

KATHERINE HINDE, Ph.D.
Curriculum Vitae

California National Primate Research Center
University of California Davis
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PROFESSIONAL EXPERIENCE

- 2009-Present Post-Doctoral Scholar, Comparative Neurobiology of Monogamy Lab
Advisors: Karen Bales, PhD & Sally Mendoza, PhD
California National Primate Research Center
University of California Davis
- 2008-2009 Lecturer
Department of Anthropology
University of California Santa Barbara

AFFILIATIONS

Brain, Mind, and Behavior Unit, California National Primate Research Center
Nutrition Laboratory, Smithsonian National Zoological Park

EDUCATION

- 2005-2008 Ph.D. Anthropology University of California Los Angeles
2002-2004 M.A. Anthropology University of California Los Angeles
1997-1999 B.A. Anthropology University of Washington Dept. Honors, *Magna Cum Laude*
1995-1997 Seattle Central Community College

TEACHING

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|-------------|--------------------------------|---------------------------------------|
| Spring 2009 | Comparative Primate Life Cycle | Anthropology, UCSB |
| Winter 2009 | Primate Social Behavior | Anthropology, UCSB |
| 2008-09 | Career Discovery Mentor | Science and Society Program, UC Davis |

Courses Qualified to Teach: Introductory Physical/Biological Anthropology, Human Evolution, Primate Behavior and Evolution, Behavioral Ecology, Field Primatology, Comparative Primate Life Cycle, Human Biocultural Variation, Behavioral Endocrinology, Reproductive Biology, Evolution of Life Histories

PUBLICATIONS

- Hinde K. 2009. Richer milk for sons but more milk for daughters: sex biased investment during lactation varies with maternal life history in rhesus macaques. *Am J Hum Biol* 21:512-519.
- Hinde K. M. Power, and O. Oftedal. 2009. Rhesus macaque milk: Magnitude, sources, and consequences of individual variation over lactation. *Am J Phys Anth* 138:148-57.

Hinde K. 2007. First-time macaque mothers bias milk composition in favor of sons. *Curr Biol* 17:R958-R959.

Hinde K. 2007. Milk composition varies in relation to the presence and abundance of *Balantidium coli* in the mother in captive rhesus macaques (*Macaca mulatta*). *Am J Primatol* 69:625-34.

Manuscripts Submitted:

Hinde K, Capitanio JP. Lactational programming? Mother's milk predicts infant temperament and behavior. *Behav Ecol Sociobiol*.

PRESENTATIONS/PUBLISHED ABSTRACTS

Hinde K. Capitanio JP. 2009. Mother's milk energy shapes infant growth and behavioral development in rhesus macaques (*Macaca mulatta*). LXXVIII American Association of Physical Anthropologists Meeting Chicago, IL. *Am J Phys Anth* 48:151

Hinde K. 2008. Lactational performance in primiparous and multiparous rhesus macaques: milk Energy Density and Milk Yield. IUSSP International Seminar on Trade-offs in Female Life Histories: Raising New Questions in an Integrative Framework. Bristol, United Kingdom, 23-25 July 2008.

Hinde K. 2007. Sex-biased milk production varies with life history in rhesus macaques. VI. Göttinger Frielandtage: Primate behavior and human universals. Göttingen, Germany. *Primate Report* SI:30

Hinde K. 2007. Milk composition and yield in primiparous and multiparous rhesus macaques (*Macaca mulatta*). LXXVI American Association of Physical Anthropologists Meeting, Philadelphia, PA. *Am J Phys Anth* 44:130

Sullivan E, Hinde K, Capitanio JP, Mendoza S. 2007. Cortisol concentrations in rhesus monkey milk. American Society of Primatologists Meeting, Winston-Salem, NC. *Am J Primatol* 69:59.

Tao N, Ninonuevo MR, Hinde K, Lebrilla CB. 2006. Profiling of oligosaccharides in non-human mammalian milk. American Society of Mass Spectrometry 54th Meeting Seattle, Wa. June.

