

CRAIG PACKER

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University of Minnesota, 1987 Upper Buford Circle, St. Paul, MN 55108
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Education:

1972 B.A. in Human Biology, Stanford University
1977 Ph.D. in Biology, University of Sussex

Positions held:

1977-80 Research associate, School of Biology, University of Sussex
1978- Research scientist, Serengeti Wildlife Research Institute, Tanzania
1980-82 Post-doctoral research fellow, Biology Department, University of Chicago
1983 Visiting assistant professor, Department of Ecology, Ethology & Evolution.
University of Illinois, Champaign-Urbana
1983-89 Assistant professor, Department EEB, University of Minnesota
1989-94 Associate professor, Department EEB, University of Minnesota
1990-91 Visiting scientist, Zoology Department, Oxford University
1994- Professor, Department EEB, University of Minnesota
2004- Adjunct Professor, Department of Medicine and Infectious Diseases and
International Medicine Division, University of Minnesota
2006- Co-Director, Savannas Forever Research Center, University of Minnesota
2006- Co-Executive Director, Savannas Forever TANZANIA

Awards:

1990 J.S. Guggenheim Fellowship.
1995 University of Minnesota Graduate School Summer-Research Fellowship.
1995 John Burroughs Medal for Into Africa.
1997 Distinguished McKnight University Professorship (University of Minnesota).
1998 Single-quarter leave (University of Minnesota)
2003 Fellow, American Academy of Arts and Sciences
2004 Single-semester leave (University of Minnesota)
open Center for Advanced Study in the Behavioral Sciences Fellowship (Stanford).

Research grants:

1977 Harry Frank Guggenheim Foundation (with A. Pusey), 3 yrs, \$45,000.
1981 National Geographic Society (with A. Pusey) \$6,300.
1982 American Philosophical Society, \$1,100.
1983 Sigma Xi, \$600.
1983 School of Graduate Studies, University of Minnesota (with A.Pusey) \$20,000.
1984 L.S.B. Leakey Foundation, \$3,000.

1984 NSF Psychobiology Program BSR-8406935 (with A. Pusey) \$44,000.
1985 Hewlett-Packard, \$3,000.
1985 NSF Population Biology Program BSR-8507087 (with A. Pusey), 3 yrs, \$282,011.
1986 Klipsch Corporation, \$2,000.
1987 Project Woksape, \$7,000.
1987 Environmental Research Institute of Michigan, equipment grant.
1988 School of Graduate Studies, University of Minnesota (with A. Pusey) \$20,567.
1988 NSF Population Biology Program BAR-8807702 (with A. Pusey), 3 yrs, \$325,000.
1988 Project Woksape (with Peter Abrams) \$3,000.
1988 Project Minnemac, \$4,000.
1990 School of Graduate Studies, University of Minnesota (with A. Pusey) \$13,500.
1991 NSF Physical Anthropology Program (with A. Pusey), 3 yrs, \$281,500.
1991 NSF Population Biology Program (with A. Pusey), 3 yrs, \$375,000.
1993 NSF Instrumentation & Instrument Development Program \$65,000.
1994 NSF Physical Anthropology Program (with A. Pusey), 3 yrs, \$183,569.
1994 School of Graduate Studies, University of Minnesota (with A. Pusey) \$18,000.
1994 NSF LTREB Program (with A. Pusey), 5 yrs, \$375,000.
1994 British Airways, \$9,000.
1995 NSF LTREB supplement, \$25,000.
1995 NSF Animal Behavior (with A. Pusey), 1 yr, \$52,506.
1995 Project Life Lion received donations from Solvay Animal Health, Walt Disney Corporation, Kia Automotive, Kenya Airways, and private donors. \$200,000.
1996 IBTT Corporation, \$20,000.
1997 NSF LTREB supplement (with NSF International program), \$9,000.
1997 NSF Program in Animal Behavior, 3 yrs, \$215,000.
1998 School of Graduate Studies, University of Minnesota \$14,703.
1998 Disney Foundation, \$10,000.
1998 NSF Program in Animal Behavior (with A. Pusey), 1 yr, \$100,000.
1999 Global Wildlife Trust, \$20,000.
1999 NSF REU Supplement, \$3,750.
1999 NSF LTREB Program, 5 yrs, \$375,000.
1999 NSF Animal Behavior supplement, \$6,000.
2000 Lion Research Center, \$20,000.
2000 MGM Conservation fund, \$50,000.
2001 MGM Conservation fund, \$50,000.
2001 NCEAS working group, \$49,570.
2001 National Geographic Magazine, \$21,500.
2001 FLIR corporation, \$5,000.
2002 NSF/NIH program in Ecology of Infectious Diseases, 5 yrs, \$1,482,000.
2003 NCEAS working group, \$14,000
2003 NSF program in Biocomplexity, 3 yrs, \$1,722,500.
2003 NSF program in Informal Science Education, \$74,993
2003 NSF LTREB Program, 5 yrs, \$450,000

