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講演

- 1) 岡本宗裕：ようこそ！サマセミ寄生虫館へ？ 愛知サマーセミナー2013（名古屋、愛知）平成25年7月
- 2) 岡本宗裕：ニホンザル血小板減少症について 第156回日本獣医学会学術集会、実験動物医学シンポジウム（岐阜大学、岐阜）平成25年9月20-22日
- 3) 明里宏文：サルから来た HIV: ヒトへの適応. 厚労省エイズ対策研究事業 公開シンポジウム（東京）平成25年6月16日
- 4) 明里宏文：新しい HIV - 1 感染霊長類モデルの創出：前臨床評価システムの最適化に向けて. 第15回埼玉 HIV 感染症研究会（さいたま）平成26年1月20日
- 5) 明里宏文：H I V はなぜヒトに感染するの？ 名古屋市民公開シンポジウム「エイズ無き時代を目指して～過去から未来へ」（名古屋）平成26年2月1日
- 6) 鈴木樹理：サルを飼育・実験する上でのヒトとサルの健康管理. 生理学研究所平成25年度安全衛生講習会. (岡崎, 愛知)平成25年7月24日
- 7) 宮部貴子：獣医麻酔外科学会 教育講演「薬物動態を臨床（研究）に生かす」（仙台国際センター）平成26年1月11日
- 8) 宮部貴子：マーモセット研究会 基盤技術チュートリアル[マーモセットの麻酔]「サル類の麻酔の実際」（九州大学）平成25年12月12日

国際共同先端研究センター

<研究概要>

A) Comparative Wildlife Biology, Conservation, and the Evolution of Social Systems

Fred Bercovitch

- 1) A two-week trip was taken to Zambia for purposes of continuing my long-term collaboration focusing on conducting research, analyzing data, and writing manuscripts on the behavior, ecology, and conservation of Thornicroft's giraffe living in the South Luangwa National Park.
- 2) One week was spent in Kenya at Nairobi National Park attending the 2nd International Wild Giraffe Indaba, sponsored by the Giraffe Conservation Foundation, and striving for increased collaboration among scientists and zoo personnel.

3) Three trips were taken to the United States. One explored possible avenues of research that would involve collaboration with the San Diego Zoo, UCSD, and UCLA, one involved detailed library research at NYU and UCLA for a book that I am writing, and one involved CICASP promotion at a Global30 event in the San Francisco Bay

B) Behavior, Ecology and Conservation of Forest Bats

David Hill

1) Enhanced methodology for surveying bat diversity in forest habitats

- Workshop introducing and demonstrating Autobat acoustic lure to Taiwanese researchers (Hosts Dr Ling-Ling Lee, Taiwan National University and Dr Cheng, Endemic Species Research Institute, Jiji, Taiwan).

- Field experiment to test effectiveness of acoustic lure for bats in tropical rainforest with Dr Shahrul Anuar (Universiti Sains Malaysia) in Bukit Panchor State Forest, and Perlis State Park, Malaysia.

- Preliminary test of acoustic lure with Australian bats in Queensland and South Australia (in collaboration with Dr Kyle Armstrong, University of South Australia, Adelaide)

2) Collection of faecal samples for DNA analysis to examine regional and seasonal variation in diet of *Murina ussuriensis*. Using the Autobat lure and harp traps we obtained faecal samples from 54 individuals over 10 days in Hokkaido, 56 individuals over 14 days at Kyoto University Research Forest at Ashiu, and 64 individuals between June and November in Yakushima (work in Yakushima was in collaboration with Dr Jon Flanders). Tissue samples were also collected from all of these bats for additional population genetic studies. Faecal samples are currently being analysed at University of Copenhagen, Denmark.

3) Temporal and seasonal variation in production of social calls by *Murina ussuriensis*. Automated bat detectors were used to make all-night recordings of bat social calls in two conditions: calls elicited using Autobat lures played at timed intervals through the night, and control condition in which there were with no stimuli. Recordings were made over 18 nights in summer and 18 nights in Autumn in Yakushima to examine seasonal variation in call production and propensity to respond to call.

