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Andrew J. J. MacIntosh, D.Sc.

CONTACT INFORMATION

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EMPLOYMENT HISTORY

2017~	Associate Professor, Kyoto University Primate Research Institute
2014~	Program Associate Professor, Kyoto University Wildlife Research Center and CICASP
2012-2014	Program Assistant Professor, CICASP
2011-2012	Research Associate (Postdoc), CICASP
2010-2011	Research Fellow (Postdoc), Department of Ecology and Social Behaviour

EDUCATION HISTORY

2007-2010	Graduate School of Science, Kyoto University (Doctor of Science, DSc)
2000-2002	Department of Anthropology, University of Calgary (Master of Arts, MA)
1997-2000	Department of Anthropology, University of Calgary (Bachelor of Science, BSc)

RESEARCH KEYWORDS

• behavioural ecology • behavioural organization • social and ecological networks • parasite/disease ecology • wildlife epidemiology • health and conservation • biostatistics • complexity science/theory (biological fractals)

SCIENTIFIC PROGRAMS

2014~	Health monitoring of Antarctic wildlife working group, with Scientific Committee for Antarctic
	Research (SCAR) Expert Group on Birds and Marine Mammals (EG-BMM)
2013~	l'AMMER: Adélie penguins as monitors of the marine environment [Dumont d'Urville, Adélie Land,
	Antarctica (France)], with Institut Polaire Français (IPEV)
2013~	P ² ARASITE: primates and parasites of Sabah as indicators of a transitioning ecosystem [Sabah,
	Borneo, Malaysia], with Sabah Wildlife Department
2012~	Koshima Macaque Project (KoMP): parasites as a selective force in primate social systems evolution,
	with Kyoto University

AWARDS & SCHOLARSHIPS

2013	Takashima Prize, Primate Society of Japan & Kyouei Steel Co. (research excellence)
2013	Primates most-cited paper award, Japan Monkey Center, Primate Society of Japan, Springer
2007	DSc scholarship: Ministry of Education, Culture, Sports, Science and Technology (MEXT)
	Monbukagakusho scholarship, Japan, 150,000 yen/month (ca. 1,500 USD) * 3.5 years
2001	MA scholarship: Province of Alberta Graduate Scholarship (PAGS), Canada, 1,000 CAD/month * 1
	year

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RESEARCH GRANTS

Japan Society for the Promotion of Science (JSPS) Grant-in-Aid for Young Scientists A, Japan, 16,200,000 JPY (ca. 150,000 USD)
JSPS Grant-in-Aid to support a short-term doctoral student fellowship (Ms. Kelly Finn), Japan, 260,000 JPY (ca. 2,000 USD)
JSPS Grant-in-Aid to support a short-term doctoral student fellowship (Ms. Valeria Romano), Japan, 900,000 JPY (ca. 7,500 USD)
JSPS Grant-in-Aid to support a postdoctoral fellow (Dr. Julie Duboscq), Japan, 900,000 JPY (ca. 7,500 USD)
Kyoto University Step Up Grant, Japan, 1,600,000 JPY (ca. 13,000 USD)
JSPS 'Sakura' grant Japan/France (PI: Akinori Takahashi, National Institute of Polar Research)
JSPS Grant-in-Aid for Overseas Research A (PI: Hirohisa Hirai, Kyoto University Primate
Research Institute)
JSPS Grant-in-Aid for Young Scientists B, Japan, 3,500,000 JPY (ca. 35,000 USD)
JSPS Research Exchange Grant, Japan/France, 575,000 JPY (ca. 7,000 USD)
JSPS - AS-HOPE overseas research and training grant, Japan, Awarded 4 times, total: 1,332,000
JPY (ca. 15,000 USD) *Internal Competitive*

