

JOSHUA R. GINSBERG

Education

Ph.D. Biology, Princeton University, January 1988

M.A. Biology, Princeton University, March 1984

Ph.D. Program, Dept. of Zoology, University of Cambridge, 1981/2 (transfer to Princeton)

B.S. Yale University, May 1980, *cum laude*, Distinction in Geology (Paleontology)

Management Experience

Cary Institute of Ecosystem Studies

2014-Present

President, Cary Institute of Ecosystem Studies:

As President, I am responsible for leadership and oversight of the Cary Institute of Ecosystem Studies, an independent institution located on 2,000-acres of recovering forests in New York's Hudson Valley. With an annual budget of over \$10 million, the Institute has a staff of over 100, including a core scientific staff of 14 Ph.D. scientists, who are joined by dozens of emeritus scientists, postdoctoral researchers, graduate and undergraduate students. The Institute is a world-class center for ecosystem science. Focal areas include freshwater ecosystems, disease ecology, invasive species, urban ecology, and biogeochemistry. The science program is complemented by the Cary Institute's renowned education, communication, and outreach initiatives.

Wildlife Conservation Society

2010-2014

Senior Vice President, Global Conservation Program. The position was created in 2009 to take on the direct line management of the Global Program's five regional programs (North America, Asia, Africa, Latin America, and Marine) and the management and technical programs that supported them (Conservation Operations and Conservation Support). In 2013, the oversight of the Wildlife Health Program was added to my portfolio. I also oversaw the Division's \$87 million (FY14) budget and was an active participant in fund raising from private individuals, foundations, and government and agency sources. In 2013, I led the Science Subcommittee of the institutional strategic planning process overseen by our new CEO, Cristián Samper.

2004 – 2009

Vice-President, Conservation Operations. This position was created in 2004 to ensure the development and implementation of management systems to support the WCS Global Conservation Program that spans 52 countries with 2500 staff. Reporting to the Executive Vice-President, Conservation and Science, I was responsible for coordination with other divisions (Development, IT, OGC, Finance and Budget, HR), for development and management of the GCP budget (>\$60 million in FY08) and for overseeing monitoring and evaluation of our field projects and programs. My position also included chairing the Strategic Planning and Review Coordination committee (SPARC) overseeing strategic planning at the global, regional, national, and landscape levels, and integration of planning with management systems. The position entailed significant interaction with, and representation to, the Board, partner organizations and governments, and colleagues around the world.

- 1996-2004 Director, Asia and Pacific Programs. Responsible for program development and administration of a portfolio of conservation projects and programs in 17 Asian countries in Central Asia, East and Southeast Asia, and the Pacific. Activities covered a wide range of topics, from implementation of a Masterplan for Wildlife in Sarawak, community based conservation programs in Papua New Guinea, to research and conservation of tigers in Nagrahole National Park, India and the Russian Far East. The Asia Program budget grew from \$1.5 million in FY '97 to \$7.5 million in FY '05. I had 17 direct reports, and a total staff of 350 in the region. Responsibilities included extensive contact with and management of donors, developing new funding sources, and representing the Society internationally (e.g. CITES, IUCN).
- Mar-Dec. 2002 Director (Acting) Africa Program. Concurrently with Asia Program activities, I was responsible for program development and administration of a portfolio of conservation programs in 14 African countries, overseeing a budget of \$6 million in FY '03 and planning a budget of \$15 million in FY '04.

