J. White
- 805**  
HUDDLING GROUPS OF JAPANESE MACAQUES IN ARASHIYAMA, KYOTO, CENTRAL JAPAN  
\*H. Ogawa, K. Wada
- 806**  
ETHNOMETHOD OF THE INTERACTIONS THROUGH LONG-DISTANCE CALL, PANT-HOOT AND THE RELATION WITH THEIR FISSION-FUSION GROUPING PATTERN OF CHIMPANZEES AT MAHALE  
\*S. Hanamura
- 807**  
READAPTATION OF INJURED JUVENILE GORILLA AND CARE BY OTHER MEMBERS IN THE GROUP OF WESTERN GORILLAS IN MOUKALABA-DOUDOU NATIONAL PARK  
\*C. Ando, P.P. Mbehang Nguema
- 808**  
IS SEX-BIASED DISPERSAL AFFECTING THE WITHINGROUP SOCIAL RELATIONSHIPS? A COMPARATIVE STUDY USING TWO COLOBINE SPECIES IN GUINEA BISSAU  
\*T. Minhos, C. Sousa, L. Vicente, M.W. Bruford
- 809**  
INFANT HANDLING BY ADULT MALES IN BLACK HANDED SPIDER MONKEYS (*Ateles geoffroyi*)  
\*K.J.E. Evans, K.S. Hartwell, M.S. Pavelka, H. Notman
- 810**  
HOW DO DEFEATED ALPHA MALE CHIMPANZEES KEEP DOMINANCE RANK? FROM OBSERVATIONS IN THE MAHALE MOUNTAINS, TANZANIA.  
\*A. Inaba, T. Nishida
- 811**  
SPATIAL DEPLOYMENT AND AFFILIATIVE RELATIONS AMONG MALE JAPANESE MACAQUES (*MACACA FUSCATA*) ON KINKAZAN ISLAND, JAPAN  
\*T. Kawazoe
- 812**  
DEVELOPMENTAL CHANGE IN MOTHER-OFFSPRING DISTANCE IN FISSION-FUSION SOCIETY OF WILD CHIMPANZEES  
\*T. Matsusaka, K.A. Katumba
- 813**  
RANGING BEHAVIORS IN MIXED-SPECIES ASSOCIATIONS OF BLUE MONKEYS AND RED-TAILED MONKEYS IN THE KALINZU FOREST, UGANDA  
\*M. Go, C. Hashimoto
- 814**  
TESTOSTERONE IS CORRELATED TO SOCIAL RANK BUT NOT TO AGGRESSION IN STUMP-TAILED MACAQUES  
\*R. Mondragón-Ceballos, H. Cervantes de la Luz, A.L. Cerda-Molina, L. Hernández-López
- 815**  
VOCAL REPERTOIRE OF WOOLLY MONKEYS (*LAGOTHRIX POEPPIGII*) IN THE ECUADORIAN AMAZON.  
\*A. Dacier, L. Pozzi, C.A. Schmitt, A. Di Fiore
- 816**  
SONG FREQUENCY AND SONG FUNCTION OF JAVAN GIBBONS (*HYLOBATES MOLOCH*)  
\*S. Ham, S. Lappan, D. Rinaldi, J.C. Choe
- 817**  
INCEST AVOIDANCE IN WILD WOOLLY MONKEYS, LAGOTHRIX LAGOTRICHIA LUGENS, AT LA MACARENA, COLOMBIA  
\*A. Nishimura
- 818**  
Canceled
- 819**  
DISTRIBUTION AND FUNCTION OF SEPARATING INTERVENTIONS AS A POLITICAL BEHAVIOR IN CAPTIVE BONOBO (*PAN PANISCUS*)  
\*K.J. Boose, D.M. Kitchen, F.J. White
- 820**  
FACIAL SYMMETRY AND SEXUAL DIMORPHISM ARE CORRELATED IN FOUR NON-HUMAN PRIMATE SPECIES  
\*A.C. Little, J.A.F. Griffey
- 821**  
PHYSIOLOGICAL STUDY OF SEXUAL BEHAVIORS IN CAPTIVE SICHUAN SNUB-NOSED MONKEYS  
\*Y. Kim, E.H. Ko, A. Kezele, S. Lappan, Y.D. Yoon, J.C. Choe
- 822**  
SEXUAL SELECTION AND CANINE DIMORPHISM IN THE TWO MEXICAN HOWLER MONKEYS *ALOUATTA PALLIATA* AND *A. PIGRA*  
\*M.A. Kelaita, P.A.D. Dias, L. Cortés-Ortiz
- 823**  
SEMEN DIFFERENCES BETWEEN CONSECUTIVE EJACULATIONS IN STUMPTAILED MACAQUES (*MACACA ARCTOIDES*)  
\*L. Hernandez-López, A.L. Cerda Molina, D. García Granados, R. Mondragón Ceballos
- 824**  
PRELIMINARY POPULATION SURVEY OF THE RHESUS MACAQUES IN BARMÍ BAZAAR, BANGLADESH: SURVEY APPROACHES FOR STUDYING URBAN PRIMATES  
\*R.C. Kyes, M.M. Feeroz, M.A. Aziz, S.M. Rabiul Alam, F. Akhtar, S. Ahmed, M.I. Nahid, B.H. Badal, G. Engel, L. Jones-Engel
- 825**  
HABITAT SELECTION BY CHIMPANZEES (*PAN TROGLODYTES*) IN SAVANNA WOODLAND, WESTERN TANZANIA  
\*M. Yoshikawa, H. Ogawa, M. Koganezawa, G. Idani
- 826**  
POPULATION SIZE AND BEHAVIOR OF ASSAMESE MACAQUES (*MACACA ASSAMENSIS*) AT THAM PLA TEMPLE, MAE SAI, CHIANG RAI PROVINCE, NORTHERN THAILAND.  
\*K. Kaewpanus, N. Aggimarangsee
- 827**  
Canceled
- 828**  
SLEEPING SITE ECOLOGY IN A PAIR-LIVING LEMUR: THE EFFECT OF SEASON  
\*R. Ramanankirahina, M. Joly-Radko, E. Zimmermann
- 829**  
IMPLICATION OF VIDEOGRAPHY FOR PRIMATE POSITIONAL BEHAVIOR STUDY: A STUDY CASE OF *RHINOPITHECUS AVUNCULUS* IN VIETNAM  
\*Le Khac Quyet, H.H. Covert, K.A. Wright, N.J. Stevens
- 830**  
SLEEPING POSTURES OF CAPTIVE CHIMPANZEES  
\*K. Zamma, S. Fujita, K. Fuwa, S. Hirata, Y. Ishida, K. Kusunoki, T. Namba, K. Sugama, Y. Tashiro, M. Yoshikawa
- 831**  
INFLUENCE OF VEGETATION CHARACTERISTICS AND POPULATION DENSITY ON THE CALLING BEHAVIOUR OF TWO SPECIES OF BORNEAN GIBBONS.  
\*M.C. Hamard, S.M. Cheyne, K. Breslin, L. Cervera Graupera, V. Nijman
- 832**  
BEHAVIOURAL ECOLOGY OF LONG-TAILED MACAQUES IN THE CONTEXT OF URBAN COMMENSALISM: A COMPARISON STUDY BETWEEN BANGKOK (THAILAND) AND BALI (INDONESIA)  
\*F. Brotcorne, M-C. Huynen, R. Beudels-Jamar, T. Savini, W.I. Nengah, A. Fuentes
- 833**  
ECOLOGICAL CONTEXT OF *CAMPONOTUS* ANT-FISHING AMONG THE M GROUP CHIMPANZEES IN MAHALE MOUNTAINS NATIONAL PARK, TANZANIA.  
\*H. Nishie
- 834**  
BEHAVIORAL THERMOREGULATION AGAINST THE DIURNAL HEAT STRESS UNDER WATER SCARCITY IN COMMON BROWN LEMURS: IMPLICATIONS FOR THE EVOLUTION OF CATHEMERALITY  
\*H. Sato
- 835**  
THE AMBATOVY LEMUR MANAGEMENT PROGRAM: PRELIMINARY RESULTS OF LEMUR BRIDGE USE, SALVAGING AND THE RE-INTRODUCTION AND TRANSLOCATION PROGRAM  
V. Mass, A. Cook, \*B. Rakotomanga, G. Rakotondratsimba, P. Andrianainomahela