INVITED LECTURES/SEMINARS

2017	Parasites and primate social systems evolution (SoHaPi Workshop, German Primate Center (DPZ),
	Gottingen, Germany)
2016	(1) Project l'AMMER: Adélie Penguins as Monitors of the Marine Environment, (2) The Wormy World of
	Primates: Vignettes from an Empirical Model System in Japan (National Institute of Ecology, South Korea)
2013	Complexity lost: assessing behavioural 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)
2013	The complex primate: interdisciplinary science and the math behind the monkey (Takashima Prize Lecture at the
	29th Congress of the Primate Society of Japan, Okayama)
2013	Epidemiology of nematode parasite infection among wild Japanese macaques: heterogeneity in the external and internal
	environments (Symposium: "Ecological Roles of Primates in Forest Ecosystems", KUPRI, Japan)
2012	A fractal ethos for ethology: revealing behavioural stereotypies in stress and disease (German Primate Center (DPZ)
	Kolloquium Series, Gottingen, Germany)
2011	Public Lecture: Of worms and monkeys: the secret struggle for health in the wild ("Yakushima Kenkyuu Koza",
	co-hosted by the Kyoto University Global COE Program and The Yakushima Environmental Culture
	Foundation, Japan)

TEACHING

201/~	Lecturer: Conservation Biology, Zoo Biology, Comparative Cognition, Kyoto University
2014~	Lecturer: Animal Behavior, Kyoto University
2016~	Instructor (field school): Yakushima Field and Genome Science Training Course, Kyoto University [annual]
2011~	Instructor: CICASP Seminar in Science Communication, KUPRI [ongoing weekly]
2011	Instructor (field school): Formation of a strategic base for biodiversity & evolutionary research: from genome to
	ecosystem (Japan), Kyoto University Global COE Program
2003	Instructor: English as a Foreign Language (EFL), Tokyo, Japan [3 years]

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2001	Teaching Assistant (field school): Field Primatology (Ghana), University of Calgary
2001	Teaching Assistant: Primate Behaviour, University of Calgary
2000	Teaching Assistant: Introduction to Social and Cultural Anthropology, University of Calgary

SCIENTIFIC EDUCATION AND OUTREACH

2012~ <u>The PrimateCast</u> – a podcast series dedicated to the study and conservation of primates (host, producer) www.theprimatecast.com; www.cicasp.pri.kyoto-u.ac.jp/news/podcasts

GRADUATE STUDENTS & POSTDOCTORAL FELLOWS SUPERVISED

2016~	<u>Postdoctoral Fellow</u> : Julie Duboscq ("Connecting the dots: linking host behavior to parasite transmission and infection risk"; Kyoto University, Japan)
2016	Master's Student: Kenneth Keuk ("Social networks, social style and the dynamics of parasite infection")
2015~	<u>Doctoral Student</u> : Liesbeth Frias ("Host-Parasite Systems Dynamics in Human-Modified Habitats"; Kyoto University, Japan)
2015~	Doctoral Student: Cecile Sarabian ("The Origins of Hygiene: Infection-risk Avoidance in Papionini and
2015~	Hominidae"; Kyoto University, Japan) <u>Graduate Student</u> : Kelly Finn ("Complexity as a new frontier in primate behavior, ecology and cognition";
	University of California at Davis, USA)
2013~	Doctoral Student: Xavier Meyer ("Does complexity in behavioral organization allow seabirds to adapt to
	changes in their environment?"; University of Strasbourg, France)
2013~	Doctoral Student: Valeria Romano de Paula ("Primate Social Networks as a Trade-off between
	Information and Disease Transmission"; University of Strasbourg, France)
2013~	Doctoral Student: Jade Burgunder ("Complexity in Behavioral Organization: a Novel Approach to
	Assessing Clinical Outcomes of Parasitic Diseases"; Masaryk University, Czech Republic)
2013-2015	Postdoctoral Fellow: Julie Duboscq ("Social networks as a trade-off between optimal decision-making,
	information transmission and reduced disease transmission"; University of Strasbourg Institute for
	Advanced Studies, France)
2013	Master's student: Elodie Thomas ("Influence of Nematode Parasites on Stress among Koshima Macaques,
	Macaca fuscata'; University of Toulouse, France)
2012-2014	Master's student: Cecile Sarabian ("Hygienic Tendencies Constrain Geohelminth Infection in Free-ranging
	Macaques"; Rennes 1 University, France)