Other Organizations

- 2017-Present **TRAFFIC International** Board of Directors
- 2017-Present **Salisbury Forum** Board of Directors
- 2017-Present **Scenic Hudson, Inc.** Science, Climate, and Stewardship Committee
- 2016-Present **American Museum of Natural History, Center for Biodiversity and Conservation:** Advisory Council member.
- 2016 **Smithsonian Environmental Research Center**, Review Panel member.
- 2014-Present **The Ocean Foundation:** Board member, Treasurer. A community foundation with a mission to support, strengthen, and promote organizations dedicated to reversing the trend of destruction of ocean environments around the world. <http://www.oceanfdn.org/>
- 2013-2017 **Foundation for the Exhibition of Photography:** Board member. The Foundation develops and tours photographic exhibits worldwide. <http://www.fep-photo.org>
- 2011-Present **Open Space Institute:** Board member. Executive Committee member (2016-2019). Chair, Conservation Capital Committee (2012-present) OSI is dedicated to land protection, management, and conservation. <http://www.osiny.org>
- 2011-2017 **Catskill Mountainkeeper:** Board member. CMK is dedicated to the protection and sustainable development of the Catskills. <http://www.catskillmountainkeeper.org/about>
- 1999-2015 **Blacksmith Institute Pure Earth:** Founding Board member. NGO focusing on pollution remediation in the developing world. <http://www.blacksmithinstitute.org>
- 2004- 2007 **Video Volunteers:** Founding Board member of a start-up NGO focusing on empowerment of the voiceless through digital video. <http://www.videovolunteers.org>
- 2001-2013 **NOAA-NMFS:** Chairman (2001-2007) and member of the NOAA-National Marine Fisheries Service (NMFS) Hawaiian Monk Seal Recovery Team. As Chairman, I led on the first revision of the species Recovery Plan in two decades.
- 1997 **NOAA/NMFS:** Chairman Hawaiian Monk Seal Captive Care Review Panel.
- 1995-1996 **USAID-AAAS:** American Association for the Advancement of Science (AAAS) Diplomacy Fellow, Office of Donor Partnerships, Bureau for Policy and Program Coordination (PPC), USAID, Washington. Office responsible for coordinating USAID's policies with those of all other multi-lateral and bilateral donors. Also served as advisor to the Director of PPC's Environment Division on matters relating to CITES and African biodiversity issues.

- 1995 **RSPCA:** On contract to the Zoological Society of London, consultant to the Royal Society for the Protection of Animals on a study of methods to control an introduced population of macaques on the island of Mauritius.
- 1995-2001 **National Foundation for Integrative Medicine:** Berkeley, California. Board member.
- 1990-2001 **IUCN:** Deputy Chairman, IUCN-SSC Canid Specialist Group.
- 1989- 2001 **IUCN:** Member, Equid, Reintroductions & Captive Breeding Specialist Groups.
- 1994-95 **IUCN:** Member, IUCN Data Management System Vision & Technical Working Groups.
- 1994 **IUCN:** Member IUCN Delegation, CITES 9th Meeting of the Conference of the Parties, Ft. Lauderdale. Expert on Criteria, Confiscation Guidelines.
- 1993-1994 **IUCN:** Member, IUCN Categories of Threat Drafting Group, Georgina Mace, Chair.
- 1993 **IUCN:** Chairman, Reintroduction Specialist Group Committee on Disposition of Confiscated Animals. Author of Draft Guidelines to be used by IUCN and as a basis for CITES Draft Resolution DOC. 9.55 Annex I.
- 1992-1997 **Biodiversity Foundation for Africa:** (Bulawayo Museum) Board of Advisors.
- 1992-1997 **Hwange Conservation Trust, Zimbabwe:** Trustee.

Academic & Scientific Experience

- 2015-Present **Rutgers, The State University of New Jersey.** Faculty, Ecology and Evolution Graduate Program, *School of Environmental and Biological Sciences*, New Brunswick, New Jersey.
- 1998-Present **Columbia University.** *School of International and Public Affairs (SIPA); Department of Evolution, Ecology and Environmental Biology (E3B); Consortium for Environmental Research and Conservation (CERC).* As a Full Professor (adjunct) I have supervised 11 Masters students, and six Ph.D. students, served on 12 Ph.D. committees, annually co-taught the core course in conservation biology for Masters and Ph.D. students (two terms, 1998-2010), and have served on faculty search committees. I also served on the Management committee of CERC for 5 years. From 2009 to 2014, I taught a course on International Environmental Policy at the School of International and Public Affairs (SIPA), and in 2013, I taught a graduate seminar in E3B on Emerging Issues in Conservation Biology.
- 1991- 1996 **Institute of Zoology, Zoological Society of London.** For four years, I held the position of Research Fellow in Ecology overseeing the work of three Ph.D. students and conducting ecologically focused research in Africa.
- 1993-1995 **University College London, Department of Biology.** Honorary Research Fellow and Lecturer teaching both undergraduate and M.Sc. courses in Conservation Biology.
- 1987 to 1991 **Oxford University, Department of Zoology.** I held an appointment in the Department of Zoology as a Research Fellow, supported by a N.A.T.O. Post-doctoral Fellowship, and then as the Guy Newton Junior Research Fellow, Wolfson College. In 1991, I held a fill-in appointment as a Visiting Lecturer teaching 18 lectures on the biology of mammals.
- 1986 to 1987 **Natural Resources Defense Council.** Consultant for World Bank proposal for livestock development in Botswana.

