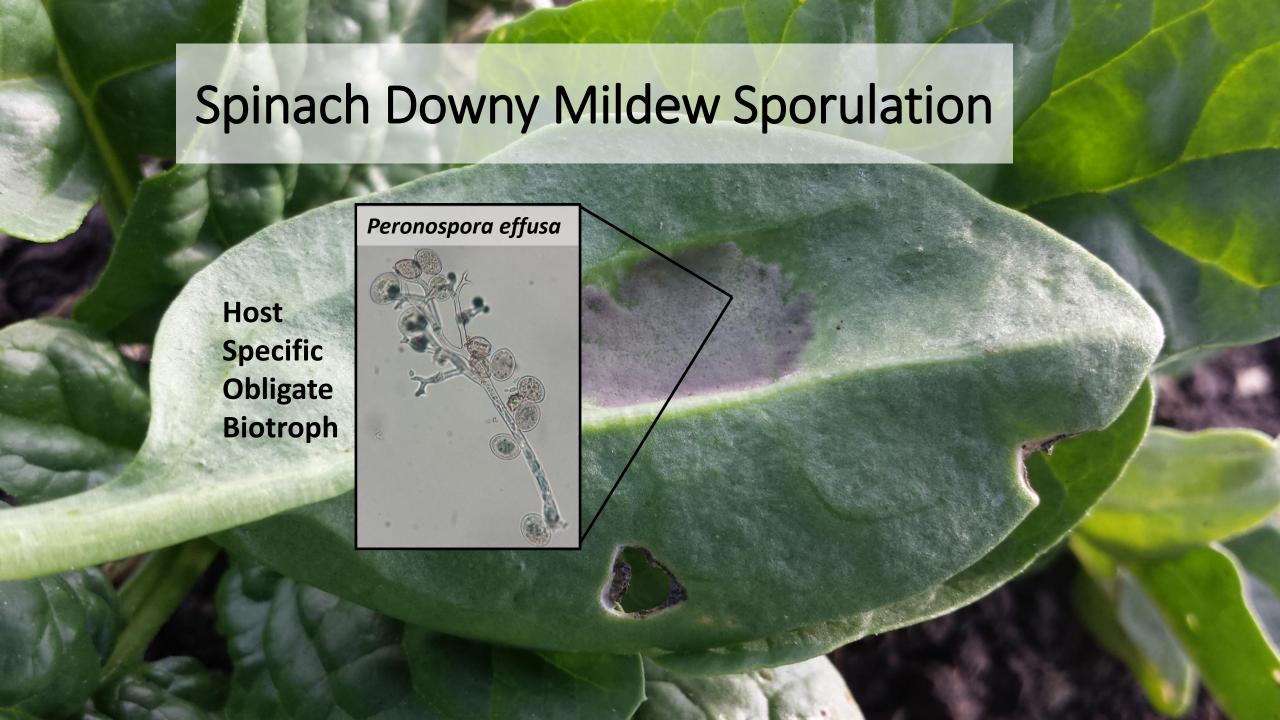
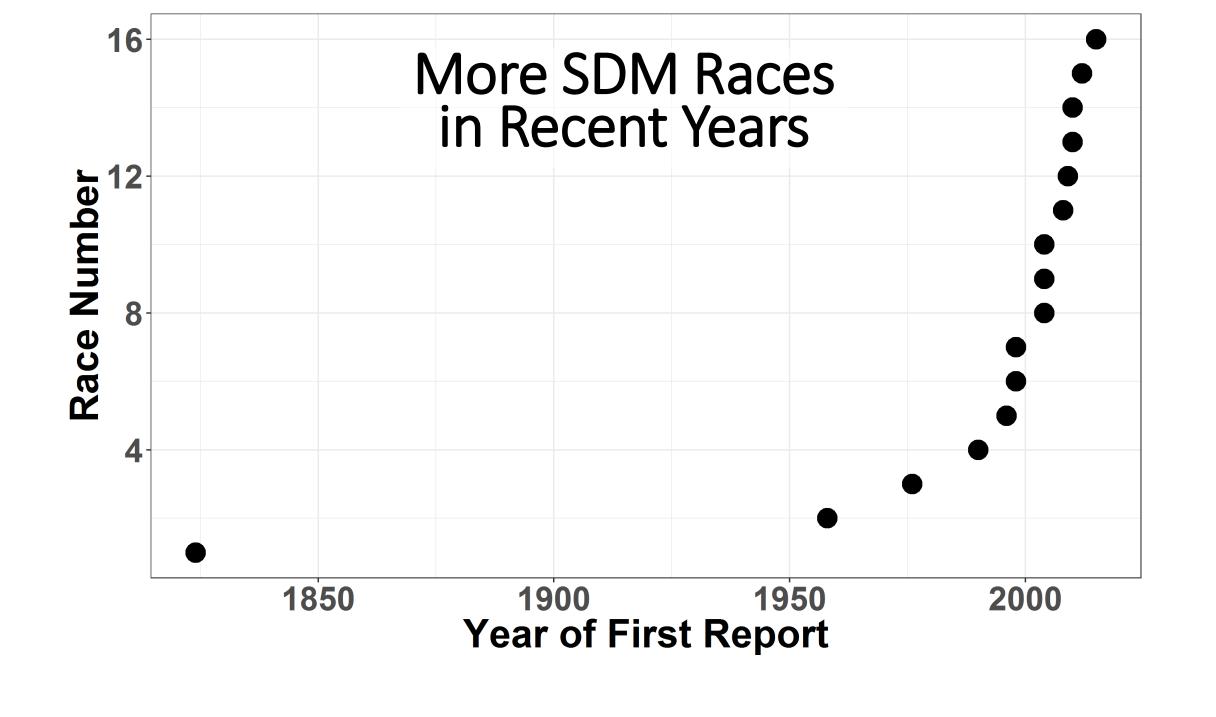
# Spinach Downy Mildew Spore Trapping and Disease Rating