OTHER PROFESSIONAL EXPERIENCE

2015~ Editorial Board Member: EcoHealth (2016~), Scientific Reports, Primate Research

2009~ ad hoc reviewer: EcoHealth, PNAS, Phil. Trans. R. Soc. B. Biol. Sci., Proc. R. Soc. B. Biol. Sci., Anim. Behav., Am. J. Primatol., Int. J. Primatol., Primatol., Primatol., Primatol., Primatol., Primatol., Oxford University Press, The Leakey Foundation, National Geographic Society, Ranger Rick

PUBLICATIONS

Refereed Journal Articles: 29

Book Chapters: 5

Conference Presentations: 50+

Google Scholar: http://scholar.google.co.jp/citations?user=zCPdEMoAAAAJ&hl=en

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JOURNAL ARTICLES

- *These authors contributed equally to this work
- *** Journal most-cited paper award winner
- †Invited Paper
- 1. Meyer X, MacIntosh AJJ, Chiaradia A, Kato A, Mattern T, Sueur C, Ropert-Coudert Y (Accepted) Shallow divers, deep waters, and the rise of behavioural stochasticity. *Mar Biol*
- 2. Burgunder J, Hashiomto C, Modry D, Kalousova B, Petrzelkova K, MacIntosh AJJ (Accepted) Complexity in behavioural organisation and strongylid infection among wild chimpanzees. *Anim Behav*
- 3. Duboscq J, Romano V, Sueur C, <u>MacIntosh AJJ</u> (2016) Scratch that itch: revisiting links between self-directed behaviour and parasitological, social and environmental factors in a free-ranging primate. *R Soc Open Science* 3: 160571
- 4. Rigaill L, <u>MacIntosh AJJ</u>, Higham JP, Winters S, Shimizu K, Mouri K, Suzumura T, Furuichi T, Garcia C (2016) Testing for links between face color and age, dominance status, parity, weight, and intestinal nematode infection in a sample of female Japanese macaques. *Primates* 58:83-91
- 5. Duboscq J, Romano V, <u>MacIntosh A</u>, Sueur C (2016) Social information transmission in animals: Lessons from studies of diffusion. *Front Psych* 7:1147
- 6. Romano V, Duboscq J, Sueur C, <u>MacIntosh AJJ</u> (2016) Modelling infection transmission in primate networks to predict centrality-based risk. *Am J Primatol* 78:767–779
- 7. Duboscq J, Romano V, Sueur C, <u>MacIntosh AJJ</u> (2016) Network centrality and seasonality interact to predict lice load in a social primate. *Sci Rep* 6:22095
- 8. Sarabian C, MacIntosh AJJ (2015) Hygienic tendencies correlate with low geohelminth infection in free-ranging macaques. *Biol Lett* 11:20150757
- 9. †MacIntosh AJJ (2015) At the edge of chaos error tolerance and the maintenance of Levy statistics in animal movement: Comment on "Liberating Lévy walk research from the shackles of optimal foraging" by A.M. Reynolds. *Phys Life Rev* 14:105–107
- 10. Reynolds AM, Ropert-Coudert Y, Kato A, Chiaradia A, <u>MacIntosh AJJ</u> (2015) A priority-based queuing process explanation for scale-free foraging behaviours. *Anim Behav* 108:67-71
- 11. Meyer X*, MacIntosh AJJ*, Kato A, Chiaradia A, Ropert-Coudert Y (2015) Hydrodynamic handicaps and organizational complexity in the foraging behavior of two free-ranging penguin species. *Anim Biotel* 3:25
- 12. Rigaill LR, <u>MacIntosh AJJ</u>, Higham JP, Winters S, Shimizu K, Mouri K, Furuichi T, Garcia C (2015) Multimodal advertisement of pregnancy in free-ranging female Japanese macaques (*Macaca fuscata*). *PLoS ONE* 10(8): e0135127
- 13. Ropert-Coudert Y, Kato A, Meyer X, Pellé M, <u>MacIntosh AJI</u>, Angelier F, Chastel O, Widmann M, Arthur B, Raymond B, Raclot T (2015) A complete breeding failure in an Adélie penguin colony correlates with unusual, extreme environmental events. *Ecography* 38:111-113
- 14. †MacIntosh AJJ (2014) The fractal primate: interdisciplinary science and the math behind the monkey. *Pri Res* 30:95-119
- 15. †MacIntosh AJJ (2014) Ecology and epidemiology of nematode infection in Japanese macaques: building an empirical model. *Pri Res* 30:23-51
- 16. Pasquaretta C, Levé M, Claidière N, van de Waal E, Whiten A, MacIntosh AJJ, Pelé M, Borgeaud C, Brosnan S, Crofoot M, Fedigan L, Fichtel C, Hopper L, Mareno MC, Petit O, Schnoell AV, di