- 1989-1994 **African Wild Dog Research Project, Zimbabwe.** I was Principal Investigator on a study of the conservation biology of the endangered African wild dog, *Lycaon pictus*. I led a research team of two graduate students and one full time research assistant. Project completed March, 1994.
- 1983 - 1993 **Grevy's Zebra Research Project.** I was Principal Investigator on a study of the behavior, ecology, and conservation of the Grevy's zebra in Kenya. The study served as the subject of my Ph.D., and then was followed up on by two Ph.D. students.
- 1980 to 1981 **Henry Luce Scholar.** Fellowship providing support for one year's work in which I served as a naturalist in the Thai National Parks service, based in Taurtao National Park.
- 1980 to 1981 **Sea Turtle Conservation, Tarutao Thailand.** While a Luce Scholar, I raised funds for research on endangered sea turtles, and was co-Principal Investigator, of World Wildlife Fund (International) Project 1816.

Editorial Boards

- 1999-2004 **Animal Conservation**, journal of the Zoological Society of London. Editorial Board.
- 1996-2006 **Conservation Biology**, journal of the Society for Conservation Biology. For a decade, I served as one of two Associate Editors with the responsibility of conceiving, commissioning, and editing *Issues in International Conservation*.
- 1993-present **Oryx**, journal of the Flora and Fauna Preservation Society, Editorial Board.

Journal & Press Reviews

American Naturalist, Animal Behavior, Animal Conservation, BBC Wildlife, Biological Conservation, BioScience, Conservation Biology, Ecological Applications, Ecological Economics, Environmental Management, Global Crime, Journal of Tropical Ecology, MBG Annals, Nature, Oryx, PLoS Biology, Proceedings of the National Academy of Sciences, Proceedings of the Royal Society: Biological Sciences, Science, Zoo Biology, Cambridge University Press, Princeton University Press, National Geographic, Scholastic Press

Talks, Workshops, and Committees (selected)

- 2017 Hotchkiss School, Summer Portals Environmental Science Program, Invited Lecture, 7 July
- 2017 Vassar College, Conservation Leaders of Tomorrow Conference, Panel Member, 20 April
- 2017 Harvard University, Harvard Planetary Health Alliance Meeting, Invited Speaker, 28-20 April
- 2017 University at Albany, SUNY, Albany, Invited Falconer Lecture Series, 4 April
- 2017 Cary Institute of Ecosystem Studies, Fundamentals of Ecosystem Ecology Graduate Course Lecture, *The "New" Conservation Science*, 9 January
- 2016 Catskill Environmental Research & Monitoring Conference, Highmount, NY, Keynote Speaker, 27-28 October
- 2016 University at Albany, SUNY, Albany, NY, Commencement Speaker, Department of Atmospheric and Environmental Science, 14 May
- 2016 Florida International University, the *Our Common Future* lecture series, Donald Blechman memorial lecture, 26 April
- 2016 Columbia University, School of International and Public Affairs, New York, NY, Invited Lecture, 28 March
- 2016 Cary Institute of Ecosystem Studies, Millbrook, NY, Public Lecture, *Roaring Back, The Fragile Global Recovery of Large Carnivores*, 19 February

- 2016 Cary Institute of Ecosystem Studies, Fundamentals of Ecosystem Ecology Graduate Course Lecture, *The "New" Conservation Science*, 8 January
- 2015 Cary Institute of Ecosystem Studies, Fundamentals of Ecosystem Ecology, Graduate Course. Lecture, *New Conservation NGO Response*
- 2015 Bard College, Environmental Science Colloquium, Invited speaker
- 2015 Columbia University, Instruction/Lecturer, 9 March
- 2015 Hotchkiss School, Summer Portals Environmental Science Program, Invited Lecture, 29 June
- 2014 University of Georgia, Athens. Invited speaker, Center for Integrative Conservation Research and the Owens Institute for Behavioral Research.
- 2013 Zoological Society of London. Plenary Speaker, Symposium Carnivore Energetics and Macroecology. Paper on status of the world's large carnivores.
- 2011 Bloomberg LLP, Earth Day celebration. Invited speaker on deforestation.
- 2010 NRDC Visionary Speaker Series. *Time, Space and the Scale of Conservation*.
- 2010 Fordham University, Conservation Conversations 2. Invited speaker. Paper title: *How long is perpetuity?*
- 2010 Dumbarton Oaks, Garden and Landscape Studies. Designing Wildlife Habitats: A Symposium. Paper title: *The Impact of Ecology and Spatial Scale on Designing Wildlife Habitats*.
- 2008 Princeton Environmental Institute Grand Challenges Program, Panelist and Invited speaker, panel on rural poverty, land use, biodiversity and water in Africa.
- 2007 Pace University, Department of Biology and Health Science. Invited speaker.
- 2006 Conference on Management of Conflicts between Wildlife and Human Resource Use. Plenary speaker. Leipzig 25-27th January 2006.

