These articles describe experimental spiroplasmosis in the rat, done in collaboration with Dr. Joseph Tully, head of the Division of Mycoplasmology at the National Institutes of Health. Article #4 describes the neuropathology of spiroplasma infection in the rat brain, and shows spongiform encephalopathy remarkably similar to naturally occurring transmissible spongiform encephalopathy (TSE). The bacteria assume variable morphology in brain tissues and are difficult to identify by TEM. Article #5 describes re-isolation of spiroplasma from the rat tissues with a dose response indicating proliferation in the rat tissues.

Experimental spiroplasmosis in the rat show peri-neuronal vacuoles remarkably similar to neuropathology of the CJD brain.

TEM of a perineuronal vacuole in experimental spiroplasmosis in the rat show variable membranous forms of the spiroplasma lining the wall of the vacuole.