2003 Disney Corporation, 2 yrs, \$30,000
2003 Amarula Corporation, \$7,000
2004 Morris Animal Foundation (with K. Terio and L. Munson), 2 yrs, \$72,360
2005 Conservation Force, \$13,567
2005 TGTS, \$20,500
2006 Friedkin Family Foundation, \$200,000
2006 Jack Brittingham, \$20,000
2006 NSF-REU supplement, \$6,000
2006 USAID/WWF, 3 yrs, \$175,000
2006 National Geographic Society \$10,000
2007 USAID \$100,000
2008 PEPFAR \$410,000

Invited Conferences/Workshops:

1976 International Primatological Society (Cambridge, UK)
1977 Soc. Study Human Biol. Symposium: Human Behavior & Adaptation (Oxford, UK)
1978 Wenner-Gren conference on baboons (Seven Springs, NY)
1981 International Ethological Conference (Oxford, UK)
1982 Wenner-Gren conference on infanticide (Ithaca, NY)
1983 ABS-ASZ Symposium on ecological aspects of social evolution (Phil., PA)
1984 ABS-ASZ Symposium on dispersal and genetics of populations (Denver, CO)
1985 DARPA Workshop on Animate Systems (Santa Fe, NM)
1986 ABS Conference (Tucson, AZ)
1986 UCLA Symposium on reciprocal altruism (Los Angeles, CA)
1988 Nordiska Forskakurser on adoption and infanticide (Ottha, Norway)
1988 Behavioral Ecology Society (Vancouver, BC)
1989 UCLA Symposium on molecular genetics (Lake Tahoe, CA)
1990 ABS Symposium on cooperative behavior (Binghamton, NY)
1990 International Orca Symposium (Friday Harbor, WA)
1990 NOAHS Center Workshop (Front Royal, VA)
1990 Conservation Biology Society (Gainesville, FL)
1990 ICSEB Symposium on evolution and ecology of small populations (Wash, DC)
1991 ASAB Conference (Manchester, UK)
1991 Serengeti Ecosystem Workshop (Seronera, Tanzania)
1992 NOAHS Center Workshop (Front Royal, VA)
1993 NSF workshop on biodiversity in Africa (Washington, DC)
1993 NSF conference on the African drought (Nairobi, Kenya)
1993 Population and habitat viability analysis of the Asiatic lion (Baroda, India)
1994 Strategic planning workshop for wildlife research policy in Tanzania (Seronera, Tanzania)
1995 NOAHS Center Workshop (Front Royal, VA)
1995 MacArthur Foundation workshop on behavioral medicine (San Francisco, CA)
1996 Workshop on the future of game theory in behavioral ecology (Bristol, UK)
1997 Workshop on wildlife translocations (Durban, South Africa)