Languages

French (adequate), Kenyan Swahili (basic), Thai (very rusty)

Grants

- 2000 to 2014 Global Conservation Program, WCS: Overall responsibility for management of Global budgets. In 2013, Global Programs closed books at \$83 million dollars with grants from government and multilateral agencies, foundations, corporations, and private individuals.
- 1996-2003 Asia Program, WCS: Overall responsibility for management of programs with grants from government and multilateral agencies, foundations, corporations and private individuals. Budget grew from \$1.5 million to \$7 million in this time.
- 1995 Dances for Elephants: Funds to conduct survey of Grevy's zebra in Northern Kenya, June/July 1995.
- 1994 The Royal Society: Overseas Travel Grant to attend meetings in Mexico.
- 1993 EEC Human Capital and Mobility Grant: Grant to JRG and Daniela De Luca for Ph.D. Studentship to study banded mongoose ecology and behavior.
- 1993 NERC Life & Terrestrial Sciences: Grant to JRG and Dr. R. Woodroffe to study evolution of plural breeding in banded mongoose.
- 1990-1993 Wildlife Conservation International: Two grants to study wild dogs.
- 1992 The Royal Society: Overseas Research Fund grant to study genetic and social implications of dispersal in wild dogs.
- 1989-1993 National Geographic Society: Two grants to study wild dogs.
- 1989-1990 People's Trust for Endangered Species (UK): grant to study wild dogs.
- 1989-1990 American Philosophical Society: funds to study wild dogs.
- 1989-1990 Chicago Zoological Society: funds for field assistant on wild dog project.
- 1984 to 1985 New York Zoological Society: grant to fund zebra study.

- 1983 to 1985 National Geographic Society: two grants to fund zebra research.
- 1981 to 1982 World Wildlife Fund/ IUCN Project 1816: grant to study sea turtles and conservation of natural resources in Tarutao National Park, Thailand.