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- Sorrentino EP, Thierry B, Tiddi B, Sueur C (2014) Social networks in primates: smart and tolerant species have more efficient networks. *Sci Rep* 4:7600
- 17. Hill DA, Fukui D, Agetsuma N, MacIntosh AJJ (2014) Influence of trap environment on the effectiveness of an acoustic lure for capturing vespertilionid bats in two temperate forest zones in Japan. *Mammal Study* 39:229-236
- 18. Cottin M*, MacIntosh AJJ*, Kato A, Takahashi A, Debin M, Raclot T, Ropert-Coudert Y (2014) Corticosterone administration leads to a transient alteration of foraging behaviour and complexity in a diving seabird. *Mar Ecol Progr Ser* 496:249-262
- 19. MacIntosh AJJ*, Pelletier L*, Chiaradia A, Kato A, Ropert-Coudert Y (2013) Temporal fractals in seabird foraging behaviour: diving through the scales of time. *Sci Rep* 3:1884
- 20. Sueur C, <u>MacIntosh AJJ</u>, Jacobs AT, Watanabe K, Petit O (2013) Predicting leadership using nutrient requirements and dominance rank of group members. *Behav Ecol Sociobiol* 67: 457-470
- 21. MacIntosh AJJ, Jacobs A, Garcia C, Shimizu K, Mouri K, Huffman MA, Hernandez AD (2012) Monkeys in the middle: parasite transmission through the social network of a wild primate. *PLoS ONE* 7:e51144
- 22. Pebsworth PA, <u>MacIntosh AJJ</u>, Morgan HR, Huffman MA (2012) Factors influencing the ranging behaviour of chacma baboons (*Papio hamadryas ursinus*) living in a human-modified habitat. *Int J Primatol* 33:872-887
- 23. Zhang P, Li BG, Qi XG, MacIntosh AJJ, Watanabe K (2012) A proximity-based social network of a group of Sichuan snub-nosed monkeys (*Rhinopithecus roxellana*). *Int J Primatol* 33: 1081-1095
- 24. <u>MacIntosh AJJ</u>, Huffman MA, Nishiwaki K, Miyabe-Nishiwaki T (2012) Urological screening of a wild group of Japanese macaques (*Macaca fuscata yakui*): investigating trends in nutrition and health. *Int J Primatol* 33: 460-478
- 25. <u>MacIntosh AJJ</u>, Alados CL, Huffman MA (2011) Fractal analysis of behaviour in a wild primate: behavioural complexity in health and disease. *J R Soc Interface* 8(63):497–509
- 26. **MacIntosh AJJ, Hernandez AD, Huffman MA (2010) Host age, sex, and reproductive seasonality affect nematode parasitism in wild Japanese macaques. *Primates* 51:353–364
- 27. MacIntosh AJJ, Sicotte P (2009) Vigilance in ursine black and white colobus monkeys (*Colobus vellerosus*): an examination of the effects of conspecific threat and predation. *Am J Primatol* 71:919–927
- 28. Sicotte P, <u>MacIntosh AJ</u> (2004) Inter-group encounters and male incursions in *Colobus vellerosus* in Central Ghana. *Behaviour* 141(5):533–553
- 29. <u>MacIntosh AJJ</u> (2001) Rank relations in two captive juvenile male black-handed spider Monkeys (*Ateles geoffroyi*): a case study. *Laboratory Primate Newsletter* 40(2):1–4

