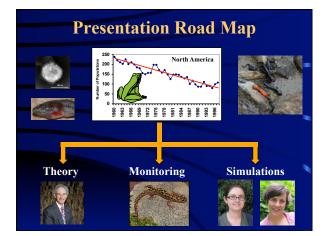
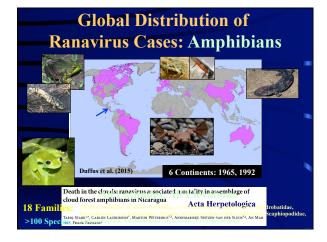
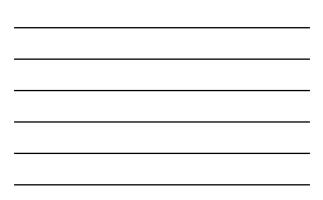
Ranaviruses: Do they represent a real threat?		
<u>10 int</u>	Current State	
Matthew J. Gray		
	University of Tennessee Center for Wildlife Health Department of Forestry, Wildlife and Fisheries 23 March 2016, 9:00 AM, Zoom Link Global Ranavirus Consortium Course	

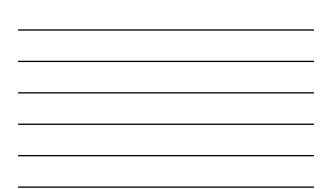








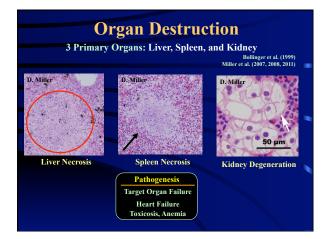




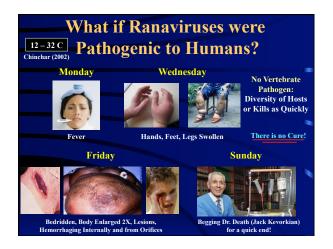


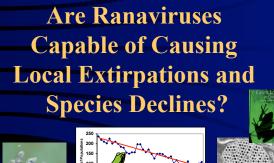


Hoverman et al. (2011a)















Traditional Theory (Anderson and May 1979)



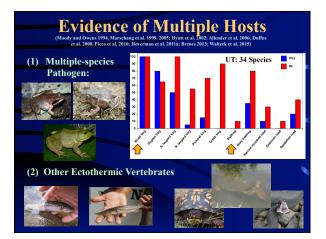
Extirpation is possible if:

Frequency Dependent

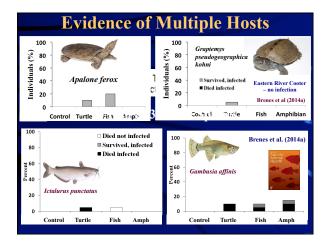
(1)Multiple Host Species Where Susceptibility Differs

Is at least one of these conditions satisfied in the ranavirus-host system?

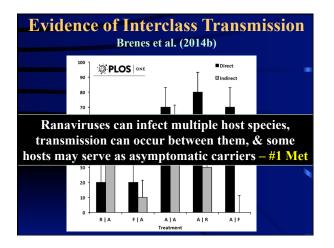
- Survive Outside Host
- (3) Clustering of Individuals
 - Sexually transmitted disease



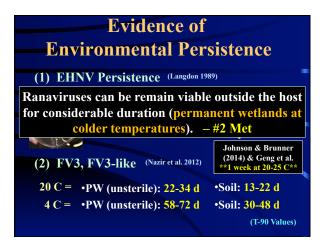


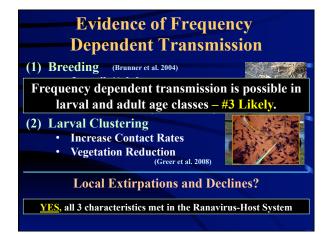






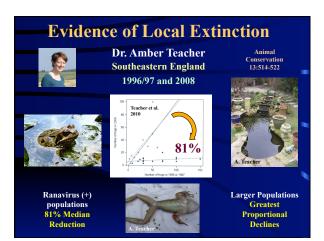




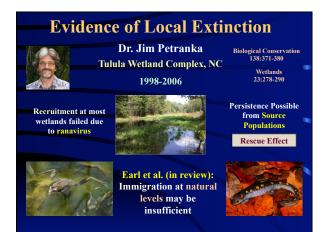


Evidence of Local Extinction		
	Dr. Stephen Price University College London	Current Biology 24:2586-2591
	Picos de Europa National Park 2007-2012	Ranavirus die-offs with six species
	Alytes obstetricans	
420 420 140 0 0 0 0 0 0 0 0 0 0 0 0 0		Ercina Lake











Ranavirus Landscape Prevalence			
n = 40 ponds 2 years, 4 seasons	Hoverman et al. (2011b)		
Ranaviruses are widely distributed hence have the potential to have landscape scale impacts.			
Ranavirus Distribution: 83% of Ponds Sampled			
Hotspots: ≥40	% in 15 out of 40 Ponds Sampled		
EcoHealth	85% Infection 100% Infection (morbid and dead)		



