The plant *Euphorbia cyparissias* is commonly infected by rust fungi of the species complex *Uromyces pisi.* When infected, *E. cyparissias* is unable to flower, but instead is induced by the fungus to form pseudoflowers. Pseudoflowers are rosettes of yellow leaves upon which the fungus presents its gametes in a sweet-smelling fungal nectar. We hypothesized that the fungi, as they are heterothallic, are dependent on insect visitation to cross-fertilize their mating types.