- 1999 IPSEN Symposium on menopause and longevity (Paris)
- 1999 NSF Workshop on Molecular Biology in Ecology (Washington, DC)
- 2000 NCEAS Workshop on Infectious Disease and Conservation Biology (Santa Barbara, CA)
- 2000 Chicago Academy Symposium on Animal Social Complexity and Intelligence (Chicago)
- 2001 NCEAS Workshop on Infectious Disease and Conservation Biology (Santa Barbara, CA)
- 2001 *Organizer:* NCEAS Workshop on the Serengeti Ecosystem (Santa Barbara)
- 2001 Göttinger Freiländertage Symposium on Sexual Selection (Göttingen, Germany)
- 2002 NCEAS Workshop on Infectious Disease and Conservation Biology (Santa Barbara, CA)
- 2002 NSF/NIH PI's workshop on the Ecology of Infectious Diseases (Bethesda, MD)
- 2002 *Organizer:* NCEAS Workshop on the Serengeti Ecosystem (Santa Barbara)
- 2002 Annual Research Conference of the Tanzanian Wildlife Research Institute (Arusha, TZ)
- 2002 Workshop on Carnivore Diseases (Arusha, TZ)
- 2003 Keynote talk, annual meeting Minnesota Academy of Science (St. Paul)
- 2003 20th Anniversary of "La Fondation IPSEN" (Paris)
- 2003 Fifth World Parks Congress (Durban, SA)
- 2003 NSF PI's workshop on Long-Term Research in Environmental Biology (Washington, DC)
- 2003 Max-Planck Institute "Gesellschaft für Primatologie" (Leipzig)
- 2003 *Organizer:* NCEAS Workshop on the Serengeti Ecosystem (Santa Barbara)
- 2003 Annual Research Conference of the Tanzanian Wildlife Research Institute (Arusha, TZ)
- 2004 Max-Planck Institute, Workshop on Great Ape Health (Leipzig)
- 2004 Workshop on Ecology of Infectious Diseases (Atlanta)
- 2004 Annual Meeting of the Tanzanian Professional Hunters Association (Dar es Salaam, TZ)
- 2004 *Organizer:* Biocomplexity of the Serengeti (Serengeti National Park)
- 2004 ESA symposium on Long Term Research in Environmental Biology (Portland)
- 2004 ESA symposium on Evolution of the Family (Portland)
- 2004 ASTMH meeting (Miami)
- 2004 NSF/NIH PI's workshop on the Ecology of Infectious Diseases (Washington, DC)
- 2004 13th Convention of the Parties to CITES (Bangkok)
- 2005 Annual Convention of the Dallas Safari Club (Dallas)
- 2005 NSF Workshop on Collaborative Research in Sub-Saharan Africa (Wash. DC)
- 2005 Annual Convention of Safari Club International (Reno)
- 2005 Keynote address, Animal Behavior Society (Snowbird, Utah)
- 2005 Morbillivirus meeting (Penn State)
- 2006 WCS/IUCN workshop on lion conservation (Johannesburg)
- 2006 Feline retrovirus meeting (Washington, DC)
- 2006 Sustainable-Use Specialist Group/IUCN (London)
- 2007 Serengeti Biodiversity meeting (Vancouver)
- 2007 Cat Conservation Conference (Oxford, UK)
- 2007 Midwest Veterinary Convention (Kansas City)
- 2008 Conference on Reproductive Skew, Santa Fe Institute

Professional duties:

Review grants for:

NSF programs in: Anthropology, Behavioral Neuroendocrinology, Biological Basis of Behavior, Ecology, Polar biology and medicine, Population Biology and Physiological Ecology, Psychobiology, Science in Developing Countries

National Geographic Society, Center for Field Research, J.S. Guggenheim Foundation, Smithsonian Institution, NSERC (UK)

Review manuscripts for:

American Naturalist, Animal Behavior, Animal Conservation, Behavioural Ecology, Behavioral Ecology & Sociobiology, Bioscience, Cambridge Univ. Press, Conservation Biology, Current Biology, Ecology Letters, Ethology, Ethology & Sociobiology, Evolution, Journal of Heredity, Journal of Zoology, Nature, Oxford Univ. Press, PLOS, Princeton Univ. Press, Science, Trends in Ecology & Evolution.

