

Last Updated July 2021

*Refereed Articles*

1. Zheng X, Zhong W, **O'Connell CM**, Liu Y, Haggerty CL, Geisler WM, Anyalechi GE, Kirkcaldy RD, Wiesenfeld HC, Hillier SL, Steinkampf MP, Hammond KR, Fine J, Li Y, Darville T. Host genetic risk factors for *Chlamydia trachomatis*-related infertility in women. *J Infect Dis*. 2021 Aug 16;224(Supplement\_2):S64-S71. doi: 10.1093/infdis/jiab149. PMID: 34396400; PMCID: PMC8365119.
2. Amaral AF, Rahman KS, Kick AR, Cortes LM, Robertson J, Kaltenboeck B, Gerdt V, **O'Connell CM**, Poston TB, Zheng X, Liu C, Omesi SY, Darville T, Käser T. Mucosal vaccination with UV-inactivated *Chlamydia suis* in 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 BE, Kiatthanapaiboon A, Fulcher ML, Lam M, Patton K, Powell E, Kollipara A, Madden V, Suchland RJ, Wyrick P, **O'Connell CM**, Reidel B, Kesimer M, Randell SH, Darville T, Nagarajan UM. A human Fallopian tube epithelial cell culture model to study host responses to *Chlamydia trachomatis* infection. *Infect Immun*. 2020 Jun 29; doi: 10.1128/IAI.00105-20. [Epub ahead of print] PubMed PMID: 32601108.
4. Poston, TB, Lee, DE, Darville, T, Zhong, W, Dong, L, **O'Connell, CM**, Wiesenfeld, HC, Hillier, SL, Sempowski, GD, and Zheng, X. (2019) Cervical cytokines associated with *Chlamydia trachomatis* susceptibility and protection. *J Infect Dis*. 2019 Jun 19;220(2):330-339. doi: 10.1093/infdis/jiz087. PubMed PMID: 30820577; PubMed Central PMCID: PMC6581900.
5. Darville, T, Albritton, HL, Zhong, W, Dong, L, **O'Connell, CM**, Poston, TB, Quayle, AJ, Goonetilleke, N, Wiesenfeld, HC, Hillier, SL, and Zheng, X (2019) 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. Epub 2019 Mar 18. PubMed PMID: 30784128; PubMed Central PMCID: PMC6475609.
6. **O'Connell CM**, Brochu H, Girardi J, Harrell E, Jones A, Darville T, Seña AC, Peng X. (2019) 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. PubMed PMID: 30854394; PubMed Central PMCID: PMC6402362.
7. Zheng X, **O'Connell CM**, Zhong W, Poston TB, Wiesenfeld HC, Hillier SL, Trent M, Gaydos C, Tseng GC, Taylor BD, and Darville T. (2018) Gene expression signatures can aid diagnosis of sexually transmitted infection-induced endometritis in women. *Front Cell Infect Microbiol* doi: 10.3389/fcimb.2018.00307 PMID: 30294592 PMCID: PMC6158555
8. Rahman KS, Darville T, Russell AN, **O'Connell CM**, Wiesenfeld HC, Hillier SL, Chowdhury EU, Juan Y-C, and Kaltenboeck B. (2018) Discovery of human-specific immunodominant *Chlamydia trachomatis* B Cell Epitopes. *mSphere* 3(4): e00246-18. doi: 10.1128/mSphere.00246-18 PMCID: PMC6070735
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10. Poston TB, **O'Connell CM**, Girardi J, Sullivan JE, Nagarajan UM, Marinov A, Scurlock AM, and Darville T. (2018) T Cell-independent gamma interferon and B cells cooperate to prevent mortality

associated with disseminated *Chlamydia muridarum* genital tract infection. *Infect Immun.* 86(7). e00143-18. doi: 10.1128/IAI.00143-18 PMID: 29661927

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12. Taylor BD, Zheng X, **O'Connell CM**, Wiesenfeld HC, Hillier SL, Darville T. (2018) 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; pii: sextrans-2017-053376. doi: 10.1136/sextrans-2017-053376 PMID: 29563165
13. Poston TB, Qu Y, Girardi J, **O'Connell CM**, Frazer LC, Russell AN, Wall M, Nagarajan UM, Darville T. 2017. A chlamydia-specific TCR-transgenic mouse demonstrates Th1 polyfunctionality with enhanced effector function. *J. Immunol.* pii: ji1700914. doi: 10.4049/jimmunol.1700914 PMID: 28855311
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16. **O'Connell, CM** and Ferone, ME, 2016. *Chlamydia trachomatis* genital infections. *Microbial Cell.* 3(9) 390-403. PMID: 28357377
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18. Qu Y, Frazer LC, **O'Connell CM**, Tarantal AF, Andrews CW, O'Connor SL, Russell AN, Sullivan JE, Poston TB, Vallejo AN, and Darville T, 2015. Comparable genital tract infection, pathology, and immunity in rhesus macaques inoculated with wild-type or plasmid-deficient *Chlamydia trachomatis* serovar D. *Infect Immun.* 2015 Oct;83(10):4056-67. PMID: 26216426
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21. Darville, T and Pelvic Inflammatory Disease Workshop Proceedings Committee (**O'Connell C**, Wiesenfeld HC, Chernes TL, Hillier SL, Xu F, Paavonen J, Hoover KW, Eschenbach DA, Soper DE, Brunham RC, Oakshott P, Martin DH, Sweet RL, Marrazzo JM, Haggerty CL, Ingalls RR, Deal CD). Pelvic inflammatory disease: identifying research gaps--proceedings of a workshop sponsored by Department of Health and Human Services/National Institutes of Health/National Institute of Allergy and Infectious Diseases, November 3-4, 2011. *Sex Transm Dis.* 2013 Oct;40(10):761-7. PMID: 24275724

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