

Research Needs Biology/Ecology and Virus-Vector Interactions

A. Next 12 months

- Develop real-time PCR to distinguish between A, B, and Q biotype.
- Mating studies and symbiont analyses for biotypes.
- Comparisons of B and Q fitness traits.

B. Next 1 to 5 years

- Establish transmission parameters (AAP, IAP, latency, competency) for B versus Q and begomoviruses; CLCrV, CuLCY, and SLCV the US (with criniviruses being examined next).
- Determine comparative impact of natural enemies on B versus Q.
- Develop life tables for B and Q under different conditions, e.g., open versus protected agriculture).

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