

## Accepted Manuscript

Title: Transmission and pathogenicity of *Gallibacterium anatis* and *Escherichia coli* in embryonated eggs

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PII: S0378-1135(18)30014-2  
DOI: <https://doi.org/10.1016/j.vetmic.2018.03.005>  
Reference: VETMIC 7898

To appear in: *VETMIC*

Received date: 4-1-2018  
Revised date: 1-3-2018  
Accepted date: 9-3-2018

Please cite this article as: Wang C, Pors SE, Olsen RH, Bojesen AM, Transmission and pathogenicity of *Gallibacterium anatis* and *Escherichia coli* in embryonated eggs, *Veterinary Microbiology* (2010), <https://doi.org/10.1016/j.vetmic.2018.03.005>

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**Transmission and pathogenicity of *Gallibacterium anatis* and *Escherichia coli* in embryonated eggs.**

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## Highlights

- Avian associated *E. coli* are highly capable of trans-egg shell transmission
- *Gallibacterium anatis* can transmit through trans-egg shell transmission but at low frequency
- *Gallibacterium anatis* is highly embryo-toxic

## Abstract

In laying hens, *Escherichia coli* (*E. coli*) and *Gallibacterium anatis* (*G. anatis*) are considered the two major pathogens causing reproductive tract disorders, either as single infections or as co-infections. Vertical transmission has been confirmed for *E. coli* but remains to be clearly

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