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„It is increasingly apparent that *A. phagocytophilum* and perhaps other intracellular prokaryotes manipulate their hosts with a high degree of efficacy, but by altering the “on” or “off” state of genes in a *cis* only fashion or targeting individual or small numbers of signaling pathways is unlikely to account for this alone, in essence, an “effector bottleneck”....The interplay between HDACs, DNMTs, and methyl binding proteins suggests that *A. phagocytophilum* infection could also induce widespread DNA methylation perhaps as a mechanism for obtaining broad epigenetic changes and functional reprogramming.“

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