International Primatological Society
XXIII Congress Kyoto 2010
12-18 September, 2010 Kyoto, Japan
Kyoto University (Yoshida Main Campus)

Program

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

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Welcome Message

Juichi Yamagiwa
President of the Organizing Committee for IPS2010

WELCOME

It is our great pleasure to welcome you to the 23rd 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.
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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 OS 10.4 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 Demachiyanagi Station. Kyoto University is 10 to 15 min walk from Demachiyanagi 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.
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)."
Congress Timetable

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

<table>
<thead>
<tr>
<th>Date</th>
<th>Activities</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>12 Sep</td>
<td>Registration</td>
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<td>13 Sep</td>
<td>Registration</td>
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<tr>
<td>14 Sep</td>
<td>Plenary lecture (T. Furusato) 9:30-10:30</td>
<td>CT-A</td>
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<tr>
<td>14 Sep</td>
<td>Poster presentations 10:40-12:40</td>
<td>EN-MR2</td>
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<tr>
<td>14 Sep</td>
<td>Oral sessions 11:10-12:10</td>
<td>CT-A ~ D</td>
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<tr>
<td>14 Sep</td>
<td>Lunch</td>
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<tr>
<td>15 Sep</td>
<td>Plenary lecture (G. Suzuki) 9:30-10:30</td>
<td>CT-A</td>
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<td>15 Sep</td>
<td>Oral sessions 10:40-12:40</td>
<td>EN-MR2</td>
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<td>15 Sep</td>
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<td>16 Sep</td>
<td>Plenary lecture (G. Riccioli) 9:30-10:30</td>
<td>CT-A</td>
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<td>16 Sep</td>
<td>Poster presentations 10:40-12:40</td>
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<td>17 Sep</td>
<td>Plenary lecture (B. Thierry) 9:30-10:30</td>
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<td>17 Sep</td>
<td>Lunch</td>
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<td>18 Sep</td>
<td>Board meeting 9:00-12:00</td>
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<td>18 Sep</td>
<td>Open symposium 13:30-17:30</td>
<td>CT-A</td>
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<td>Closing Address</td>
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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?
S. B. Hrdy (University of California-Davis, United States) [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

<table>
<thead>
<tr>
<th>Time</th>
<th>Venue</th>
<th>Session Title and Details</th>
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</thead>
<tbody>
<tr>
<td>11:10-13:10</td>
<td>CT-A</td>
<td>Oral Session (Psychology): Learning in social context 1</td>
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<tr>
<td>CT-B</td>
<td>Oral Session (Psychology): Self and others</td>
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<tr>
<td>CT-C</td>
<td>Oral Session (Psychology): Communication</td>
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<tr>
<td>CT-D</td>
<td>Workshop</td>
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<tr>
<td>EN-A</td>
<td>Oral Session (Ecology &amp; Behavior): Feeding ecology 1 - Africa</td>
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<tr>
<td>EN-B</td>
<td>Oral Session (Ecology &amp; Behavior): Communication ecology</td>
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<tr>
<td>EN-C</td>
<td>Oral Session (Ecology &amp; Behavior): Interspecies interaction</td>
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<tr>
<td>EN-D</td>
<td>Oral Session (Conservation): New aspects on conservation</td>
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<tr>
<td>LE-A</td>
<td>Oral Session (Morphology &amp; Phylogeny): Aspects of dentition and cranial morphology</td>
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<tr>
<td>LE-B</td>
<td>Oral Session (Veterinary Medicine): Captive primate management and disease</td>
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<tr>
<td>LE-C</td>
<td>Workshop</td>
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</tbody>
</table>

Program Overview
14th September     Tuesday

09:15-17:00     Registration
09:30-10:30     Plenary lecture
THE SIGNIFICANCE OF ARDIPITHECUS RAMIDUS IN UNDERSTANDING HOMINID DIVERGENCE.  
G. Suwa (The University Museum, The University of Tokyo, Japan) [ 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

<table>
<thead>
<tr>
<th>TIME</th>
<th>SESSIONS</th>
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</thead>
</table>
| 13:30 - 16:00 (see pages p30-p31) | CT-A-14A Symposium  
ONTOGYENY OF PLANT SELECTION RELATED TO NUTRITIONAL AND MEDICINAL PROPERTIES IN PRIMATES  
[ 191-S / 192—197 ] |
|           | CT-B-14A Symposium  
PRIMATES IN ZOOS, MUSEUMS, LABORATORIES AND THE WILD: COMPARATIVE AND COMPLEMENTARY RESEARCH  
[ 198-S / 199…203 ] |
|           | CT-C-14A Symposium  
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 ] |
|           | CT-D-14A Workshop  
THE EXPANDING ROLE OF PRIMATE SANCTUARIES - GOING BEYOND RESCUE AND CARE  
[ 212-W ] |
| 16:15 - 19:35 (see pages p32-p33) | CT-A-14E Oral Session (Ecology & Behavior)  
Social organization  
[ 265—273 ] |
|           | CT-B-14E Oral Session (Ecology & Behavior)  
Parental behavior  
[ 274—282 ] |
|           | CT-C-14E Oral Session (Ecology & Behavior)  
Self-medication and host-parasite ecology  
[ 283—292 ] |
|           | EN-A-14E Oral Session (Morphology & Phylogeny)  
Locomotion & posture  
[ 293—297 ] |
|           | EN-B-14E Oral Session (Genomics & Genetics)  
Population differentiation  
[ 298—306 ] |
|           | EN-C-14E Oral Session (Psychology)  
Caring for others  
[ 307—315 ] |
|           | EN-D-14E Oral Session (Psychology)  
Reasoning & laterality  
[ 316—324 ] |
|           | LE-A-14E Oral Session (Conservation)  
Conservation of New World monkeys  
[ 325—332 ] |
|           | LE-B-14E Oral Session (Conservation)  
Conservation of Asian monkeys  
[ 333—340 ] |
|           | LE-C-14A Workshop  
THE ADVANCEMENT OF COGNITIVE AND BEHAVIORAL RESEARCH IN ZOO SETTINGS  
[ 264-W ] |
15th September  Wednesday

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>09:15-17:00</td>
<td>Registration</td>
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<tr>
<td>09:30-10:30</td>
<td>Plenary lecture</td>
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<tr>
<td></td>
<td>LIFE HISTORY OF FEMALE BONOBOS AND THEIR CONTRIBUTION TO PEACEFUL NATURE OF THE SOCIETY T. Furuichi (Primate Research Institute, Kyoto University, Japan) [341]</td>
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<tr>
<td>10:40-12:40</td>
<td>Oral sessions</td>
</tr>
<tr>
<td>12:40-13:30</td>
<td>Lunch</td>
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<tr>
<td>13:30-16:00</td>
<td>Symposia</td>
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<tr>
<td>16:15-18:45</td>
<td>Student affair workshop</td>
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### Concurrent Sessions Wednesday - summary

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td></td>
<td>CT-B-15M Oral Session (Morphology &amp; Phylogeny) Morphology of lemurs and monkeys [348-352]</td>
</tr>
<tr>
<td></td>
<td>CT-C-15M Oral Session (Veterinary Medicine) Disease transmission in the wild and captivity [353-358]</td>
</tr>
<tr>
<td></td>
<td>CT-D-15A Workshop WARMING WORLD: CAN GIBBON TACKLE CLIMATE CHANGE? [415-W]</td>
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<tr>
<td></td>
<td>CT-D-15E Workshop DEVELOPING A NATIONAL BONOBO CONSERVATION STRATEGY USING SPATIAL MODELS FOR ACTION PLANNING [484-W]</td>
</tr>
<tr>
<td>13:30 - 16:00</td>
<td>CT-A-15A Symposium VARIATION AND EVOLUTION OF PRIMATE COLOR VISION REVEALED BY CROSS-DISCIPLINARY STUDIES [393-S / 394-399 / 466-471]</td>
</tr>
<tr>
<td></td>
<td>CT-B-15A Symposium HUMAN-MACAQUE INTERACTIONS: TRADITIONAL AND MODERN PERSPECTIVES ON COOPERATION AND CONFLICT [400-S / 401-407]</td>
</tr>
<tr>
<td></td>
<td>CT-C-15A Symposium A NATIONAL BONOBO CONSERVATION STRATEGY: ARE WE READY FOR SOME SPATIAL MODELLING? [408-S / 409-414]</td>
</tr>
<tr>
<td></td>
<td>CT-C-15E Symposium PARENTAL INVESTMENTS AND DEMANDS OF INFANTS [477-S / 478-483]</td>
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<tr>
<td>16:15 - 18:45</td>
<td>CT-D-15A Symposium VARIATION AND EVOLUTION OF PRIMATE COLOR VISION REVEALED BY CROSS-DISCIPLINARY STUDIES [393-S / 394-399 / 466-471]</td>
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<tr>
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<td>CT-C-15E Symposium PARENTAL INVESTMENTS AND DEMANDS OF INFANTS [477-S / 478-483]</td>
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</table>

### Staff & Committee

- CT-B-15A Symposium: HUMAN-MACAQUE INTERACTIONS: TRADITIONAL AND MODERN PERSPECTIVES ON COOPERATION AND CONFLICT [400-S / 401-407]
- CT-C-15A Symposium: A NATIONAL BONOBO CONSERVATION STRATEGY: ARE WE READY FOR SOME SPATIAL MODELLING? [408-S / 409-414]
- CT-C-15E Symposium: PARENTAL INVESTMENTS AND DEMANDS OF INFANTS [477-S / 478-483]
- CT-D-15E Workshop: DEVELOPING A NATIONAL BONOBO CONSERVATION STRATEGY USING SPATIAL MODELS FOR ACTION PLANNING [484-W]

### Additional Sessions

- EN-C-15E Symposium: CAPUCHIN EVOLUTION: COMPARING BEHAVIOR, MORPHOLOGY & GENETICS ACROSS SPECIES [499-S / 500-506]
- LE-C-15A Workshop: INNOVATIONS IN FIELD METHODS [465-W]
- LE-C-15E Workshop: BEYOND COEXISTENCE: WORKSHOP ON THE BIOSYNERGY OF HUMANS AND OTHER PRIMATES - EXPLORING OUR BONDS IN CARE, GIVING, CONSERVATION AND RESEARCH [531-W]
## Concurrent Sessions Thursday - summary