Editorial Boards:

Behavioral Ecology & Sociobiology 1991-1997

Trends in Ecology & Evolution 1986-1992

Member:

IUCN SSC Felid specialist group 1985-2005; 2007-

Society:

American Association for the Advancement of Science

Panel member:

NSF population biology program 2000

NSF population and evolutionary biology 2007

International Governmental Duties:

Delegate of the Utd. Rep. Tanzania to 13th Convention of Parties to CITES, Bangkok, 2004

Invited Seminars:

1976 Psychiatry Department, Stanford University

1977 School of Biology, University of Sussex

1977 Sub-Department of Animal Behavior, Cambridge University

1978 King's College Research Centre, Cambridge University

1979 Serengeti Research Institute, Seronera, Tanzania

1980 School of Biology, University of Sussex

1980 Anthropology Department, Harvard University

1981 Biology Department, Purdue University

1981 Biology Department, University of Chicago

1982 Biology Department, SUNY-Albany

1982 Section of Neurobiology and Behavior, Cornell University

1983 Department of Ecology, Ethology and Evolution, University of Illinois, Urbana

1983 Biology Department, Texas A&M

1983 Biology Department, Amherst College

1983 Department EBB, University of Minnesota

1983 Institute of child development, University of Minnesota

1984 Department of Biology, University of British Columbia

1984 School of Biology, University of Sussex

1986 Research Center, Smithsonian Institution
1986 Serengeti Research Institute
1986 Department EBB, University of Minnesota
1986 Biology Department, UCLA
1986 Biology Department, UC-Santa Barbara
1986 Biology Department, UC-San Diego
1987 Zoology Department, Oxford University
1988 Institute of child development, University of Minnesota
1988 Department of Zoology, University of Washington, Seattle
1988 Biology Department, University of Missouri, Columbia
1989 Serengeti Research Institute
1990 Department EEB, University of Minnesota
1990 Biology Department, University of North Dakota
1990 Conservation Biology, Brookfield Zoo
1990 Biology Department, University of Chicago
1990 Department of Zoology, Oxford University
1990 Department of Zoology, University of Edinburgh
1991 Department of Zoology, Cambridge University
1991 Department of Plant & Animal Sciences, University of Sheffield
1991 Department of Zoology, University of Leicester
1992 School of Forestry, Michigan Technological University
1992 Brandt Lecture, Department of Zoology, North Carolina State University
1992 Department of Zoology, University of Guelph
1993 Department of Zoology, Michigan State University
1994 Department of Biological Sciences, University of Illinois, Chicago
1994 Department EEB, University of Minnesota
1995 Biosphere Program, Yale University
1995 Department of Biology, Stanford University
1995 Department of Biology, Macalester College
1995 Department of Biology, St. John's University
1995 Smithsonian Institution, Washington, DC
1995 Lincoln Park Zoo, Chicago
1995 Science Museum of Minnesota
1996 Department EEB, University of Minnesota
1996 School of Veterinary Medicine, University of Minnesota
1996 Biology Department, SUNY-Albany
1996 Zoology Department, University of Maryland
1996 Center for Research and Conservation, National Zoological Park, Washington, DC
1997 Como Park Zoological Society, St. Paul, MN
1997 Biology Department, University of Louisville
1997 Distinguished Science Lecture, Biology Dept., University of North Carolina, Charlotte
1997 Anthropology Department, Mankato State University
1997 Biology Department, University of Natal, Durban (South Africa)