**836**  
THE NEUROPSY REPORT ON A WILD AND VERY OLD JAPANESE MACAQUE (*MACACA FUSCATA YAKU*)  
\*S. Hayakawa, A.D. Hernandez, M. Suzuki, K. Sugaya, H. Koda, H. Hasegawa, H. Endo

**837**  
ECOLOGICAL CORRELATES TO REPRODUCTIVE LIFE HISTORY TRAITS IN FEMALE NEW WORLD MONKEYS  
\*C. Shibata

**838**  
ASSESSMENT OF LONG-TERM CHARACTERISTICS OF HOME RANGE USE AMONG WHITE-HANDED GIBBONS (*HYLOBATES LAR*) IN KHAO YAI NATIONAL PARK, THAILAND  
\*L.E. Overbaugh, T.Q. Bartlett, W.Y. Brockelman

**839**  
THE EARLIEST RECORD OF LEAF-CLIPPING BEHAVIOR IN WILD CHIMPANZEE?  
\*G. Yamakoshi, K. Koops

**840**  
LOCOMOTOR AND POSITIONAL BEHAVIOR OF JUVENILE LOWLAND WOOLLY MONKEYS (*Lagothrix poeppigii*) IN YASUNI NATIONAL PARK, ECUADOR  
\*E.R. Middleton, C.A. Schmitt, A. Di Fiore

**841**  
PRELIMINARY SURVEY OF GASTROINTESTINAL PARASITES IN WILD WHITE-FACED CAPUCHINS (*CEBUS CAPUCINUS*) IN COSTA RICA  
\*N. Parr, L.M. Fedigan, S. Kutz

## Psychology

**842**  
DEVELOPMENT OF STACKING AND LINING UP BLOCKS IN CHIMPANZES: A STUDY WITH A MOTHER-REARED INFANT AND A HUMAN-REARED INFANT  
\*H. Takeshita, M. Hayashi, N. Nobuyoshi, Y. Kiriya, Y. Fukunaga

**843**  
GREAT APES' AND CHILDREN'S REASONING ABOUT SPATIAL RELATIONS IN A MAPPING TASK  
\*A. Hribar, D. Haun, J. Call

**844**  
THINKING ABOUT THINKING - CHIMPANZES' UNDERSTANDING OF ANOTHER ONE'S KNOWLEDGE  
\*M. Schmelz, J. Call, M. Tomasello

