ZSL Science & Conservation Events: Symposium 24th – 25th April 2019

Mitigating single pathogen and co-infections that threaten amphibian biodiversity

DAY 1: WEDNESDAY 24th APRIL 2019	
09:30	**Welcome by Trent Garner, Zoological Society of London**
	SESSION 1 Amphibians under threat, infectious disease and distributions **Chair: Trent Garner, Zoological Society of London**
09:40	**Phil Bishop, Amphibian Survival Alliance, Amphibian Specialist Group & University of Otago** The global effort to conserve amphibians under threat
10:05	**Reid Harris, Amphibian Survival Alliance & James Madison University** The Amphibian Conservation Action Plan for Emerging Infectious Diseases
10:30	**TEA & COFFEE BREAK**
11:00	**Matthew Gray, University of Tennessee** Ranavirus Invasions: 50 years of research – now let's do something about it!
11:25	**Trent Garner, Zoological Society of London** *Batrachochytrium dendrobatidis:* the first chytrid threat and source of coinfections
11:50	**An Martel and Frank Pasmans, Ghent University** Bsal: translating basic science in mitigation actions
12:15	**Deanna Olson, USDA Forest Service** Mapping the spatial distribution of chytrids and ranaviruses
12:40	**DISCUSSION**
13:10	**LUNCH**
	SESSION 2 Impacts, interactions and co-occurrences **Chair: Xavier Harrison, University of Exeter**
14:10	**Richard Griffiths, Durrell Institute of Conservation and Ecology, University of Kent** Amphibian trade and disease
14:35	**Matthew Fisher, Imperial College London and** **Stephen Price, Zoological Society of London & University College London** Using pathogen genomics to track introductions through trade
15:00	**Ben Scheele, Australian National University** Living with the enemy: Coexistence of a highly susceptible frog species with chytrid fungus
15:25	**TEA & COFFEE BREAK**
15:55	**Jason Hoverman, Purdue University** Environmental influences on ranavirus transmission and disease risk in amphibians
16:20	**Ana V. Longo, University of Florida** Pathogenic potential of chytrid co-infections in North American salamanders
16:45	**Annemarieke Spitzen, RAVON** What makes a small country big: the ubiquitousness of amphibian pathogens in the Netherlands
17:10	**DISCUSSION**
17:40	**DRINKS RECEPTION & POSTER SESSION**
18:45	**SYMPOSIUM DINNER**

	DAY 2: THURSDAY 25th APRIL 2019
	SESSION 3 Mitigating infectious disease I: Decision making and manipulations **Chair: Andy Fenton, University of Liverpool**
09:30	**Stefano Canessa, Ghent University** Decision making for mitigating amphibian diseases
09:55	**Erin Muths, U.S. Geological Survey** Amphibian translocations when disease threat remains
10:20	**TEA & COFFEE BREAK**
10:50	**Cherie Briggs, University of California, Santa Barbara** Understanding transmission dynamics to identify mitigation targets
11:15	**Benedikt R. Schmidt, Info Fauna Karch & University of Zurich, Switzerland** Mitigating chytridiomycosis: an experimental approach
11:40	**DISCUSSION**
12:10	**LUNCH**
	SESSION 4 Mitigating infectious disease II: Microbiomes, immunogenetics and natural recovery **Chair: Matthew Fisher, Imperial College London**
13:10	**Xavier Harrison, University of Exeter and** **Molly Bletz, University of Massachusetts** Manipulating microbiomes in multihost and multipathogen systems
13:35	**Jacques Robert, University of Rochester Medical Center** Host immunity to ranavirus and chytrid fungal pathogens
14:00	**Pieter Johnson, University of Colorado** Understanding multi-host, multi-pathogen infections and coinfections within California amphibian communities
14:25	**TEA & COFFEE BREAK**
14:55	**Roland Knapp, University of California, Santa Barbara &** **Sierra Nevada Aquatic Research Laboratory** Natural recovery of endangered frogs in the presence of Bd as a guide for active conservation measures
15:20	**Corinne Richards-Zawacki, University of Pittsburgh** Long-term monitoring reveals hope for recovery of Panamanian amphibian communities after a chytridiomycosis epizootic
15:45	**DISCUSSION**
16:15	**END OF SYMPOSIUM**