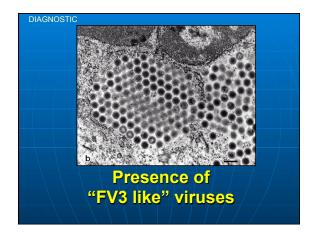
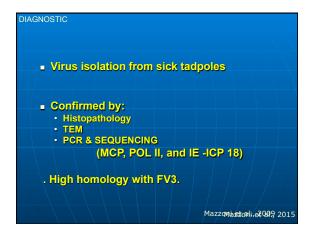
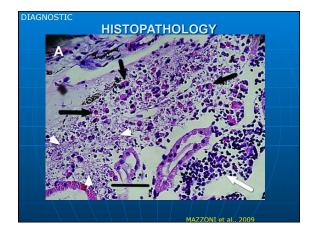


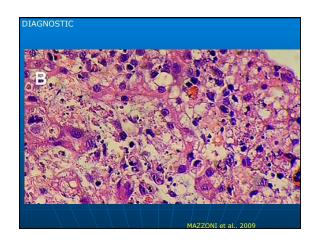
DIAGNOSTIC	
TADPOLES	
■ Galli et al. 2006	
■ Virus detection in sick tadpoles	
■ PCR (MCP & IE - ICP 18)	
High homology with FV3	

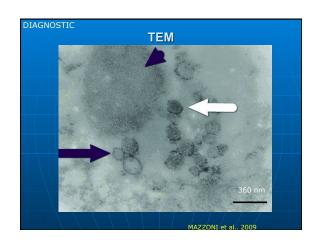




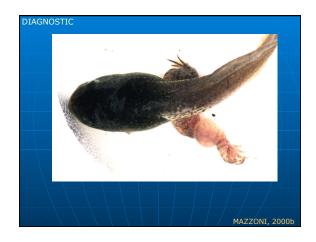






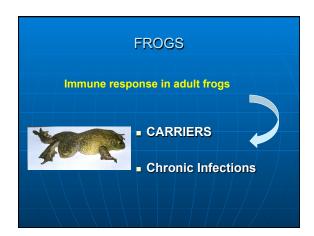












	FRO	OGS	
Positive percentage	entage (qPCR)	for RVs in far	med bullfrogs
	Farm	% positive	
	<b>01</b> (40 samples)	15	
	<b>02</b> (45 samples)	35	
	03 (150 samples)	100	

### FROGS – Syndrome # 3

- Lethargy
- Edemas
- Ascites
- Hemorrhages
- Eosinophilia



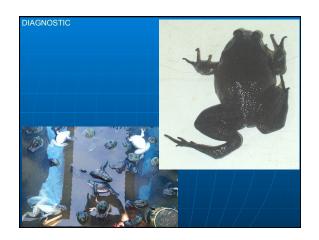




# FROGS – Syndrome # 4 • ABNORMAL POSTURES • Vestibular or Labyrinthine syndrome • CHRONIC







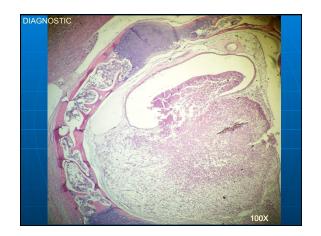


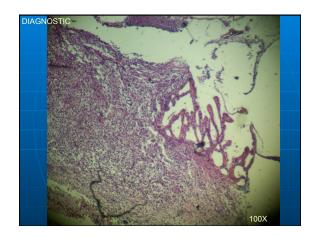




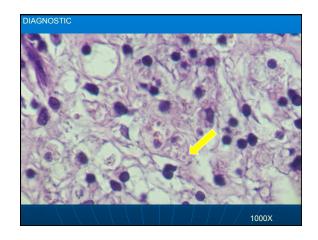


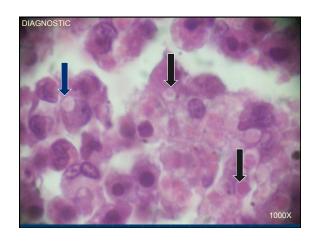


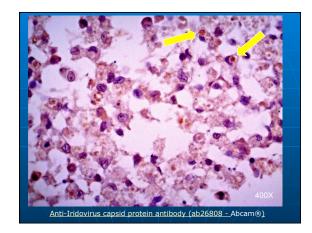


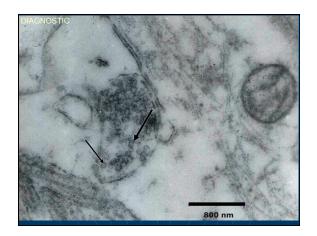


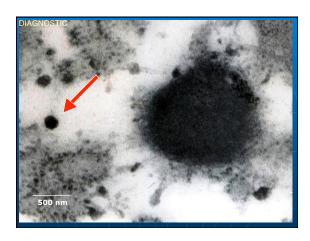


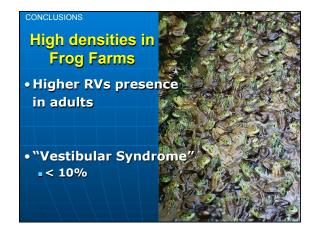












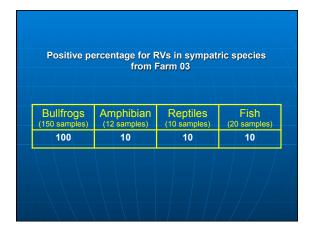
## EMERGING QUESTIONS

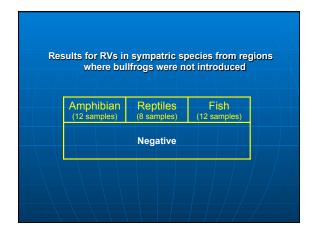
- FV3 in American Bullfrogs
  - INTRODUCED

or

- South-American Virus
- Frog farms shed virus to the environment?
- Pathogenic to other aquatic organisms?

<ul> <li>Ranavirus surveillance in Brazil:</li> </ul>			
Farmed American bullfrogs			
Surrounding areas			
Other areas			
■ METHOD	\ \ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
• REAL TIME PCR			
REAL TIME FOR			
• TARGET SEQUENCE = MCP			
Positive percentage for RVs in farmed by	ullfrogs	-	
Farm % positive			
01 15 (40 samples)			
02 35			
(45 samples) 03 100			
(150 samples)			 





DISEAS	SE REPOR	TS IN FARMED	FROGS
			1555
	Farm		
	01	Sporadic outbreak (once)	
	02	No outbreak	
	03	100% mortality in tadpoles	



#### FUTURE RANAVIRUS RESEARCH DIRECTIONS

- Surveillance on the presence of ranavirus in:
  - Introduced farmed American bullfrogs
  - Areas where American bullfrogs were introduced
  - Other areas
  - Compare isolates
- Characterization of South American ranaviruses

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