Reviewed Publications

- 2017 Ginsberg, J.R. When protected areas prove insufficient: Cheetah and “protection-reliant” species. *PNAS* 114(3):430-431. Doi/10.1073/pnas.1619817114
- 2016 Yackulic, C.B. and J.R. Ginsberg. The scaling of geographic ranges: Implications for species distribution models. *Landscape Ecology* 31(6):1195-1208. <http://dx.doi.org/10.1007/s10980-015-0333-y>
- 2016 Rossi Lafferriere, N.A., R. Antelo, F. Alda, D. Mårtensson, F. Hailer, S. Castroviejo-Fisher, J. Ayarzagüena, J.R. Ginsberg, J. Castroviejo, I. Doadrio, C. Vilá, and G. Amato. Multiple paternity in a reintroduced population of the Orinoco Crocodile (*Crocodylus intermedius*) at the El Frio Biological Station, Venezuela. *PLOS ONE* 11(3):e0150245. <http://dx.doi.org/10.1371/journal.pone.0150245>
- 2013 Ginsberg, J. R. Mammals, Biodiversity of. Pp. 681-707. In: S. A. Levin (Ed.). *Encyclopedia of Biodiversity*. Second Edition. Academic Press, San Diego.
- 2013 Ginsberg, J. R. Spatial scale and the design of conservation interventions. Pp. 47-64. In: J. Beardsley (Ed.). *Designing Wildlife Habitats*. Dumbarton Oaks Research Library and Collection, Harvard University Press, Washington, D.C.
- 2010 Kang, A., Y. Xie, J. R. Tang, E. W. Sanderson, J. R. Ginsberg, and E. D. Zhang. Historic distribution and recent loss of tigers in China. *Integrative Zoology* 5: 335-341.
- 2010 Sanderson, E. W., J. Forrest, C. Loucks, J. Ginsberg, E. Dinerstein, J. Seidensticker, P. Leimgruber, M. Songer, A. Heydlauff, T. O'Brien, G. Bryja, S. Klenzendorf, and E. Wikramanayake. Setting priorities for tiger conservation: 2005 – 2015. Pp. 143-161. In: R. Tilson and P. Nyhus (Eds.). *Tiger Ecology and Conservation*, 2nd Edition. Elsevier.
- 2009 Odonkhuu, D., K. A. Olson, G. B. Schaller, J. R. Ginsberg, and T. K. Fuller. Activity, movements, and sociality of newborn Mongolian gazelle calves in the Eastern Steppe. *Acta Theriologica* 54: 357-362.
- 2007 Woodroffe, R., H. Davies-Mostert, J. Ginsberg, J. Graf, K. Leigh, K. McCreery, G. Mills, A. Poles, G. Rasmussen, R. Robbins, M. Somers, and M. Szykman. Rates and causes of mortality in endangered African wild dogs (*Lycaon pictus*): Lessons for management and monitoring. *Oryx* 41: 215-223.
- 2007 Dinerstein, E., C. Loucks, E. Wikramanayake, J. Ginsberg, E. Sanderson, J. Seidensticker, J. Forrest, G. Bryja, A. Heydlauff, S. Klenzendorf, P. Leimgruber, J. Mills, T. G. O'Brien, M. Shrestha, R. Simons, and M. Songer. The fate of wild tigers. *BioScience* 57: 508–514.
- 2007 Cobb, S., J. R. Ginsberg, and J. Thomsen. Conservation in the tropics: Evolving roles for governments, international donors and non-government organizations. Pp. 145-155. In: D. Macdonald and K. Service (Eds.). *Key Topics in Conservation Biology*. Blackwell Scientific, Oxford, UK.
- 2006 Adeney, J. M., J. R. Ginsberg, G. J. Russell, and M. F. Kinnaird. Effects of ENSO-related fires on tropical forest bird communities of Southeast Asia. *Animal Conservation* 9: 202-301.
- 2005 Fener, H., J. R. Ginsberg, E. Sanderson, and M. Gompper. Chronology of range expansion of the coyote, *Canis latrans*, in New York. *Canadian Field-Naturalist* 119(1): 1-5.
- 2005 Woodroffe, R. B. and J. R. Ginsberg. King of the beasts? Evidence for guild redundancy among large mammalian carnivores. Chapter 9. In: J. C. Ray, J. Berger, K. H. Redford, and R. Steneck. *Large Carnivores and Biodiversity: Does Saving One Conserve the Other?* Island Press.
- 2004 Robinson, J. G. and J. R. Ginsberg. Parks, pipelines and people an overview of the World Parks Congress 2003. *Conservation Biology* 18: 607-608.