BOOK CHAPTERS

- 1. <u>MacIntosh AJJ, Frias L</u> (2017) "Coevolution of Hosts and Parasites". In: A Fuentes et al. (eds) *The International Encyclopedia of Primatology*, Wiley
- 2. <u>MacIntosh AJJ</u> (2017) "Pathogen". In: A Fuentes et al. (eds) *The International Encyclopedia of Primatology*, Wiley
- 3. Huffman MA, <u>MacIntosh AJJ</u> (2012) Plant-food diet of the Arashiyama Japanese macaques and its potential medicinal value. In: Leca J-B, Huffman MA, Vasey P (eds) *The Monkeys of Stormy Mountain:*

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- 60 Years of Primatological Research on the Japanese Macaques of Arashiyama. Cambridge University Press, pp. 356–432
- 4. <u>MacIntosh AJJ</u>, Huffman MA (2010) Towards understanding the role of diet in host-parasite interactions: the case for Japanese macaques. In: Nakagawa N, Nakamichi M, Sugiura H (eds) *The Japanese macaques*. Springer, pp. 323–344
- 5. Hernandez AD, <u>MacIntosh AJ</u>, Huffman MA (2009) Primate parasite ecology: patterns and predictions from an on-going study of Japanese macaques. In: Huffman MA, Chapman CA (eds) *Primate parasite ecology: the dynamics of host-parasite relationships.* Cambridge University Press, pp. 387–401

SELECTED CONFERENCE PRESENTATIONS

- *Student Presenter
- **Best presentation prize
- †Invited Talk
- 1. Frias L, Okamoto M, <u>MacIntosh A</u> (2016). Parasite sharing as a preliminary indicator of multispecies connectivity. 12th Conference of the European Wildlife Disease Association, Berlin, Germany.
- 2. Frias L, Okamoto M, <u>MacIntosh A</u> (2016). Towards a primate parasite community ecology: parasite sharing in sympatric Bornean primates. The 26th Congress of the International Primatological Society, Chicago, USA.
- 3. Frias L, Okamoto M, <u>MacIntosh A</u> (2016). Gastrointestinal parasite sharing in multi-host primate communities. 13th International Conference on Molecular Epidemiology and Evolutionary Genetics of Infectious Diseases, Antwerp, Belgium.
- 4. Sarabian C, MacIntosh AJJ (2016) A primate's sense of cleanliness: perspectives from Papionini and Hominini. The 26th Congress of the International Primatological Society, Chicago, USA
- 5. Sarabian C, MacIntosh AJJ (2016) Revulsion in chimpanzees: health maintenance through avoidance of biological contaminants. Chimpanzees in Context, 'Understanding Chimpanzees' Symposium Series. Chicago, USA (ePoster in PeerJ collection "Chimpanzees in Context", PEERJ PREPRINTS 4:e1851v1: https://doi.org/10.7287/peerj.preprints.1851v1)
- 6. Sarabian C, MacIntosh AJJ (2016) Testing disgust in non-human primates. The 31st International Congress of Psychology, Yokohama, Japan (Poster)
- 7. <u>MacIntosh AJJ</u>, Meyer X, Kato A, Ropert-Coudert Y (2016) Diving into complexity: exploring fractality in seabird foraging behavior. The Seventh Symposium on Polar Science, National Institute of Polar Research, Tachikawa, Japan.
- 8. <u>MacIntosh AJJ</u>, Sarabian C, Duboscq J, Romano V, Kaneko A, Okamoto M, Suzumura T (2016) Parasites as a selective force in primate social systems evolution: perspectives from an empirical model. The 26th Congress of the International Primatological Society, Chicago, USA
- MacIntosh AJJ, Sarabian C, Duboscq J, Romano V, Kaneko A, Okamoto M, Suzumura T (2016)
 Helminth parasites as potential regulators of Japanese macaque population dynamics. The 26th
 Congress of the International Primatological Society, Chicago, USA
- Finn K, <u>MacIntosh A</u> (2016) Behavioral Organization and Parasites in Japanese Macaques (*Macaca fuscata*) on Koshima Island. The 26th Congress of the International Primatological Society, Chicago, USA

