

CREATING AND SHARING KNOWLEDGE.

CONSERVING BIODIVERSITY.

TRAINING THE NEXT GENERATION.

The Smithsonian Conservation Biology Institute (SCBI) develops the scientific knowledge that informs conservation action—saving species worldwide through innovative science, collaboration, training and education.

REGISTRATION

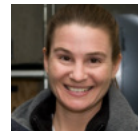
Please fill out the registration form and return, with a check or credit card payment in the amount of \$150, in the envelope provided. Space is very limited. If you have any questions, please contact Molly Dodge, 540-635-0071 dodgem@si.edu.

CANCELLATION POLICY

If you wish to cancel your registration, please notify us at least 48 hours in advance. Failure to do so will result in a \$50 cancellation fee.



BRIAN COYLE is a biologist at the National Museum of Natural History and the coordinator for the Red Siskin Initiative (RSI). The red siskin, an iconic bird in northern South America, is severely threatened by habitat loss and wildlife trafficking for the pet trade. An international partnership of public and private institutions, communities and individuals, the initiative is working to help understand, protect and restore sustainable populations of bird across its historic range. Brian is developing a comprehensive recovery plan and molecular tools for genomic management.



ADRIENNE CROSIER is a cheetah biologist for the the Smithsonian Conservation Biology Institute with a specialty in the cat's reproductive health. She also works with and trains graduate students and post-doctoral fellows. Selected as the Association of Zoos and Aquariums Cheetah Species Survival Plan (SSP) Program Leader in 2014, she guides the management of more than 300 cheetahs in the SSP. Adrienne has a Ph.D. from North Carolina State University. She worked at the Cheetah Conservation Fund in Namibia, Africa, while she was a post-doctoral fellow at the National Zoo.



ROB FLEISCHER is a senior scientist and head of the Smithsonian's Center for Conservation and Evolutionary Genetics. He researches evolutionary and conservation biology, exploring population and evolutionary genetics and systematics, molecular and behavioral ecology on free-ranging bird and mammal species and their pathogens. He particularly is interested in the use of ancient DNA methods to document changes in genetic variation through time and phylogenetic relationships of extinct or endangered organisms; the use of highly variable genetic markers to measure genetic structure and relatedness and to ascertain mating systems in natural populations; and the use of genetics to study the evolutionary interactions among hosts, vectors and infectious disease organisms.



DINA FONSECA is a professor at the Rutgers School of Environmental and Biological Sciences where she is the Director of the Center for Vector Biology. She is also a Smithsonian Fellow at the National Zoo

Institute for Conservation and Biodiversity and an National Research Center Associate at Walter Reed Army Institute of Research. Her primary research interests are the evolution, ecology and control of invasive mosquitoes, the principal vectors of significant disease epizootics and epidemics.



KLAUS-PETER KOEPFLI is a research scientist at the Smithsonian's Center for Species Survival, focusing on genetics of endangered species. He is developing and applying the latest genomic tools to conserve and manage captive and wild populations of endangered species such as the black-footed ferrets, sable antelope, dama gazelle and different species of otters. He is comparing the genomes of different mammal species in order to gain insights into the evolution of biological diversity. Klaus-Peter is also a senior fellow at the Theodosius Dobzhansky Center for Genome Bioinformatics at Saint Petersburg State University in Russia.



STEVE MONFORT is the John and Adrienne Mars Director and chief scientist at the Smithsonian Conservation Biology Institute where he co-founded the Smithsonian-Mason School of Conservation and helped launch a number of significant initiatives, including the Sahara Conservation Fund, Conservation Centers for Species Survival, Panama Amphibian Rescue and Conservation Project and the Global Tiger Initiative.



BETH SHAPIRO is an evolutionary biologist. A pioneer in the scientific field called ancient DNA, Beth travels extensively in Alaska, Siberia and Canada, collecting bones and other remains of long-dead creatures including mammoths, giant bears and extinct camels and horses. She studies how species and populations evolve through time and how human activities affect this dynamic process. Director for Conservation of the University of California Santa Cruz Genomics Institute, Beth has been named a Royal Society University Research Fellow, Searle Scholar, Packard Fellow and a National Geographic Emerging Explorer. In 2009, she received a MacArthur "genius" award. Her recent award-winning book, *How to Clone a Mammoth: The Science of De-extinction* provides a clear voice in the debate over the future of genetic engineering as a tool for conserving species and ecosystems.



FOURTH ANNUAL CONSERVATION IMMERSION SEMINAR

MAY 10, 2017 | WASHINGTON, D.C.



Smithsonian
National Zoological Park
Conservation Biology Institute

MAY 10, 2017

Genomics | The New Frontier

9:00AM | REGISTRATION AND COFFEE

Smithsonian National Zoo and Conservation
Biology Institutes' Science Building

9:30AM | WELCOME REMARKS

Steve Monfort, John and Adrienne Mars Director,
Smithsonian Conservation Biology Institute

10:00AM | PANEL DISCUSSION

**Understanding the Past and Exploring the Future:
How will Genomics Change Conservation?**

Robert Fleischer, head of the Smithsonian's Center
for Conservation and Evolutionary Genetics

Dina Fonseca, Rutgers School of Environmental
and Biological Sciences

Beth Shapiro, University of California—Santa Cruz,
Ecology and Evolutionary Biology Department

11:15AM | COFFEE BREAK

11:30AM | PANEL DISCUSSION

Using Genomics to Inform Conservation Management

Brian Coyle, research biologist,
National Museum of Natural History

Adrienne Crosier, research biologist,
Smithsonian Conservation Biology Institute

Klaus Peter-Koepfli, research scientist,
Smithsonian Conservation Biology Institute

1:00PM | LUNCH

**Using the Past to Inform Present Day
Conservation Priorities**

Keynote address by Beth Shapiro

2:15PM | GENOMICS IN ACTION

**Real-time DNA amplification Bioinformatics.
How do we process all that data?**

4:00PM | CLOSING REMARKS

4:30PM | COCKTAIL RECEPTION



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*Total cost for the day is **\$150** per participant. Please
make checks payable to the Smithsonian Conservation
Biology Institute and indicate "seminar" on the memo line.
Checks should be sent to: Office of Advancement,
1500 Remount Road, Front Royal, VA 22630.

CONTACT Molly Dodge | 540.635.0071 | dodgem@si.edu

JOIN WORLD-RENOWNED SCIENTISTS FOR IN-DEPTH DISCUSSIONS

about how
technology is informing conservation
management. New advances
in genomics have opened up
new possibilities, but how and
when do we use these tools?
We'll explore the bioethical
questions surrounding genomics
—it's implications and applications
for conservation.