

Subject: RE: CBD online forum - edits to the proposed list of "volunteers"

From: Heath Packard <heath.packard@islandconservation.org>

Date: 4/18/2017 8:46 PM

To: Isabelle Coche <Isabelle@emergingag.com>, Delphine Thizy <d.thizy@imperial.ac.uk>, Karen Logan <kelogan@imperial.ac.uk>, Austin Burt <a.burt@imperial.ac.uk>, Jason Delborne <jadelbor@ncsu.edu>, Todd Kuiken <tkuiken@ncsu.edu>, Stephanie James <sjames@fnih.org>, Gregg Howald <gregg.howald@islandconservation.org>, Camilla Beech <cambeaconsults@gmail.com>, Hector Quemada <hquemada@danforthcenter.org>, scott Shore <scott@shorebiotech.com>, Royden Saah <royden.saah@islandconservation.org>, Sara Kaiser <sara.kaiser@islandconservation.org>
CC: Hapsa Dia <Hapsa@emergingag.com>, Benjamin Robinson <Ben@emergingag.com>, Olivia Majorin <o.majorin@imperial.ac.uk>

Hi Isabelle,

Today Todd and I briefed the Genetic Biocontrol steering committee and urged them to get themselves (and other's from their organizations/networks) nominated for the online forum. You can add these steering committee to your 'volunteer' target list and note that they've been asked to enlist. Todd's given them a sample nomination letter, to make that step easier. I'm sure they'd appreciate a more detailed briefing (we only had 15 min.).

- Dr. Peter Brown, CSIRO
- Dr. Karl Campbell, Island Conservation
- Dr. John Godwin, NCSU
- Dr. Fred Gould, NCSU
- Gregg Howald, Island Conservation
- Dr. Toni Piaggio, USDA
- Dr. Paul Thomas, U. of Adelaide
- Dr. Dan Tompkins, Landcare Research
- Dr. David Threadgill, TA&M
- Royden Saah, Island Conservation

I've also attached an email that includes the current 172-member roster of the 'genetic rescue' list serve that *Revive and Restore* (Ryan Phelan) maintains. The list is dominated by conservation-oriented folks, and much of the dialogue relates to de-extinction papers/debates. There's bound to be some skeptics (maybe detractors?) amongst the group as well...but this is a great list for a few of us to mine...we could occasionally consider less-than-targeted information sharing and outreach through this list as well. Maybe some of you would want to sign up and monitor the activity...be cautious – there are a few journalists monitoring the list as well.

Best,

Heath Packard

Director of Marketing & Communications
Island Conservation
360.584.3051 (mobile)

Learn more www.islandconservation.org

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Talk to us www.twitter.com/noextinctions



From: Isabelle Coche [mailto:Isabelle@emergingag.com]

Sent: Wednesday, April 05, 2017 2:06 AM

To: Delphine Thizy <d.thizy@imperial.ac.uk>; Karen Logan <kelogan@imperial.ac.uk>; Austin Burt <a.burt@imperial.ac.uk>; Heath Packard <heath.packard@islandconservation.org>; Jason Delborne <jadelbor@ncsu.edu>; Todd Kuiken <tkuiken@ncsu.edu>; Stephanie James <sjames@fnih.org>; Gregg Howald <gregg.howald@islandconservation.org>; Camilla Beech <cambeaconsults@gmail.com>; Hector Quemada <hquemada@danforthcenter.org>; scott Shore <scott@shorebiotech.com>; Royden Saah <royden.saah@islandconservation.org>; Sara Kaiser <sara.kaiser@islandconservation.org>

Cc: Hapsa Dia <Hapsa@emergingag.com>; Benjamin Robinson <Ben@emergingag.com>; Olivia Majorin <o.majorin@imperial.ac.uk>

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Dear all

A gentle reminder to send me any additions, suggestions or other edits to the list of possible volunteers to the online forum (see document attached). Stephanie has put me in touch with Anthony James, Ethan Bier, Robert Friedman, and Suresh Subramani from the University of California and with Zach Adelman at Texas A&M. I will have calls with them next week to brief them and I can report on our group call.

As a reminder, the recent communication from the CBD secretariat indicated that the online forum would take place over the summer, July to September, so we need to get people briefed and registered before then.

