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# Lipids droplets are induced by hypoxia in avian skin cells in vitro and their targeting by Marek's Disease Virus is linked to virulence

Corentin Mallet, David Pasdeloup, Katia Guyader, Julien Pichon, Caroline Denesvre

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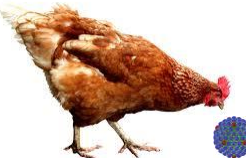
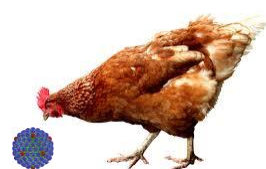
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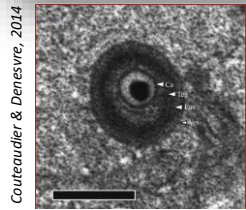
# Lipids droplets are induced by hypoxia in avian skin cells *in vitro* and their targeting by Marek's Disease Virus is linked to virulence

Corentin Mallet<sup>1</sup>, David Padeloup<sup>1</sup>, Katia Guyader<sup>1</sup>, Julien Pichon<sup>2</sup> and Caroline Denesvre<sup>1</sup>

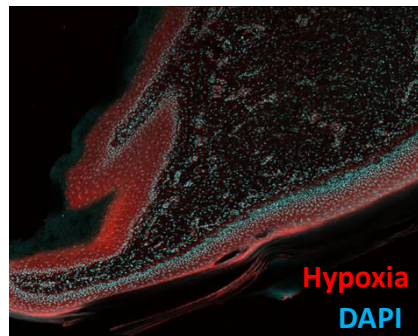
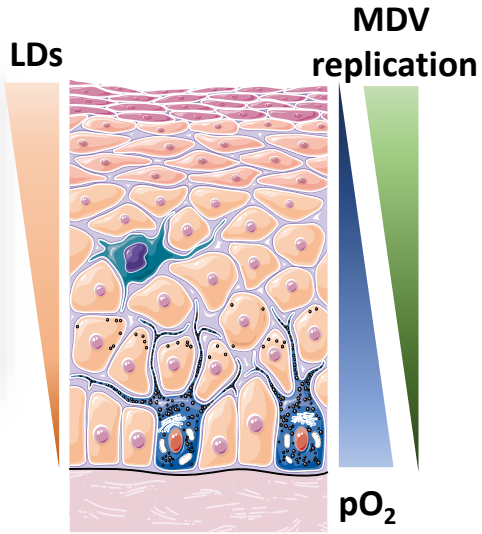
- (1) Biology of Avian Viruses (BioVA), UMR 1282 ISP, INRAE, Nouzilly, France
- (2) Imaging and Infectiology platform (IMI), UMR 1282 ISP, INRAE, Nouzilly, France



# Gallus Gallus



Couteaudier & Deresvire, 2014

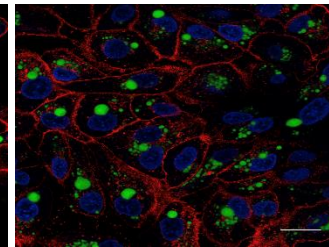
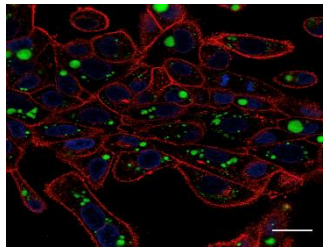


Chicken skin

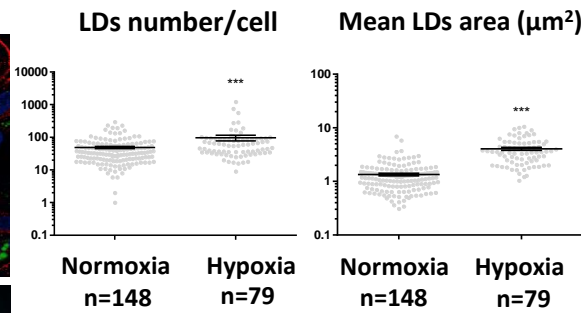
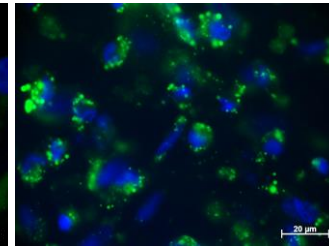
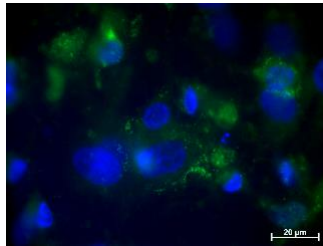
## Normoxia

## Hypoxia

Keratinocytes



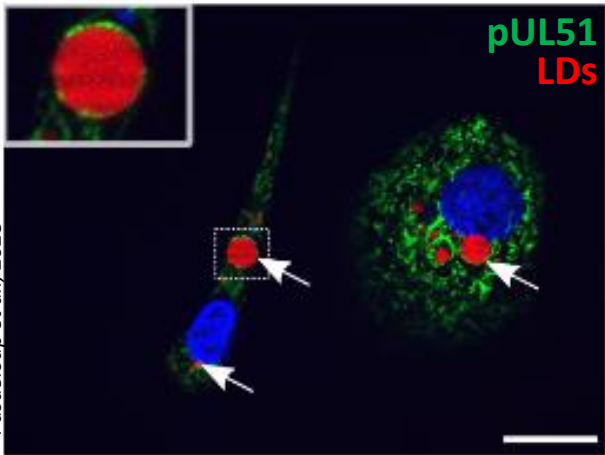
Fibroblasts



Wheat germ agglutinin (WGA)  
LDs  
DAPI

# Gallid Herpesvirus 2 (Marek's Disease Virus)

## UL51TAP (mutant)



Pasdeloup et al., 2023

pUL51 localization

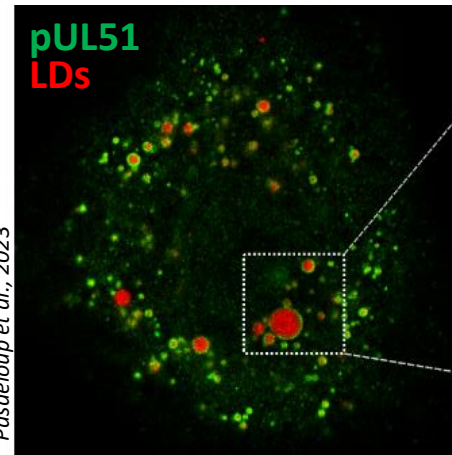


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## UL51-SHA (WT)



Pasdeloup et al., 2023

pUL51 localization



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Virulence:

