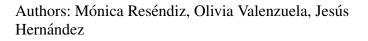
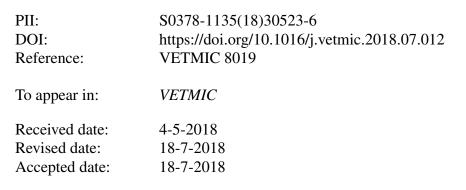
## Accepted Manuscript

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# ACCEPTED MANUSCRIPT

#### Response of the cDC1 and cDC2 subtypes of tracheal dendritic cells to porcine reproductive

#### and respiratory syndrome virus

Mónica Reséndiz<sup>a</sup>, Olivia Valenzuela<sup>b</sup> and Jesús Hernández<sup>a</sup>\*

<sup>a</sup>Laboratorio de Inmunología, Centro de Investigación en Alimentación y Desarrollo, A.C.

Carretera a la Victoria km 0.6 C.P. 83304, Hermosillo, Sonora México.

<sup>b</sup>Departamento de Ciencias Químico Biológicas, Universidad de Sonora, 83000, Hermosillo,

Sonora, México.

#### \*Corresponding author: jhdez@ciad.mx

Highlights

- - cDC1 and cDC2 subtypes of cDCs from the trachea were exposed to PRRSV.
- - A differential cytokine and TLR mRNA expression was observed in response to PRRSV, and cDC1 and cDC2 were not susceptible to PRRSV infection
- - PRRSV did not infect *bona fide* cDCs, but could differentially modulate the cytokine and TLR expression

### Abstract

Porcine reproductive and respiratory syndrome virus (PRRSV) is the most important disease affecting the swine industry worldwide. Although monocytes and macrophages, especially tissue-resident and alveolar macrophages, are the primary target of PRRSV, monocyte- and bone marrow-derived dendritic cells (DCs) are also susceptible to PRRSV infection. It has been shown that lung DCs cannot be infected with PRRSV, but the response and susceptibility of *bona fide* conventional DC subtypes (cDCs; cDC1 and cDC2) is unknown. In this work, evaluation of the response of

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