**845**  
THE PRESENCE OF THE BOGART ILLUSION IN LIGHT AND DARK SCLERA APES  
\*J.A. Mayhew, J.C. Gómez

**846**  
DISCRIMINATION BETWEEN MAMMALS AND INANIMATE OBJECTS IN AN ORANG-UTAN (*PONGO PYGMAEUS*) USING THE PREFERENTIAL-LOOKING PARADIGM  
\*Y. Hanazuka, A. Midorikawa

**847**  
STICK TOOL USE BY CAPUCHIN MONKEYS IN SERRA DA CAPIVARA, BRAZIL  
\*T. Falótico, E.B. Ottoni

**848**  
SPATIAL ROTATION ABILITIES IN RHESUS MACAQUES: A ROTATIONAL DISPLACEMENT TASK  
\*K.D. Hughes, L.R. Santos

**849**  
CAPUCHIN MONKEYS CHOOSE EFFICIENT ROUTES USING A LASER POINTER APPARATUS  
\*A.H. Eury, D.M. Fragaszy

**850**  
AN EXPERIMENTAL STUDY OF BEHAVIORAL SYNCHRONY IN CHIMPANZES USING MATCHING TO SAMPLE TASK  
\*Y. Hattori, M. Tomonaga

**851**  
PERCEPTION OF THE MOTION TRAJECTORY OF OBJECTS FROM MOVING CAST SHADOWS IN INFANT JAPANESE MACAQUES (*MACACA FUSCATA*)  
\*T. Imura, I. Adachi, Y. Hattori, M. Tomonaga

**852**  
SPATIAL MEMORY IN ADULT MALE RHESUS MACAQUES: RELATIONSHIP BETWEEN SEASON AND THE INFLUENCE OF TESTOSTERONE  
\*S.B.Z. Stephens, R.A. Herman, K. Wallen

**853**  
WHY IS SYMMETRY DIFFICULT FOR CHIMPANZES?  
\*M. Hirose, T. Matsuzawa

**854**  
MOTION JUDGMENT IN INFANT JAPANESE MACAQUES (*MACACA FUSCATA*)  
\*S. Watanabe, M. Tomonaga, K. Fujita

**855**  
A NONVERBAL FALSE-BELIEF TASK IN GIBBONS, CHIMPANZES AND HUMAN CHILDREN  
\*Y. Inoue, E. Inoue, M. Hayashi, S. Itakura

**856**  
GREAT APE PLANNING ABILITIES - A REVIEW AND FUTURE AVENUES  
\*M. Osvath

**857**  
COMPARATIVE UNDERSTANDING OF CAUSALITY BY GREAT APES: WHEN IS A ROPE WORTH PULLING?  
\*S.T. Boysen, B. Bell, C. Richard, P. Khan, J. Rafert

**858**  
EFFECTS OF CAGE MESH ON POINTING HAND SHAPES IN CHIMPANZES (*PAN TROGLODYTES*)  
D.A. Leavens, J. Ely, W.D. Hopkins, \*K.A. Bard

**859**  
EFFECTS OF OBSERVER PRESENCE ON GESTURE PRODUCTION BY CHIMPANZES (*PAN TROGLODYTES*)  
\*D.A. Leavens, I. Harrison, W.D. Hopkins

**860**  
GEOGRAPHICAL VARIATION OF SPECIES-SPECIFIC CALLS AND ITS ACOUSTICAL DIFFERENTIATION IN WILD AGILE GIBBONS (*HYLOBATES AGILIS*)  
\*C. Oyakawa, H. Koda, T. Tanaka, T. Murai, S. Nurulkamilah, Rizaldi, A. Bakar, J. Pamungkas, K.H. Han, N. Masataka

**861**  
THE EFFECT OF PRENATAL EXPOSURE TO ENDOCRINE DISRUPTING CHEMICALS (EDCS) ON THE DEVELOPMENT OF MACAQUE SOCIALIZATION.  
\*A. Nakagami, T. Negish, K. Kawasaki, Y. Kuroda, Y. Yoshikawa, T. Koyama

**862**  
IT TAKES TWO: COOPERATIVE PROBLEM-SOLVING IN CHIMPANZES (*PAN TROGLODYTES*)  
\*G.E. Fletcher, F. Warneken, M. Tomasello

**863**  
PRELIMINARY INVESTIGATION OF SOCIAL AFFILIATION AS CORRELATES OF HORMONES IN FEMALE CAPTIVE CAPUCHIN MONKEYS (*CEBUS APELLA*).  
\*M. McLeod, C.L. Cunningham, S. Hardie

**864**  
MIMICRY AS A SOCIAL GLUE: DOES MIMICRY INCREASE HELPING BEHAVIOR IN YOUNG CHILDREN AND NONHUMAN GREAT APES?  
\*Y. Rekers, D. Haun, M. Carpenter, M. Tomasello

**865**  
DOUBLE ASYMMETRY OF RECIPROCITY IN HUMANS: A BEHAVIORAL AND NEUROBIOLOGICAL STUDY  
\*S. Okamoto-Barth, A. Riedl, M. Strobel, H. Breman, A. Heinecke, R. Goebel

**866**  
DO MONKEYS READ OTHERS' GAZE STATEMENT IN NON-COMPETITIVE SITUATION?  
\*C. Murai, M. Tomonaga

## Conservation

**867**  
CHANGING COMPOSITION OF THE MALABO BUSH-MEAT MARKET, BIKO ISLAND, EQUATORIAL GUINEA  
\*D.T. Cronin, W.A. Morra, R.A. Biacho, G.W. Hearn

**868**  
Canceled

**869**  
CONSERVATION STATUS OF THE BIKO ISLAND DRILL (*MANDRILLUS LEUCOPHAEOUS POENSIS*)  
\*J.R. Owens, G.W. Hearn

**870**  
GENETIC STRUCTURE OF GUINEA BABOONS IN GUINEA BISSAU (WEST-AFRICA)  
\*M.J. Ferreira Da Silva, R. Godinho, C. Casanova, M.W. Bruford

**871**  
IMPACT OF HUMAN SUBSISTENCE ON GORILLA CONSERVATION IN THE KAHUZI-BIEGA NATIONAL PARK, DEMOCRATIC REPUBLIC OF CONGO  
\*D. Bikaba, A.K. Basabose, J. Yamagiwa

**872**  
PERCEPTIONS OF FLORA AND PRIMATE CONSERVATION BY THE BEAFADA: THE CASE OF THE LAGOAS DE CUFADA NATURAL PARK (GUINEA-BISSAU)  
\*R. Amador, C. Casanova, P. Lee

**873**  
BIRD: BIODIVERSITY INTEGRATION AND RURAL DEVELOPMENT  
\*C. Giacomini, G. Bounoun, G. Beccaro, C. Peano, S. Bechis, M. Gamba, V. Sorrentino, S. Audifredi, E. Miasa, J.C. Rakotondravelo, A. Ouledi, C. Tan, J. Ratsimbazafy

**874**  
DISCOVERY & PROTECTION OF BONOBO POPULATIONS: BONOBO SURVEYS, INFORMATION EXCHANGE, AND THE DEVELOPMENT OF A LINKED CONSTELLATION OF COMMUNITY-BASED RESERVES  
\*S.J. Coxe, N. Mwanza, A. Almquist, E. Lubala, B. Mupenda, M. Hurley, A. Lokasola, A. Tusumba, M. Mulavwa, K. Yangozene, M.S. Balemba, J. Ikongo, R. Mboyo

**875**  
SURVEYS, MONITORING, HABITUATION, AND PROTECTION OF BONOBOS AT KOKOLOPORI BONOBO RESERVE, DRC  
\*A.L. Lokasola

**876**  
THE EFFECT OF REPELLING A WILD JAPANESE MACAQUE TROOP IN THE NORTHERN AREA OF MT. FUJI, JAPAN  
\*Y. Yoshida, D. Nakamura, S. Hayashi, M. Fujisono, A. Kobayashi, M. Kitahara

**877**  
POPULATION STATUS OF AND CROP-RAIDING BY TAIWANESE MACAQUES, *MACACA CYCLOPIS* IN TAINAN COUNTY, TAIWAN  
\*S-W. Chang, L-W. Changchien

**878**  
DISTRIBUTION AND PRESENT STATUS OF NON-HUMAN PRIMATES IN CENTRAL AND EAST OF LAO PDR  
\*S. Pathomthong, K. Akhavongsa, P. Pengpet, B. Praxaysombath, S. Malavijitnond, Y. Hamada

**879**  
CONSERVATION OF THE WHITE-HEADED LANGUR (*TRACHYPITHECUS LEUCOCEPHALUS*) IN CHONGZUO, GUANGXI, CHINA: SCIENTISTS, GOVERNMENT, ENTERPRISES, AND COMMUNITY  
\*L. Yin, D. Qin, M. Yao, W. Pan

**880**  
CURRENT STATUS AND CONSERVATION OF JAPANESE MACAQUES IN YAKUSHIMA ISLAND  
\*S. Hayaishi

**881**  
MANAGING WILDLIFE DAMAGE IN DEPOPULATED AND AGING COMMUNITY - CASE STUDY IN HAYAKAWA-TOWN, JAPAN -  
\*K. Yamamoto

**882**  
POPULATION VIABILITY ANALYSIS TO MANAGE LOCAL PROBOSCIS MONKEY (*NASALIS LARVATUS*) POPULATIONS  
\*D.J. Stark, V. Nijman, B. Goossens

**883**  
RAPID PROTOCOL FOR SPECIES DISCRIMINATION OF ORANGUTANS (*PONGO* SP.)  
\*D. Perwitasari-Farajallah, Y. Kawamoto, J. Pamungkas

**884**  
EFFECTS OF VEGETATION TYPE ON HABITAT USE BY CROP-RAIDING JAPANESE MACAQUES DURING A FOOD-SCARCE SEASON  
\*A. Yamada, Y. Muroyama

**885**  
MANAGING MONKEYS AND MANGOS  
\*M. Baker

**886**  
CONSTRUCTING PRIMATE LONG-TERM RESEARCH BASES: AN EXAMPLE OF TIBETAN MACAQUE (*MACACA THIBETANA*) AT MT. HUANGSHAN  
\*J.H. Li, Y. Zhu, D.P. Xia, B.H. Sun, S.Q. Jiang, L.L. Wang

**887**  
HABITAT SIZE AFFECTS THE PHYSICAL CONDITION OF BLACK HOWLERS (*ALOUATTA PIGRA*) IN THE STATE OF CAMPECHE, MEXICO  
\*D. Canales-Espinosa, P.A.D. Dias, S. Aguilar-Cucurachi, L. Cortes Ortiz, A. Rangel-Negrin

**888**  
ABUNDANCE OF NON-HUMAN PRIMATES IN THE ATLANTIC FOREST OF CHAPADA DIAMANTINA, ONE OF THE LAST STRONGHOLDS FOR TWO CRITICALLY ENDANGERED SPECIES  
\*A.C. de A. Moura