<table>
<thead>
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<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Venue</th>
</tr>
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<tbody>
<tr>
<td>13:30</td>
<td>CT-A</td>
<td>PRIMATE EVOLUTION BY GENE LOSS</td>
<td>[533-534]</td>
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<tr>
<td>13:30</td>
<td>CT-B</td>
<td>PRIMATE CYTOGENETICS AND CELL GENETICS</td>
<td>[539-540]</td>
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<tr>
<td>13:30</td>
<td>CT-C</td>
<td>THE CHIMPANZEE BRAIN</td>
<td>[546-547]</td>
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<tr>
<td>13:30</td>
<td>CT-D</td>
<td>STATUS REVIEW AND CONSERVATION ACTION PLANNING FOR HOOLOCK GIBBON</td>
<td>[553]</td>
</tr>
<tr>
<td>13:30</td>
<td>EN-A</td>
<td>HOW TO STUDY PERSONALITY DIFFERENCES IN PRIMATES</td>
<td>[554-555]</td>
</tr>
<tr>
<td>13:30</td>
<td>EN-B</td>
<td></td>
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<tr>
<td>13:30</td>
<td>EN-C</td>
<td>PRIMATES IN FRAGMENTS</td>
<td>[562-563]</td>
</tr>
<tr>
<td>13:30</td>
<td>EN-D</td>
<td>GREAT APES AND ECOSYSTEM DIVERSITY</td>
<td>[571-572]</td>
</tr>
<tr>
<td>13:30</td>
<td>LE-A</td>
<td>ECOLOGY OF TEMPERATE PRIMATES</td>
<td>[580-581]</td>
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<tr>
<td>13:30</td>
<td>LE-B</td>
<td>LANDSCAPES FOR TOOL USE</td>
<td>[589-590]</td>
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<tr>
<td>13:30</td>
<td>LE-C</td>
<td>THE WORLD'S 25 MOST ENDANGERED PRIMATES 2010-2012</td>
<td>[597]</td>
</tr>
<tr>
<td>16:15</td>
<td>CT-A</td>
<td>ORAL SESSION (Genomics &amp; Genetics)</td>
<td>[598-605]</td>
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<tr>
<td>16:15</td>
<td>CT-B</td>
<td>ORAL SESSION (Conservation)</td>
<td>[606-613]</td>
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<tr>
<td>16:15</td>
<td>CT-C</td>
<td>ORAL SESSION (Conservation)</td>
<td>[614-622]</td>
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<tr>
<td>16:15</td>
<td>CT-D</td>
<td></td>
<td>[553-W]</td>
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<tr>
<td>16:15</td>
<td>EN-A</td>
<td>ORAL SESSION (Psychology)</td>
<td>[623-630]</td>
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<td>16:15</td>
<td>EN-B</td>
<td>ORAL SESSION (Psychology)</td>
<td>[631-638]</td>
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<tr>
<td>16:15</td>
<td>EN-C</td>
<td>ORAL SESSION (Morphology &amp; Phylogeny)</td>
<td>[639-645]</td>
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<td>16:15</td>
<td>EN-D</td>
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<td>16:15</td>
<td>LE-A</td>
<td>ORAL SESSION (Ecology &amp; Behavior)</td>
<td>[646-654]</td>
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<td>[655-663]</td>
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<td>16:15</td>
<td>LE-C</td>
<td>ORAL SESSION (Ecology &amp; Behavior)</td>
<td>[664-672]</td>
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17th September  Friday

09:15-17:00  Registration
09:30-10:30  Plenary lecture
  EVOLUTIONARY TRANSFORMATION IN PRIMATE SOCIETIES: THE MACAQUE MODEL
  B. Thierry (Department Ecology, Physiology & Ethology, IPHC, CNRS, University of Strasbourg, France) [674]
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
  J. Yamagiwa (President of IPS, Kyoto University, Japan) [787]
16:45-18:45  General assembly

Closing Address

Concurrent Sessions Friday - summary

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
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<tr>
<td>10:40</td>
<td>CT-A-17M Oral Session (Morphology &amp; Phylogeny)</td>
<td>Evolution &amp; theory</td>
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<td>CT-B-17M Oral Session (Psychology)</td>
<td>Learning, perception &amp; concepts</td>
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<td></td>
<td>CT-C-17M Oral Session (Psychology)</td>
<td>Use of social cues</td>
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<tr>
<td>13:30</td>
<td>CT-A-17A Symposium</td>
<td>RECIPROCITY IN GREAT APES</td>
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<td></td>
<td>CT-B-17A Symposium</td>
<td>MULTI-LEVEL SOCIETIES IN PRIMATES</td>
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<td>CT-C-17A Symposium</td>
<td>FROM RANDOM WALKS TO TRAVEL ROUTES: UNDERSTANDING PATTERNS OF PRIMATE MOVEMENT AND SPACE-USE</td>
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<td>CT-D-17A Workshop</td>
<td>STATUS REVIEW AND CONSERVATION ACTION PLANNING FOR NOMASCUS GIBBONS</td>
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<tr>
<td>10:40</td>
<td>EN-A-17M Oral Session (Ecology &amp; Behavior)</td>
<td>Feeding ecology 3 - Asia &amp; America</td>
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<td></td>
<td>EN-B-17M Oral Session (Ecology &amp; Behavior)</td>
<td>Reproductive behavior and physiology</td>
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<td>EN-C-17M Oral Session (Ecology &amp; Behavior)</td>
<td>Primates and human landscape</td>
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<td>13:30</td>
<td>EN-A-17A Symposium</td>
<td>COPING WITH RESOURCE SCARCITY: DIVERSITY IN PRIMATE ADAPTATIONS</td>
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<td>EN-B-17A Symposium</td>
<td>HOW NONHUMAN GREAT APES RESPOND TO ANTHROPOGENIC CONTEXTS</td>
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<tr>
<td></td>
<td>EN-C-17A Symposium</td>
<td>LANDSCAPE GENETICS IN PRIMATES: NEW METHODS AND APPLICATIONS</td>
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<tr>
<td></td>
<td>EN-D-17A Symposium</td>
<td>ACOUSTIC VARIABILITY IN NONHUMAN PRIMATES: DETERMINANTS AND CONTROLS</td>
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<td>LE-A-17M Oral Session (Welfare)</td>
<td>Welfare issues in zoos and research institutions</td>
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<td>LE-B-17A Symposium</td>
<td>PRIMATE MORPHOLOGY, METABOLISM, AND BRAIN FROM AN EVOLUTION STANDPOINT</td>
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<td></td>
<td>LE-C-17A Symposium</td>
<td>NEW APPROACHES IN THE STUDY OF GREAT APE PSYCHOLOGY AND WELL-BEING: THEORY, METHODS, AND APPLICATION</td>
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</table>

[65]
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.

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

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
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 - 12:30 Poster session 1
12:30 - 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 - 17:00 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 - 12:00 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)

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 introductive 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)
   Shinsoh 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
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
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<tr>
<td>11:10-11:30</td>
<td>CT-A</td>
<td>THE USE OF FIELD EXPERIMENTS TO STUDY CULTURE IN WILD CHIMPANZEES</td>
<td>*T. Gruber, K. Zuberbühler</td>
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<tr>
<td>11:30-11:50</td>
<td>CT-B</td>
<td>REVIEW ON SELF-CONTROL STUDIES IN TWO LEMUR SPECIES: THE BROWN AND THE BLACK LEMUR</td>
<td>*E. Geny, J.J. Roeder</td>
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<tr>
<td>11:50-12:10</td>
<td>CT-C</td>
<td>THE EVOLUTIONARY ROOTS OF HUMAN SOCIAL NORMS: AN EXPERIMENTAL STUDY</td>
<td>*M. Dindo, F. Subiaul</td>
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<td>12:10-12:30</td>
<td>CT-D</td>
<td>MAJORITY INFLUENCE DURING SOCIAL LEARNING IN CHIMPANZEES AND HUMANS</td>
<td>*M. Dindo, F. Subiaul</td>
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<td>12:30-12:50</td>
<td>EN-A</td>
<td>COMPARATIVE FEEDING ECOLOGY OF TWO SYMPATRIC MOUSE LEMURS (MICROCEBUS SPP.) IN NORTHERN MADAGASCAR</td>
<td>*S.I.K. Thorton, U. Radespiel</td>
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<td>12:50-13:10</td>
<td>CT-B</td>
<td>CONTRAFREELOADING WITH MOVIE STIMULI IN JAPANESE MACAQUES</td>
<td>*T. Grura</td>
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<td>13:00-13:20</td>
<td>CT-C</td>
<td>ACOUSTIC VARIATION AMONG HYBRID AND PUREBRED BLACK AND MANTELED HOWLER MONKEYS (ALOUATTA SPP.) WITHIN AND OUTSIDE A MEXICAN HYBRID ZONE</td>
<td>*D.M. Kitchen, T.J. Bergman, L. Cortes-Ortiz</td>
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<td>13:00-13:20</td>
<td>EN-A</td>
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<td>13:20-13:40</td>
<td>EN-A</td>
<td>CANCELED</td>
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<td>13:40-13:50</td>
<td>CT-C</td>
<td>VOCAL AND NON-VOCAL ANTI-PREDATOR BEHAVIOR OF WEST AFRICAN GREEN MONKEYS, CHLOROCEBUS SABAEUS, IN SENEGAL</td>
<td>*J. Kabitzner, T. Price, J. Fischer</td>
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<td>13:50-14:00</td>
<td>CT-C</td>
<td>PHYTOLITHIC ANALYSIS - A NOVEL APPROACH FOR ASSESSING CHIMPANZEE DIET</td>
<td>*C.A. Phillips, C. Lancelotti</td>
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### CT-A

**Symposium**

**Social Network Theory and Analysis: Applications to the Study of Primate Sociality**

L.J.N. Brent, J. Lehmann, S. Semple

**Opening Remarks**

**062 14:05-14:25**

Formalizing the Multi-Dimensional Nature of Social Networks - A Perturbation Analysis

*D. Lusseau, L. Barrett, S.P. Hanr

**Using Social Network Metrics to Explore the Ecological Determinants of Grouping Patterns in Spider Monkeys (Ateles spp.)**

*G. Ramos-Fernandez

**064 14:45-15:05**

Short-Term Flexibility in the Structure of Female Rhesus Macaque Networks

*L.J.N. Brent, A. MacLaren, S. Semple

**15:05-15:25**

Sociality and Female Reproductive Success of Olive Baboons in Gashaka Gumti National Park, Nigeria

*C. Ross, J.P. Higham, D. MacgregOR Ingas, A.M. MacLaren, Y. Warren, J. Lehmann

**15:25-15:45**

The Gambit of the Group: Exploring Spatial Association and Interaction Patterns of Captive Chimpanzees Using Social Network Analysis

*F.E. Clark

**15:45-16:05**

Baboon Social Complexity - A Network Approach

*J. Lehmann, C. Ross

**Discussion Period**

**Closing Remarks**

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### CT-B

**Symposium**

**New Methodological Approaches to Cumulative Culture: How and Why Do Humans Differ from Other Animals?**

C.A. Caldwell, C. Tennie

**Introduction**

**071 14:50-15:10**

Testing for Cumulative Cultural Transmission in Chimpanzees and Children

*S. Marshall-Pascoli, N. Mcguigan, A. Whitin

**15:10-15:30**

Constraints on Cumulative Culture in Chimpanzees

*C. Tennie, J. Call, M. Tomasello

**15:30-15:50**

Why Is There So Little Cumulative Culture in Great Apes?