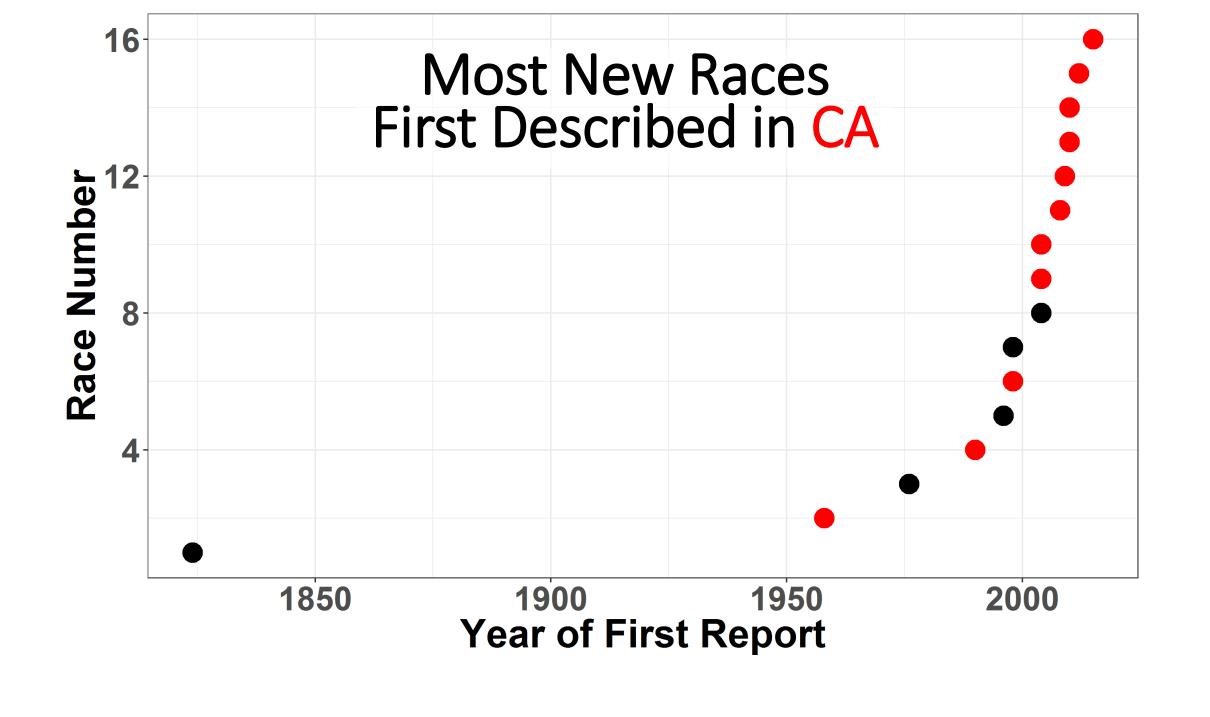
Robin Choudhury July 29<sup>th</sup>, 2018





