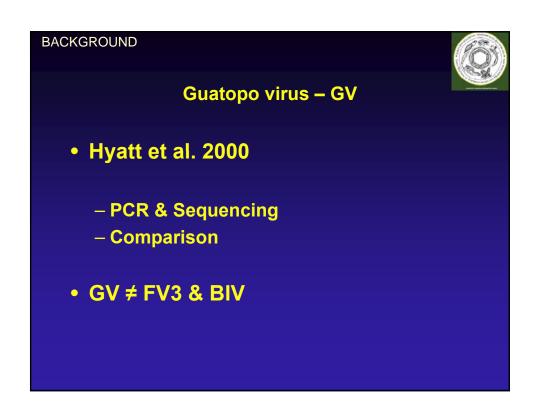


• FEW REPORTS - Zupanovic et al. 1998 - Galli et al. 2006 - Fox et al. 2006 - Mazzoni et al. 2009

VENEZUELA • Zupanovic et al. 1998 - Venezuela (Guatopo virus – GV) - Bufo marinus & Leptodactylus (free ranging) - Serology - Virus isolation - SDS-Page - Molecular methods - TEM



BACKGROUND



Argentina

- Fox et al. 2006
- Atelognathus patagonicus
- Mortality event
- PCR (MCP)
- 100% similarity with FV3

BACKGROUND

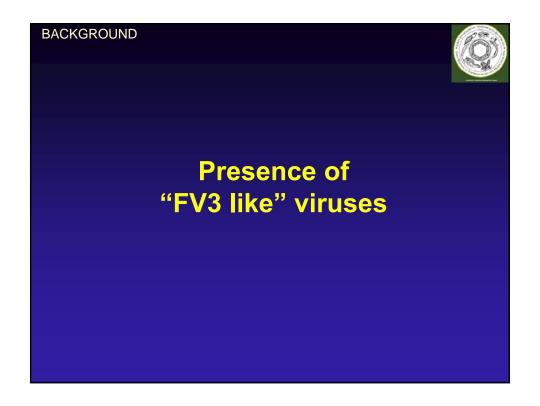


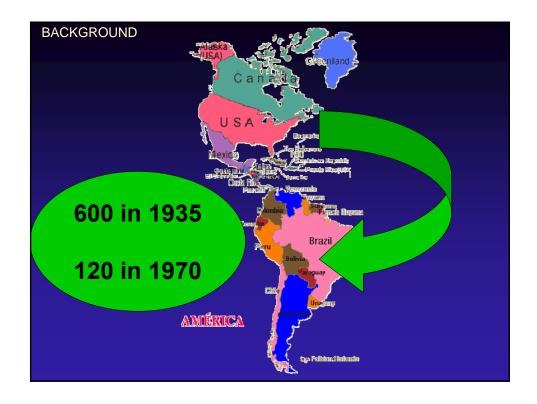
Uruguay

- Galli et al. 2006
- Rana catesbeiana
 - Sick tadpoles (farmed)
- PCR (MCP & IE ICP 18)
 - High homology with FV3

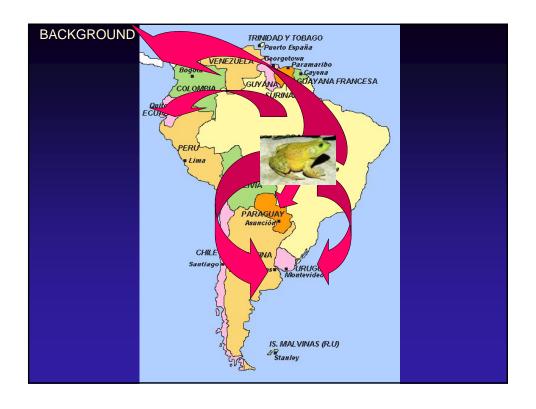
Brazil Mazzoni et al. 2009 Rana catesbeiana Virus isolation from sick tadpoles (farmed) Confirmed by: Histopathology TEM PCR & SEQUENCING (MCP, POL II, and IE -ICP 18)

. High homology with FV3.



