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CURRICULUM VITAE

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Date of Birth: 16 February, 1948

EDUCATION

B.A., Honors Program in Biological Anthropology, Harvard University, 1970
Ph.D., Sub-Department of Animal Behaviour, University of Cambridge, 1976

POSITIONS HELD

1985-present: Assistant to Associate to Full Professor, Dept. of Psychology, University of Pennsylvania
1981-1985: Assistant Professor, Dept. of Anthropology, University of California, Los Angeles
1979-81: Assistant Professor, Rockefeller University, New York, N.Y.
1976-79: Post-Doctoral Fellow, Rockefeller University

TEACHING EXPERIENCE

1986-present: Dept. of Psychology, Univ. of Pennsylvania: Animal Behavior (Introductory Undergraduate Lecture); Animal Communication (Advanced Undergraduate Seminar); Topics in Animal Communication and Cognition (Graduate Seminar)
1981-1985: Dept. of Anthropology, UCLA: Introduction to Biological Anthropology (Introductory Undergraduate Lecture); Behavioral Ecology of Primates (Advanced Undergraduate Lecture); Vocal Communication in Monkeys and Apes (Graduate Seminar); Topics in Behavioral Biology (Graduate Seminar)

RESEARCH EXPERIENCE

1992-2008: Co-director of research on the vocal communication of baboons, Moremi Game Reserve, Botswana
1977-1990: Co-Director of research on the behavior and ecology of vervet monkeys, Amboseli National Park, Kenya
1984-1990: Observations and experiments on captive rhesus and Japanese macaques, California Primate Research Center, Davis, California
1983: Field research on social behavior and vocalizations of mountain gorillas, Parc National des Volcanes, Rwanda
1972-74: Field research on the social behavior of baboons, Mt. Zebra National Park, South Africa

ACADEMIC SERVICE AND PROFESSIONAL SOCIETIES

Animal Behavior Society

Past President, 2013-2014
President, 2012-2013
First President-elect, 2011-2012
Second President-Elect, 2010-2011
Member, Executive Committee, 2010-2014

University of Pennsylvania

Undergraduate Chair, Department of Psychology, 1993-95, 2005 (Spring), 2006-2009
Chair, Department of Psychology, 1996-2001
Acting Chair, Department of Psychology, July-December 2013
School of Arts & Sciences Personnel Committee, 2008-2011 (chair, 2010-2011)

Other academic service

Member, Scientific Executive Committee, Leakey Foundation, 2009-present
Member, editorial advisory board, *Primates*, 2008-present
Member, NIH Study Section on Biobehavioral Regulation, Learning, and Ethology, 2001-2004
Associate editor, *American Journal of Primatology*, 1989-2003
Member of the following societies: American Psychological Association (Divisions 3 and 6), American Psychological Society, Animal Behavior Society, American Primatological Society, International Primatological Society
Reviewer for the following journals: *American Journal of Primatology*, *Animal Behaviour*, *Behavioural Ecology*, *Behaviour*, *Behavioral and Brain Sciences*, *Behavioural Ecology and Sociobiology*, *Biology Letters*, *Cognition*, *Cognitive Science*, *Current Biology*, *Ethology*, *International Journal of Primatology*, *Journal of Comparative Psychology*, *Proceedings of the Royal Society B*, *Nature*, *Primates*, *Science*.

HONORS AND AWARDS

Fellow, Center for Advanced Study in the Behavioral Sciences, Stanford, CA, 1983-84
University of Pennsylvania Young Scientist Award (jointly with D.L. Cheney), 1986
W.W. Howells Book Prize (awarded by the American Anthropological Association) for *How Monkeys See the World*, 1993
Fellow, John Simon Guggenheim Foundation, 1995-96
Fellow, American Psychology Association (Division 6), 1996
Fellow, Animal Behavior Society, 1997
Fellow, American Psychological Association (Division 3), 2002
Fellow, Association for Psychological Science, 2007
Branigan Lecturer, Indiana University (jointly with Dorothy Cheney), 2009
Cozarelli Prize, *Proceedings of the National Academy of Sciences* (jointly with D.L. Cheney, L. Moscovice, and R. Mundry), for the paper "Contingent cooperation between wild female baboons", 2010
Fellow, American Academy of Arts & Sciences, 2012
Doctorate *honoris causa*, University of Neuchâtel, Switzerland, 2013