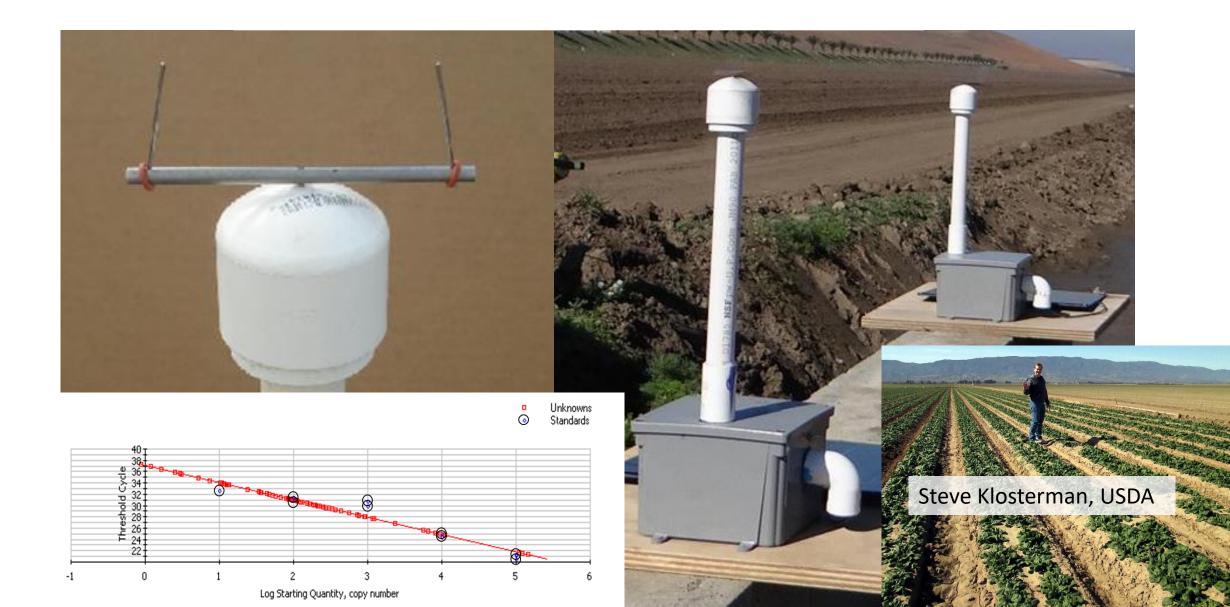








#### qPCR Assay and Spore Trap

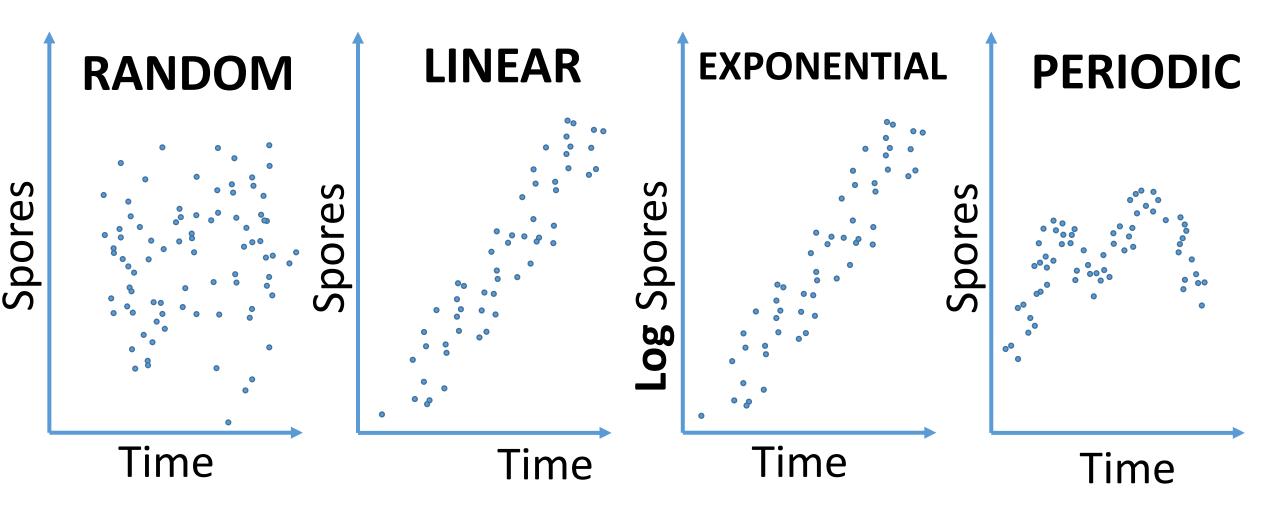


#### Spore Traps in the Salinas Valley

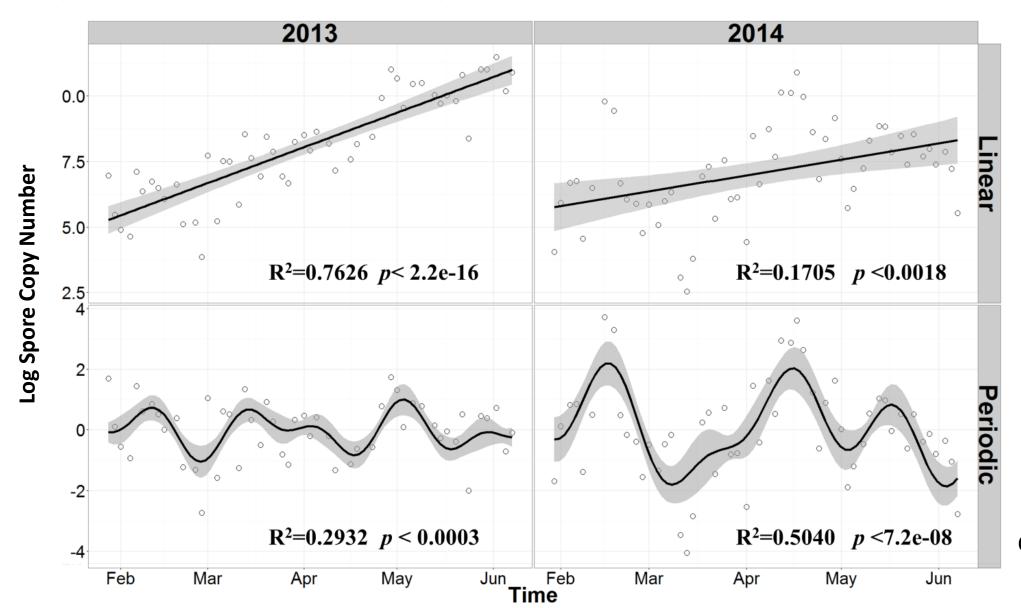




