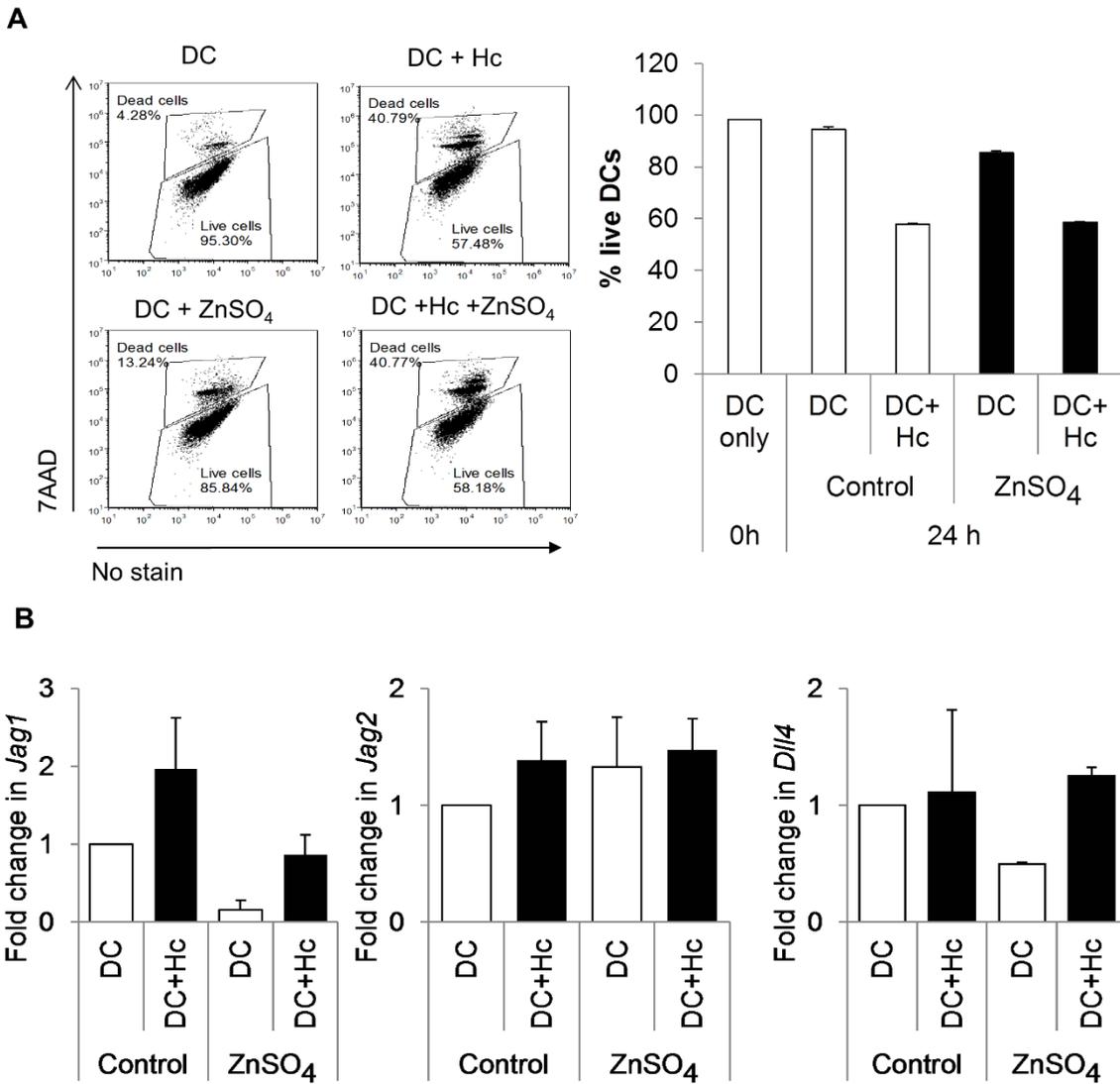


1 **Supplementary figures**

2 **Supplementary Figure 1:**



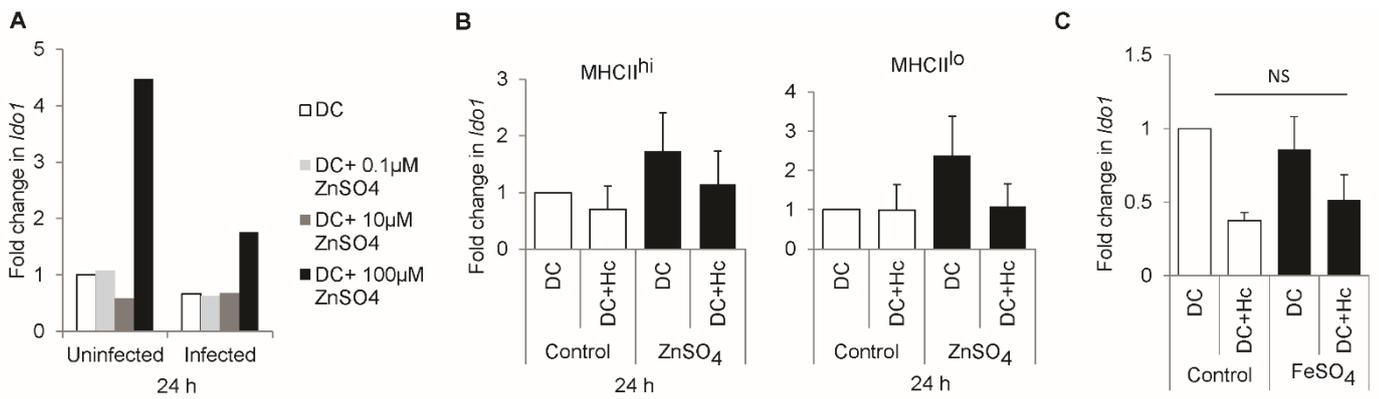
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5 **Supplementary Figure 1: DC viability and expression of notch ligands in Zn**  
6 **treated DCs**

7 **A)** Dot plots of DCs stained with 7AAD, values represent percent 7AAD<sup>+</sup> cells 24 h  
8 post Zn treatment, bar graph of percent live DCs at 0 h and 24 h post culture. 1  
9 experiment, data are mean ± SEM; and **B)** Fold change in *Jag1*, *Jag2* and *Dll4*  
10 expression with 100 μM ZnSO<sub>4</sub> normalized to DC control, 1 experiment.

11 **Supplementary Figure 2:**



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13 **Supplementary Figure 2: Ido expression in Zn treated DCs**