**889**  
 COMPREHENSIVE PROCEDURE FOR BEHAVIORAL REHABILITATION OF PRIMATES: IMPLICATION OF REINTRODUCTION AND WELLBEING  
*\*S. Sanchez-Lopez, J. Vea-Baro, E. Rodriguez-Luna*

## Morphology and Phylogeny

**890**  
 LONGITUDINAL CHANGES IN BODY LENGTH, BODY MASS AND REPRODUCTIVE OUTPUT IN RELATION TO AGING IN PROVISIONED, FREE-RANGING JAPANESE MACAQUE FEMALES  
*\*H. Kurita*

**891**  
 COMPARATIVE STUDY OF MOLAR MICROWEAR IN *Saguinus* spp.  
*\*T. Hori*

**892**  
 DISTAL HUMERAL AND ULNAR MORPHOLOGY OF *PARAPRESBYTIS*, A PLIOCENE COLOBINE FROM RUSSIA AND MONGOLIA  
*\*N. Egi, M. Nakatsukasa, N.P. Kalmykov, E.N. Maschenko, M. Takai*

**893**  
 THE TRABECULAR BONE MICROSTRUCTURE OF THE CERVICAL, THORACIC AND LUMBAR SPINE IN JAPANESE MACAQUES (*MACACA FUSCATA*)  
*\*H. Chen, T. Nishimura, M. Takai*

**894**  
 LOCOMOTOR KINEMATICS OF THE SEMI-WILD ASSAMESE MACAQUES IN NORTHERN THAILAND.  
*\*E. Hirasaki, S. Malaivijitnond, Y. Hamada*

**895**  
 ONTOGENETIC DIVERGENCE OF CRANIOFACIAL MORPHOLOGY BETWEEN TWO SUBSPECIES OF JAPANESE MACAQUE (*MACACA FUSCATA*)  
*\*W. Yano, N. Egi, T. Takano, N. Ogihara*

**896**  
 EXTENDED GROWTH IN THE FEMALE ANTHROPOID SKULL: ARE LINKS BETWEEN MORPHOLOGY AND SOCIAL BEHAVIOUR UNIVERSAL AMONG TAXA?  
*\*K.L. Balolia*

**897**  
 REINTERPRETATION OF PHYLOGENETIC RELATIONSHIPS AMONG ANCHOMOMYINS (PRIMATES) ON THE LIGHT OF NEW FINDINGS FROM THE IBERIAN PENINSULA  
*\*J. Marigó, R. Minwer-Barakat, S. Moyà-Solà*

**898**  
 FUNCTIONAL MORPHOLOGY OF THE PERONEAL PROCESS OF ANCHOMOMYS (ADAPOIDEA) FROM THE MIDDLE EOCENE OF SANT JAUME DE FROTANYA (CATALONIA, SPAIN)  
*\*I. Roig, S. Moyà-Solà*

**899**  
 EVOLUTION OF LARGE CERCOPITHECINES *PROCYNOCEPHALUS/PARADOLICHOPITHECUS* FROM THE MIDDLE PLIOCENE AND EARLY PLEISTOCENE OF EURASIA  
*\*T.D. Nishimura, M. Takai*

**900**  
 DIET AND DENTITION IN THE GREATER ANTILLEAN PRIMATES  
*\*S.B. Cooke*

## Genomics and Genetics

**901**  
 CHARACTERIZATION OF GENETIC DIVERSITY AND STRUCTURE OF CAPTIVE COLONIES OF MACAQUES  
*\*H. Tanaka, M. Morimoto, Y. Kamanaka, K. Matsubayashi, S. Kawamoto, Y. Kawamoto*

**902**  
 GENETIC STRUCTURE OF A BROWN LEMUR INTERSPECIFIC HYBRID POPULATION IN BERENTY, MADAGASCAR  
*\*M. Tanaka, H. Tanaka, H. Hirai*

**903**  
 A CLADISTIC APPROACH TO TESTING PHYLOGENOMIC EVOLUTION IN STREPSIRHINES  
*\*B. Picone, L. Sineo*

**904**  
 INTRASUBSPECIFIC POLYMORPHISMS AND INTER-SUBSPECIFIC DIVERGENCE OF BITTER TASTE RECEPTOR GENES IN CHIMPANZEES  
*\*T. Hayakawa, T. Sugawara, Y. Go, T. Udono, H. Hirai, H. Imai*

**905**  
 TOWARD DEEPER UNDERSTANDING COLOR VISION OF HOWLER MONKEYS  
*\*Y. Matsushita, H. Oota, B. Welker, S. Kawamura*

**906**  
 GENETIC CHARACTERIZATION OF A BROWN LEMUR HYBRID ZONE (*EULEMUR RUFIFRONS* X *E. CINEREI-CEPS*)  
*K.E. Delmore, E.E. Louis Jr., \*S.E. Johnson*

**907**  
 REGION-SPECIFIC DISTRIBUTION OF NON-TASTER JAPANESE MACAQUES  
*\*Y. Suzuki, T. Sugawara, A. Matsui, Y. Go, H. Hirai, H. Imai*

**908**  
 GENETIC DIFFERENTIATION IN SIMULATED MONKEY POPULATIONS WITH SPATIAL SUBSTRUCTURE AND VARYING GROUP FUSION AND FISSION SIZE THRESHOLDS  
*\*T.J. Olivier*

