

Microbial Community Ecology of Tick-Borne Human Pathogens
Representative Publications

Keith Clay

10. Civitello, D. J., Rynkiewicz, E. and **K. Clay**. 2010. Meta-analysis of co-infections in ticks. *Israel Journal of Ecology and Evolution* (in press).
9. Seddighzadeh, A., R. R. Pinger, R. R., Zercher, A., Steiner, F. E. Klyachko, O., Vann, C. N., **Clay, K.** and C. Fuqua. 2009. Strains of *Ehrlichia chaffeensis* in Southern Indiana, Kentucky, Mississippi and North Carolina. *Journal of Medical Entomology* 46: 1468-1473.
8. **Clay, K.**, O. Klyachko, N. Grindle, D. Civitello, D. Oleske and C. Fuqua. 2008. Microbial community ecology of ticks: prokaryotic diversity, distribution and interactions in the lone star tick, *Amblyomma americanum*. *Molecular Ecology* 17: 4371-4381.
7. Civitello, D., S. L. Flory and **K. Clay**. 2008. Exotic grass invasion reduces tick-borne disease risk. *Journal of Medical Entomology* 45: 867-872.
6. Steiner F., Pinger R. R., Vann C. N., Grindle N., Civitello D., **Clay K.** and C. Fuqua. 2008. Infection Rates of *Anaplasma phagocytophilum* variants, *Babesia* spp, *Borrelia burgdorferi* and the *Ixodes scapularis* endosymbiont in *Ixodes scapularis* Ticks from Indiana, Maine, Pennsylvania and Wisconsin. *Journal of Medical Entomology* 45: 289-297.
5. Klyachko, O. B. Stein, N. Grindle, **K. Clay** and C. Fuqua. 2007. Localization and visualization of a Coxiella-type symbiont within the Lone Star Tick *Amblyomma americanum*. *Applied and Environmental Microbiology* 73: 6584-6594.
4. **Clay, K.**, Fuqua, C., Lively, C. and M. J. Wade. 2006. Microbial community ecology of tick-borne human pathogens. Pp. 41 – 57, In *Disease Ecology: Community Structure and Pathogen Dynamics* (S. K. Collinge and C. Ray, Eds). Oxford University Press, Oxford.
3. Fresia E. Steiner, F. E., Pinger, R. R., Vann, C. N, Abley, M. J., Sullivan, B., Grindle, N., **Clay, K.** and C. Fuqua. 2006. Detection of *Anaplasma phagocytophilum* and *Babesia odocoilei* in *Ixodes scapularis* Say (Acari: Ixodidae) collected in Indiana. *Journal of Medical Entomology* 43: 437-442.
2. Lively, C. M., **Clay, K.** Wade, M. J. and C. Fuqua. 2005. Competitive coexistence of vertically and horizontally transmitted parasites. *Evolutionary Ecology Research* 7: 1183-1190.
1. Grindle, N., Tyner, J. J., **Clay, K.** and C. Fuqua. 2003. Identification of *Arsenophonus*-type bacteria from the dog tick *Dermacentor variabilis*. *Journal of Invertebrate Pathology* 83: 264-266.