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**Peer Reviewed and Refereed Publications:**

1. Tang W, Mao J, Li KT, Walker JS, Chou R, Fu R, Chen W, **Darville T**, Klausner J, Dunbar K, Tucker JD. Pregnancy and fertility-related adverse outcomes associated with Chlamydia trachomatis infection: a global systematic review and meta-analysis. *Sex Transm Infect.* 2020 Aug;96(5):322-329. doi: 10.1136/sextrans-2019-053999. PMID: 31836678.
2. Amaral AF, Rahman KS, Kick AR, Cortes LM, Robertson J, Kaltenboeck B, Gerdts V, O'Connell CM, Poston TB, Zheng X, Liu C, Omesí SY, **Darville T**, Käser T. Mucosal Vaccination with UV-Inactivated Chlamydia suis Pre-Exposed Outbred Pigs Decreases Pathogen Load and Induces CD4 T-Cell Maturation into IFN- $\gamma$  + Effector Memory Cells. *Vaccines (Basel).* 2020 Jul 2;8(3):E353. doi: 10.3390/vaccines8030353. PMID: 32630694.
3. McQueen B, Kiatthanapaiboon A, Fulcher M, Lam M, Patton K, Powell E, Kollipara A, Madden V, Suchland R, Wyrick P, O'Connell CM, Reidel B, Kesimer M, Randell S, **Darville T**, Nagarajan U. A human fallopian tube epithelial cell culture model to study host responses to Chlamydia trachomatis infection. *Infection and Immunity.* 2020 Jun 29:IAI.00105-20. doi: 10.1128/1A1.00105-20. [Epub ahead of print]. PMID 32601108.
4. Dong L, Kollipara A, **Darville T**, Zou F, Zheng X. Semi-CAM: A semi-supervised deconvolution method for bulk transcriptomic data with partial marker gene information. *Sci Rep.* 2020 Mar 25;10(1):5434. doi: 10.1038/s41598-020-62330-2. PMID: 32214192; PMCID: PMC7096458.
5. Wiesenfeld HC, Meyn LA, **Darville T**, Macio IS, Hillier SL. A Randomized Controlled Trial of Ceftriaxone and Doxycycline, with or Without Metronidazole, for the Treatment of Acute Pelvic Inflammatory Disease. *Clin Infect Dis.* 2020 Feb 13:ciaa101. doi: 10.1093/cid/ciaa101. Epub ahead of print. PMID: 32052831.
6. Zhong W, Dong L, Poston TB, **Darville T**, Spracklen CN, Wu D, Mohlke KL, Li Y, Li Q, Zheng X. Inferring regulatory networks from mixed observational data using directed acyclic graphs. *Front Genet.* 2020 Feb 07;11:8. Doi: 10.3389/fgene.2020.00008. eCollection 2020 PMID 32127796.
7. Wiringa AE, Ness RB, **Darville T**, Beigi RH, Haggerty CL. Trichomonas vaginalis, endometritis and sequelae among women with clinically suspected pelvic inflammatory disease. *Sex Transm Infect.* 2019 Nov 12:sextrans-2019-054079. doi: 10.1136/sextrans-2019-054079. [Epub ahead of print]. PMID: 31719170.
8. Poston TB, Lee DE, **Darville T**, Zhong W, Dong L, O'Connell CM, Wiesenfeld HC, Hillier SL, Sempowski G, Zheng X. Cervical cytokines associated with *Chlamydia trachomatis* susceptibility and protection. *J Infect Dis.* 2019 Jun 19;220(2):330-339. doi: 10.1093/infdis/jiz087. PMID: 30820577.
9. **Darville T**, Albritton H, Zhong W, Dong L, O'Connell CM, Poston TB, Quayle AJ, Goonetilleke N, Wiesenfeld HC, Hillier SL, Zheng X. Anti-chlamydia IgG and IgA are insufficient to prevent

endometrial Chlamydia infection in women and increased anti-chlamydia IgG is associated with enhanced risk for incident infection. *Am J Reprod Immunol*. 2019 May;81(5):e13103. doi: 10.1111/aji.13103. PMID: 30784128.

10. Petrina MAB, Cosentino LA, Wiesenfeld HC, **Darville T**, Hillier SL. Susceptibility of endometrial isolates recovered from women from clinical pelvic inflammatory disease or histological endometritis to antimicrobial agents. *Anaerobe*. 2019 Apr;56:61-65. doi: 10.1016/j.anaerobe.2019.02.005. PMID: 30753898.
11. O'Connell CM, Brochu H, Girardi J, Harrell E, Jones A, **Darville T**, Seña AC, Peng X. Simultaneous profiling of sexually transmitted bacterial pathogens, microbiome, and concordant host response in cervical samples using whole transcriptome sequencing analysis. *Microb Cell*. 2019 Jan 24;6(3):177-183. doi: 10.15698/mic2019.03.672. PMID: 30854394.
12. Rahman KS, **Darville T**, Wiesenfeld HC, Hillier SL, Kaltenboeck B. Mixed *Chlamydia trachomatis* peptide antigens provide a specific and sensitive single-well colorimetric enzyme-linked immunosorbent assay for detection of human anti-*C. trachomatis* antibodies. *mSphere*. 2018 Nov 7;3(6). pii: e00484-18. doi: 10.1128/mSphere.00484-18. PMID: 30404936.
13. Zheng X, O'Connell CM, Zhong W, Poston TB, Wiesenfeld HC, Hillier SL, Trent M, Gaydos C, Tseng G, Taylor BD, **Darville T**. Gene Expression Signatures Can Aid Diagnosis of Sexually Transmitted Infection-Induced Endometritis in Women. *Front. Cell. Infect. Microbiol*. 20 September 2018. doi: 10.3389/fcimb.2018.00307. PMID: 30294592.
14. Rahman KS, **Darville T**, Russell AN, O'Connell CM, Wiesenfeld HC, Hillier SL, Lee DE, Kaltenboeck B. Comprehensive Molecular Serology of Human *Chlamydia trachomatis* Infections by Peptide Enzyme-Linked Immunosorbent Assays. *mSphere*. 2018 Aug 1;3(4). pii: e00253-18. doi: 10.1128/mSphere.00253-18. PMID: 30068559.
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16. Poston TB, O'Connell CM, Girardi J, Sullivan JE, Nagarajan UM, Marinov A, Scurlock AM, **Darville T**. T-independent IFN $\gamma$  and B cells Cooperate to Prevent Mortality Associated with Disseminated *Chlamydia muridarum* Genital Tract Infection. *Infect Immun*. 2018 Apr 16. pii: IAI.00143-18. doi: 10.1128/IAI.00143-18. PMID: 29661927.
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18. Taylor BD, Zheng X, O'Connell CM, Wiesenfeld HC, Hillier SL, **Darville T**. Risk factors for *Mycoplasma genitalium* endometritis and incident infection: a secondary data analysis of the T cell Response Against Chlamydia (TRAC) Study. *Sex Transm Infect*. 2018 Mar 21. pii:

sextrans-2017-053376. doi: 10.1136/sextrans-2017-053376. [Epub ahead of print] PMID: 29563165.

19. Zhong G, Brunham RC, de la Maza LM, **Darville T**, Deal C. National institute of allergy and infectious diseases workshop report: "Chlamydia vaccines: the way forward". *Vaccine*. 2017 Oct 30. pii: S0264-410X(17)31483-4. Doi 10.1016/j.vaccine.2017.10.075. [Epub ahead of print] PMID: 29097007.
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21. Poston TB, Gottlieb SL, **Darville T**. Status of vaccine research and development of vaccines for *Chlamydia trachomatis* infection. *Vaccine*. 2017 Jan 19; PMID: 28111145.
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24. Poston TB, **Darville T**. *Chlamydia trachomatis*: Protective Adaptive Responses and Prospects for a Vaccine. *Curr Top Microbiol Immunol*. 2016 Apr 1; PMID: 27033698.
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