Hinde K. 2006. Milk production in adolescent and prime age rhesus macaques. International Society of Research in Human Milk and Lactation. Niagara-on-the-Lake, CA, *J Human Lactation* 23:A37

Hinde K. 2006. Sources of variation in milk composition from two populations of rhesus macaques (*Macaca mulatta*). American Society of Primatologists Meeting, San Antonio, Texas, August. *Am J Primatol* 68(S1):44

Hinde K. 2006. Lactational Performance in primiparous and multiparous captive rhesus macaques (*Macaca mulatta*) American Society of Primatologists Meeting, San Antonio, Texas, August. *Am J Primatol* 68(S1):132

Hinde K. 2005. Maternal condition varies in relation to maternal condition in captive rhesus macaques (*Macaca mulatta*). LXXIV American Association of Physical Anthropologists Meeting, Milwaukee, WI. *Am J Phys Anth* S40:115.

Hinde K. 2004. Milk composition and maternal condition in captive rhesus macaques (*Macaca mulatta*). XX Congress of the International Primatological Society, Torino, Italy August. *Folia Primatologica* 75: 274.

Hinde K, Kyes RC, Iskandar E, Iskandriati D, Sajuthi D. 2002. A Case Study: Evidence of Trisomy X in a Free-ranging population of Long-tailed Macaques on Tinjil Island, Indonesia. American Society of Primatologists Meeting, Oklahoma City. *Am J Primatol* 57: 47.

- Hinde K, Newell-Morris L, Ha JC. 2001. Maternal illness and reproductive failure in primiparous macaques (*M. nemestrina*). American Society of Primatologists Meeting, Savannah, Georgia, August. Am J Primatol 54: 84.
- Hinde K, Newell-Morris L. 2000. Abortion- A "Biologically Smart" strategy in young macaques (*M. nemestrina*). American Society of Primatologists Meeting, Boulder, Colorado, June. Am J Primatol 51:62.

INVITED TALKS

- Hinde K, Capitanio JP. 2008. Lactational programming? Mother's milk energy predicts infant behavior and temperament. American Society of Primatologists Annual Meeting. West Palm Beach, Florida. June. Am J Primatol 70:27.
- Hinde K. 2008. Rhesus macaque milk: Magnitude, sources, and consequences of individual variation. Phys Anthro/Archy Seminar Series. UC Santa Cruz
- Hinde K. 2008. Lactational Programming? Mother's milk energy predicts infant behavior and temperament. PsychoBio Brownbag Series, UC Davis
- Hinde K. 2007. Sources of variation in captive rhesus macaque milk (*Macaca mulatta*). Animal Behavior Research Group Seminar Series. University of Chicago.

ORGANIZED SYMPOSIA

- Sellen D, Hinde K. 2009. Ecology and evolutionary biology of primate lactation: recent advances and future directions. LXXVIII American Association of Physical Anthropologists Meeting Chicago, IL.

GRANTS

- 2009-2012 National Science Foundation #0921978 "Longitudinal Investigation of Maternal Influences on Infant Outcomes Mediated by Physiological Investment and Behavioral Care during Lactation in Rhesus Macaques (*Macaca mulatta*)."
Role: Principle Investigator (\$399,755)
- 2006 American Society of Primatologists Research Grant (\$1500)
- 2005-2007 NSF Doctoral Dissertation Improvement Grant #0525025 "Maternal Condition and Lactational Investment: Nursing Behavior, Milk Production and Infant Outcomes in Captive Rhesus Macaques"
Role: co-PI with advisor Joan Silk. (\$12,000)
- 2004 Sigma Xi Grant-in-Aid-of Research

FELLOWSHIPS, HONORS & AWARDS

- 2007-2008 Chancellor's Dissertation Fellowship, UCLA
- 2007 Science and Society Fellow, UC Davis
- 2006 Best Student Presentation, American Society of Primatologists
- 2006 Philanthropic Education Organization Scholar Award
- 2003 UCLA Summer Research Mentorship Fellow
- 2003-2006 National Science Foundation Pre-Doctoral Fellowship
- 2002-2004 Center for the Study of Evolution and the Origins of Life Fellow, UCLA
- 2002-2003 Eugene Cota Robles Scholarship Award, UCLA

1999 Phi Beta Kappa
1998-1999 University of Washington Undergraduate Scholar Award
1998-1999 Holland Memorial Scholarship Award
1997-1998 University of Washington Alumnae Board Scholarship

PROFESSIONAL MEMBERSHIPS

American Society of Primatologists (ASP)
International Society of Primatologists
Sigma Xi
International Union for the Scientific Study of Population