Distinguished Primatologist Award (jointly with Dorothy Cheney), American Society of Primatology, 2016
Member, U.S. National Academy of Sciences, 2017

RESEARCH GRANTS

National Geographic Society: "Vocal communication in wild bonobos", 2012-2014.
NSF: "The effects of social composition and complexity: Examining the genetics and social structure of the gelada." PI on the doctoral dissertation improvement grant to Noah Snyder-Mackler, 2009-2011.
NIMH: "Communication and behavior of baboons", Co-Principal Investigator with D.L. Cheney, 2000-2004, 2004-2008.
Leakey Foundation: "The alarm and display calls of free-ranging baboons", Co-Principal Investigator with D.L. Cheney, 1999-2000.
NSF: "Behavior and communication of free-ranging baboons", Co-Principal Investigator with D.L. Cheney, 1996-2000.
NIH: "Vocal communication in free-ranging baboons", Co-Principal Investigator with D.L. Cheney, 1992-1997.
National Geographic Society: "Vocal communication in free-ranging baboons", Co-Principal Investigator with D.L. Cheney, 1992-1994
NIH: "Vocal development in non-human primates", Co-Principal Investigator with D.L. Cheney and M.J. Owren, 1983-1991
NSF: "Communication and social organization of vervet monkeys", Co-Principal Investigator with D.L. Cheney, 1980-1990

PUBLICATIONS

Books

Cheney, D.L. & Seyfarth, R.M. (1990) *How Monkeys See The World: Inside The Mind of Another Species*. Chicago: University of Chicago Press.
Cheney, D.L. & Seyfarth, R.M. (2007) *Baboon Metaphysics: The Evolution of a Social Mind*. Chicago: University of Chicago Press.

Edited Books

Smuts, B., Cheney, D., Seyfarth, R., Wrangham, R. & Struhsaker, T. (1987) *Primate Societies*. Chicago: University of Chicago Press.

Journal Articles

Seyfarth, R.M. (1976) Social relationships among adult female baboons. *Animal Behaviour* 24, 917-938.
Seyfarth, R.M. (1977) A model of social grooming among adult female monkeys. *Journal of Theoretical Biology* 65, 671-698. [http://dx.doi.org/10.1016/0022-5193\(77\)90015-7](http://dx.doi.org/10.1016/0022-5193(77)90015-7)
Cheney, D.L. & Seyfarth, R.M. (1977) Behavior of immature and adult male baboons during inter-group encounters. *Nature* 269, 404-406.
Seyfarth, R.M. (1978) Social relations among adult male and female baboons. I. Behavior during sexual consortship. *Behaviour* 64, 204-226.