C) チンパンジーを対象にした比較認知研究

足立幾磨

チンパンジーを対象に、社会的認知能力、とくに顔知覚様式・個体情報の視聴覚統合にかかわる比較発達研究をおこなった。また、言語の進化的起源を明らかにするため、感覚間一致について分析をおこなった。コンピューターを用いた認知課題の成績および、各種の視覚刺激提示時の注視行動の分析をおこなった。

D) 動物園のチンパンジーの知性の研究

足立幾磨

名古屋市の東山動物園のチンパンジー 1 群 7 個体を対象に、屋外運動場での社会行動を観察記録した。また、隣接する実験ブース「パンラボ」において、コンピュータ課題をもちい彼らの知性を分析した。

E) Complexity, Behavioral Organization and Ecological Constraints

Andrew MacIntosh

This research investigates the organization of animal behavior in relation to ecological constraints across two scales: (1) using sequences of individual behavior and (2) using networks of interacting individuals and species. First, sequences of individual behavior (e.g. from primates and penguins) are analyzed to determine natural optimal complexity ranges and what impacts ecological (and other) stressors can have on their fractal structure. This work is in collaboration with the University of Strasbourg, the French Polar Institute (IPEV) and the University of Veterinary and Pharmaceutical Sciences, Brno, Czech Republic. Second, networks of interacting individuals (Japanese macaques at Koshima, Miyazaki) and species (sympatric primates in Sabah, Malaysia) are examined to determine the role of networks in parasite transmission dynamics (supported by a 3-year JSPS grant-in-aid for young scientists (B) as of April 2012). Work in Sabah is in collaboration with the Sabah Wildlife Department, Cardiff University and the Danau Girang Field Center, the Universiti Malaysia Sabah and the Kinabatangan Orang-utan Conservation Programme HUTAN.

F) ゴリラ、チンパンジー、テナガザル、ボノボに関する研究

Mike Seres

- Participated in trying to save a female chimpanzee, named Iyo suffering with maxillary sarcoma.

- In the invited presentation at the Higashiyama Zoo, Nagoya, I have introduced key points of my past work of chimpanzee group formation and integration of difficult individuals into existing social groups at various institutes world-wide as well as introduced housing, husbandry and management logistics of gorillas, bonobos at the San Diego Zoo & Safari Park in California. Moreover, explained and introduced the function and purpose as well as the benefits of bio-floor (wood-chip bedding) widely used in many European Zoos and Sanctuaries.

- In the presentation at the 5th Congress of European Federation for Primatology in 2013 with Dr. Olga Feliu director of Mona Foundation in Spain we have outlined the importance as well as pros and contras of various sanctuaries, rehabilitation of chimpanzees and gorillas, identified key points and emphasized future directions. The presentation was done by Dr. Feliu.

- In the presentation (done by Dr. N. Morimura) at the JPS Meeting we have outlined key points of established friendship and bonding in our newly formed all male group of chimpanzees at the Kumamoto Sanctuary.

- In the poster presentation at the PWS “Kick-off Symposium” we have introduced the new addition, the four bonobos to the Kumamoto Sanctuary, their introduction procedures and husbandry issues.

- During the last fiscal year I have given numerous advise helped to establish and work out various introduction and group formation procedures, given advice in husbandry issues at several Institutes - a volunteer work – regarding species of gibbons, chimpanzees and other great Apes world-wide.

G) プータンに関する調査研究

西澤和子

ブータン王国の National Referral Hospital にて新生児診療に携わり、現地の新生児医療の現状と課題につき調査研究を行った。

H) Experimental investigation of cultural transmission of arbitrary communicative gestures in Japanese macaques

Claire Watson

Arbitrary pairings between form and function form the basis of human communication, therefore understanding social traditions in other primates offers insight into the evolutionary origins of human social communication and culture. Reports of potentially cultural gestures are accumulating in apes and more recently monkeys, however, we lack systematic experimental evidence indicating that any species of nonhuman primate is capable of learning the meaning of any truly social, communicative behaviour through observation of conspecifics. I carried out an experimental study investigating cultural transmission of an arbitrary gesture in Japanese macaques using the group diffusion paradigm. I examined whether Japanese macaques would attend to, and whether they could copy, a novel attention-getting action demonstrated by a trained conspecific in a social (begging) context. Research was carried out at the Research Resource Station of Kyoto University Primate Research Institute.

I) Two cases of dead-infant-carrying followed by mother-infant cannibalism in Japanese Macaques

Claire Watson

I collected video and observational data of a case of a Japanese macaque carrying her dead infant for an unusually long period, followed by mother-infant cannibalism. This supplemented the observation of the first case by Hashimoto in 2011. This behavior has yet to be reported for any species of monkey. The paper is under preparation for submission to a peer-reviewed journal.

