

AVIAN SALMONELLOSIS OF INTEREST TO POULTRY PRODUCTION AND  
PUBLIC HEALTH.



**ANGELO BERCHIERI JUNIOR**  
**FCAV-Unesp, Jaboticabal-SP**  
e-mail: [angelo.berchieri@unesp.br](mailto:angelo.berchieri@unesp.br)

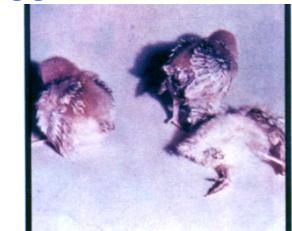


London, 2019

# Avian Salmonellosis



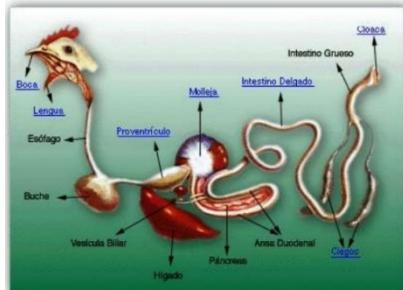
## Pullorum disease – *S. Gallinarum* biovar Pullorum



## Fowl typhoid - *S. Gallinarum* biovar Gallinarum



## Paratyphoid infection – Any other than SP and SG.



# Line of researches



## Relationship between bacteria and host

### Intestinal colonization



### Defectives mutants preparation

*Salmonella* serovars **Typhimurium**  
**Enteritidis**  
**Heidelberg**

*Salmonella* spp.  $\Delta ttrA \Delta pduA$

Cols.:

Paul Barrow. Nottingham University

O. C. de Freitas Neto. Fed Univ. MG

Post-doctor  
Students

\**Thematic Fapesp*

# APPROACHES



FAPESP WEEK  
LONDON

## Methodology - *In vivo* assays

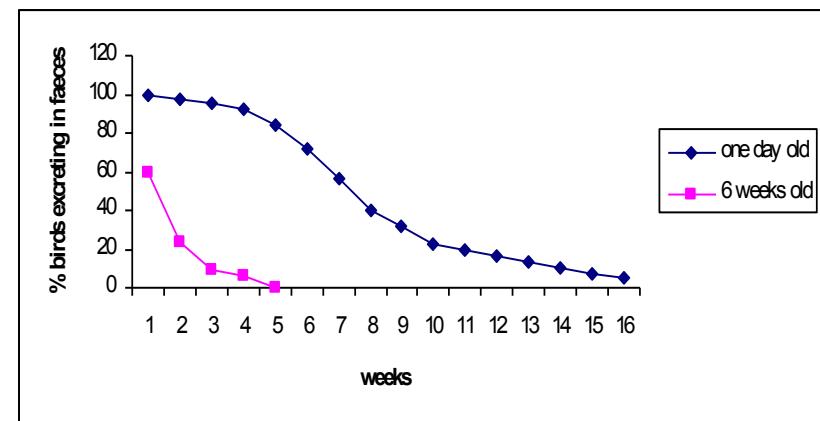
Fecal excretion (cloacal swabs)

Cecal colonization

Systemic infection (liver and spleen)



Assessment:  
Loss of function  
Day-old birds



# LINE OF RESEARCHES



## *Salmonella* Heidelberg Antimicrobial and genotypic profile.

ERIC, REP, BOX-PCR and PFGE

Cols.:

Monique Ribeiro Tiba Casas . Inst. Adolfo Lutz-SP

Post-doctor

Students



# Detection and antibiotic resistance profile of *Salmonella* spp. in laying hens



Cols.:

**Monique Ribeiro Tiba Casas. Inst. Adolfo Lutz-SP**

**Nilce Maria Queiroz. Instituto Biológico-SP**

**Elisabete A. Lopes Guastalli . Inst. Biológico-SP**

**Students**

**Post-doctor**

## LINE OF RESEARCHES



**SG x fresh macrophages *in vitro***

cols.: John Elmerdahl Olsen. University of Copenhagen - DK

**Assessment of commercial products to control  
*Salmonella* spp.**





FAPESP WEEK  
LONDON



*Thanks for your  
attention*

**ANGELO BERCHIERI JUNIOR**  
FCAV-Unesp, Jaboticabal-SP  
e-mail: [angelo.berchieri@unesp.br](mailto:angelo.berchieri@unesp.br)