- Seyfarth, R.M. (1978) Social relations among adult male and female baboons. II. Behavior throughout the female reproductive cycle. *Behaviour* 64, 227-247.
- Seyfarth, R.M. (1980) The distribution of grooming and related behaviors among adult female vervet monkeys. *Animal Behaviour* 28, 798-813.
- Seyfarth, R.M., Cheney, D.L. & Marler, P. (1980) Monkey responses to three different alarm calls: evidence for predator classification and semantic communication. *Science* 210, 801-803.
- Seyfarth, R.M., Cheney, D.L. & Marler, P. (1980) Vervet monkey alarm calls: semantic communication in a free-ranging primate. *Animal Behaviour* 28, 1070-1094.
- Seyfarth, R.M. & Cheney, D.L. (1980) The ontogeny of vervet monkey alarm-calling behavior. *Zeitschrift fur Tierpsychologie* 54, 37-56.
- Cheney, D.L. & Seyfarth, R.M. (1980) Vocal recognition in free ranging vervet monkeys. *Animal Behaviour* 28, 362-367.
- Cheney, D.L. & Seyfarth, R.M. (1981) Selective forces affecting the predator alarm calls of vervet monkeys. *Behaviour* 76, 25-61.
- Cheney, D.L., Lee, P.C. & Seyfarth, R.M. (1981) Behavioral correlates of non-random mortality among free-ranging female vervet monkeys. *Behavioral Ecology and Sociobiology* 9, 153-161.
- Cheney, D.L. & Seyfarth, R.M. (1982) Recognition of individuals within and between groups of free-ranging vervet monkeys. *American Zoologist* 22, 519-529.
- Cheney, D.L. & Seyfarth, R.M. (1982) How vervet monkeys perceive their grunts: field playback experiments. *Animal Behaviour* 30, 739-751.
- Cheney, D.L. & Seyfarth, R.M. (1983) Non-random dispersal in free ranging vervet monkeys: social and genetic consequences. *American Naturalist* 122, 392-412.
- Seyfarth, R.M. & Cheney, D.L. (1984) The natural vocalizations of non-human primates. *Trends in Neurosciences* 7, 66-73.
- Seyfarth, R.M. & Cheney, D.L. (1984) Grooming, alliances, and reciprocal altruism in vervet monkeys. *Nature* 308, 541-543.
- Seyfarth, R.M. & Cheney, D.L. (1984) The acoustic features of vervet monkey grunts. *Journal of the Acoustical Society of America* 75, 1623-1628.
- Cheney, D.L. & Seyfarth, R.M. (1985) Social and non-social knowledge in vervet monkeys. *Philosophical Transactions of the Royal Society, Series B* 308, 187-201.
- Cheney, D.L. & Seyfarth, R.M. (1985) Vervet monkey alarm calls: manipulation through shared information? *Behaviour* 93, 150-166.
- Hauser, M.D., Cheney, D.L. & Seyfarth, R.M. (1986) Group extinction and fusion in free-ranging vervet monkeys. *American Journal of Primatology* 11, 63-77.
- Seyfarth, R.M. & Cheney, D.L. (1986) Vocal development in vervet monkeys. *Animal Behaviour* 34, 1640-1658.
- Cheney, D.L. & Seyfarth, R.M. (1986) The recognition of social alliances in vervet monkeys. *Animal Behaviour* 34, 1722-1731.
- Cheney, D.L., Seyfarth, R.M. & Smuts, B.B. (1986) Social relationships and social cognition in nonhuman primates. *Science* 234, 1361-1366.
- Cheney, D.L. & Seyfarth, R.M. (1987) The influence of intergroup competition on the survival and reproduction of female vervet monkeys. *Behavioral Ecology & Sociobiology* 21, 375-386.

- Cheney, D.L. & Seyfarth, R.M. (1988) Assessment of meaning and the detection of unreliable signals in vervet monkeys. *Animal Behaviour* 36, 477-486.
- Seyfarth, R.M. & Cheney, D.L. (1988) Empirical tests of theories of reciprocity: problems in assessment. *Ethology and Sociobiology* 9, 181-188.
- Cheney, D.L. & Seyfarth, R.M. (1989) Reconciliation and redirected aggression in vervet monkeys. *Behaviour* 110, 258-275.
- Keddy Hector, A., Seyfarth, R.M. & Raleigh, M. (1989) Male parental care, female choice, and the effect of an audience in vervet monkeys. *Animal Behaviour* 38, 262-271.
- Cheney, D.L. & Seyfarth, R.M. (1990) Attending to behaviour versus attending to knowledge: examining monkeys' attribution of mental states. *Animal Behaviour* 40, 742-753.
- Seyfarth, R.M. & Cheney, D.L. (1990) The assessment by vervet monkeys of their own and another species' alarm calls. *Animal Behaviour* 40, 754-764.
- Cheney, D.L. & Seyfarth, R.M. (1990) The representation of social relations by monkeys. *Cognition* 37, 167-196.
- Isbell, L.A., Cheney, D.L. & Seyfarth, R.M. (1990) Costs and benefits of home range shifts among vervet monkeys in Amboseli National Park, Kenya. *Behavioral Ecology & Sociobiology* 27, 351-358.
- Isbell, L.A., Cheney, D.L. & Seyfarth, R.M. (1991) Group fusions and minimum group sizes in vervet monkeys (*Cercopithecus aethiops*). *American Journal of Primatology* 25, 57-66.
- Seyfarth, R.M. (1991) Reciprocal altruism and the limits of correlational analysis. *Journal of Theoretical Biology* 153, 141-144.
- Cheney, D.L. & Seyfarth, R.M. (1992) Precis of and reply to commentaries on "How monkeys see the world". *Behavioral and Brain Sciences* 15, 135-182.
- Cheney, D.L. & Seyfarth, R.M. (1992) Dogs that don't bark in the night: How to investigate the lack of a domain of expertise? *PSA 1992* 2, 92-109.
- Seyfarth, R.M. & Cheney, D.L. (1992) Meaning and mind in monkeys. *Scientific American* 267, 122-129.
- Owren, M.J., Dieter, J.A., Seyfarth, R.M., & Cheney, D.L. (1992) Food calls of rhesus macaques (*Macaca mulatta*), Japanese macaques (*M. fuscata*), and immatures cross-fostered between species. *Behaviour* 120, 219-231.
- Isbell, L.A., Cheney, D.L., & Seyfarth, R.M. (1993) Are immigrant vervet monkeys (*Cercopithecus aethiops*) at greater risk of mortality than residents? *Animal Behaviour* 45, 729-734.
- Owren, M.J., Dieter, J.A., Seyfarth, R.M. & Cheney, D.L. (1993) Vocalizations of rhesus (*Macaca mulatta*) and Japanese (*Macaca fuscata*) macaques cross-fostered between species show evidence of only limited modification. *Developmental Psychobiology* 26, 389-406.
- Seyfarth, R.M., Cheney, D.L., Harcourt, A.H., & Stewart, K.J. (1994) The acoustic features of gorilla double grunts and their relation to behavior. *American Journal of Primatology* 33, 31-50.
- Cheney, D.L., Seyfarth, R.M. & Silk, J.B. (1995) The responses of female baboons (*Papio cynocephalus ursinus*) to anomalous social interactions: evidence for causal reasoning? *Journal of Comparative Psychology* 109, 134-141.