1997 Department EEB, University of Minnesota
1997 Biology Department, University of Missouri, St. Louis
1998 Biology Department, Iowa State University
1998 Biology Department, Montana State University, Bozeman
1998 Brookfield Zoo, Chicago
1998 Department EEB, University of Minnesota
1999 Zoology Department, University of Dar es Salaam
2000 Department of Biological Anthropology, Duke University
2000 Zoology Department, University of Oregon
2000 Wyeth-Ayers Distinguished Lecture Series, Eugene, Oregon
2000 Department of Veterinary Medicine, Sokoine Univ. of Agriculture, Morogoro, Tanzania
2000 Department of Zoology, Northern Arizona University
2001 Biology Department, University of Natal, Durban (South Africa)
2002 Sigma Xi, University of Minnesota
2002 Arthur G. Rempel Lecture, Whitman College, Walla Walla, Washington
2002 Biology Department, Princeton University
2002 Biology Department, Saint Thomas University, St. Paul
2002 Biology Department, UC-Santa Barbara
2002 Biology Department, Occidental College
2003 Department EEB, University of Minnesota
2003 Bell Museum of Natural History, Minneapolis
2003 Psychology Department, Harvard University
2004 AAUW, Saint Paul
2004 Medical School, University of Minnesota
2004 Biology Department, Amherst College
2004 Biology Department, Brown University
2004 Audubon Society, Saint Paul
2004 Café Scientifique, Minneapolis
2004 Plum Island Animal Disease Center
2005 Biology Department, University of California – Davis
2005 Wildlife Conservation Society, New York
2005 Medical School, University of Minnesota
2005 Lincoln Park Zoo, Chicago
2006 William Dick Memorial Lecture, University of Edinburgh
2006 Biology Department, University of Toronto
2006 Wildlife Department, University of Wisconsin (Madison)
2006 School of Veterinary Medicine, University of Wisconsin (Madison)
2006 Biology Department, Reed College
2006 Institute for Advanced Studies, University of Minnesota
2007 Ministry for Local Government, Dodoma (Tanzania)
2007 USAID, Dar es Salaam
2007 Dept. For International Development (DIFID), Dar es Salaam
2007 Donor-Providers-Group, Dar es Salaam

2007 Norwegian Embassy, Dar es Salaam
 2007 Northern Tanzania Hunting Operators, Arusha
 2007 School of Veterinary Medicine, University of Minnesota
 2007 Vancouver Institute Public Lecture, Vancouver, BC
 2007 Dept. of Applied Economics, University of Minnesota
 2007 Infectious Diseases, University of Minnesota Medical School
 2008 Vice President's office, University of Minnesota
 2008 CFANS, University of Minnesota
 2008 Epidemiology, School of Public Health, University of Minnesota
 2008 CDC, Dept. of Tropical Diseases, Atlanta
 2008 College of Veterinary Medicine, University of Minnesota
 2008 Global Pediatrics Program, University of Minnesota Medical School
 2008 Keynote Address, Genentech Corp., San Francisco
 2008 USAID, Dar es Salaam
 2008 Voldasta State University
 2008 Biology Department, Princeton University

Teaching:

1983 Vertebrate social organization, University of Illinois
 1984-2002 Behavioral Ecology, University of Minnesota
 1986 Graduate seminar: Mammalian reproduction
 1988 Graduate seminar: Cultural evolution
 1990 Ecology
 1992-date Introduction to Biology: An evolutionary approach
 1993 Graduate seminar: Mammalian mating systems
 1994 Graduate seminar: Models of sociality
 1995 Graduate seminar: The comparative approach in behavioral ecology
 1996 Graduate seminar: Current topics in animal behavior
 1997 Graduate seminar: Behavioral mechanisms in behavioral ecology
 1998 Graduate seminar: Principles of animal communication
 1999 Graduate seminar: Social status and stress
 2000 Graduate seminar: Mechanisms of behavior
 2001 Graduate seminar: Biological bases of behavior
 2001 Freshman seminar: Frightened by evolution: America's battle with creationism
 2004 Graduate seminar: Conservation in Africa
 2006 Graduate seminar: Savanna conservation (Twice)
 2007 Graduate seminar: Savanna conservation

Students:

Principal adviser for Ph.D.:

David Scheel (predator/prey relations in lions) Ph.D.: 1992 (Present position: Assist. Professor, Alaska Pacific University)