*C.P. van Schaik, S. Lehner, C. Hrubesch, J. Burkart

**15:50-16:10**

Cultural Evolution of Cultural Systems

*A. Acemi, M. Enquist, K. Eriksson, S. Orlanda

**General Discussion**

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### CT-C

**Session 1**

**Symposium**

**Mioocene Hominoids: Understanding the Evolutionary History of Apes and Humans**

S. Almécija, B. Senut, Y. Kunimatsu

**078 14:00-14:20**

An Updated Chronology of the Mioocene Primate Record of the Valles-Penedes Basin (Catalonia, Spain)


**14:20-14:40**

Middle Mioocene Fossil Apes from Abocador de Can Mata: Implications for the Origin and Early Radiation of the Great Apes and Humans Clade (primates: hominidae)

*S. Moya-Solá, D. Alba, S. Almeida

**14:40-14:50**

Taxonomic and Phylogenetic Implications of the Cranial Morphology of Pierolapithecus Cata- Launicus (primates: hominidae)

*M. Pérez de los Ríos, S. Moya-Solá, D. Alba, S. Almeida

**14:50-15:00**

Taxonomic and Phylogenetic Implications of the Cranial Morphology of Pierolapithecus Cata- Launicus (primates: hominidae)

*M. Pérez de los Ríos, S. Moya-Solá, D. Alba, S. Almeida

**15:00-15:20**

To Hang or Not to Hang: Suspensory Adaptations in Fossil Apes on the Basis of Phalangeal Curvature and Relative Length

*D.M. Alba, S. Almeida, S. Moya-Solá

**15:20-15:40**

Implications of the Evolution of the Hominoid Thumb for the Origin of Refined Manipulation in Hominins

*S. Almeida, D.M. Alba, S. Moya-Solá

**15:40-16:00**

Morphofunctional Study of Hominoid Hands Using Computer Simulation Technique

*N. Cogheira, M. Nakatsukasa

**Discussion 1**

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### CT-D

**Symposium**

**Comparative Genomic Studies Between Humans and Non-Human Primates: From Evolutionary Research to Biomedical Application**

N. Osada

**Brief Introduction**

**084 14:10-14:35**

Complex Evolutionary History of Fastevio in Humans and Its Role in Brain Development

*Y-H. Wang

**085 15:00-15:25**

Diversification of Bitter Taste Receptor Gene Family in Chimpapnes


**15:25-15:50**

Identification and Analysis of Ancestral Hominoid Transcriptome Inferred from Non-Human Primate Genomic Sequences


**15:50-16:15**

Tools for Genetic Analysis of Cynomolgus Macaques

*A. Higashino, N. Osada

**16:15-16:45**

Human Primate Genomic Identification and Inference from Non-Human Primate Genomic Sequences

*N. Osada

**16:45-17:15**

Biomedical Applications of Comparative Genomic Studies Between Humans and Non-Human Primates: From Evolutionary Research to Biomedical Application

*N. Osada

**Discussion, Closings Remarks**

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13th September
Monday
16:45 - 19:15

Symposium & Workshop

CT-A

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

17:00-17:15
POWER RELATIONS AMONG NEIGHBORING COMMUNITIES AFFECT PARTY SIZE AND COMPOSITION IN GOMBE CHIMPANZEE: A REMOTE SENSOR AERIAL PHOTOGRAPHS ANALYSIS
*L. Pintea, M.L. Wilson, I.C. Gilby, A.E. Pusey

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

17:30-17:45
FATHER-OFFSPRING RELATIONSHIPS AMONG THE GOMBE CHIMPANZEE (PAN TROGLODYTE SCHWEINFURTHII)
*E.E. Wróblewski, L. Johnson, C.M. Murray, J. Henderson, A. Stanley, A.E. Pusey

17:45-18:00
FACTORs INFLUENCING NUMBER OF SEXUAL CYCLES IN THE GOMBE CHIMPANZEE
*A.E. Pusey

18:00-18:15
STRESS AND MATERNAL BEHAVIOR IN WILD CHIMPANZEE AT GOMBE NATIONAL PARK, TANZANIA
*C.M. Murray, M. Reintz, R.M. Santymary, I. Lipende, E.V. Lonsdorf

18:15-18:30
THE IMPACT OF DISEASE ON THE GOMBE CHIMPANZEE - PAST AND PRESENT

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

18:45-19:00
FEMALE BABOONS ADOPT A MATE STRATEGY OF CESTRUS SYNCHRONY IN GOMBE
*A. Matsumoto-Oda, Y. Obara, R. Oda, D.A. Collins

19:00-19:15
CONSERVING THE GREATER GOMBE ECOSYSTEM
*S.M. Kamunya, L. Pintea, E.R. Mitt, S.A. Ntanumgi

CT-B

16:45-17:00
THE JAPANESE MACAQUE 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

17:17-17:29
BIRTH CONTROL IN FEMALE JAPANESE MACAQUES AT ARASHIYAMA: HOW DO THEY COMPETE AND COEXIST?
*Y. Takahata

17:46-17:58
MALE REPRODUCTIVE SUCCESS AND MASTURBATION BEHAVIOR OF JAPANESE MACAQUE IN ARASHIYAMA E TROOP
*E. Inoue

17:03-18:20
MOUNTING AND SOCIAL PLAY IN JUVENILE MALE JAPANESE MACAQUES
*D.P. Vanderlaan, S.M. Pells, P.L. Vasey

17:20-18:37
SEASONAL CHANGES IN PARTNERS AND INTERACTIONS DURING SOCIAL GROOMING AMONG ADULT FEMALE JAPANESE MACAQUES (MACACA FUSCATA) OF THE ARASHIYAMA E-GROUP
*M. Fujimoto

17:37-17:54
COMPARING PLAY PATTERNS IN JUVENILE JAPANESE MACAQUES AT ARASHIYAMA AND OTHER FIELD SITES IN JAPAN
*M. Shimada

18:04-19:11
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

16:45-17:02
UNIQUENESS OF THORACIC CAGE MORPHOLOGY IN EXTANT HOMINIDS: IMPLICATIONS FOR THE EVOLUTION OF POSITIONAL BEHAVIOR
*M. Kagaya, N. Oghara, M. Nakatsukasa, B. Senut

17:02-17:19
THE LOCOMOTOR ADAPTATION OF THE PELVIC MORPHOLOGY IN NASCOLAPITHECUS
*Y. Nakano, N. Oghara, D. Shimizu, T. Tsujiwhe, H. Makishima, M. Kagaya, T. Takano, Y. Kunimatsu, I. Ishida

17:19-17:36
POSTCRANIAL ADAPTATIONS IN THE MIOCENE LARGEST APES OF KARAMOJA
*B. Senut, D. Gommer, E. Musilme, M. Pickford

17:36-17:53
SMALL-BODIED APES FROM NAPAK, UGANDA
*M. Pickford, D. Gommer, E. Musilme, B. Senut

17:53-18:10
FOSSIL CATARRHINES FROM THE EARLY LATE MIOCENE OF NAKALI IN KENYA

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

18:27-18:44
LATE MIOCENE PALEOEENVIRONMENTS OF HOMINIDS: MESOZOIC WEATHER VS PHLEBOZOIC CLIMATE
*Y. Takahata, M. Nakatsukasa, T. Matsu, T. Sakai, M. Ondera, E. Yamada

DISCUSSION 2

CT-D

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

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

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

18:00-18:25
DIFFERENTIAL VULNERABILITY TO AGE-ASSOCIATED NEURODEGENERATION IN HUMANS AND CHIMPANZEE
*L.C. Walker

18:25-18:50
HUMAN SPECIFIC ADAPTATIONS IN LONGBEAKED PTERODACTYL, REPRODUCTIVE FUNCTION, AND PATTERNS OF COGNITIVE ASYMMETRY
*J.G. Hamond

18:50-19:15
BIOMARKERS OF OXIDATIVE STRESS AND CARDIOVASCULAR DISEASE IN HUMANS AND CHIMPANZEE
*S.K. Vitek, B.C. Heward, Y. Su, K. Chowdhury, R.G. Cutler

EN-A

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*S.K. Vitek, B.C. Heward, Y. Su, K. Chowdhury, R.G. Cutler
14th September
Symposium & Workshop
Tuesday
13:30 - 16:00

**CT-A**
Symposium
ONTOMETRY OF PLANT SELECTION RELATED TO NUTRITIONAL AND MEDICINAL PROPERTIES IN PRIMATES
L. Tamaud, S. Krief

INTRODUCTION
T. Laurent and K. Sabrina

192 13:40-14:00
THE INFLUENCE OF MOTHER’S FOOD ITEM ON INFANT’S FEEDING BEHAVIOR IN JAPANESE MACAQUES ON SHIMOKITA PENINSULA
“H. Tanpuchi

193 14:00-14:20
EARLY FOOD SELECTION, SOCIAL FACILITATION, AND FOOD QUALITY IN WILD YOUNG JAPANESE MACAQUES (MACACA FUSCATA YAKUI) AT YAKUSHIMA ISLAND (JAPAN)
“L. Tamaud, Y. Nagoshi

194 14:20-14:40
JUVENILE CAPUCHIN MONKEYS (Cebus apella) DIFFER FROM ADULTS ON FORAGING BEHAVIOR “M.M. Winandy, P. Izar