# What Season-Long Spore Patterns Might We Expect?

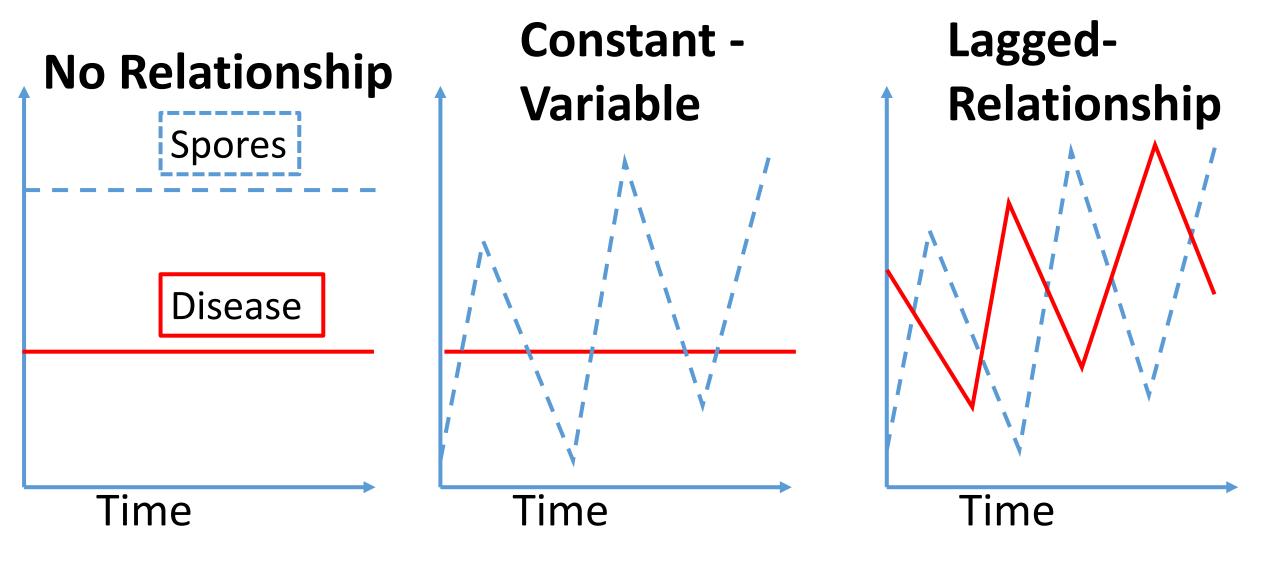


#### Spore Pattern Exponential and Periodic

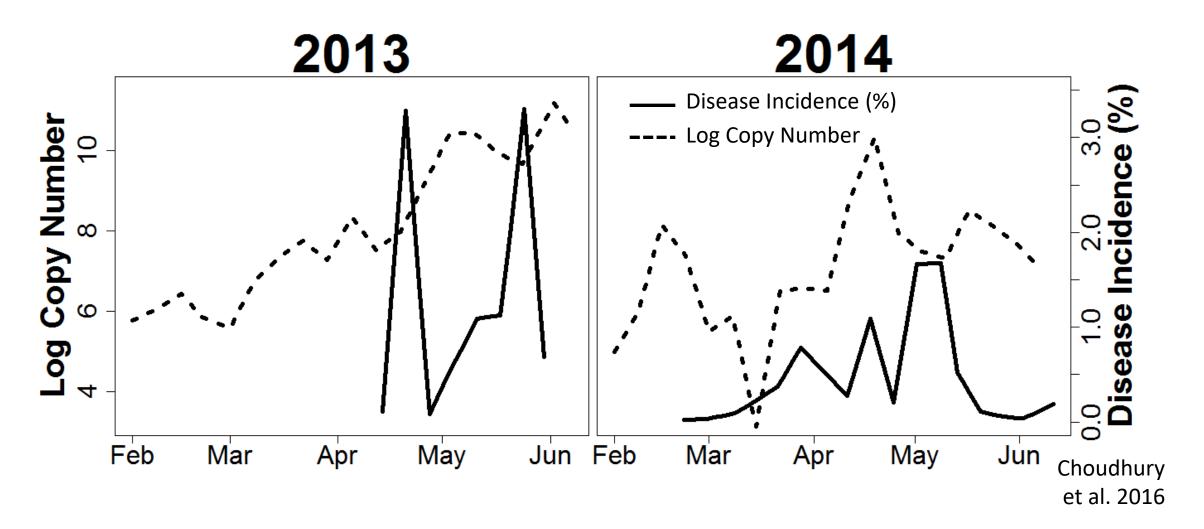


Choudhury et al. 2016

## What Inoculum-Disease Patterns Might We Expect?