14 **A)** Fold change in *Ido1* expression with 0.1, 10 and 100 μM ZnSO<sub>4</sub> in uninfected and  
 15 infected states 1 experiment; **B)** Fold change in *Ido1* expression in MHCII<sup>hi</sup> DCs (1  
 16 experiment) and MHCII<sup>lo</sup> DCs (3 independent experiments) 24 h post ZnSO<sub>4</sub>  
 17 treatment and infection normalized to control DC group; and **C)** Fold change in *Ido1*  
 18 expression in control and 100 μM FeSO<sub>4</sub> treated DCs with or without *H. capsulatum*  
 19 infection for 24 h normalized to control DC group, 3 independent experiments, data  
 20 presented as mean fold change in expression ± SEM, NS, not significant by one-way  
 21 ANOVA.

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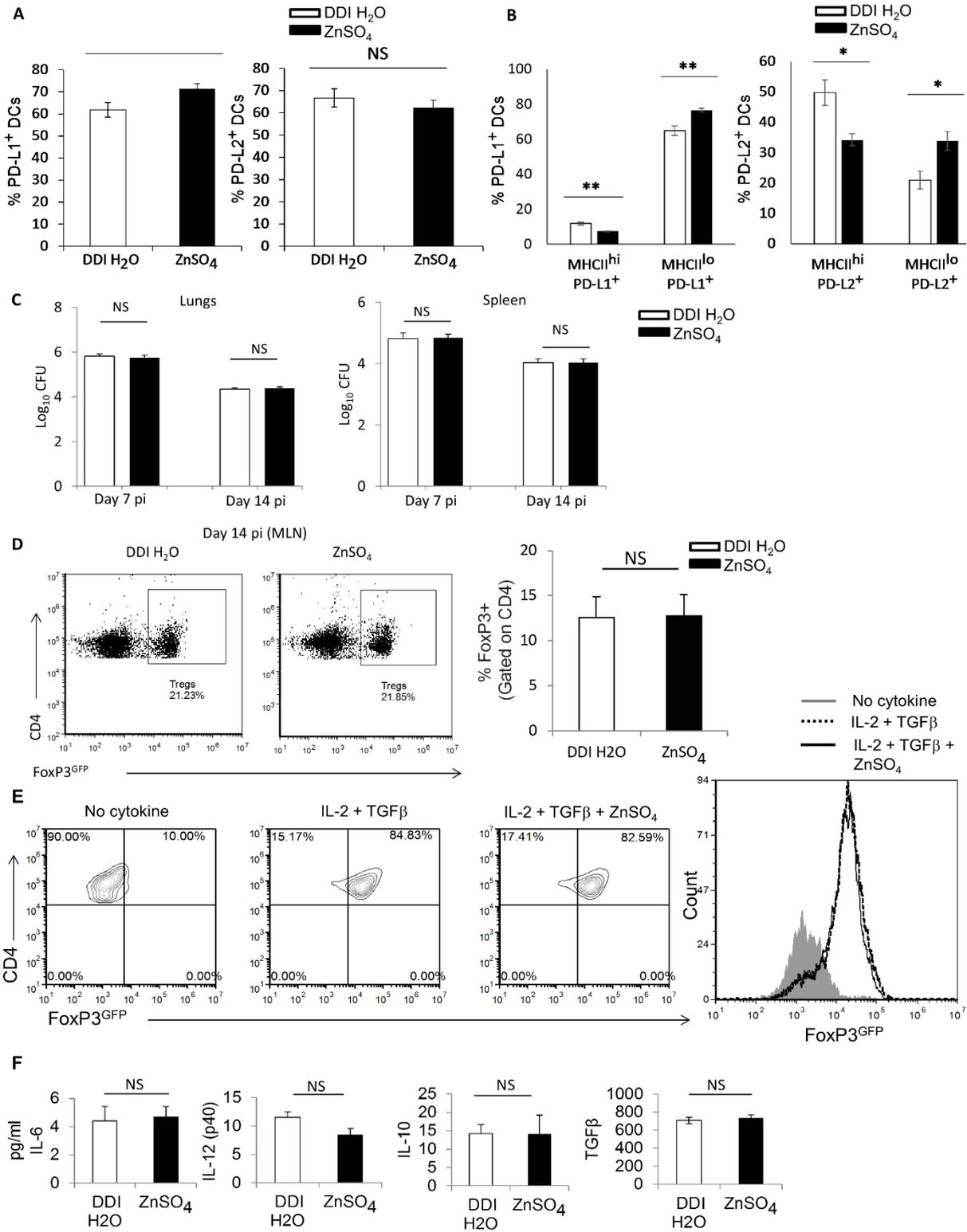
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31 **Supplementary Figure 3:**