195 14:40-15:00
UNUSUAL PLANT CONSUMPTION BY CAPTIVE CHIMPANZEES (PAN TROGLODYTES), GORILLAS (GORILLA GORILLA) AND ORANGUTANS (PONGO SP.); LEARNING MECHANISMS INVOLVED
“E. Gustafsson, M. Saint-Jalme, M.C. Bomsel, S. Krief

196 15:00-15:20
HOW DO YOUNG WESTERN GORILLAS ACQUIRE INFORMATION ON FOOD, AND PLANTS WITH BIOACTIVE PROPERTIES?
*S. Masi, V. Dumontet, S. Ortman, A. Tosi, S. Krief

197 15:20-15:40
ONTOMETRY OF PLANT SELECTION RELATED TO NUTRITIONAL AND MEDICINAL PROPERTIES IN WILD CHIMPANZEES
*S. Krief, M. Cibot

BRIEF INTRODUCTION
199 13:35-14:00
INTEGRATING FIELD AND ZOO STUDIES ON LEMURS TO BENEFIT THEIR CONSERVATION

200 14:00-14:25
COMMUNICATION IN NEOTROPICAL PRIMATES: CAPTIVE VERSUS FIELD STUDIES
“B.M. Bazerra, A.S. Scuto, G. Jones

201 14:25-14:50
PAYOFFS FROM IN SITU - EX SITU COOPERATIVE RESEARCH ON THE ENDANGERED LION-TAILED MACAQUES
“M. Singh, M. Singh, W. Kaumanns

202 14:50-15:15
ASSESSING THE EFFECTS OF COGNITIVE EXPERIMENTS ON THE WILDLIFE OF CAPTIVE CHIMPANZEES BY DIRECT COMPARISON OF ACTIVITY BUDGET BETWEEN WILD AND CAPTIVITY
“Y. Yanamashi, M. Hayashi, T. Matsuura

203 15:15-15:40
WHAT MAKES THEM HUMAN? THE ATTRIBUTION OF MENTAL STATES TO PRIMATES BY ZOO VISITORS
“Y. Servais

GENERAL DISCUSSION

**CT-B**
Symposium
PRIMATES IN ZOOS, MUSEUMS, LABORATORIES AND THE WILD: COMPARATIVE AND COMPLEMENTARY RESEARCH
C. Schweitzer, B.M. Bazerra

INTRODUCTION
199 13:35-14:00
INTEGRATING FIELD AND ZOO STUDIES ON LEMURS TO BENEFIT THEIR CONSERVATION

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203 15:15-15:40
WHAT MAKES THEM HUMAN? THE ATTRIBUTION OF MENTAL STATES TO PRIMATES BY ZOO VISITORS
“Y. Servais

GENERAL DISCUSSION

**CT-C**
Symposium
LOOKING THROUGH THE PRIMATES EYES: RECENT ADVANCES IN THE GAZE BEHAVIOR IN HUMAN AND NON-HUMAN PRIMATES FROM THE COMPARATIVE-COGNITIVE PERSPECTIVE
M. Tomonaga, S. Ikaura, M. Miyaoka-Yamakoshi, P.F. Ferrari

195 13:30-13:50
A COMPARATIVE EYE-MOVEMENT STUDY IN CHIMPANZEE AND HUMANS
“F. Kano, M. Tomonaga

206 13:50-14:10
THE BEHAVIORAL HALLMARKS OF FACE PROCESSING IN HUMANS AND MACAQUES - AN EYE TRACKING INVESTIGATION
“C.D. Dahl

207 14:10-14:30
SOCIAL ATTENTION AND THE BRAIN IN PRIMATES
“M.L. Platt, K.K. Watson, J.T. Klein, R.O. Deaner, S.V. Shepherd

208 14:30-14:50
THE LINK BETWEEN GAZE AND NEONATAL IMITATION IN THE DEVELOPMENT OF MACAQUE SOCIOCOGNITIVE SKILLS
“P.F. Ferrari, A. Faulkner, S.J. Suzuki

209 14:50-15:10
HUMAN INFANTS’ FACES PROCESSING PERFORMANCE AS REVEALED BY THEIR EYE GAZE PATTERNING
“K. Lee, A. Wheeler, G. Aanzures

210 15:10-15:30
THE CORRESPONDENT LINK BETWEEN ACTION PREDICTION AND MOTOR ABILITY IN EARLY INFANCY
“Y. Kanakogi, S. Itakura

211 15:30-15:50
GAZE PROCESSING IN HUMAN INFANTS: ADAPTATION FOR COMMUNICATIVE LEARNING?
“A. Senju

GENERAL DISCUSSION

**CT-D**
Workshop
THE EXPANDING ROLE OF PRIMATES SANCTUARIES - GOING BEYOND RESCUE AND CARE
L. Brent

**EN-A**
Symposium
DIVERSITY, DISTRIBUTION AND PRESENT STATUS OF NON-HUMAN PRIMATES IN ASIA
Y. Hamada

121 13:30-13:45
DIVERSITY, PHYLOGEOGRAPHY AND PRESERVATION STATUS OF MACAQUES DISTRIBUTED IN INDOCHINA

122 13:45-14:00
STATUS, THREATS AND DISTRIBUTION OF PRIMATES IN VIETNAM - AND CURRENT CONSERVATION ACTIVITIES
“T. Nadar

123 14:00-14:10
DISTRIBUTION AND PRESENT STATUS OF NON-HUMAN PRIMATES IN CENTRAL VIETNAM
“N.V. Minh, N.H. Van, Y. Hamada

124 14:10-14:20
RECORDED SPECIES OF NON-HUMAN PRIMATES IN CAMBODIA AND THEIR PRESENT STATUS
“S. Thao, S. Meas, T. Oi

125 14:20-14:35
DISTRIBUTION PATTERN OF MACAQUE SPECIES INSOUTHERN LAO PDR: EXAMINING THE ECOLOGICAL SEGREGATION AMONG MACAQUE SPECIES
“P. Kingsada, S. Pathomthong, B. Prakayomphath, S. Malavijitnond, Y. Hamada

126 14:35-14:50
DISTRIBUTION AND CURRENT STATUS OF LONG-TAILED MACAQUES (Macaca fascicularis) IN MYANMAR
“A.M. San, Y. Hamada

127 14:50-15:05
SEX DIFFERENCES, HANDEDNESS, AND SELECTION PREFERENCES IN THE STONE TOOL-USE OF ANDAMAN LONG-TAILED MACAQUES (MACACA FASCICULARIS AUERBA)
“M.D. Gunert, K.H. Lee, V. Tan, S. Malavijitnond

128 15:05-15:20
COEXISTENCE AND CONSERVATION OF SYMPATRIC PRIMATES IN THE FRAGMENTED HABITAT OF THE HOLLONGAPAR GIBBON WILDLIFE SANCTUARY, ASSAM, NORTHEASTERN INDIA
“N. Sharma, M.D. Mudhushar, A. Sinha

129 15:20-15:35
GENETIC SURVEY OF HYBRIDS IN A SEMI-WILD POPULATION OF LONG-TAILED (Macaca fascicularis) AND RHESUS MACAQUES (Macaca mulatta) HUMAN-ABO BLOOD GROUPS
“J. Jadugijvan, S. Meas, Y. Hamada

GENERAL DISCUSSION
**14th September**

**Tuesday**

**Oral Session** *(20min per paper)*

**CT-A**

**Ecology & Behavior**

**SOCIAL ORGANIZATION**

Chairs: C. Neumann & K. Kops

265 16:15-16:35 DOMINANCE AND SOCIAL RELATIONSHIPS IN FEMALES OF A TOLERANT MACAQUE SPECIES, MACACA NIGRA.

*M. Parkash, Costa Rica*

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

*C. Neumann, M. Aulaha Ivrin, A. M. Perwitasari Farajallah, A. Widigd, A. Engelhardt*

267 16:55-17:15 SOCIAL INTERACTION OF MALE SULAWESI CRESTED MACAQUES (MACACA NIGRA)".

*M. Nakamura, H. Nishie, N. Itoh, T. Kooriyama, T. Nishida, A. Inaba, A. Widdig*

268 17:15-17:35 DOMINANCE HIERARCHY AND SOCIAL GROOMING AMONG COMMENSAL FEMALE BONNET MACAQUES (MACACA RADATA) IN MYSONDE, INDONESIA.

*S. Sumarto, K. Watanabe*

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

270 17:55-18:15 NON-AGGRESSIVE INTERVENTIONS IN CONFLICTS AMONG CAPTIVE BORNEAN ORANGUTANS (PONGO PYGMAEUS).

*T. Tajima, H. Kuritori, S. Iwakura*

271 18:15-18:35 DOMINANCE STYLE AMONG FEMALE WHITE-FACED CAPUCHINS (CEBUS CAPUCINUS) AT SANTA ROSA NATIONAL PARK, COSTA RICA.

*M. L. Bergstrom, L. M. Fedigan*

272 18:35-18:55 MALE TAKOVERS, SEXUAL HARASSMENT AND FEMALE REPRODUCTIVE SUCCESS IN HAMADRYAS BABOONS (*PAPIO HAMADRYAS*).

*P. Polo, F. Colmenares, M. V. Hernandez-Loredo*

273 18:55-19:15 HOW ADULT MALE CHIMPANZEES OF MAHALE ACQUIRE THE ALPHA STATUS?

*T. Nishida, A. Ibaa, N. Itou, T. Kooniyama, M. Nakamura, H. Nishie, T. Sakamaki, K. Zamma*

**CT-B**

**Ecology & Behavior**

**PARENTAL BEHAVIOR**

Chairs: F. Bercovitch & H.-H. Su

274 16:15-16:35 PATERNAL CHANGES IN BODY WEIGHT DURING PARENTAL CARE PERIOD IN COOPERATIVELY BREEDING COMMON MARMOSETS.

*T. Tsutsumi, N. Kutsukake, A. Kawasaki, C. Yokoyama, H. Onoe, M. Hasegawa*


*D. Kerkofis, M. Apl, D. Perwitasari Farajallah, A. Engelhardt, A. Widig*

276 16:55-17:15 MOTHERS MATTER! MOTHER'S MATERNAL SUPPORT AND MATING SUCCESS IN MALE BONOBS.

