



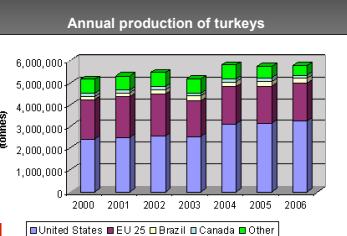
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## Aspergillosis in breeding turkeys: from experimental infections... ...to field investigations



ISHAM  
Tokyo

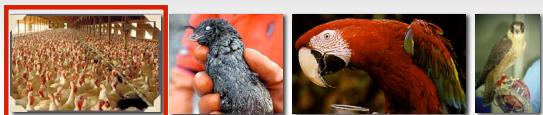
### Introduction



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- aspergillosis in a very wide range of avian species...
- of utmost importance in turkeys



### Experimental models

#### In different avian species

##### in chickens

Fadi Elmula et al. 1984; O'Meara & Chute, 1959; Taylor & Burroughs, 1973; Van Cutsem, 1983

##### in starlings

Atasaver & Güümüşsoy, 2004

##### in ducks

Graczyk et al., 1998

##### in Japanese quails

Chaudhary & Sadana, 1988; Güümüşsoy et al. 2004; Olson, 1969

##### in pigeons

Van Cutsem et al., 1989; Beernaert et al., 2008

##### in ostriches

Walker, 1915

##### in turkeys

Kunkle & Rimpler, 1996; Kunkle & Sacco, 1998; Kunkle et al., 1999; Redig, 1986;  
Richard et al., 1981; Richard & Thurston, 1983; Richard et al., 1991; Féménia et al. 2007

### Experimental models

#### In different avian species

#### With different protocols

##### inoculation routes

inoculation in the thoracic air sac, in the lungs, in the trachea  
inhalation models

with or without immunosuppression

#### With different objectives...

- to study host-pathogen interactions
- to develop diagnostic tools
- to test the efficacy of antifungal drugs
- to evaluate vaccines...