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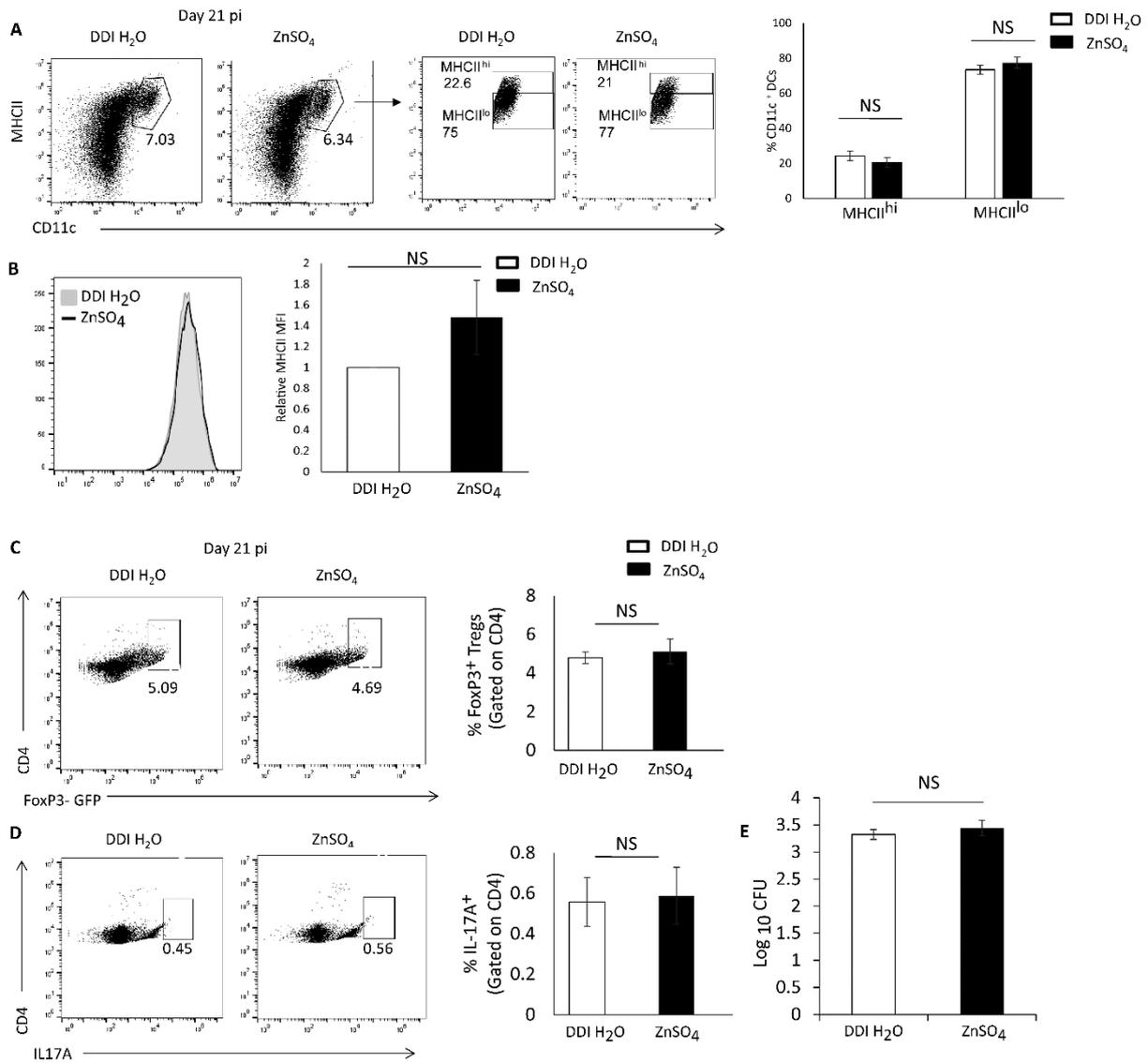
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35 **Supplementary Figure 3: Effect of Zn on DC tolerogenicity and fungal burden**  
36 ***in vivo* and Treg differentiation *in vitro***  
37 **A)** Graphical representation of total % PD-L1<sup>+</sup> and PD-L2<sup>+</sup> DCs in lungs of DDI H<sub>2</sub>O  
38 and ZnSO<sub>4</sub> treated mice on day 14 *p.i.* (n=6 mice per group); **B)** Percent of PD-L1<sup>+</sup>  
39 and PD-L2<sup>+</sup> DCs (gated on MHCII<sup>hi</sup> CD11c<sup>+</sup> and MHCII<sup>lo</sup> CD11c<sup>+</sup>) in lung leukocytes  
40 of DDI H<sub>2</sub>O and ZnSO<sub>4</sub> treated mice on day 14 *p.i.* (n=6 mice per group); **C)** Fungal  
41 burden in lungs and spleens on days 7 and 14 *p.i.* in DDI H<sub>2</sub>O and ZnSO<sub>4</sub> treated  
42 mice, (n=8 mice per group); **D)** Dot plots of percent FoxP3<sup>+</sup> Tregs gated on CD4<sup>+</sup>  
43 cells in mediastinal lymph nodes, bar graph of percent FoxP3<sup>+</sup> Tregs day 14 *p.i.* in  
44 MLN in DDI H<sub>2</sub>O and ZnSO<sub>4</sub> treated mice, (n=8 mice per group); **E)** Percent  
45 CD4<sup>+</sup>FoxP3<sup>+</sup> T cells in *in vitro* cultures left untreated, or treated with IL-2 + TGFβ or  
46 with IL-2 + TGFβ + 100 μM ZnSO<sub>4</sub> and histogram showing MFI of FoxP3 in these  
47 groups; and **F)** IL-6 and IL-12 (p40), IL-10 and TGFβ protein levels in lung  
48 homogenates of DDI H<sub>2</sub>O and ZnSO<sub>4</sub> treated mice on day 14 *p.i.*, (n=4 mice per  
49 group), data expressed as mean ± SEM, Student's t test, \* *p* < 0.05; \*\* *p* < 0.01.

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60 **Supplementary Figure 4:**



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63 **Supplementary Figure 4: *In vivo* proportions of MHCII<sup>hi</sup> and MHCII<sup>lo</sup> DCs, Tregs,**  
 64 **Th17 cells and fungal burden in lung leukocytes of Zn treated mice 21 days**  
 65 **post infection**

66 **A)** Dot plots and bar graph of percent CD11c<sup>+</sup> MHCII<sup>+</sup> DCs in lung leukocytes on day  
 67 21 *p.i.* DC gate subdivided into MHCII<sup>hi</sup> and MHCII<sup>lo</sup> populations; **B)** Histograms  
 68 showing MHCII MFI in DCs. Relative MHCII MFI of ZnSO<sub>4</sub> treated mice normalized  
 69 to average MHCII MFI of DDI H<sub>2</sub>O control mice in lung leukocytes; **C)** Dot plots and

70 bar graph of percent FoxP3<sup>+</sup>Tregs in DDI H<sub>2</sub>O and ZnSO<sub>4</sub> treated mice on day 21  
71 *p.i.*; **D)** Dot plots and bar graph of percent Th17 cells in DDI H<sub>2</sub>O and ZnSO<sub>4</sub> treated  
72 mice on day 21 *p.i.* (n=6 mice per group), Data expressed as mean ± SEM; and **E)**  
73 Fungal burden in lungs of DDI H<sub>2</sub>O and ZnSO<sub>4</sub> treated mice on day 21 *p.i.* Data  
74 expressed as mean CFU ± SEM, (n=6 mice per group).

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