- Cheney, D.L., Seyfarth, R.M., & Silk, J.B. (1995) The role of grunts in reconciling opponents and facilitating interactions among adult female baboons. *Animal Behaviour* 50: 249-257.
- Cheney, D.L. & Seyfarth, R.M. (1996) Function and intention in the calls of nonhuman primates. *Proceedings of the British Academy* 88, 59-76.
- Cheney, D.L., Seyfarth, R.M. & Palombit, R.A. (1996) The function and mechanisms underlying baboon contact barks. *Animal Behaviour* 52, 507-518.
- Silk, J.B., Cheney, D.L., & Seyfarth, R.M. (1996) The form and function of post-conflict interactions among baboons, *Papio cynocephalus ursinus*. *Animal Behaviour* 52, 259-268.
- Zuberbuhler, K., Noe, R., & Seyfarth, R.M. (1997) Diana monkey long distance calls: Messages for conspecifics and predators. *Animal Behaviour* 53, 589-604.
- Palombit, R.A., Seyfarth, R.M., & Cheney, D.L. (1997) The adaptive value of "friendships" to female baboons: Experimental and observational evidence. *Animal Behaviour* 54, 599-614.
- Cheney, D.L. & Seyfarth, R.M. (1997) Reconciliatory grunts by dominant female baboons influence victims' behavior. *Animal Behaviour* 54, 409-418.
- Seyfarth, R.M. & Cheney, D.L. (1997) Behavioral mechanisms underlying vocal communication in nonhuman primates. *Animal Learning and Behavior* 25, 249-267.
- Owren, M.J., Seyfarth, R.M., & Cheney, D.L. (1997) The acoustic features of vowel-like grunt calls in chacma baboons (*Papio cynocephalus ursinus*). *Journal of the Acoustical Society of America* 101, 2951-2963.
- Zuberbuhler, K., Cheney, D.L., & Seyfarth, R.M. (1999) Conceptual semantics in a nonhuman primate. *Journal of Comparative Psychology* 113, 33-42.
- Rendall, Drew, Seyfarth, R.M., Cheney, D.L., & Owren, M.J. (1999) The meaning and function of grunt variants in baboons *Animal Behaviour* 57, 583-592.
- Palombit, R.A., Cheney, D.L., & Seyfarth, R.M. (1999) Male grunts as mediators of social interaction with females in wild chacma baboons (*Papio cynocephalus ursinus*). *Behaviour* 136, 221-242.
- Cheney, D.L. & Seyfarth, R.M. (1999) Recognition of other individuals' social relationships by female baboons. *Animal Behaviour* 58, 67-75.
- Silk, J.B., Seyfarth, R.M., & Cheney, D.L. (1999) The structure of social relationships among female savanna baboons. *Behaviour* 136, 679-703.
- Rendall, D., Cheney, D.L., & Seyfarth, R.M. (2000) Proximate factors mediating 'contact' calls in adult female and their infants. *Journal of Comparative Psychology* 114, 36-46.
- Seyfarth, R.M. & Cheney, D.L. (2000) Social awareness in monkeys. *American Zoologist* 40, 902-909.
- Fischer J., Cheney, D.L. & Seyfarth, R.M. (2000) Development of infant baboon responses to female graded variants of barks. *Proceedings of the Royal Society, London, Series B*, 267, 2317-2321.
- Fischer, J., Hammerschmidt, K., Seyfarth, R.M. & Cheney, D.L. (2001) Acoustic features of female chacma baboon barks. *Ethology* 107, 33-54.
- Fischer, J., Metz, M., Cheney, D.L., Seyfarth, R.M. (2001). Baboon responses to graded bark variants. *Animal Behaviour* 61, 925-931.
- Palombit, R.A., Cheney, D.L., & Seyfarth, R.M. (2001) Female-female competition for male

