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AGBIOME



AgBiome: Background and Technology





Strategy

- Ultimate Goal: Develop a biological for control of larval and/or adult sweetpotato weevils in Africa
- Phase I: 3 year discovery project (initiated July 2016) to identify microbes with activity against sweetpotato weevil

Field sampling

Microbe isolation & sequencing

Screen for activity





Development

- Activity against surrogates initiated
 - To date: 12 strains with activity towards 2 beetle species
 - Verification will occur on USA and African weevil species
- Microbes from African soils have greatest potential
 - Cylas brunneus and C. puncticollis endemic to Africa
- Successful weevil control based on multiple strategies
 - A biological will be a critical part of an IPM approach