- 2004 Ginsberg, J. R. Enhancement of survival or abandonment of the Endangered Species Act? An essay on the proposed rule change for import of endangered species to the USA under the ESA. *Bioscience* 54: 180-181.
- 2002 Ginsberg, J. R. *CITES at 30, or 40*. *Conservation Biology* 16: 1184-1191.
- 2002 Dudley, J. P., J. R. Ginsberg, A. J. Plumptre, J. A. Hart, and L. C. Campos. Effects of war and civil strife on wildlife and wildlife habitats. *Conservation Biology* 16: 319-329.
- 2001 Carbone, C., S. Christie, K. Conforti, T. Coulson, N. Franklin, J. R. Ginsberg, M. Griffiths, J. Holden, M. Kinnaird, R. Laidlaw, A. Lynam, D. W. MacDonald, D. Martyr, C. McDougal, L. Nath, T. O'Brien, J. Seidensticker, J. L. D. Smith, R. Tilson, and W. N. W. Shahrudin. The use of photographic rates to estimate densities of cryptic mammals: Response to Jennelle et al. *Animal Conservation* 5: 121-123.
- 2001 Carbone, C., S. Christie, K. Conforti, T. Coulson, N. Franklin, J. R. Ginsberg, M. Griffiths, J. Holden, K. Kawanishi, M. Kinnaird, R. Laidlaw, A. Lynam, D. W. Macdonald, D. Martyr, C. McDougal, L. Nath, T. O'Brien, J. Seidensticker, D. J. L. Smith, M. Sunquist, R. Tilson, and W. N. W. Shahrudin. The use of photographic rates to estimate densities of tigers and other cryptic mammals. *Animal Conservation* 4: 75-79.
- 2001 Girman, D. J., C. Vilà, E. Geffen, S. Creel, M. G. L. Mills, J. W. McNutt, J. Ginsberg, P. Kat, K. H. Mamiya, and R. K. Wayne. Patterns of population subdivision, gene flow and genetic variability in the African wild dog (*Lycaon pictus*). *Molecular Ecology* 10: 1703-1723.
- 2001 De Luca, D. and J. R. Ginsberg. Dominance, reproduction and survival in banded mongooses: Towards an egalitarian social system? *Animal Behaviour* 61: 17-30.
- 2001 Ginsberg, J. R. Setting priorities for carnivore conservation: What makes carnivores different? Pp. 498-523. In: D. Macdonald, J. Gittleman, and R. Wayne. (Eds.). *Carnivore Conservation*. Cambridge University Press.
- 2001 Ginsberg, J. R. Mammals, Biodiversity of. Pp. 777-810. In: S. A. Levin (Ed.). *Encyclopedia of Biodiversity, Volume 3*. Academic Press, San Diego.
- 2000 Woodroffe, R. and J. R. Ginsberg. Ranging behaviour and vulnerability to extinction in carnivores. Pp. 125-140. In: L. M. Gosling and W. J. Sutherland (Eds.). *Behaviour and Conservation*. Cambridge University Press, Cambridge.
- 1999 Ginsberg, J. R. Global Conservation Priorities. *Conservation Biology* 13: 5.
- 1999 Ray, J. C. and J. R. Ginsberg. Endangered species legislation beyond the borders of the United States. *Conservation Biology* 13: 956-958.
- 1999 Woodroffe, R. B and J. R. Ginsberg. Conserving the African Wild Dog, *Lycaon pictus*. I. Diagnosing and treating causes of decline. *Oryx* 33: 132-142.
- 1999 Ginsberg, J. R. and R. B. Woodroffe. Conserving the African Wild Dog, *Lycaon pictus*. II: Is there a role for reintroductions? *Oryx* 33: 143-151.
- 1999 Mace, G. M., A. Balmford, and J. R. Ginsberg (Eds.). *Conservation in a Changing World*. Cambridge University Press, Cambridge, UK . 322 pp.
- 1999 Balmford, A., G. M. Mace, and J. R. Ginsberg. The challenges to conservation in a changing world: Putting processes on the map. Pp. 1-28. In: G. M. Mace, A. Balmford, and J. R. Ginsberg (Eds.). *Conservation in a Changing World*. Cambridge University Press, Cambridge, UK.
- 1998 Woodroffe, R., and J. R. Ginsberg. Edge effects and the extinction of populations inside protected areas. *Science* 280: 2126-2128.
- 1997 Woodroffe, R., J. R. Ginsberg, D. W. Macdonald, and the IUCN Canid Specialist Group (Editors & Compilers). *The African Wild Dog: Status Survey and Conservation Action Plan*. IUCN, Switzerland. 166 pp.
- 1996 Ginsberg, J. R. Survivorship in Africa's wild dogs. *Conservation Biology* 10: 313-315.
- 1995 Ginsberg, J. R., K. A. Alexander, S. Creel, P. W. Kat, J. W. McNutt, and M. G. L. Mills. Patterns of mortality in African Wild Dogs (*Lycaon pictus*): Effects of handling. *Conservation Biology* 9: 665-674.