- “friends” in wild chacma baboons (*Papio cynocephalus ursinus*). *Animal Behaviour* 61, 1159-1171.
- Manser, M., Seyfarth, R.M., & Cheney, D.L. (2001) Suricate alarm calls signal predator class and urgency. *Trends in Cognitive Science* 6, 55-57.
- Fischer, J., Hammerschmidt, K., Cheney, D.L. & Seyfarth, R.M. (2002) Acoustic features of male baboon loud calls: Influences of context, age, and individuality. *Journal of the Acoustical Society of America* 111, 1465-1474.
- Seyfarth, R.M. & Cheney, D.L. (2003) Signalers and receivers in animal communication. *Annual Review of Psychology* 54, 145-173.
- Silk, J.B., Rendall, D., Drew, Cheney, D.L. & Seyfarth, R.M. (2003) Natal attraction in adult female baboons (*Papio cynocephalus ursinus*) in the Moremi Reserve, Botswana. *Ethology* 109, 627-644.
- Kitchen, D., Seyfarth, R.M., Fischer, J., & Cheney, D.L. (2003) Loud calls as indicators of dominance in male baboons (*Papio cynocephalus ursinus*). *Behavioral Ecology & Sociobiology* 53, 374-384.
- Kitchen, D., Cheney, D.L. & Seyfarth, R.M. (2003) Female baboons' responses to male loud calls. *Ethology* 109, 401-412.
- Bergman, T., Beehner, J., Cheney, D.L. & Seyfarth, R.M. (2003) Hierarchical classification by rank and kinship in baboons. *Science* 302, 1234-1236.
- Kitchen, D., Cheney, D.L., & Seyfarth, R.M. (2004) Factors mediating inter-group encounters in savanna baboons (*Papio cynocephalus ursinus*). *Behaviour* 141, 197-218.
- Cheney, D.L., Seyfarth, R.M., Fischer, J., Beehner, J., Bergman, T., Johnson, S., Kitchen, D.M., Palombit, R.A, Rendall, D., Silk, J. (2004) Factors affecting mortality and reproduction among free-ranging baboons in the Okavango Delta, Botswana. *International Journal of Primatology* 25, 401-428.
- Fischer, J., Kitchen, D., Seyfarth, R.M. & Cheney, D.L. (2004) Baboon loud calls advertise male quality: Acoustic features and their relation to rank, age, and exhaustion. *Behavioral Ecology & Sociobiology* 56, 140-148.
- Kitchen, D.M., Cheney, D.L. & Seyfarth, R.M. (2005) Male chacma baboons (*Papio cynocephalus ursinus*) discriminate loud call contests between rivals of different relative ranks. *Animal Cognition* 8, 1-6.
- Kitchen, D.M., Cheney, D.L., & Seyfarth, R.M. (2005) Friends, food and females: contextual factors mediating contests between male chacma baboons (*Papio cynocephalus ursinus*) in Botswana. *International Journal of Primatology* 26, 105-125.
- Beehner, J. C., Bergman, T. J., Cheney, D. L., Seyfarth, R. M. & Whitten, P. L. (2005) The effect of new alpha males on female stress in free-ranging baboons. *Animal Behaviour* 69, 1211-1221.
- Bergman, T.J., Beehner, J.C., Cheney, D.L., Seyfarth, R.M. & Whitten, P.L. (2005) Correlates of stress in free-ranging male chacma baboons. *Animal Behaviour* 70, 703-713.
- Cheney, D.L. & Seyfarth, R.M. (2005) Constraints and preadaptations in the earliest stages of language evolution. *Linguistic Review* 22, 135-159.
- Seyfarth, R.M., Cheney, D.L. & Bergman, T.J. (2005) Primate social cognition and the origins of language. *Trends in Cognitive Science* 9, 264-266.
- Beehner, J.C., Bergman, T.J., Cheney, D.L., Seyfarth, R.M. & Whitten, P.L. (2006) Testosterone predicts future dominance rank and mating activity among male chacma baboons. *Behavioral Ecology & Sociobiology* 59, 469-479.