**909**  
 PHENOTYPIC CONSEQUENCES AND EVOLUTION OF THE GHRELIN O-ACYL TRANSFERASE GENE VARIATION IN HUMANS  
*\*K. Nakayama, Y. Yanagisawa, A. Ogawa, T. Gotoh, L. Munkhtulga, H. Miyashita, Y. Kagawa, S. Iwamoto*

**910**  
 PHYLOGENETIC RELATIONSHIP BETWEEN PRIMATES AND SCADENTIA BY FLOW SORTING AND RECIPROCAL CHROMOSOME PAINTING  
*\*F. Dumas, F. Bigoni, L. Sineo, R. Stanyon*

## Brain Research and Neuroscience

**911**  
 COLOR VISION IN FEMALE MONKEYS CARRYING PROTANOPIA GENE  
*\*K.A. Widayati, B. Suryobroto, A. Saito, A. Mikami*

**912**  
 LONGITUDINAL DEVELOPMENT OF VOLUMETRIC CEREBRAL ASYMMETRIES OF CHIMPANZEES  
*\*H. Makishima, T. Sakai, A. Mikami, D. Hirai, T. Nishimura, J. Suzuki, Y. Hamada, M. Tomonaga, M. Tanaka, T. Miyabe, M. Nakatsukasa, T. Matsuzawa*

**913**  
 TEMPORAL CHARACTERISTICS OF SHIFTS OF COVERT ATTENTION  
*\*K. Ono, M. Inoue, S. Miyachi, A. Mikami*

**914**  
 SYNAPTIC DENSITY IN THE DEVELOPING NEOCORTEX OF CHIMPANZEES AND OTHER GREAT APES  
*\*C.D. Stimpson, L.I. Grosman, M. Uddin, D.E. Wildman, M. Goodman, W.B. Baze, P.R. Hof, C.C. Sherwood*

**915**  
 LEARNING SERIAL ORDER BY COMMON MARMOSETS  
*\*R. Koba, A. Takemoto, M. Miwa, K. Nakamura*

## Animal welfare

**916**  
 THE EFFECT OF ENVIRONMENTAL ENRICHMENT ON THE BEHAVIOUR OF CAPTIVE TUFTED CAPUCHIN MONKEYS (*CEBUS APELLA*)  
*\*K.R. Jacobsen, L.F. Mikkelsen, J. Hau*

**917**  
 SERUM GLUCOCORTICOID AND TESTOSTERONE OF SPIDER MONKEYS (*Ateles geoffroyi*) IN CAPTIVITY: RESPONSE TO CAPTURE AND ANESTHESIA  
*\*A. Rodas-Martinez, D. Canales, D.M. Brousset, W.F. Swanson, M.C. Romano*

**918**  
 SHORT TERM EFFECTS OF PHYSICAL AND FORAGING ENRICHMENT ON THE BEHAVIOUR OF CAPTIVE CHIMPANZEES (*PAN TROGLODYTES*)  
*\*S. Yamazaki, S. Mitsuya, H. Sugawara, M. Izawa, K. Takeda, Y. Handa, T. Miura, Y. Ichijo, S. Takeda*

**919**  
 THE EFFECTS OF VARIED FEEDING SCHEDULES ON THE BEHAVIOURS OF CAPTIVE TUFTED CAPUCHINS (*CEBUS APELLA*)  
*\*S. Mitsuya, N. Miura, S. Takeda, T. Uda, K. Masaki*

**920**  
 HAEMATOLOGICAL, ZOONOTIC MORPHOMETRY FOREIGN AND A POPULATION OF *Cebus libidinosus* NATIONAL PARK BRASILIA-DF, BRAZIL.  
*\*D.S. Teixeira, R.A. Santos, M. Carvalho, R. Carvalho, M. Castro, A.P. Romano*

**921**  
 IMPORTANCE OF SYMBIOTIC CILIATE TROGLODYTELLA ABRASSARTI FOR CHIMPANZEES (*PAN TROGLODYTES*)  
*\*I. Profousová, S. Kišidayová, Z. Váradyová, J. Šimůnek, I. Koppová, K.J. Petřelková, D. Modrý*

**922**  
 SEROLOGICAL SURVEY OF HUMAN PATHOGENS IN CAPTIVE CHIMPANZEES AT THE JAPANESE PRIMATE RESEARCH CENTER  
*\*T. Kooriyama, M. Okamoto, T. Nishida, H. Nishimura, T. Miyabe*

# Presentation Guidelines

## Poster Presentations

### Size and materials

Poster boards are 210 cm high by 90 cm wide and can accommodate posters of up to A0 size (1189mm high x 841mm wide). Materials for attaching posters to boards (e.g. Scotch tape, thumbtacks) will be supplied.

### Presentation

Posters will be displayed in Multipurpose Room 2 on the third floor of the Faculty of Engineering Bldg. No.8. The poster board for your poster will be marked with a three-digit Paper ID, which appears in this program, and in the CD-R and book form of the Abstracts. All posters will be displayed on the boards from 9:30 Monday, 13th to 16:30 Friday, 17th. Two poster sessions are scheduled as follow;

Session 1 (Odd ID numbers): Tuesday 14th September (10:40-12:40)

Session 2 (Even ID numbers): Thursday 16th September (10:40-12:40)

Authors of poster presentations are expected to be present near their own posters throughout the session. We will have to discard any posters which have not been taken down by 16:30 on Friday 17th.

## Oral and Symposium Presentations

Authors of papers in both oral sessions and symposia are requested to comply with the following guidelines.