*M. Surbeck, R. Mundry, M. Agil, B. Thierry, D. Perwitasari Farajallah, D. Kerhoas, M. Agil, J. Duboscq*

277 17:15-17:35 LIFE HISTORY TRAITS, MATERNAL BEHAVIOUR AND INFANT DEVELOPMENT OF THE BLUE-EYED BLACK LEMUR (Eulemur Flavifrons): IMPLICATIONS FOR CONSERVATION.

*M.S.N. Volampeno, J.C. Masters, C.T. Downs*

278 17:35-17:55 GRANDMOTHERING IN CAPTIVE GALAGO SENEgalensis Brachyurus - PARENTING BEYOND NURSING.

*L. T. Nash, S. E. Kessler*

279 17:55-18:15 OBSERVATIONS ON A DAYTIME BIRTH IN THE WILD OF A TITI MONKEY (Callithrix Cenaine) AND SUBSEQUENT MALE PARENTAL CARE.

*A. M. DeLucoy*

280 18:15-18:35 TWINNING FREQUENCY OF JAPANESE MACAQUES (MACACA FUSCATA) AT TAKASAYAMA.

*Y. Sugiyama, H. Kunta, T. Matsu, T. Shimomura*

281 18:35-18:55 SENESCENCE AND TERMINAL INVESTMENT IN FREE-RANGING FEMALE RHEUS MACAQUES (Macaca Mulatta).

*C. L. Hoffman, J. P. Higham, A. Mas Rivera, J. E. Ayala, D. Maestripieri*

282 18:55-19:15 REPRODUCTIVE SUCCESS OF FEMALE TAIWANESE MACAQUES (MACACA CYLINDRIS/P.)

*H.-H. Su*

**CT-C**

**Ecology & Behavior**

**SELF-MEDICATION AND HOST-PARASITE ECOLOGY**

Chairs: M. Huffman & A. J. M. Mointheah

283 16:15-16:35 MEDICINAL USE OF PLANTS BY ORANGUTANS.

*H. C. Morrogh-Bernard, R. De Martin, L. Huffmanna, K. Dolezal, I. Foitova*

284 16:35-16:55 SELF-MEDICATION IN BONOBS: A REPORT OF LEAF-SWALLOWING FROM LUI KOTALE IN SALONGA NATIONAL PARK, DR CONGO.

*A. Fowler, G. Hohmann, B. Fruth*

285 16:55-17:15 THE ADAPTIVE SIGNIFICANCE OF GEOPHAGY IN THE MILNE-EDWARDS' SIFAKA (Propithecus Edwardsi) AT RANOMAFANA NATIONAL PARK, MADAGASCAR.


286 17:15-17:35 DOCUMENTING GEOPHAGY IN WILD CHACMA BAOBONS AT WILD-CLIFF, SOUTH AFRICA, USING TRAP CAMERAS.

*P. A. Pewschoff, M. A. Huffman*

287 17:35-17:55 FEEDING ON PHYTOESTROGENS: IMPLICATIONS FOR UGANDAN RED COLOUBUS MONKEY (PROCOLOBUS Rufomitratus TEPHROCELECS) PHYSIOLOGICAL ECOLOGY.

*M. D. Wasserman*

288 17:55-18:15 PARASITE SPECIES DIVERSITY AND INFECTION INTENSITY OF UGANDAN ECOLOGICALLY FACTORS WITH AN EMPHASIS ON FOOD ITEMS IN THEIR DIET.

*T. Fotsalo, M. A. Huffman, L. Duke, J. Jankowsky, R. Y. Klapka, M. Olanksy*

289 18:15-18:35 THE FRACAL DIMENSION MEASURING BEHAVIORAL COMPLEXITY AND ITS IMPLICATIONS FOR EVALUATING THE HEALTH OF PRIMATES IN THE WILD.

*J. J. MacDonald, M. A. Huffman*

290 18:35-18:55 PARASITE BURDEN AS A TOOL TO ASSESS INUNMUNOSENCE IN WILD BROWN MOUSE LEMURS (*Microcebus Rufomitratus*).

*S. Zody, T. H. Rakotobainoro, J. Carag, P. C. Wright, J. Jernvall*

291 18:55-19:15 PARASITE SPECIES AMONG CAPTIVE CHIMPANZEE.

*B. T. Wren, M. J. Remis, T. R. Gillespie*

292 19:15-19:35 SOCIAL GROOMING IN PRIMATES: HYGIENIC OR HEALTHY?

*B. E. Rems, J. R. Gillepsie*

293 19:35-20:00 FLAVIFRONS): IMPLICATIONS FOR UGANDAN RED COLOUBUS MONKEY (PROCOLOBUS Rufomitratus TEPHOCELECS) PHYSIOLOGICAL ECOLOGY.

*M. D. Wasserman*

294 20:00-20:25 THE HEALTH OF PRIMATES IN THE WILD.

*J. J. MacDonald, M. A. Huffman*

295 20:25-20:50 ORTHODROME TRUNK POSTURE, BIPEDALISM AND LUMBAR BACK MUSCULATURE.

*B. Hesse, R. Fride, M. S. Fischer, N. Schilling*

296 20:50-21:15 ARBOREAL ORIGIN OF BIPEDALISM EKEXAMINED - COMPARATIVE DYNAMICS.

*T. Kimura*
**Scientific Program**

**15th September**

**Wednesday**

10:40 - 12:40

**Oral Session**

*20min per paper*

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<td><strong>A</strong></td>
<td>10:40-11:00</td>
<td>EFFECTS OF TRANSPORT ON BEHAVIORAL AND PHYSIOLOGICAL PARAMETERS IN CHIMPANZEEES</td>
<td><em>S.J. Schapiro, S.P. Lambeth, L.E. Williams, B.N. Nehete, P.N. Nehete</em></td>
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<td><strong>B</strong></td>
<td>10:40-11:00</td>
<td>THE HAPLOPITHECUS CONUNDRUM - SOLVED</td>
<td><em>L.R. Godfrey, E.R. Dumont</em></td>
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<td><strong>C</strong></td>
<td>10:40-11:00</td>
<td>SYNAUTHROPIC PRIMATES AND PATHOGEN HOST SWITCHES: ENTEROVIRUSES IN BANGLADESH</td>
<td>L. Jones-Engel, <em>G. Engel, M.M. Feeroz, M. Paillansch, S. Oberste</em></td>
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<td><strong>D</strong></td>
<td>10:40-11:00</td>
<td>POTENTIAL PARASITE EXCHANGES BETWEEN CHIMPANZEES AND HUMANS IN GOMBE NATIONAL PARK, TANZANIA</td>
<td><em>J.S. Bakuza, G. Nikwenguila</em></td>
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<td><strong>A</strong></td>
<td>11:20-11:40</td>
<td>GASTROINTESTINAL PARASITES OF INDIGENOUS AND INTRODUCED PRIMATES OF RUBONDO ISLAND NATIONAL PARK, TANZANIA WITH EMPHASIS ON BLASTOCYSTIS INFECTIONS</td>
<td><em>K.J. Petzelkova, J. Petrasova, H.D. Matthews</em></td>
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<td><strong>B</strong></td>
<td>11:20-11:40</td>
<td>MOTHER-TO-CHILD TRANSMISSION OF SIV IS RARE IN NATURALLY INFECTED SOOTY MANGABEYS</td>
<td><em>J.G. Else, T. Meeker, A. Chahroudi, G. Silvestri</em></td>
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<td><strong>C</strong></td>
<td>11:20-11:40</td>
<td>THE IMPORTANCE OF PRE-RELEASE MONITORING IN SLOW LORIS REINTRODUCTION PROGRAMMES: A CASE STUDY FROM JAVA (NYCTICEBUS JAVANICUS)</td>
<td><em>R.S. Moore, K.J. Nekaris</em></td>
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12:00-12:20

**D**

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12:00-12:20

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**369**
Symposium & Workshop

15th September

Wednesday

13:30 - 16:00

Opening Remarks

A.D. Melin

13:35-14:00

Discovery and Evaluation of Primate Color Vision Poly-Morphisms

G.H. Jacobs

14:00-14:25

The Ecology of Primate Color Vision

D. Osorio

14:25-14:50

Considering Visual Systems When Exploring Primates and Color

M. Stevens, J.P. Higham

14:50-15:15

The Visual Ecology of Neotropical Primates: Food Selection, Predation Avoidance and Reproduction

D.M.A. Pessoa, D.A. Huffman

15:15-15:40

The Visual Ecology of Nocturnal Primates

G.L. Jacobs

15:40-16:00

Dietary Selectivity by White-Faced Capuchins: How Important Are Colourful Fruits?

A.D. Melin, M.F. Jaman, N. Parr, S. Kawamura

16:00-16:20

Concluding Remarks

A.D. Melin

Symposium

HUMAN-MACAQUE INTER-ACTIONS: TRADITIONAL AND MODERN PERSPECTIVES ON COOPERATION AND CONFLICT

S. Radhakrishna, A. Sinha

13:35-13:55

Human-Macaque Interactions: Introduction

S. Radhakrishna and A. Sinha

14:00-14:25

Macaque-Human Interactions in Sri Lanka

M.A. Huffman, C.A.D. Nahallage

14:25-14:50

Rhesus Macaque-Human Interactions in Urban and Rural Bangladesh: A Comparative Assessment

M.F. Jaman, M.A. Huffman

14:50-15:15

Coexistence with "Pest Monkeys": Conflict-Coping in Japan

Y. Manyama

15:15-15:40

Why Would Anyone Want a Macaque as a Pet?

G. Engel, L. Jones-Engel

15:40-15:55

Human Impact on Long-Tailed Macaques in Thailand

S. Malavijitnond, Y. Vazquez, Y. Hamada

15:55-16:15

Of Monkeys and Men: Human-Rhesus Macaque Conflict in Northern India

S. Chaudhuri, A. Sinha

16:15-16:35

The Macaque-Human Interface: Conflict, Cooperation, and the Possibilities of Sustainable Communities

A. Fuentes

Workshop

Introduction

J. Dupain, H. Kuehl, J. Nackoney, D. Williams

13:35-13:55

Harnessing Spatial Tools for Landscape-Level Biodiversity Conservation Planning in the Maringa-Lopori-Wamba Landscape, DRC

J.R. Nackoney, D.G. Williams

13:55-14:15

Ecological and Socio-Economic Correlates of Range Occupation by Bongobos: A Spatial Analysis

J.A. Hart, F. Grossmann, A. Vosper, R. Bekers, N. January

14:15-14:35

Predicting Bongobo (Pan Pansicus) Distribution: Influence of Nest Habitat vs. Human Presence


14:35-14:55

Habitat Modeling of Bongobos (Pan Pansicus) and Between Ring-Tailed Lemurs (Lemur Catta) at Berenty Reserve, Southeastern Madagascar

T. Soma

14:55-15:15

Biodiversity Conservation Strategy: Are We Ready for Some Spatial Modelling?