Brian Farm (territoriality in grassbed parrotfish) Ph.D.: 1993

- Jon Grinnell (cooperation and communication in lions) Ph.D.: 1994 (Present position: Assoc. Professor, Gustavus-Aldolphus)
- Amy Harth (experimental studies of group foraging in reef fish) Ph.D.: 1998
- Jennifer Williams (GIS analysis of habitat utilization in chimpanzees) Ph.D.: 1999
- Peyton West (experimental studies of sexual selection in lions) Ph.D.: 2003 (Present position: Fellow, American Association for the Advancement of Science).
- Karyl Whitman (conservation strategies in Tanzanian game reserves) Ph.D.: 2005
- Amanda Vinson (molecular genetics of olive baboons) Ph.D. 2005 (Present position: Research Officer, Southwest Foundation for Biomedical Research).
- Dan McNulty (behavioral ecology of Yellowstone wolves) Ph.D. 2007 (Present position: Post-Doc, Michigan Tech)
- Anna Mosser (GIS analysis of habitat utilization in lions) Ph.D. 2008 (Present position: Research Director, Gombe Stream Research Centre)
- Bernard Kissui (population ecology of Ngorongoro and Tarangire lions) Ph.D. 2008 (Present position: Research Fellow, African Wildlife Foundation)
- Annie Bosacker (endocrinology of Gombe baboons) Ph.D. 2008 (Present position: Adjunct Faculty, Carleton College)
- Meggan Craft (ecology of infectious disease in Serengeti carnivores)
- Hadas Kushnir (man-eating lions and risk-reduction strategies for rural Tanzanians)
- Margaret Kosmala (ecology of infectious disease in migratory wildlife and livestock)
- Megan Strauss (population ecology of Serengeti giraffe)
- Adviser for M.A.:
- Kathy Betts (ranging patterns in lions) M.A.: 1986
- Lore Ruttan (sociality in spiders) M.A.: 1988 (Present position: Assist. Professor, Emory University)
- Anne Bosacker (reproductive endocrinology) M.A. 2006
- Field supervisor for:
- Phyllis Lee (Cambridge University: behavioral development of vervet monkeys) Ph.D. 1981
- Sarah Cairns (Cornell University: spatial relations in lions) Ph.D. 1990
- Christine Müller-Graf (Oxford University: ecology of intestinal parasites) Ph.D. 1994
- Cyprian Malima (University of Dar es Salaam: lion ecology) M.Sc. 1999
- Bernard Kissui (University of Dar es Salaam: population ecology of lions) M.Sc. 2001
- Grant Hopcraft (University of British Columbia: lion ecology) M.Sc. 2003
- Dennis Ikanda (University of Dar es Salaam: human-lion conflicts) M.Sc. 2005, Ph.D.
- Jennifer Schmitt (Univ. of Minnesota: effectiveness of alternative conservation strategies), Ph.D.
- Dennis Rentsch (Univ. of Minnesota: alternative livelihoods vs. bushmeat hunting), Ph.D.
- Post-docs:**
- Karen McComb, Ph.D. Cambridge 1989: experimental studies of cooperation in lions, 1989-91 (Present position: Reader, University of Sussex).
- Robert Heinsohn, Ph.D. Australian National University 1990: development of lion behavior, 1990-93 (Associate Professor/Reader, Australian National University).
- Anthony Collins, Ph.D. Edinburgh 1982: long-term studies of Gombe primates, 1991-94 (Research

Director, Gombe Stream Research Centre).
Simon Mduma, Ph.D. University of British Columbia 1999: Biocomplexity of the Serengeti, 2003-2006 (Director General, Tanzania Wildlife Research Institute).

Other Activities:

Science commentator for Minnesota Public Radio (1995-6).

Subject of 17 television and radio documentaries.

Web sites: www.lionresearch.org

www.savannasforever.org

BIBLIOGRAPHY

Research Articles:

- 1973 van Lawick-Goodall, J., H. van Lawick & C. Packer. Tool-use in free-living baboons in the Gombe National Park, Tanzania. Nature, 241,212-213.
- 1975 Packer, C. Male transfer in olive baboons. Nature, 255, 219-220.
- 1977 Packer, C. Inter-troop transfer and inbreeding avoidance in Papio anubis in Tanzania. Ph.D. Thesis, University of Sussex.
- 1977 Packer, C. Reciprocal altruism in Papio anubis. Nature, 265, 441-443. Reprinted in Readings in Sociobiology, T. Clutton-Brock & P. Harvey, eds. Freeman, San Francisco (1978), and in Evolution Now, J. Maynard Smith, ed. Macmillan, London (1982).
- 1978 Packer, C. The relative importance of group selection in the evolution of primate societies. In: Human Behavior and Adaptation, N.G. Blurton-Jones & V. Reynolds, eds., pp. 103-112. Taylor & Francis, London.
- 1978 Packer, C. Behavior affecting immigration of male baboons at Gombe National Park. In: Recent Advances in Primatology, vol. 1, D.J. Chivers & J. Herbert, eds., pp. 75-77. Academic Press, London.
- 1979 Packer, C. Inter-troop transfer and inbreeding avoidance in Papio anubis. Anim. Behav., 27, 1-36.
- 1979 Packer, C. Male dominance and reproductive activity in Papio anubis. Anim. Behav., 27, 37-45.
- 1979 Packer, C. & A.E. Pusey. Female aggression and male membership in troops of Japanese macaques and olive baboons. Folia primatol., 31, 212-218.
- 1980 Packer, C. Male care and exploitation of infants in Papio anubis. Anim. Behav., 28, 512-520.
- 1982 Packer, C. & A.E. Pusey. Cooperation and competition in coalitions of male lions: kin selection or game theory? Nature, 296, 740-742.
- 1983 Packer, C. Demographic changes in a colony of Nile grassrats (Arvicanthis niloticus) in Tanzania. J. Mammal., 64, 159-161.
- 1983 Packer, C. Sexual dimorphism: The horns of African antelope. Science, 221, 1191-1193.
- 1983 Packer, C. & A.E. Pusey. Adaptations of female lions to infanticide by incoming males. Amer. Nat., 121, 716-728.
- 1983 Packer, C. & A.E. Pusey. Male takeovers and female reproductive parameters: a simulation of oestrus synchrony in lions (Panthera leo). Anim. Behav., 31, 334-340.
- 1983 Packer, C. & A.E. Pusey. Cooperation and competition in lions. Nature 302, 356.
- 1984 Packer, C. & A.E. Pusey. Infanticide in carnivores. In: Infanticide: Comparative and Evolutionary Perspectives, G. Hausfater & S.B. Hrdy, eds., pp. 31-42, Aldine, NY.
- 1985 Packer, C. Inbreeding and dispersal. Anim. Behav. 35, 676-677.
- 1985 Packer, C. & A.E. Pusey. Asymmetric contests in social mammals: respect, manipulation and age-specific aspects. In: Evolution, P.J. Greenwood & M. Slatkin, eds., pp. 173-186. Cambridge University Press, Cambridge.
- 1986 Herbst, L., C. Packer & U.S. Seal. Immobilization of free-ranging African lions (Panthera leo) with a combination of xylazine hydrochloride and ketamine hydrochloride. J. of Wildl. Diseases, 21, 401-404.
- 1986 Packer, C. The ecology of sociality in felids. In: Ecological Aspects of Social Evolution, D.I.