### Equipment, format and submission

Each presentation room will be equipped with a laptop PC with CD/DVD drive, Windows7 and Microsoft Office 2007, a loud-speaker, a screen, a microphone and a laser pointer. Only PowerPoint presentations made in Microsoft PowerPoint 2007 or earlier versions will be accepted. Those who use Macintosh or Unix systems are requested to convert their presentations to those mentioned above before they leave their country. Authors are requested to use standard fonts only, such as Times New Roman, Arial, Arial Black, Arial Narrow, Century, Century Gothic, Courier, and Courier New. The organizers cannot guarantee proper operation of any sound or movie files that are linked to a PowerPoint file. If authors want to use these functions, then they may do so, but at their own risk. In such cases, it is recommended to use popular and widely compatible formats such as MP3, AAC, and WMA for sound, and MPEG-1, MPEG-2, and WMV.

Authors will be able to check their presentation file(s) in the Preview Room (see below). If you find that your presentation does not work properly, please ask Preview Room staff for their support.

### Presentation file submission

By the day before the scheduled presentation, please bring your presentation file(s) to the Preview Room (second floor of Clock Tower building) on a USB memory, CD-R, or DVD-R. The presentation should be in a file named with the three-digit Paper ID (see Program or Abstracts) followed by the family name of the presenter. If sound or movie files are used in your presentation, please put these files and the PowerPoint file in a folder, which is also named with the three-digit Paper ID number followed by the family name of the presenter. Copy your presentation file or folder onto a Preview Room computer following instructions from the staff there.

It is highly advisable that you check your presentation for compatibility by yourself, or with the help of our technical staff, before submitting your file(s). This is particularly important if you prepared your file with Macintosh, Unix, or other systems. The staff will do their best to help you. The Preview Room will be open from 15:00 to 20:00 on 12th September, from 9:30 to 20:00 on 13th to 16th, and from 9:30 to 12:00 on 17th.

### Timing signals for the presentation

Oral sessions will be led by chairpersons appointed by the Committee of Program and Symposium. Timing for each presentation is strictly under the control of the chairpersons. Oral presentations are allocated 15 minutes, plus 5 minutes for discussion. The end of 15 minutes will be indicated by a single ring of a bell, and the end of the 20 minute session by rings of a bell.

Symposium sessions will be led by the organizers and the timing for each presentation is under the control of the organizers. Most participants in the congress are not native speakers of English. Many of the audience may have difficulty understanding your paper if the delivery is too fast. Please bear this in mind when considering the content of your 15- minute presentation.

### **Presentation time schedule**

Please arrive at the presentation room 10 minutes prior to the start of the session. Please note that times listed in the program cannot be altered. If a speaker fails to appear at his/her allotted time there will be a break or additional discussion time, and subsequent presentations will take place according to the schedule.

## **Workshop Presentations**

Each presentation room will be equipped with a laptop PC with CD/DVD drive, Windows7 and Microsoft Office 2007, a loud-speaker, a screen, a microphone and a laser pointer. The congress organizers do not provide any services other than the facilities described above for workshops. The organizers of each workshop are responsible for presentation format and time-keeping. Note that authors in workshops should not submit a presentation file(s) to the Preview Room.



# Contributors

## Supporters of Excursions & Post Congress Tours

Arashiyama Monkey Park "Iwatayama" : 嵐山モンキーパーク いわたやま  
 Kyoto City Zoo : 京都市動物園  
 Kyoto University Museum : 京都大学総合博物館  
 Japan Monkeys Centre : 日本モンキーセンター

## Sponsorship

Science Council of Japan : 日本学術会議  
 Japan Society for the Promotion of Science : 日本学術振興会  
 Kyoto University : 京都大学  
 The Tokyo Club : 東京倶楽部