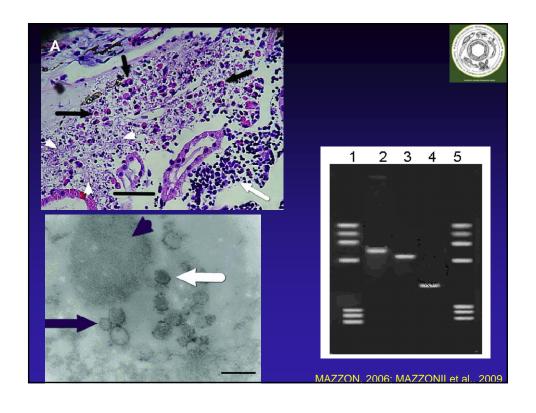




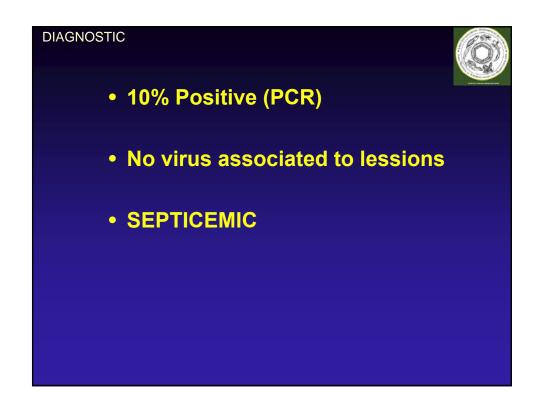


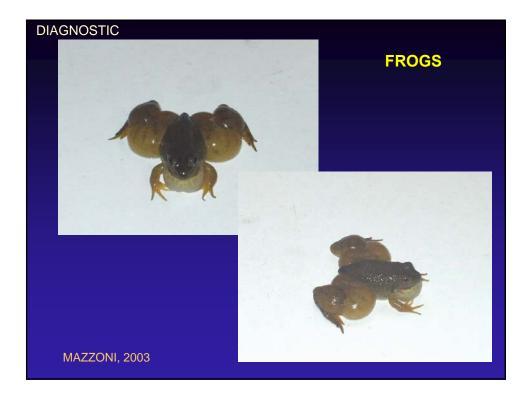


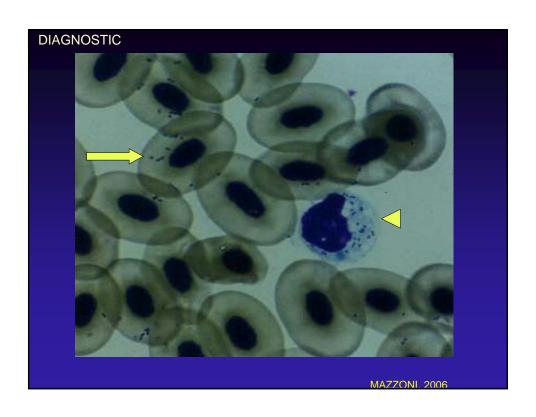


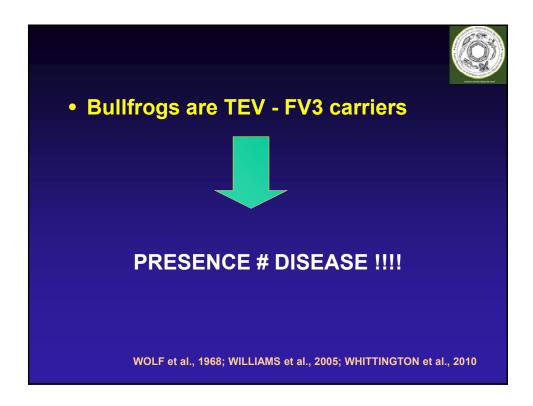












QUESTIONS



- FV3 in American Bullfrogs
 - INTRODUCED
 - South-American Virus
- Pathogenic to other Aquatic Organisms?
- Do amphibians co-evolve with RVs?



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
- Challenge studies in native aquatic organisms?