“To implement the various elements of the decision in a systematic manner, the Secretariat is establishing a continuous process comprising: (i) submission of information on synthetic biology (by June 16 2017); (ii) discussions through the open-ended online forum (tentatively to be held from July to September 2017); (iii) one face-to-face meeting of the AHTEG (tentatively to be held in December 2017); and (iv) peer-review of the outcomes of the AHTEG. The outcomes of this process will be submitted for peer review and subsequent consideration by the Subsidiary Body on Scientific, Technical and Technological Advice (SBSTTA) at its twenty-second meeting to be held 2 to 7 July 2018.”

Best,

Isabelle



Isabelle Coche

Vice President, Strategy

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—ForwardedMessage.eml—

Subject: [Geneticrescue] Genetic Rescue Listserv Participant List

From: Meghan Foley <meghan@reviverestore.org>

Date: 4/18/2017 1:09 PM

To: Genetics Listserv <geneticrescue@list.longnow.org>

Here's the full list:

Genetic Rescue Listserv Participants as of April 17, 2017

Christina Agapakis, Creative Director, Ginkgo Bioworks

H. Resit Akcakaya, Professor in the Department of Ecology and Evolution, Stony Brook University

Luke Alphey, Group Leader, Vector-Borne Viral Diseases Programme, The Pirbright Institute, UK

Michael Archer, Professor Biological, Earth & Environmental Sciences, University of New South Wales (Thylacine & Lazarus Projects)

Michelle Baker, Ph.D., Research scientist with the Commonwealth Scientific and Industrial Research Organisation (CSIRO)

Soraia Barbosa, joint PhD candidate at Porto University (Portugal) and Cornell University in Biodiversity, Genetics & Evolution.

Joel Berger, Senior Scientist, Wildlife Conservation Society & Professor, University of Montana

Eric J Bishop-von Wettberg, professor in the Biology department at Florida International University

Jack Bobo, Chief Communications Officer, Intrexon

Hilary Bok, Associate Professor of Philosophy, Johns Hopkins University

Stewart Brand, Co-founder, Revive & Restore

Michael Bruford, Professor / Research Division Leader, Organisms and Environment group, Cardiff School of Biosciences, Cardiff University

Joanna Buchthal, MIT masters student and research assistant in Kevin Esvelt's lab

Stanley Burgiel, Assistant Director with the National Invasive Species Council Secretariat

David Burney, Professor of Conservation Paleobiology, National Tropical Botanical Garden

Alejandro Camacho, Director, Center for Land, Environment & Natural Resources, UC Irvine School of Law

Claudio Campagna, Wildlife Conservation Society Marine and Argentina Programs; Adjunct Professor, UC Santa Cruz; Steering Committee member, IUCN Species Survival Commission

Earl Campbell, Ph.D., Invasive Species Program Manager for the U.S. Geological Survey

Karl Campbell, Project Director Island Conservation, Galapagos

Rob Carlson, Principal, Biodesic

Tom Chase, Executive Director of conservation strategies, Massachusetts's chapter of The Nature Conservancy.

Marc Chevrette, Head of Experimental Genomics, Warp Drive Bio.

George Church, Director of the Center for Computational Genetics, Harvard Medical School

John Clark, Director of Plant Conservation at San Diego Zoo Global and President/Executive Director, Center for Plant Conservation

Larry Clarke, Ph.D., Director, National Wildlife Research Center, USDA-APHIS-WIS

Jeremy Coleman, National White-Nose Syndrome Coordinator; Northeast Regional Wildlife Disease Coordinator, U.S. Fish and Wildlife Service

James Collins, Professor of Natural History and the Environment, School of Life Sciences Arizona State University

Pierre Comizzoli, Reproductive Physiologist, Center for Species Survival, National Zoo, Smithsonian Conservation Biology Institute

Bob Cook, Program Director of the Conservation Program and the Basic Medical Research Program, Helmsley Charitable Trust

Bobby Dhadwar, postdoctoral fellow in the George Church Lab (Woolly Mammoth)