- 1995 Ginsberg, J. R., G. M. Mace, and S. Albon. Local extinction in a small and declining population: Wild dogs in the Serengeti. *Proceeding of the Royal Society (B)(London)* 262: 221-228.
- 1994 Ginsberg, J. R. and E. J. Milner-Gulland. Sex-biased harvesting and population dynamics in ungulates: Implications for conservation and sustainable use. *Conservation Biology* 8: 157-166.
- 1994 Ginsberg, J. R. Captive breeding, reintroduction, and the conservation of canids. Pp. 365-381. In: P. J. Olney, G. Mace, and A. T. C. Feistner (Eds.). *Creative Conservation: Interactive Management of Wild and Captive Animals*. Chapman and Hall, London.
- 1993 Girman, D. J., P. W. Kat, M. G. L. Mills, J. Ginsberg, M. Borner, V. Wilson, K. Larenson, and R. K. Wayne. Molecular genetic and morphological analyses of the African wild dog (*Lycaon pictus*). *J. Heredity* 84: 450-459.
- 1993 Ginsberg, J. R. and D. Clode. Hunting. Pp. 43-56. In: T. Halliday (Ed.). *Animal Behaviour*. Weldon Russell Publishing, Sydney, Australia.
- 1993 Ginsberg, J. R. Can we build an ark? *Trends in Ecology and Evolution* 8: 4-6.
- 1993 Mace, G., N. Collar, J. Cooke, K. Gaston, J. Ginsberg, N. Leader-Williams, M. Maunder, and E. J. Milner-Gulland. The development of new criteria for listing species on the IUCN Red List. *Species* 19: 16-22.
- 1992 Ginsberg, J. R. and T. P. Young. The use of measures of association between individuals or groups in behavioural studies. *Animal Behaviour* 44: 377-379.
- 1992 Fuller, T. K., P. W. Kat, J. B. Bulger, A. H. Maddock, J. R. Ginsberg, R. Burrows, J. W. McNutt, and M. G. L. Mills. Population dynamics of African wild dogs. Pp. 1125-1139. In: D. R. McCullough, and H. Barrett (Eds.). *Wildlife 2001: Populations*. Elsevier Science Publishers, London.
- 1992 Macdonald, D. W., M. Artois, M. Aubert, D. L. Bishop, J. R. Ginsberg, A. King, N. Kock, and B. D. Perry. Cause of wild dog deaths. *Nature* 360: 633-634.
- 1991 Fanshawe, J. H., L. H. Frame, and J. R. Ginsberg. The wild dog -- Africa's vanishing carnivore. *Oryx* 25: 137-146.
- 1991 Ginsberg, J. R. The consumptive use of wildlife: Harvesting, sociobiology, and implications for population dynamics. Pp. 74-75. In: J. G. Grootenhuys, S. G. Njuguna, and P. W. Kat (Eds.). *Wildlife Research for Sustainable Development*, Kenya Agricultural Research Institute. Kenya Wildlife Service, and National Museums of Kenya, Nairobi, Kenya.
- 1990 Ginsberg, J. R. and D. I. Rubenstein. Sperm competition and zebra mating systems. *Behavioural Ecology and Sociobiology* 26: 427-434.
- 1990 Ginsberg, J. R. and D. W. Macdonald. *Foxes, Wolves, Jackals and Dogs: An Action Plan for the Conservation of Canids*. IUCN, Gland, Switzerland. 90 pp.
- 1990 Becker, C. D. and J. R. Ginsberg. Mother-infant behaviour of wild Grevy's zebra: Adaptations for survival in semi-desert East Africa. *Animal Behaviour* 40: 1111-1118.
- 1990 Chaudury, M. and J. R. Ginsberg. Urinary testosterone concentrations and social status in two species of free ranging zebra. *Journal of Reproduction and Fertility* 88: 127-133.
- 1989 Ginsberg, J. R. The ecology of female behaviour and male reproductive success in the Grevy's zebra, *Equus grevyi*. *Zoological Society (London) Symposia* 61: 89-110.
- 1989 Ginsberg, J. R. and U. W. Huck. Sperm competition in mammals. *Trends in Ecology and Evolution* 4: 74-79.
- 1987 Ginsberg, J. R. What is conservation biology. *Trends in Ecology and Evolution* 2: 262-264.
- 1982 Ginsberg, J. R. Status of sea turtles in Tarutao National Park. *Tigerpaper* 8: 27-9.