- Bergman, T.J., Beehner, J.C., Cheney, R.M., Seyfarth, R.M. & Whitten, P.L. (2006) Interactions in male baboons: The importance of both males' testosterone. *Behavioral Ecology & Sociobiology* 59, 480-489.
- Engh, A.E., Hoffmeier, R.R., Cheney, D.L. & Seyfarth, R.M. (2006) Who, me? Can baboons infer the target of vocalisations? *Animal Behaviour* 71, 381-387.
- Engh, A.E., Beehner, J.C., Bergman, T.J., Whitten, P.L., Hoffmeier, R.R., Seyfarth, R.M. & Cheney, D.L. (2006) Behavioural and hormonal responses to predation in female chacma baboons (*Papio hamadryas ursinus*). *Proceedings of the Royal Society of London, Series B* 273, 707-712.
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- Wittig, R.M., Crockford, C., Seyfarth, R.M. & Cheney, D.L. (2007) Vocal alliances in chacma baboons, *Papio hamadryas ursinus*. *Behavioral Ecology & Sociobiology* 61, 899-909.
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- Crockford, C., Wittig, R.M., Seyfarth, R.M. & Cheney, D.L. (2007) Baboons eavesdrop to deduce mating opportunities. *Animal Behaviour* 73, 885-890.
- Ey, E., Hammerschmidt, K., Seyfarth, R.M. & Fischer, J. (2007) Age- and sex-related variations in clear calls of chacma baboons (*Papio cynocephalus ursinus*). *International Journal of Primatology* 28, 947-960.
- Seyfarth, R.M. & Cheney, D.L. (2008) Primate social knowledge and the origins of language. *Mind and Society* 7, 129-142.
- Crockford, C., Whittig, R.M., Whitten, P.L., Seyfarth, R.M. & Cheney, D.L. (2008) Social stressors and coping mechanisms in wild female baboons (*Papio hamadryas ursinus*). *Hormones and Behavior* 53, 254-265.
- Wittig, R., Crockford, C., Lehman, J., Whitten, P.L., Seyfarth, R.M. & Cheney, D.L. (2008) Focused grooming networks and stress alleviation in wild female baboons. *Hormones and Behavior* 54, 170-177.
- Silk, J.B., Beehner, J.C., Bergman, T., Crockford, C., Engh, A.L., Moscovice, L., Wittig, R.M., Seyfarth, R.M. & Cheney, D.L. (2009) The benefits of social capital: Close social bonds among female baboons enhance offspring survival. *Proceedings of the Royal Society of London, Series B* 276, 3099-3104.
- Wrangham, R.W., Cheney, D.L., Seyfarth, R.M. & Sarmiento, E. (2009) Shallow-water habitats as sources of fallback foods for hominins. *American Journal of Physical Anthropology* 140, 630-642.
- Cheney, D.L. & Seyfarth, R.M. (2009) Stress and coping mechanisms in female primates. *Advances in the Study of Behavior* 39, 1-35.
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- Seyfarth, R.M., Cheney, D.L., Bergman, T., Fischer, J., Zuberbuhler, K. & Hammerschmidt, K. (2010) The central importance of information in studies of animal communication. *Animal Behaviour* 80, 3-8.
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