- Rubenstein & R.W. Wrangham, eds. pp. 429-451. Princeton Press.
- 1987 O'Brien, S.J., J.S. Martenson, C. Packer, L. Herbst, V. de Voss, P. Jocelyn, J. Ott-Jocelyn, D.E. Wildt, & M. Bush. Biochemical genetic variation in geographically isolated populations of African and Asiatic lions. Nat. Geog. Research, 3, 114-124.
- 1987 Packer, C. & Pusey, A.E. Intrasexual cooperation and the sex ratio in African lions. Am. Nat., 130, 636-642.
- 1987 Pusey, A.E. & C. Packer. Philopatry and dispersal. In: Primate Societies, B.B. Smuts, D.L. Cheney, R.M. Seyfarth, T.T. Struhsaker, R.W. Wrangham, eds. pp. 250-266. University of Chicago Press, Chicago.
- 1987 Pusey, A.E. & C. Packer. The evolution of sex-biased dispersal in lions. Behaviour, 101, 275-310.
- 1987 Wildt, D.E., Bush, M., Goodrowe, K.L., Packer, C., Pusey, A.E., Brown, J.L., Joslin, P., & O'Brien, S.J. Reproductive and genetic consequences of founding isolated lion populations. Nature, 329, 328-331.
- 1988 Packer, C. Constraints on the evolution of reciprocity: lessons from cooperative hunting. Ethology and Sociobiology, 9, 137-147.
- 1988 Packer, C., L. Herbst, A.E. Pusey, J.D. Bygott, J.P. Hanby, S.J. Cairns, & M. Borgerhoff-Mulder. Reproductive success of lions. In: Reproductive Success, T.H. Clutton-Brock, ed., pp. 363-383. University of Chicago Press, Chicago.
- 1988 Packer, C. & Ruttan, L.M. The evolution of cooperative hunting. Am. Nat. 132, 159-198.
- 1989 Gilbert, D.A., Packer, C. & S.J. O'Brien. The development of feline-specific hypervariable probes and their application to analyzing the genetic structure of wild lion populations. J. Cellular Biochemistry, Supplement 13C, 118.
- 1989 Packer, C., Gilbert, D.A., & S.J. O'Brien. Molecular genetic analysis of lion social structure. J. Cellular Biochemistry, Supplement 13C, 84.
- 1990 Averbeck, G.A., Bjork, K.E., Packer, C. & L. Herbst. Prevalence of hematozoans in lions (Panthera leo) and cheetah (Acinonyx jubatus) in Serengeti National Park and Ngorongoro Crater, Tanzania. J. Wildlife Diseases 26, 392-394.
- 1990 Packer, C., Scheel, D., & A.E. Pusey. Why lions form groups: food is not enough. Am. Nat. 136, 1-19.
- 1990 Packer, C. & P.A. Abrams. Should cooperative groups be more vigilant than selfish groups? J. theor. Biol. 142, 341-357.
- 1991 Brown, J.L., Bush, M., Packer, C., Pusey, A.E., Monfort, S.L., O'Brien, S.J., Janssen, D.L. & D.E. Wildt. Developmental changes in pituitary-gonadal function in free-ranging lions (Panthera leo) of the Serengeti and Ngorongoro Crater. J. Reprod. Fert. 91, 29-40.
- 1991 Gilbert, D., Packer, C., Pusey, A.E., Stephens, J.C. & S.J. O'Brien. Analytical DNA fingerprinting in lions: parentage, genetic diversity and kinship. J. Hered. 82, 378-386.
- 1991 Packer, C., Gilbert, D., Pusey, A.E. & S.J. O'Brien. A molecular genetic analysis of kinship and cooperation in African lions. Nature (Lond) 351, 562-565.
- 1991 Packer, C., Pusey, A.E., Rowley, H., Gilbert, D.A., Martenson, J. & S.J. O'Brien. Case study of a population bottleneck: Lions of Ngorongoro Crater. Cons. Biol. 5, 219-230.
- 1991 Scheel, D. & C. Packer. Group hunting behaviour of lions: a search for cooperation. Anim. Behav. 41, 697-710.

- 1992 Olmsted, R.A., Langley, R., Roelke, M., Goeken, R.M., Johnson, D.A., Goff, J., Albert, J., Packer, C., Caro, T.M., Wildt, D.E., Bush, M., Martenson, J.S. & S.J. O'Brien. Worldwide prevalence of lentivirus infection of wild felidae species: epidemiologic and genetic aspects. J. Virology. 66, 6008-6018.
- 1992 Packer, C., Lewis, S. & A.E. Pusey. A comparative analysis of non-offspring nursing. Anim. Behav. 43, 265-281.
- 1993 Brown, J.L., Bush, M., Packer, C., Pusey, A.E., Monfort, S.L., O'Brien, S.J., Janssen, D.L. & D.E. Wildt. Hormonal characteristics of free-ranging lions (Panthera leo) of the Serengeti Plains and Ngorongoro Crater. J. Reprod. Fert. 97, 107-114.
- 1993 McComb, K.E., Pusey, A.E., Packer, C. & J. Grinnell. Female lions can identify potentially infanticidal males from their roars. Proc. Roy. Soc. Series B. 252, 59-64.
- 1993 Packer, C. & A.E. Pusey. Should a lion change its spots? Nature 362, 595.
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