Selected Popular Publications and Reports

- 2014 Wilkie, D. and J. Ginsberg. 2014. Why adoption of the medical model would cure conservation impact evaluation. *Conservation Magazine*. February 2014.
- 2006 Dinerstein, E., C. Loucks, A. Heydlauff, E. Wikramanayake, G. Bryja, J. Forrest, J. Ginsberg, S. Klenzendorf, P. Leimgruber, T. O'Brien, E. Sanderson, J. Seidensticker, and M. Songer. *Setting Priorities for the Conservation and Recovery of Wild Tigers: 2005–2015. A User's Guide*. WWF, WCS, Smithsonian, and NFWF-STF, Washington, DC, and New York, USA
[http://www.savethetigerfund.org/AM/Template.cfm?Section= Full_Reports]
- 2006 Sanderson, E., J. Forrest, C. Loucks, J. Ginsberg, E. Dinerstein, J. Seidensticker, P. Leimgruber, M. Songer, A. Heydlauff, T. O'Brien, G. Bryja, S. Klenzendorf, and E. Wikramanayake. *Setting Priorities for the Conservation and Recovery of Wild Tigers: 2005–2015. The Technical Assessment*. New York, NY and Washington, DC, USA: WCS, WWF, Smithsonian, and NFWFSTF.
- 1998 Williams, S. and J. R. Ginsberg. Grave times for Grevy's zebra. *Natural History*. 3/98.
- 1997 Fanshawe, J. H., J. R. Ginsberg, and R. Woodroffe. Literature on *Lycaon pictus*. Pp. 148-158. In: R. Woodroffe, J. R. Ginsberg, and D.W. Macdonald (Eds.). *The African Wild Dog: Status Survey and Conservation Action Plan*. IUCN, Switzerland.
- 1997 Fanshawe, J. H., J. R. Ginsberg, C. Sillero-Zubiri, and R. Woodroffe. The status and distribution of remaining wild dog populations. Pp. 11-57. In: R. Woodroffe, J. R. Ginsberg, and D.W. Macdonald (Eds.). *The African Wild Dog: Status Survey and Conservation Action Plan*. IUCN, Switzerland.
- 1997 Ginsberg, J. R. and R. Woodroffe. Extinction risks faced by remaining wild dog populations. Pp. 75-87. In: R. Woodroffe, J. R. Ginsberg, and D. W. Macdonald (Eds.). *The African Wild Dog: Status Survey and Conservation Action Plan*. IUCN, Switzerland.
- 1997 Woodroffe, R. and J. R. Ginsberg. Past and future causes of wild dogs' population decline. Pp. 58-74. In: R. Woodroffe, J. R. Ginsberg, and D. W. Macdonald (Eds.). *The African Wild Dog: Status Survey and Conservation Action Plan*. IUCN, Switzerland.
- 1997 Woodroffe, R. and J. R. Ginsberg. Measures for the conservation and management of free-ranging wild dog populations. Pp. 88-99. In: R. Woodroffe, J. R. Ginsberg, and D. W. Macdonald (Eds.). *The African Wild Dog: Status Survey and Conservation Action Plan*. IUCN, Switzerland.
- 1997 Woodroffe, R. and J. R. Ginsberg. The role of captive breeding and reintroduction in wild dog conservation. Pp. 100-111. In: R. Woodroffe, J. R. Ginsberg, and D. W. Macdonald (Eds.). *The African Wild Dog: Status Survey and Conservation Action Plan*. IUCN, Switzerland.
- 1997 Ginsberg, J. R. and R. Woodroffe. Research and monitoring: Information for wild dog conservation. In: R. Woodroffe, J. R. Ginsberg, and D. W. Macdonald (Eds.). *The African Wild Dog: Status Survey and Conservation Action Plan*. IUCN, Switzerland.
- 1997 Woodroffe, R. and J. R. Ginsberg. Country-country action plans for wild dog conservation. In: R. Woodroffe, J. R. Ginsberg, and D. W. Macdonald (Eds.). *The African Wild Dog: Status Survey and Conservation Action Plan*. IUCN, Switzerland.
- 1997 Ginsberg, J. R., K. A. Alexander, S. L. Cleavland, S. R. Creel, N. M. Creel, N. Kock, J. R. Malcolm, J. W. McNutt, M. G. L. Mills, and R. K. Wayne. Some techniques for studying wild dogs. Pp. 139-146. In: R. Woodroffe, J. R. Ginsberg, and D. W. Macdonald (Eds.). *The African Wild Dog: Status Survey and Conservation Action Plan*. IUCN, Switzerland.
- 1994 Rowen, M., and J. Ginsberg. Grevy's zebra: Equid of a different stripe. *African Wildlife Update*, Jan.-Feb. 1994, p. 4.
- 1994 Ginsberg, J. R. Conservation biology and status of the African wild dog, *Lycaon pictus*. *Endangered Species Update* 11: 1-6.
- 1994 Ginsberg, J. R. and M. L. Cole. Wild at heart. Conservation of the African wild dog. *New Scientist* 1952, 19 November 1994.
- 1993 Ginsberg, J. R. Horses losing biggest race of all. *BBC Wildlife* 11: 14.
- 1992 Rowen, M. and J. R. Ginsberg. Conservation status of the Grevy's zebra. In: *Horses, Zebras and Asses: An Action Plan for the Conservation of Equids*. IUCN, Gland.