Josh Donlan, Founder and Director, Advanced Conservation Strategies
Tim Doran, Senior Research Scientist and Group Leader for Advanced RNA Technology, CSIRO Biosecurity Flagship
Steve Dowdy, Professor, Department of Cellular & Molecular Medicine, UC San Diego School of Medicine
David Duffy, Ph.D., Postdoctoral research fellow at the University College Dublin
Jack Dumbacher, Ornithology and Mammalogy Curator, California Academy of Sciences
Owain Edwards, Program Leader, Commonwealth Scientific and Industrial Research Organisation (CSIRO)
Sylvia Earle, Oceanographer, National Geographic Explorer
John D. Eisemann, Technology Transfer Program Manager, USDA APHIS Wildlife Services
Drew Endy Assistant Professor, Bioengineering Stanford University
Chris Farmer, Hawai'i Program Director, American Bird Conservancy
Paula Feldmeier, Environmental attorney for U.S. Army Corps of Engineers
Alberto Fernández-Arias, Head of the Service of Hunting, Fishing and Aquatic Medium Wetlands, Aragon Government, Spain (Pyrenean ibex)
Joshua Fisher, Hawaii Aquatic Invasive Species Coordinator, U.S. Fish and Wildlife Service, Pacific Islands Fish and Wildlife Office
Gary Fitt Ph.D., Science Director, Commonwealth Scientific and Industrial Research Organisation (CSIRO)
John Fitzgerald, Policy Director, Society for Conservation Biology
Tim Flannery, Mammalogist, Macquarie University, Sydney
Rob Fleischer, Center Head, Center for Conservation and Evolutionary Genetics, Smithsonian Conservation Biology Institute
Amy Fletcher, Undergraduate Coordinator and Senior Lecturer, Department of Social and Political Sciences, Associate Dean of Postgraduate Arts, University of Canterbury, New Zealand.
Meghan Foley, Executive Administrative Assistant, Revive & Restore
Andrew French, A/Prof. at the Centre for Animal Biotechnology, University of Melbourne (Lazarus Project)
Ken Gage, Chief, Entomology and Ecology Activity, CDC Fort Collins
Neil Gemmel, Professor and Gemmel Lab Lead, Department of Anatomy, University of Otago
Tom Gilbert, Professor of Paleogenomics, University of Copenhagen (Ancient DNA)
Daniel Gluesenkamp, Executive Director of the California Native Plant Society
John Godwin, Neurobiologist North Carolina State University
Fred Gould, Professor, Department of Entomology, North Carolina State University
Hank Greely, Professor, Director of the Center for Law and the Biosciences, Stanford Law School
Joel Greenberg, Project Passenger Pigeon
Harry Greene, Professor of Ecology and Evolutionary Biology, Faculty Curator of Amphibians and Reptiles, Cornell University
Cliff Hague, Entrepreneur, conservationist, currently on the San Diego Zoo Global's Board of Directors and Chair of SDZG's Conservation Council.
Susan Haig, President, American Ornithologists' Union and Supervisory Wildlife Ecologist, USGS
Bruce Hay, Professor of Biology, California Institute of Technology
Sean Hoban, Tree Conservation Biologist, The Morton Arboretum
Ben Hoffman, Principal Research Scientist, Commonwealth Scientific and Industrial Research Organisation (CSIRO) Australia
Michael Hofreiter, Professor, Evolutionary Adaptive Genomics, University of Potsdam.
Nick Holmes, Director of Science at Island Conservation
Chris Hoving, Adaptation Specialist, Wildlife Division, Michigan Department of Natural Resources
Gregg Howald, North America Regional Director, Island Conservation, Canada
Insung Hwang, Researcher, Soom Biotech Research Foundation (Woolly mammoth)
David Iorns, private individual interested in bringing back the moa
Alicia Jackson, Chief Technology Officer, Drawbridge Health, Inc.
Jeff Johnson, Associate Professor, Department of Biological Sciences, Institute of Applied Sciences, University of North Texas
Kate Jones, Professor of Ecology and Biodiversity, University College London and Zoological Society of London
Durrell Kapan, Senior Research Fellow, Institute for Biodiversity Science and Sustainability, California Academy of Sciences
Peter Kareiva, Chief Scientist, The Nature Conservancy
Billy Karesh, Executive Vice President for Health and Policy at EcoHealth Alliance
Jason Kelly, co-founder Ginkgo BioWorks, a synthetic biology company
Henri Kerckhove, Uruz Project, Chair, True Nature Foundation
Isabella Kirkland, Artist, Research Associate at California Academy of Sciences
Wendy Kiso, Research and Conservation Scientist, Ringling Bros. Center for Elephant Conservation
Michael Kjelland, founder and owner of Conservation, Genetics & Biotech, LLC.

Todd Kuiken, Senior Program Associate with the Science and Technology Innovation Program, The Wilson Center
Jennifer Kuzma, Co-director, Genetic Engineering and Society Center, North Carolina State University
Garrrie Landry, instructor of biology, University of Louisiana, Project Passenger Pigeon website
David Lang, Co-founder, OpenROV
Robert Lanza, Chief Scientific Officer, Advanced Cell Technology (Gaur and Bucardo)
Caroline Leitschuh, Phd candidate at North Carolina State University, focused on genetic biocontrol for invasive rodents on islands.
Elaine Leslie, Biological Resources Chief, Natural Resource Stewardship and Science, National Park Service
Erez Liberman-Aiden, Center for Genomic Architecture, Baylor College of Medicine
Paul Ling, Department of Molecular Virology and Microbiology, Baylor College of Medicine
Jeanne Loring, Professor of Developmental Neurobiology, Director of the Center for Regenerative Medicine
Edy MacDonald, Social Science Manager of the New Zealand Department of Conservation - Te Papa Atawhai
Michael Mace, Curator of Birds, San Diego Zoo Safari Park
Ross MacPhee, Curator & Professor, American Museum of Natural History (Ancient DNA)
John Markoff, Science Journalist, *The New York Times*
Paul Marini retired commercial geneticist, advisor on band-tailed pigeon captive breeding, Revive & Restore
Claire Marris, Senior Research Fellow in the Department of Social Science, Health and Medicine, King's College London
Bryce Masuda, Conservation Program Manager, San Diego Zoo Global
Douglas McCauley Ph.D., Assistant Professor of Ecology, Evolution, and Marine Biology at U.C. Santa Barbara's Marine Science Institute
Michael McGrew, Professor of Developmental Biology, The Roslin Institute, University of Edinburgh
Jacob Metcalf, Assistant Director of the Science & Justice Research Center, UC Santa Cruz and lecturer in Sociology and Philosophy
Ryan Monello, Program Manager for the Pacific Island Network's Inventory and Monitory Program, National Park Service
Andy Newhouse, PhD candidate at SUNY, College of Environmental Science & Forestry, focused on government and regulatory issues for transgenic blight-resistant American chestnut trees
Jack Newman, Chief Scientific Officer, Amyris
Ben J. Novak, BSc Ecology and Evolution, de-extinction researcher/science consultant, Revive & Restore
David Oehler, Curator of Ornithology at the Bronx Zoo, Wildlife Conservation Society
Heath Packard, Director of Communications, Island Conservation
Clare Palmer, Cornerstone Fellow & Professor of Philosophy at Texas A&M University
Angus Parker, conservationist and board member for Island Conservation, is now a business and strategy consultant to Revive & Restore
Mike Parr, Vice President, American Bird Conservancy
Eleonore Pauwels, Public Policy Scholar, Science and Technology Innovation Program, Woodrow Wilson Center
Chandran Pfitzner, PhD candidate at the University of Adelaide, researching mouse gene drive Research in Paul Thomas's laboratory
Ryan Phelan, Executive Director, Revive & Restore
Toni Piaggio, Research Molecular Biologist, USDA APHIS Wildlife Services
Glenn Plumb, Ph.D., Chief Wildlife Biologist in the National Park Service's Biological Resource Division
Hendrik Poinar, Principle Investigator, Ancient DNA Centre, McMaster University (Woolly mammoth/Ancient DNA)
William Powell, Director, Council on Biotechnology in Forestry, State University of New York (American Chestnut)
Justin Quinn, Warp Drive Bio, Cambridge MA
George Rabb, President Emeritus, Chicago Zoological Society/Brookfield Zoo
Floyd Reed, Assistant professor, Department of Biology, University of Hawaii
Kent H. Redford, Principal, Archipelago Consulting
Marilyn Renfree, Professor of Zoology, University of Melbourne (Tasmanian Tiger)
Richard Rhodes, Pulitzer-winning author for *The Making of The Atomic Bomb* and in 2004 author of *John James Audubon*
Ed Rice, Ph.D. student, Paleogenomics Lab, Biomolecular Engineering Department, University of California, Santa Cruz
Tonie Rocke, Research Epizootiologist, Field & Lab Research, National Wildlife Health Center, USGS
Jean-Marie Rouillard, Co-founder and CSO, MYcroarray (genome synthesis)
Oliver Ryder, Director of Genetics, San Diego Zoo Institute for Conservation and Research
Royden Saah, Program Manager, Genomic Biocontrol of Invasive Rodents Program, Island Conservation
Ronald Sandler, Professor of Philosophy, Chair, Department of Philosophy and Religion, Northeastern University
Dennis Schmitt, Chair of Veterinary Services and Director of Research, Ringling Bros. Center for Elephant Conservation