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- 11. Martin C, <u>MacIntosh AJJ</u> (2016) Chaotic choice dynamics buffer chimpanzees and orangutans against exploitation by a computer algorithm in a solitary matching pennies task. The 26th Congress of the International Primatological Society, Chicago, USA
- 12. **Frias L*, Okamoto M, <u>MacIntosh A</u> (2016) Parasite sharing in sympatric Bornean primates. 5th International Symposium on Primatology and Wildlife Science. Inuyama, Japan
- 13. MacIntosh AJJ, Sarabian C, Duboscq J, Thomas E, Romano V, Kaneko A, Okamoto M, Suzumura T (2015) Hidden constraints of chronic parasitism on health and fitness in Japanese macaques. The 31st Congress of the Primate Society of Japan, Kyoto, Japan
- 14. Duboscq J, Romano V, <u>MacIntosh A</u>, Sueur C (2015) A social network perspective on macaque social styles. The 38th meeting of the American Society of Primatologists, Bend, USA.
- 15. Duboscq J, Romano V, Sueur C, <u>MacIntosh A</u> (2015) Investigating infection risk and sociality: centrality interacts with seasonality to predict lice load in free-ranging female japanese macaques, *Macaca fuscata*. The 38th meeting of the American Society of Primatologists, Bend, USA.
- 16. Rigaill LR*, <u>MacIntosh AJJ</u>, Higham JP, Winters S, Shimizu K, Mouri K, Furuichi T, Garcia C (2015) Multiple sexual signals of pregnancy in Japanese macaques. The 31st Congress of the Primate Society of Japan, Kyoto, Japan
- 17. Sarabian C*, <u>MacIntosh A</u> (2015) Hygiene efficiency against parasites in Japanese macaques. The 31st Congress of the Primate Society of Japan, Kyoto, Japan
- 18. Hill DA, Anuar S, <u>MacIntosh AJJ</u>, Ghazali A (2014) Acoustic lure gives increased efficiency for short-term surveys of bat diversity in tropical rainforest. The 13th European Bat Research Symposium, Sibenik, Croatia
- 19. <u>MacIntosh AJJ</u>, Kato A, Ropert-Coudert Y (2014) Logging Complexity: ecological challenges and the emergence of behavioral organization. Bio-logging Science 5, Strasbourg, France.
- 20. Huffman MA, Mori H, Kawai S, Nahallage CAD, <u>MacIntosh AJJ</u> (2014) The human-primate interface: on-going zoonoses monitoring in Southeast Asia. The 4th International Congress on Asian Primates, Kyoto University and Bogor Agricultural University International Symposium, Bogor, Indonesia
- 21. Morino L, <u>MacIntosh AJJ</u> (2014) Gibbon songs and intergroup dynamics: a community-level network analysis. The 25th Congress of the International Primatological Society, Hanoi, Vietnam
- 22. Sueur C, Pasquaretta C, Leve M, Claidiere N, van de Waal E, <u>MacIntosh AJ</u>, Pele M, Whiten A (2014)_Information transmission efficiency in primate networks. The 25th Congress of the International Primatological Society, Hanoi, Vietnam
- 23. <u>MacIntosh AJJ</u> (2014) A field-experimental approach to primate-parasite interactions: filling in the knowledge-gaps. The 25th Congress of the International Primatological Society, Hanoi, Vietnam
- 24. de Paula VR*, Duboscq J, Sueur C, <u>MacIntosh A</u> (2014) Modelling disease transmission in primate networks to predict epidemics. The 25th Congress of the International Primatological Society, Hanoi, Vietnam
- 25. Sarabian C*, MacIntosh A (2014) In the dirt: hygienic behaviours and revulsion as parasite avoidance adaptations in Japanese macaques. The 25th Congress of the International Primatological Society, Hanoi, Vietnam
- 26. Duboscq J, Sueur C, Romano De Paula V, <u>MacIntosh A</u> (2014) Pseudoectoparasites: a promising tool for the study of parasite transmission in relation to social networks. The 25th Congress of the International Primatological Society, Hanoi, Vietnam