J. Dupain

15:15-15:35

The Impact of Bushmeat Hunting on Bongobo Presence

J.K. Hart, J.A. Hart, F. Grossmann, A. Vosper

15:35-15:55

The Large Scale Perspective: A Range-Wide Meta-Analysis of Bongobo Survey Data

Y.S. Kuehl, J. Nackoney, D. Williams, J. Dupain

15:55-16:00

Discussion and Concluding Remarks

J. Das, J. Biswas, S. Barua

General Discussion

S. Ichino, T. Soma

Opening Remarks

A. Jolly

13:35-13:55

Niche Separation Between Ring-Tailed and Brown Lemurs at Berenty Reserve - Madagascar

J. Razafindramanana, G. Donati, A. Jolly

13:55-14:15

Feeding Ecology and Rank in Ring-Tailed Lemurs (Lemur Catta) in the Berenty Reserve, Southeastern Madagascar

T. Soma

14:15-14:35

Ranging Behavior and Social Decision-Making of Two Species of Lemurs at Berenty Reserve, Madagascar

F.L. Dolins, A.B. Jolly

14:35-14:55

Male Reproductive Strategies of Ring-Tailed Lemurs (Lemur Catta) at Berenty Reserve, Madagascar

S. Ichino, Y. Kawamoto, N. Miyamoto, H. Hirai, N. Koyama

14:55-15:15

Home Range Exploitation and Co-Habitation of Native Ring-Tailed Lemurs (Lemur Catta) with Introduced Brown Lemurs at the Berenty Reserve, Madagascar

S.M. Raharison, H. Rasamimanana

15:15-15:35

The Model of the Optimal Diet in Three Sympatric Lemur Species in the Berenty Reserve

H.R. Rasamimanana, V. Razzoli, L. Tarnaud

15:35-15:55

Low Energy Output and Fatness Ring-Tailed Lemurs and Brown Lemurs

S. Simmen, F. Bayart, H. Rasamimanana, A. Zahanov, S. Blanc, P. Pasquet

General Discussion
EN-B

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 SUBORDINATE TRAVEL DECISIONS AFTER INTERGROUP ENCOUNTERS IN GROUPS OF WILD CHACMA BABBONS (PAPIO URSINUS) - A PLAYBACK EXPERIMENT
*R. Noser

426 14:00-14:20
COORDINATION PROCESS-ES AND DECISION MAKING IN GROUPS OF WILD RED-FRONTED LEMURS (EULEMUR FULVIS RUPUS)
*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, J. King, A.J. King, C. Sueur

428 14:40-15:00
CO-DOMINANT FEMALES LEAD GROUP MOVEMENTS AND ACTIVITIES IN A WILD POPULATION OF JAPANESE MACAQUES
*H. Sugiura, Y. Shimooka, Y. Taql

430 15:00-15:20
VARIATION IN INTERINDIVIDUAL SPACING AND BEHAVIORAL CORRELATES IN A GROUP OF JAPANESE MACAQUES
*L. Deidou, B. Camara, A. Patzelt, G. Fickenscher, C. Barelli, W. Hira

431 15:20-15:40
GROUP COMPOSITION AND BEHAVIORAL CORRELATES OF JAPANESE MACAQUES IN A GROUP OF LEAD GROUP MOVEMENTS CO-DOMINANT FEMALES
*A. Jacobs, K. Watanabe, J. King, A.J. King, C. Sueur

EN-C

EN-C-15A [421-S]

Symposium
BEHAVIOR AND INTELLIGENCE OF NEW WLD 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 CAPUCIN MONKEYS
*J.R. Anderson, H. Kuroshima, K. Fujita

434 14:08-14:24
IMITATION AND SOCIAL BINDING IN TUFTED CAPUCIN MONKEYS
*A. Paulaker, P. Ferraro, 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.J. Watson, K. Morris, C.A. Caldwell

436 14:40-14:56
PERCEPTION OF OTHERS’ ACTIONS: EFFECT OF ONE’S OWN ACTIONS IN CAPUCIN MONKEYS

437 14:56-15:12
RISISON-FUSION DYNAMICS AND COGNITION: SPIDER MONKEYS AS A KEY SPECIES
*F. Arcei, F. Aureli, I. Capellini, J. Call

438 15:12-15:28
COMPARING THE MANIPULATIVE ABILITIES OF CEBUS APELLA AND CEBUS CAPUCINS: INSIGHTS INTO THEIR COGNITIVE SKILLS?
*C. Fruteau, S. Perry, O. Pett

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 APHELLA)
"F. Matsumo, K. Fujita

EN-D

EN-D-15A [443-S]

Symposium
THE EVOLUTION OF GILOBNS: MOLECULAR GENETICS, MORPHOLOGY, BEHAVIOR, AND THE FOSSIL RECORD
U.H. Reichard, C. Barell, H. Hira

INTRODUCTION
442 13:35-13:55
INTERGENERIC AND INTERSPECIFIC HYBRIDS IN GIBBONS: CHROMOSOMAL ASPECTS OF THE STABLE APE EVOLUTION
S. Bacharchen, T. Miyabe-Nishikawa, Y. Hira, K. Duangsa-Ard, B. Sinaroonrat, H. Hira

443 13:55-14:15
PHENOLOGY, TAXONOMY AND DISTRIBUTION OF CRESTED GIBBONS (GENUS NOMAUSCUS)
*C. Ross, K. Hammerschmidt, V.H. Thinh

444 14:15-14:35
GIBBON PHYLOGEY 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 PHYLOGEY
*H.J. Chatterjee

446 14:55-15:15
HANGING FROM THE ARBON 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. Monnick

448 15:35-15:55
FEEDING ECOLOGY AND RESOURCE VISTATION STRATEGY OF THE JAVAN GILOBON (HYLOBATES MOLOCK)
"S. Kim, S.M. Lapan, D. Rinaldi, J.C. Choe

DISCUSSION SYMPOSIUM
PART 1

LE-A


Symposium
EVOLUTION OF LATERALIZATION IN PRIMATES: CURRENT INSIGHTS FROM PROSIANS TO HUMANS
C. Blas-Heuzin, E. Zimmerman

INTRODUCTION
450 13:35-13:55
HAND PREFERENCE IN TREE SHREWS AND PROSIAN PRIMATES: A COMPARATIVE APPROACH
"E. Zimmerman, M.Joly-Radko, M. Schausma

451 13:55-14:15
HAND PREFERENCES BY BLACK-AND-WHITE SNUB-NOSED MONKEYS (RHINOPITHECUS BRIET) 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 CERCOPITHECIDAE: IMPACT OF TASK COMPLEXITY
"C. Blas-Heuzin, A. Laurence, A.S. Chapelon, C. Waliez

453 14:35-14:55
INANDEEDNESS FOR GRASPING OR POINTING TO OBJECTS, AND LANGUAGE DEVELOPMENT
"J. Gardard, A-Y. Jacquet

454 14:55-15:15
LATERNALITY OF COMMUNICATIVE SIGNALING IN NONHUMAN PRIMATES: IMPLICATIONS FOR THE ORIGINS OF LANGUAGE
"A. Meguerditchian

455 15:15-15:35
LATERALIZATION IN BROADS AND VICKERIES AREAS IN THE CHIMPANZEE BRAIN
"W.D. Hopkins, J.P. Taglialatela

CONCLUSION

LE-B

LE-B-15A [455-S]

Symposium
GREAT APE HEALTH: THREATS AND SOLUTIONS
T.R. Gillespie, F.H. Leendertz

INTRODUCTION
457 13:36-13:54
NON INVASIVE MONITORING OF RESPIRATORY VIRUSES IN WILD CHIMPANZEES
*S. Nöndgen, C. Boesch, F.H. Leendertz

458 13:54-14:12
TRANSMISSION OF HUMAN BACTERIA 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
"C. Kaltzma-Zikusoka, L. Garrido

461 14:48-15:06
PROFILE OF A RESPIRATORY OUTBREAK IN MOUNTAIN GORILLAS

462 15:06-15:24
MODELING INFECTIOUS DISEASE TRANSMISSION IN WILD PRIMATE POPULATIONS: A CASE STUDY WITH MOUNTAIN GORILLAS

463 15:24-15:42
HEALTH MONITORING TOOLS FOR ILLUSIVE GREAT APE POPULATIONS

464 15:42-16:00
LOGGING CRATES UNANTICIPATED THREAT TO APE HEALTH AND CONSERVATION IN EQUATORIAL AFRICA
"T.R. Gillespie, D. Morgan, G. Vazquez-Prokopenko, K.N. Cameron, T. Reed, C. Sanz

LE-C

LE-C-15A [456-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-15A [393-S]
Session 2
Symposium
VARIATION AND EVOLUTION OF PRIMATE COLOR VISION REVEALED BY CROSS-DISCIPLINARY STUDIES
S. Kawamura, A.D. Melin

467 16:15-16:40 BEHAVIORAL TESTS OF COLOR VISION HYPOTHESES: WHERE WE HAVE BEEN AND WHERE WE SHOULD GO NEXT
*N.G. Caine

468 16:40-17:05 THE EFFECT OF SEX AND COLOR VISION STATUS ON INSECT PREY CAPTURE EFFICIENCY BY CAPTIVE AND WILD TAMARINS (SAGUINUS SPP.)
*A.C. Smith, A.K. Surridge, M.J. Prescott, D. Osorio, N. Mundy, H.M. Buchanan-Smith

469 17:05-17:30 CHALLENGING ADVANTAGE OF TRICHROMACY IN FRUIT FORAGING BEHAVIOR OF WILD SPIDER MONKEYS (Saimiri sciureus)
*C. Hiramatsu, A.D. Melin, F. Aureli, C.M. Schaffner, M. Vorobyev, S. Kawamura

470 17:30-17:55 THE IMPLICATIONS OF COLOR VISION ON PREY CAPTURE STRATEGIES FOR WILD SQUIRREL MONKEYS (Saimiri sciureus)
*M.J. Montague, A. Di Fiore