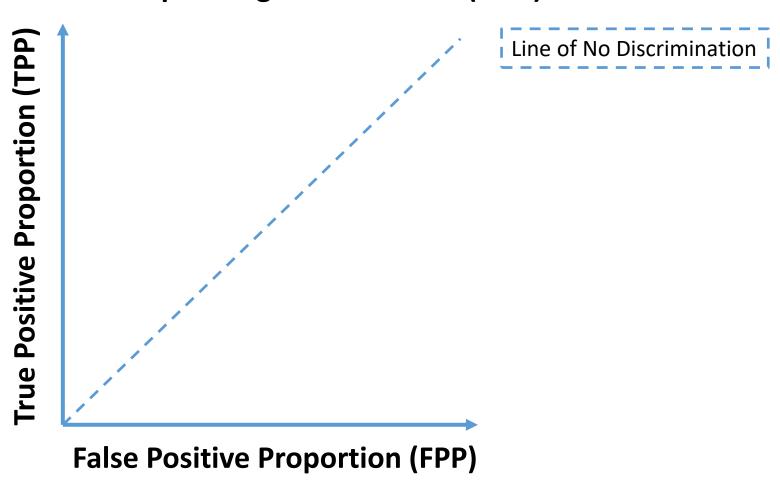


#### Lagged Inoculum-Disease Patterns



### How Well Does Spore Load Predict Disease Incidence?

**Reciever Operating Characteristic (ROC) Curve** 



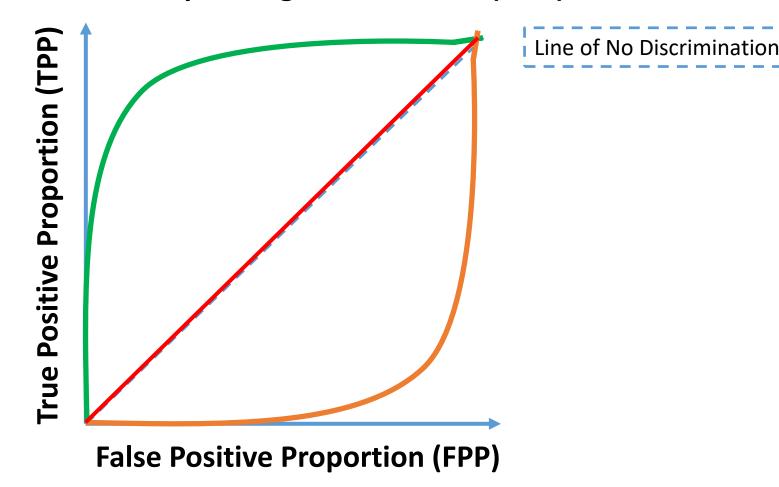
### How Well Does Spore Load Predict Disease Incidence?

**Reciever Operating Characteristic (ROC) Curve** 

**Good Predictor** 

Good Predictor,
with Inverse
Relationship

Poor Predictor



### Spore Traps Have Some Predictivity