## Donation for IPS 2010, Kyoto (第23回国際霊長類学会寄付者)

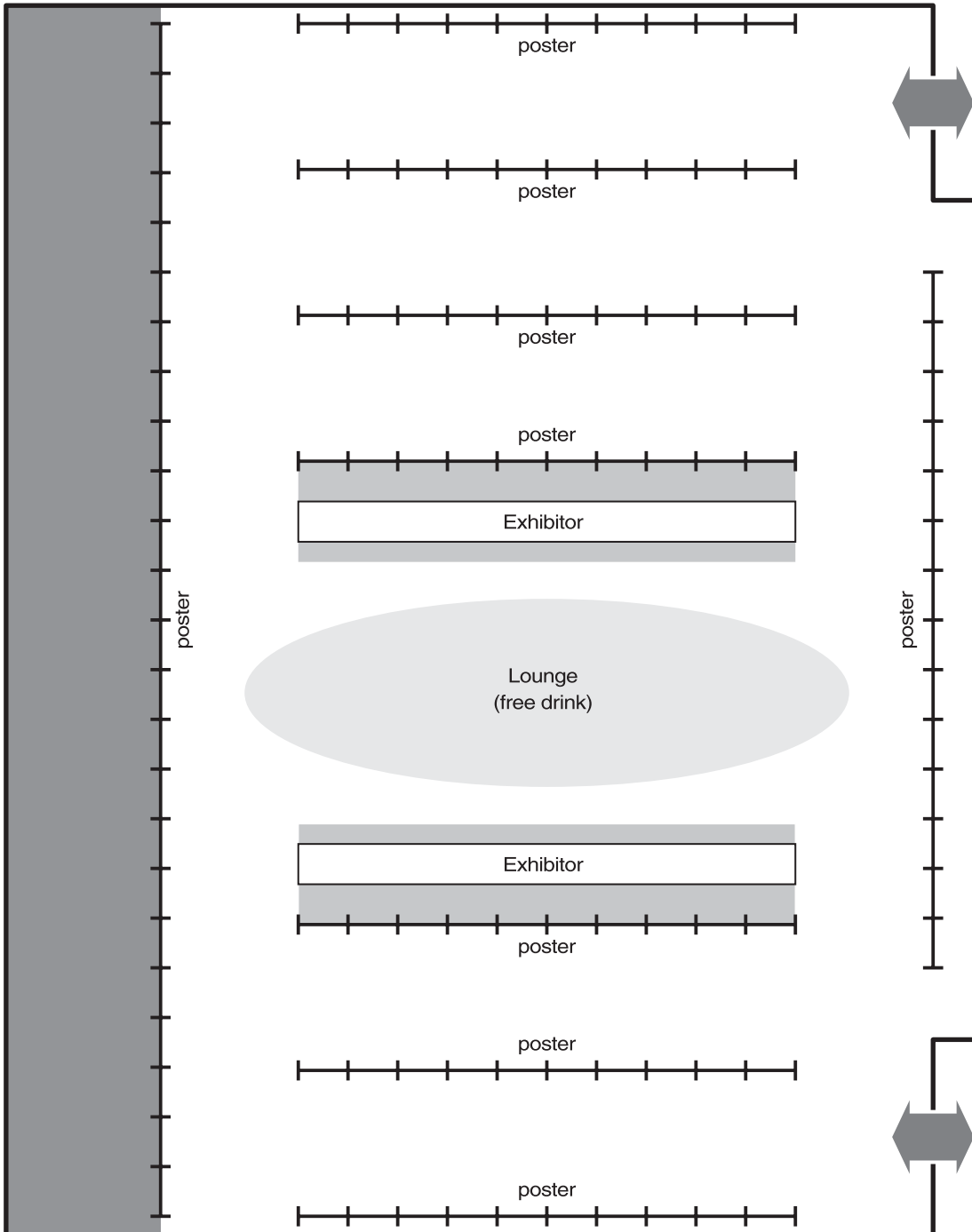
As of 24 August, 2010 (2010年8月24日現在)

Primate Research Institute, Kyoto University : 京都大学霊長類研究所  
 Ken Hayashibara, Hayashibara Biochemical Lab. Inc. : 林原健、株式会社林原生物化学研究所  
 Kazuo Yamamoto, Sanwakagaku Kenkyusho Co., Ltd. : 山本一雄、株式会社三和化学研究所  
 Hideo Taki, Research Institute for Culture Energy and Life, Osaka Gas Co., Ltd. : 多木秀雄、大阪ガス株式会社エネジー・文化研究所  
 Yuko Iwasaki, Iwasaki Kikaku Co., Ltd. : 岩崎佑子、株式会社岩崎企画  
 Ado Yamamoto, Nagoya Railroad Co., Ltd. : 山本亜土、名古屋鉄道株式会社  
 Akagakiya : 赤垣屋  
 Hideichiro Takashima, Kyoei Steel Ltd. : 高島秀一郎、共栄製鋼株式会社  
 Yuko Fujiki, Sugimurakai : 藤木裕子、杉村会  
 Suntory Holdings Limited : サントリー・ホールディングス株式会社  
 Kunihiko Fujita, Kinden Corporation : 藤田訓彦、株式会社きんでん  
 Yosuke Mori, Kansai Electric Power Co., Ltd. : 森詳介、関西電力株式会社  
 Takashi Yokoo, Seiko Co., Ltd. : 横尾尚志、株式会社星光  
 Kiyoshi Koike, NPO Jane Goodall Institute-Japan : 小池潔、特定非営利活動法人ジェーン・グドール・インスティテュート・ジャパン  
 Takayuki Kanei, Kansai Telecasting Corporation : 兼井孝之、関西テレビ放送  
 Shigeru Hasegawa, Wakenyaku Co., Ltd. : 長谷川滋、和研薬株式会社  
 Mitsutoshi Ishida : 石田光利  
 Kyoko Saitoh : 齋藤経子  
 Toshisada Nishida : 西田利貞  
 NPO Kodomo Support Project : 特定非営利活動法人子どもサポートプロジェクト  
 Shingo Miura, Waseda University : 三浦慎悟、早稲田大学  
 Tatsuro Nakamura : ナカムラ タツロウ  
 Rie Ito : 伊藤理恵  
 Sachiko Usami, Ohmisaku : 宇佐見幸子、近江作  
 Shigeru Hoshikawa, Vice-Mayor, Kyoto City : 星川茂一、京都市副市長  
 Senri Natori : 名取千里  
 Norio Ueda : 上田典男  
 Nobue Hayama : 端山信枝  
 Kazuko Nishigaki : 西垣和子  
 Yukimaru Sugiyama : 杉山幸丸  
 Ayako Suyama : 陶山文子  
 Yuriko Niwa : 丹羽百合子  
 Kayoko Mera : 目良加代子  
 Tokyo Zoological Park Society : 東京動物園協会

# Exhibition

## Exhibitor

Cambridge University Press	Conservation International	John Wiley & Sons
Lomir Biomedical	Oxford Brookes University	Primate Conservation, Inc.
Springer Japan	Support for Conservation of Bonobo / Kalinzu Forest Project	
University Chicago Press		



**EN-MR2** (Multipurpose Room 2 on the 3rd Floor of Faculty of Engineering Bldg. No.8)