471 17:55-18:20 POLYMORPHIC COLOUR VISION COMPARED AMONG LEMURS AND NEW WORLD MONKEYS
*N. Mundy

472 18:20-18:40 A POPULATION GENETIC TEST OF BALANCING SELECTION FOR COLOR VISION VARIATION IN NEW WORLD MONKEYS

CLOSING REMARKS
S. Kawamura

CT-B-15E [472-S]
Symposium
JAPANESE MONKEYS AND THE JAPANESE PEOPLE: HISTORY AND ISSUES IN JAPANESE MONKEY CONSERVATION
Committee of Conservation and Animal Welfare, Primate Society of Japan Representative: T. Oi

473 16:15-16:45 THE JAPANESE PEOPLE AND THE JAPANESE MONKEY: HOW HAVE THE JAPANESE PEOPLE ASSOCIATED WITH MONKEYS?
*Y. Mito

474 16:45-17:10 REVIEW OF JAPANESE MONKEY CONSERVATION: THEORY AND REALITY
*T. Marunishi

475 17:10-17:30 CASE STUDY REPORT: CROP DAMAGE BY JAPANESE MONKEYS
*K. Suzuki, Y. Muroyama

476 17:30-17:45 CASE STUDY: PERAL NON-JAPANESE MONKEYS
*Y. Kawamoto

477 17:45-18:00 PANEL DISCUSSION
D. Sprague and T. Oi

CT-C-15E [477-S]
Symposium
PARENTAL INVESTMENTS AND DEMANDS OF INFANTS
K. Yamada, K. Onishi

478 16:15-16:35 ALLOCATION OF MATERNAL AND ALLOMATERNAL FORAGING ASSISTANCE IN WILD GOLDEN LION TAMARINS
L. Alagappi

479 16:35-16:50 SOCIAL PLAY AND MATERNAL INTERVENTION IN FREE-RANGING RHESUS MACAQUES
*A. Yanagi, C. Berman

480 16:50-17:15 MATERNAL VISUAL MONITORING IN JAPANESE MACAQUES: ALLOCATION OF MATERNAL INVESTMENT IN INFANT PROTECTION
*K. Onishi, M. Nakamichi

481 17:15-17:35 WHEN DOES A MOTHER CARRY HER INFANT IN JAPANESE MACAQUES?
*M. Harasawa

482 17:35-17:55 DEALING WITH WEANING POINTING GESTURES TO PROVOKE RESPONSES FROM INFANTS
*T. Kishimoto

GENERAL DISCUSSION

CT-D-15E [484-W]
Workshop
DEVELOPING A NATIONAL BONobo CONSERVATION STRATEGY USING SPATIAL MODELS FOR ACTION
J. Dupain, J. Nackoney, D. Williams

EN-A-15E [485-S]
Symposium
PRIMATE ARCHAEOLOGY: PALAEOANTHROPOLOGY MEETS PRIMATOLOGY
W.C. McGrew

INTRODUCTION
486 16:20-16:35 THE ROLE OF BODY SIZE IN NUT CRACKING IN BEARDED CAPUCHIN MONKEYS
*E. Visalberghi, N. Spagnolotti, D. Fragaszy

487 16:35-16:50 STONE TOOLS FOR NUT CRACKING AND FOR DIGGING ROOTS AND TUBERS BY WILD CAPUCHIN MONKEYS IN SERRA DA CAPIVARA, BRAZIL
*E.B. Ottino, T. Fabitico, M. Mannu

488 16:50-17:05 VARIABILITY IN KINEMATICS OF NUT CRACKING IN CAPUCHINS AS A FUNCTION OF STONE WEIGHT, NUT SIZE AND INDIVIDUAL BODY WEIGHT
*O. Liu, D. Fragaszy, E. Visalberghi

489 17:05-17:20 A WINDOW INTO EARLY HOMININ EVOLUTION: CLUES TO THE ORIGINS OF TECHNOLOGICAL EVOLUTION AND BIPEDALITY FROM CHIMPANZEE FIELD EXPERIMENTS
*S. Carvalho, *D. Biro, T. Matsuawa, B. Richmond

490 17:20-17:35 AN APE'S VIEW OF THE OLDOWAN REVISITED
*L.F. Marchant, R.A. Hernandez-Aguilar, W.C. McGrew, T.G. Wynn

491 17:35-17:50 MODELS FOR ACTION: STRATEGY USING SPATIAL ANALYSIS OF MODERN AND ANCIENT CHIMPANZEE POUNDING TOOLS FROM BOSSOU AND DIECKÉ, GUINEA: DEFINING A PRIMATE ARCHAEOLOGICAL SIGNATURE
*M. Haslam, S. Carvalho, N. Spagnolotti

492 17:50-18:05 THE PRODUCT OF SOCIAL LEARNING ANDzeug?: EVITING THE TURKANA BASIN
*D.A. Braum, J.W. Harris

493 18:05-18:20 Modeling the Behavior of the Earliest Hominins Drawing on the New Discipline of Primate Archaeology

GENERAL QUESTIONS AND DISCUSSION

P38 Scientific Program
### Oral Session

**20min per paper**

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| **CT-A-16E**

**GENETIC VARIATION**

Chairs: K. Guschnanski & E. Davion

**P58** 16:15-16:35


| **CT-B-16E**

**CONSERVATION OF ASIAN APES**

Chairs: M.A. Huffman & F. Momberg

**P606** 16:15-16:35

REPRODUCTIVE PARAMETERS OF REHABILITANT FEMALE ORANGUTANS (Pongo spp.): HIGH INFANT MORTALITY RATE AND YOUNGER AGE AT FIRST REPRODUCTION.

"N. Koe, D. Siregar, G.L. Banes, P. Pratje, T. Tajima, A.E. Russon"

**P607** 16:35-16:55

CAN CARBON FINANCE MECHANISMS SAVE ORANGUTAN? *T. Momberg, A. Kiwusoro, D. Liewanto"

| **CT-C-16E**

**DIRECT HUMAN IMPACTS ON PRIMATES**

Chairs: J.H. Wright & B.S. Kaplan

**P614** 16:15-16:35

NON HUMAN PRIMATE CONSERVATION IN GUINEA-BISSAU (WEST AFRICA) *C. Casanova, C. Sousa"

**P615** 16:35-16:55

MONITORING OF PRIMATES AND ILLEGAL HUNTING ACTIVITIES IN KAKUM NATIONAL PARK, GHANA *E.D. Warke"

| **CT-D**

**EN-A-16E**

**PSYCHOLOGICAL & SOCIAL INTERACTIONS**

Chairs: E. A. Cartmill & B.M. Waller

**P623** 16:15-16:35

PATERNAL KIN DISCRIMINATION IN RHESUS MACAQUES (MACACA MULATTA): IDENTIFICATION OF GUES AND MECHANISMS *D. Pfefferle, A. Widdig"

**P624** 16:35-16:55

SOCIAL GROUPING AND INTERGROUP BIASES IN RHESUS MACAQUES *N. Mahajan, M.A. Martinez, M. Gutierrez, G. Densmorehuck, M. Banaji, L.R. Santos"

**P625** 16:55-17:15

ADDRESSING THE PROBLEM OF GRANULARITY IN PRIMATE GESTURE RESEARCH *E.A. Cartmill, R.W. Byrne"

**P626** 17:15-17:35

CANCELED

| **EN-A**

**DIRECT HUMAN IMPACTS ON PRIMATES**

Chairs: J.H. Wright & B.S. Kaplan

**P616** 16:55-17:15

BEEKEEPING AS AN ECONOMIC ALTERNATIVE TO BUSHMEAT HUNTING IN CAMEROON *J.H. Wright, N. Bradbeer"

**P617** 17:15-17:35

CONSERVATION STATUS OF MONKEYS ON BIKO ISLAND, EQUATORIAL GUINEA (1990-2009) *G.W. Haarm, W.A. Monza, D. Bocama Meles, T.M. Baunsky"

**P618** 17:35-17:55

CANCELED

**P619** 17:35-18:15

IN PERSPECTIVE OF A PANACEA: MITIGATING HUMAN-BABOON CONFLICT IN THE CAPE PENINSULA, SOUTH AFRICA *B.S. Kaplan, M.J. O’Riain, A.J. King"

**P620** 18:15-18:35

BEHAVING, BUT AT WHAT COST? THE EFFECTS OF A MANAGEMENT TECHNIQUE ON A BABOON TRoop IN SOUTH AFRICA *A.C. van Doorn, M.J. O’Riain, L. Swedell"

**P621** 18:35-18:55

HUMAN AND THE RHESUS MACAQUES CONFLICT: SOLUTION FOR NEPAL *M.K. Chalise"

**P622** 18:55-19:15

THE BIOSYNERGY HYPOTHESIS: EXPLORING THE PSYCHOSOCIAL FORCES THAT ENHANCE HUMAN AND NONHUMAN PRIMATE COEXISTENCE IN CAPTIVE AND NATURAL SETTINGS. *A.L. Rose, A.G. Rose"
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<td>The Utility of Genetic and Morphological Data in Understanding Taxonomy in Vervet Monkeys</td>
<td>T.R. Turner, J. Lorenz, J.D. Pampush, N. Freimer, J.P. Grobler</td>
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<td>CT-B</td>
<td>Learning, Perception &amp; Concepts</td>
<td>M. Tanaka &amp; T. Ushitani</td>
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<td>Use of Social Cues</td>
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**Oral Session**

- **CT-A**
  - 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
  - 10:40-11:00: Same/Different Concept Learning in Matching-To-Sample Tasks by Capsch Monkeys
    - V. Trappa, D. Garofoli, E. Pino Montari, G. Carstona, F. Natale, E. Vitalberghi
  - 11:00-11:20: Social Facilitation of Learning of a Computer-Based Task in Captive Group of Mandrills (Mandrillus Sphinx)
    - M. Tanaka, Y. Yamamoto, M. Nagao, N. Kamanaru, H. Ro, Y. Yamamoto
  - 11:20-11:40: Symbolic Representation and Quantity Discrimination in Olive Baboons (Papio Anubis)
    - V. Schmitt, J. Fischer
  - 11:40-12:00: Does Symbolic Competence Predict Performance of Bonobos, Pan Paniscus, on Match-To-Sample Task?
    - J. Pedersen, K. Swartz, D. Musgrave, P. Segerdahl, W.M. Fields
  - 12:00-12:20: Sensitivity of Captive Chimpanzees to Individual and Social Information During Foraging Tasks
    - K.E. Bonnie, M.S. Mistele, S.R. Ross, S. Calcutt, E.V. Lonsdorf
  - 12:20-12:40: Association between Error Class and Performance of Zoofitic Chimpanzees and Gorillas on a Computerized Sequencing Task
    - K.E. Wagner, S.R. Ross