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- 27. **Sarabian C*, MacIntosh AJJ (2014) On the origins of hygiene: from Japanese macaques to African great apes. Origins of human mind annual symposium, International Institute for Advanced Studies, Kyoto, Japan
- 28. <u>MacIntosh AJJ</u> (2014) The complex animal: ecological constraints and the emergence of behavioural organization. Origins of human mind annual symposium, International Institute for Advanced Studies, Kyoto, Japan
- 29. Dubosq J, de Paula VR, Sueur C, <u>MacIntosh AJJ</u> (2013) Social networks as a trade-off between optimal decision-making, information transmission and reduced disease transmission. The 9th Congress of the Göttinger Freilandtage, Gottingen, Germany
- 30. MacIntosh AJJ, Sarabian C, Thomas E, Suzumura T, Kaneko A, Takeshita S, Mouri K, Itoh M, Shimizu K, Okamoto M (2013) A field-experimental approach to primate-parasite interactions: filling in the knowledge-gaps. The 29th Congress of the Primate Society of Japan, Okayama, Japan
- 31. †MacIntosh AJJ (2013) The complex primate: interdisciplinary science and the math behind the monkey. Takashima Prize Lecture at the 29th Congress of the Primate Society of Japan, Okayama, Japan
- 32. <u>MacIntosh AJJ</u>, Cottin M, Pelletier L, Kato A, Ropert-Coudert Y (2012) Primates, penguins, and periodicity: maintaining complexity in the face of ecological challenge. The 24th Congress of the International Primatological Society, Cancun, Mexico
- 33. MacIntosh AJJ, Jacobs A, Garcia C, Huffman MA, Hernandez AD (2012) Socially-mediated parasite transmission: the role of dominance in exposure and susceptibility. The 24th Congress of the International Primatological Society, Cancun, Mexico
- 34. <u>MacIntosh AJJ</u>, Jacobs A, Huffman MA, Hernandez AD (2011) Parasite transmission through social networks of Japanese macaques: a cost of grooming? The 26th Congress of the Primate Society of Japan, Inuyama, Japan. *Primate Res* 27(S):16
- 35. <u>MacIntosh AJJ</u>, Huffman MA (2010) The fractal dimension: measuring behavioural complexity and its implications for evaluating the health of primates in the wild. The 23rd Congress of the International Primatological Society, Kyoto, Japan. *Primate Res* 26(S):146
- 36. <u>MacIntosh AJJ</u>, Hernandez, AD, Huffman MA (2008) The importance of host age and sex to the distribution of helminth parasites infecting free-ranging Yaku-Island macaques (*Macaca fuscata yakui*). The 31st Meeting of the American Society of Primatologists, West Palm Beach, USA. *Am J Primatol* 70(S1):67