Ed Schulak, Biotechnology Investor

Mary Schweitzer, Professor of Marine, Earth and Atmospheric Sciences, North Carolina State University (Ancient DNA)

Philip Seddon, Director of the Postgraduate Wildlife Management Programme, Department of Zoology, University of Otago, New Zealand

Megan Serr, Ph.D. Candidate in Zoology at North Carolina State University and NSF IGERT Fellow, Genetic Engineering & Society

Beth Shapiro, Associate Professor, Ecology and Evolutionary Biology, University of California Santa Cruz

Jo Anne Shatkin, Ph.D., President, Vireo Advisors, LLC

Rebecca Shaw, Senior Vice President and Chief Scientist at World Wildlife Fund

Jacob Sherkow, Associate professor at New York Law School, Affiliated Faculty, Institute for Information Law and Policy

Jamie Shreeve, Senior Science Editor, National Geographic Magazine

Lee Skerratt, IUCN Wildlife Health Specialist Group, Centre for Biosecurity in Tropical Infectious Diseases, James Cook University, Australia

Andrea Smidler, Ph.D student, Department of Genetics, Harvard University

Craig Smith, Associate Professor, Group Leader, Comparative Development and Evo-Devo Laboratory, Department of Anatomy and Developmental Biology, Monash University

André Elias Rodrigues Soares, biologist with a doctorate in genetics; bioinformatics, UCSC Paleogenomics Lab

Michael Specter, Staff Writer, The New Yorker

Tammy Steeves, Senior Lecturer, Conservation and Evolutionary Genetics, University of Canterbury

Michael Steinberg, Associate Professor of Geography and Interdisciplinary Environmental Studies at the University of Alabama.

James Tate, Senior Fellow for Ecological Economics and Ethics at the Potomac Institute for Public Policy and a Research Associate at the Smithsonian Institution's Migratory Bird Center

Stanley Temple, Professor Emeritus, University of Wisconsin-Madison

David Threadgill, Director, Whole Systems Genomics Initiative, Texas A&M University

Ronald Thresher, Scientist, CSIRO, Wealth from Oceans Research Flagship, Australia

Tierney Thys, Marine Biologist, National Geographic Emerging Explorer

Mark Tizard, Genome Engineering Team, CSIRO Biosecurity Flagship, Australian Animal Health Laboratory

Dan Tompkins, Portfolio Leader, Managing Invasives, Landcare Research

Will Turner, Vice President of Conservation Priorities and Outreach, Conservation International

Marcela Uliano da Silva, Ph. D. student, Federal University of Rio de Janeiro

Alison Van Eenennaam, Ph.D. – Cooperative Extension Specialist, Animal Genomics and Biotechnology, U.C. Davis

Frans Vera, Founder, Oostvaardersplassen and Director, Foundation Natural Processes

Michelle Verant, Veterinarian, Postdoctoral Research, School of Veterinary Medicine, University of Wisconsin-Madison.

Vance Vredenburg, Associate Professor, Department of Biology, San Francisco State University

Renee Wegrzyn, Program Manager, DARPA Biological Technologies Office

Bob Wiese, Chief Life Sciences Officer, San Diego Zoo Global

Evelyn Wight, Senior Communications Manager, The Nature Conservancy of Hawai'i

Margaret Wild, Chief Wildlife Veterinarian, National Park Service, Biological Resources Division, Wildlife Health Branch

Matt Winkler, Chairman & Founder of Asuragen, Revive & Restore board member

Thierry Work, Wildlife Disease Specialist, National Wildlife Health Center, USGS

Cindy Wu, Co-founder & CEO, Experiment.com

Luhan Yang, postdoc in the George Church Lab (Woolly Mammoth)

Tanja Zabka, Veterinary Pathologist, Safety Assessment Group, Genentech

Gintas Zavadzkas, Fish and Wildlife Director, Miccosukee Tribe of Florida

Guojie Zhang, Associate Director of Scientific Development, BGI-Shenzhen

Carl Zimmer, Independent journalist and author

Sergey Zimov, Director, Northeastern Science Station of Cherskii (Pleistocene Park)

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