J) テナガザルおよびフクロテナガザルに関する研究

Luca Morino

My current research analyses lateralized behavior in hylobatids (gibbons and siamangs), with a focus on a possible correlation with singing activity. Its main purpose is to shed light on the behavioral and neurological processes surrounding the evolution of complex communication. This study is conducted on Japanese gibbons in collaboration with Prof. Matsuzawa and Bercovitch (PRI), and is funded by a short-term JSPS postdoctoral fellowship. Additionally, I coordinate long-term research on wild siamangs in Sumatra (Indonesia) in collaboration with Dr. Lappan (Appalachian State University), and analyze data derived from it.

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- 20) Hashimoto, N, Watson, C F I, Takayoshi, N, Okamoto, M and Matsuzawa, T. (2013) ‘飼育下ニホンザル *Macaca fuscata fuscata* における死児運搬および死児食い行動の2事例’ (Two cases of infant-corpse carrying and filial cannibalism in captive *Macaca fuscata fuscata*). Talk presented at the Japan Primatology Society 28th Annual Meeting, 7th Sept, Okayamarikadai, Japan (Hashimoto presented the talk in Japanese).
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- 23) Morino L (2014) Laterality in gibbons. Zoo-nyan, Zoorasia, Yokohama, Japan, 16 March

講演

- 1) Hill DA, Applications of an acoustic lure for surveying and studying bats in woodland habitats, Endemic Species Research Institute (Taiwan), (2013/04/03, Jiji, Taiwan)
- 2) 足立幾磨 (2014/03/22) 感覚間一致の発達と進化 発達心理学会第25回大会 シンポジウム「乳児における感覚情報の知覚と統合の発達」 京都大学
- 3) Adachi I (2014/02/05-09) Spontaneous spatial mapping of orders in chimpanzees, The 106th Annual Meeting of the Southern Society for Philosophy and Psychology, Charleston, SC, USA
- 4) 足立幾磨 (2013/11/21-22) 感覚間一致の比較認知科学 第5回多感覚研究会 NTTコミュニケーション科学基礎研究所 神奈川県厚木市
- 5) Adachi I (2013/09/20) Cross-domain correspondences in Chimpanzees: from basic perception to the social concept, JPAS-003, Evolution and development of sociality, Sapporo, Japan
- 6) 足立幾磨 (2013/07-06-07) チンパンジーにおける感覚間一致-言語の進化的基盤の探究-シンポジウム『心の先端研究の地平』 京都大学霊長類研究所
- 7) MacIntosh AJJ (2013/11/14-17) Complexity lost: assessing behavioral organization in stress and disease, Central European Institute of Technology mini-symposium and HPI-lab workshop, University of Veterinary and Pharmaceutical Sciences, Brno, Czech Republic
- 8) MacIntosh AJJ (2013/09/06-09) The complex primate: interdisciplinary science and the math behind the monkey, Takashima Prize Lecture, 29th Congress of the Primate Society of Japan, Okayama, Japan
- 9) M. Seres, (2013)“Adventures with chimpanzees and my recent experience in San Diego Zoo & Safari Park, California, USA” Presented at the Higashiyama Zoo & Botanical Garden, November 2013
- 10) 西澤和子 (2014) Symposium on Maternal and Child Health, “Committing to Newborn Survival -Strategic Action Plan to improve Newborn Health in Bhutan-”, Ministry of Health, Royal Government of Bhutan, March 2014
- 11) 西澤和子 (2013) 院内講演会「幸福の国ブータンで赤ちゃんと生きる」、静岡県立こども病院

白眉プロジェクト

<研究概要>

A) 表情コミュニケーションについての実験心理学的研究

佐藤弥・澤田玲子

表情や視線による対人コミュニケーションにおける情報処理過程を、反応記録・ビデオ録画・筋電図計測などにより検討した。定型発達者および発達障害者を対象とした。

B) 表情コミュニケーションについての神経科学的研究

佐藤弥・澤田玲子

表情や視線による対人コミュニケーション課題を遂行中の神経活動を、fMRI・深部脳波などを用いて計測した。

<研究業績>

原著論文

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- 2) Sawada, R., Sato, W., Uono, S., Kochiyama, T., & Toichi, M. (2014) Electrophysiological correlates of the efficient detection of emotional facial expressions. *Brain Research*, 1560, 60-72.
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報告

- 1) 義村さや香・佐藤弥・魚野翔太・十一元三 (2013) 自閉症スペクトラム障害における自発的表情模倣の障害. *公益財団法人豊郷病院附属臨床精神医学研究所年報*, 3, 25-28.