PROFESSIONAL SERVICE

2008-Present Ad Hoc Reviewer: *Behavioral Ecology*, *PNAS*, *Am J Medical Primatology*,
Am J Primatology
2008-Present Member, Education Committee, ASP
2007-2008 Member, Inter-Disciplinary Representation Committee, ASP
2004-2008 Member, Publications Committee, ASP
2004-2005 Student Representative, Faculty Committee, Anthropology, UCLA
2004-2005 Workshop Committee Chair, Anthro Grad Student Assoc, UCLA
2003-2004 Anthropology Representative, Social Sciences Council, UCLA
2003-2005 President, Anthropology Graduate Student Association, UCLA

OUTREACH

2009 "The Study of Primates" Doyle Elementary School, San Diego, CA
2008 Featured Scientist, "Evolve: Skin" History Channel

RESEARCH EXPERIENCE

2009 Post-Doctoral Scholar, Comparative Neurobiology of Monogamy Lab
Project: NIH R01 Neurobiology of social bonding in a monogamous primate (Karen Bales and Sally Mendoza co-PIs)
Brain Mind and Behavior Unit, California National Primate Research Center
University of California Davis

2005-2008 Doctoral Dissertation Research: Maternal Condition and Lactational Investment: Nursing Behavior, Milk Production and Infant Outcomes in Captive Rhesus Macaques. Conducted at the Brain, Mind, and Behavior Unit, California National Primate Research Center and the Nutrition Laboratory, Department of Conservation Biology, Smithsonian National Zoological Park (SNZP).
Advisor: Joan B. Silk, PhD, Anthropology UCLA
Collaborators: John P. Capitanio, PhD Psychology, UC Davis, Olav Oftedal PhD and Mike Power, PhD, Nutrition Lab, SNZP.

2002-2004 Master's Research: Maternal condition and lactational investment: maternal health condition and milk composition (*M. mulatta*). Conducted at the Caribbean Primate Research Center field station at Sabana Seca, Puerto Rico.
Advisor: Joan B. Silk, PhD, Anthropology UCLA

- 2001-2002 Case study of an abnormal infant *M. fascicularis* from a free-ranging population on Tinjil Island, Indonesia. Physical, motor, and behavioral disabilities that were indicative of Trisomy 18.
Collaborators: Randall C Kyes PhD, Psychology, UW, Head of International Programs at WaNPRC, Dondin Sajuthi PhD Director Primate Research Center, Bogor, Indonesia, and Robert Best MD, Director of the Division of Genetics, OBGYN, University of South Carolina, School of Medicine.
- 2000-2002 Analysis of archival longitudinal data from the Washington National Primate Research Center (WaNPRC), addressing variables of maternal health condition and pregnancy outcome in young female pig tailed macaques (*Macaca nemestrina*).
Advisors: Laura Newell-Morris, PhD. Anthropology, and James C. Ha, PhD. Psychology, University of Washington
- 2001 “Infant-Dam Contact: Initiation, Duration, and Termination in Long-Tailed Macaques (*M. fascicularis*). Observations conducted at the Pulau Tinjil Natural Habitat Breeding Facility, Indonesia.
Advisor: Randall C. Kyes, PhD. Psychology, University of Washington
- 1999 Honors Thesis: “Spontaneous Abortion as Biologically Smart Strategy of Captive Macaques of Compromised Maternal Condition (*Macaca nemestrina*)” Analysis of archival data from the WaNPRC.
Advisor: Laura Newell-Morris, PhD. Anthropology, University of Washington
- 1998-1999 Tracking growth and development of infant macaques using morphometric and radiographic techniques (*M. nemestrina*) at the WaNPRC and Infant Primate Research Laboratory (IPRL).
Advisor: Laura Newell-Morris, PhD. Anthropology, University of Washington
- 1998 “Social Interactions and Proximity of a Captive Siamang Pair (*Hylobates syndactylus*)” Observations conducted at the Woodland Park Zoological Gardens
Advisor: Joan Lockard, PhD. Psychology, University of Washington

RELEVANT WORK EXPERIENCE

- 1999-2001 Research Technologist, Washington National Primate Research Center (WaNPRC) Infant Primate Research Laboratory (IPRL)
Responsibilities: Surgical procedure assistance, perform x-ray imaging, DXA imaging, write and edit research protocols, organize research data, train new employees, medical supply inventory, clinical coverage, blood draws, research procedure assistance, instrument cleaning, conducted diurnal behavioral and physiological assessments of adult and infant primates including BSL 2/3 housed animals.