- **CT-B**
  - 10:40-11:00: Same/Different Concept Learning in Matching-To-Sample Tasks by Capuchin Monkeys
    - V. Trappa, D. Garofoli, E. Pino Montari, G. Carstona, F. Natale, E. Vitalberghi
  - 11:00-11:20: Do Chimpanzees Have "Shifty Eyes"? An Analysis of Gaze Following in the Inferred Forager Paradigm
    - K.M. Hall, M.W. Campbell, V. Homer, T.M. Eppley, J.D. Carter, R.W. Byrne, F.B.M. de Waal
  - 11:20-11:40: Perception of Triadic Gaze in Chimpanzees (Pan Trogloidytes) Tested by the Visual Search Task
    - M. Tomonaga, T. Imura
  - 11:40-12:00: Chimpanzees' Use of Conspecific Cues in Matching-To-Sample Tasks
    - C.F. Martin, D. Biro, T. Matsuzawa
  - 12:00-12:20: Attentional Benefit for Perceptually Structured Objects in Chimpanzee Vision
    - T. Ushitani, T. Imura, M. Tomonaga
  - 12:20-12:40: The Social Use of Copulation Calls in Bonobos, Pan Paniscus
    - Z. Clay, K. Zuberbühler

- **CT-C**
  - 10:40-11:00: The Ontogenetic Development of Gaze Following Among Barber Macaques Is Modulated by Social Information
    - J. Fischer, A. Gutmann, R. Prow, C. Teufel
  - 11:00-11:20: New Results Hypothesis in Primates - New Results
    - A. Navarrete, K. Isler, C. van Schaik
  - 11:20-11:40: The Expensive Tissue Hypothesis in Primates - New Results
    - H. Preuschoft
  - 11:40-12:00: Phylogeny of Primates Based on Muscular Characters
    - R. Diogo, B. Wood
  - 12:00-12:20: Sensitivity of Captive Chimpanzees to Individual and Social Information During Foraging Tasks
    - K.E. Bonnie, M.S. Mistele, S.R. Ross, S. Calcutt, E.V. Lonsdorf
  - 12:20-12:40: Does Food Aggregation Affect Funder's Share and Individual Foraging Strategies in a Free-Ranging Capuchin Monkey Group?
    - J.C. Bocca-Marcques, D.F. Gomes

- **CT-D**
  - 10:40-11:00: The Utility of Genetic and Morphological Hypothesis in Primates
    - T.R. Turner, J. Lorenz, J.D. Pampush, N. Freimer, J.P. Grobler
  - 11:00-11:20: Developmental Patterns of Scrotal Coloration Among Free-Ranging African and Caribbean Vervet Monkeys
  - 11:20-11:40: The Expensive Tissue Hypothesis in Primates - New Results
    - H. Preuschoft
  - 11:40-12:00: Does Symbolic Competence Predict Performance of Bonobos, Pan Paniscus, on Match-To-Sample Task?
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**Chairs:** T. Nishimura
17th September

Friday

13:30 - 16:00

Symposium & Workshop

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<td>MULTILEVEL SOCIETIES IN PRIMATES</td>
<td>FROM RANDOM WALKS TO TRAVEL ROUTES: UNDERSTANDING PATTERNS OF PRIMATE MOVEMENT AND SPACE-USE</td>
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<td>COPING WITH RESOURCE SCARCITY: DIVERSITY IN PRIMATE ADAPTATIONS</td>
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OPENING REMARKS
B. Hare, S. Yamamoto

RECIPIROCITY IN FOOD SHARING AMONG CHIMPANZEEs AND BONOBOs
*A.V. Jaeggi, J.M.G. Stevens, C.P. van Schaik

14:25-14:45 RECIPIROCITY BEHIND RECIPROCAL ECONOMICS: EVIDENCE FROM GREc APES AND GREAT APES
*A.V. Jaeggi, J.M.G. Stevens, N. Staes, G. Tomasello

14:45-15:05 IN CHIMPANZEEs GROOMING RECIPROCITY
*F. Subiaul, A.V. Jaeggi

*K. Jensen, J. Call, B. Hare, S. Yamamoto

15:25-15:45 PUNISHMENT AND SPITE IN CHIMPANZEEs
*C.P. van Schaik, J.M.G. Stevens, M. Tomasello

APERIODIC BEHAVIOR IN CHIMPANZEEs
*D.P. Proctor, S.F. Brosnan

14:05-14:25 TRANSFERS BEHIND RECIPROCAL OF CALCULATION ECONOMICS: EVIDENCE FROM CALCULATION BEHIND RECIPROCAL TRANSFERS
*V. Dutour, M. Peil, B. Thierry, J. Call

CLOSING REMARKS
B. Hare
## EN-E-17A [758-S]

**Symposium**

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

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

**Introduction to symposium**

15:00-15:20 LANDSCAPE GENETICS IN PRIMATES: NEW METHODS AND APPLICATIONS

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

**INTRODUCTION**

D. J. Melnick


15:40-15:52 FUTURE-TIME, INDIVIDUAL-BASED SIMULATIONS AND THEIR USE IN PRIMATE LANDSCAPE GENETICS (*A. Di Fiore*)

15:52-16:14 LANDSCAPE CONNECTIVITY DIFFERENCES IN BLACK LION TAMARINS (*L. E. Melnick*)

16:14-16:35 THE VARIABILITY OF DIANA MONKEYS’ CONTACT CALLS: SOCIAL AND PHYSICAL ENVIRONMENT DETERMINANTS (*A. Candolfi, K. Zuberbühler, A. Lemasson*)

16:35-16:55 TROTS AND TRAPSTHES (PONGO ABELII) LIVING IN A HUMAN-DOMINATED LANDSCAPE IN NORTHERN SUMATRA, INDONESIA (*G. A. Campbell-Smith, M. Linke*)

16:55-17:16 THE EFFECT OF WILDLIFE TOURISM ON A POPULATION OF WILD AND SEMI-WILD SUMATAN ORANGUTANS (*Pongo abelii*) IN BUKIT LAWANG, INDONESIA (*D. J. Melnick*)


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

**Symposium**

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

H. Ota


13:55-14:20 ARCHAIC POSTCRANIA OF MIDDLE Miocene Apes and Parallel Evolution of Modern Postcranial Anatomy in Extant Apes (*M. Nakatsukasa*)


14:45-15:10 EVOLUTION OF PRIMATE GENE EXPRESSION (*P. Khaitovich, S. Paabo, M. Somel*)

15:10-15:35 THE GENETIC BASIS FOR PRIMATE EVOLUTION AT CIS-REGULATORY SYSTEM LEVEL (*K. Sumiyama*)

15:35-15:45 DISCUSSION

Y. Shimooka (Commentator)

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-FACED GIBBONS (HYLOBATES LAR) IN KHAO YAI NATIONAL PARK, THAILAND *L.E. Overbaugh, T.G. Bartlett, W.T. Brokkelman


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

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

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

844 THINKING ABOUT THINKING - CHIMPANZEE'S UNDERSTANDING OF ANOTHER ONE'S KNOWLEDGE *M. Schmelz, J. Call, M. Tomalson

845 THE PRESENCE OF THE BOGART ILLUSION IN LIGHT AND DARK SCLEA APES *J.A. Mayhew, J.C. Gomez

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

847 STICK TOOL USE BY CAPUCHIN MONKEYS IN SERRA DA CAPIVARA, BRAZIL *T. Falotico, 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. Fragaesy

850 AN EXPERIMENTAL STUDY OF BEHAVIORAL SYNCHRONY IN CHIMPANZES USING MATCHING TO SAMPLE TASK *J. Inoue, M. Tomonaga


853 WHY IS SYMMETRY DIFFICULT FOR CHIMPANZES? *M. Hirokawa, 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. Ikaru

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

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

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, J. 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. Mural, S. Nunukamli, 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. Negioghi, K. Kawasaki, Y. Kuruda, Y. Yoshikawa, T. Koyata

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

863 PRELIMINARY INVESTIGATION OF SOCIAL AFFILITAION AS CORRELATES OF HORMONES IN FEMALE CAPTIVE CAPUCHIN MONKEYS (CEBUS APELIA) *M. McLeod, C.L. Cunningham, S. Hardle


865 DOUBLE ASYMMETRY OF RECIPROCITY IN HUMANS: A BEHAVIORAL AND NEUROBIOLOGICAL STUDY *S. Okamoto-Barth, A. Redt, M. Shirobi, H. Bromam, A. Heinecke, R. Goebee

866 DO MONKEYS READ OTHERS' GAZE STATEMENT IN A BEHAVIORAL AND NEUROBIOLOGICAL STUDY *A. Heinecke, R. Goebel

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

868 Canceled

869 CONSERVATION STATUS OF THE BIDO ISLAND DRILL (Mandrillus leucophaeus POEINS) *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. Britford

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


875 SURVEYS, MONITORING, HABITATION, AND PROTECTION OF BONOBO AT KOKOLOPORI BONOBO RESERVE, DRC *A. Lokoata


877 POPULATION STATUS OF AND CROP-RAIDING BY TAIWANESE MACAQUES, MACACA CYCLOPS 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. Shabvongsa, P. Pengpoot, Ph. Prayayosambah, S. Malaiyividd, Y. Hamada

879 CONSERVATION OF THE WHITE-HEADED LANGUR (Trachypithecus leucocephalus) IN CHONGZOU, 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. Hayashi

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. Gosseins

883 RAPID PROTOCOL FOR SPECIES DISCRIMINATION OF ORANGUTANS (Pongo sp.) *D. Pervilasian-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. Bakar


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

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
Presentation Guidelines

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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 loudspeaker, 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 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 loudspeaker, 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.
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Yukimaru Sugiyama, 梅山幸丸
Ayako Suyama, 鈴山愛子
Yuriko Niwa, 野村百合子
Kayoko Mera, 望月加代子
Tokyo Zoological Park Society 東京動物園協会

Contributors
Exhibition

Exhibitor

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