

Interactive storage disease diagnosis workshop

Jeff Miller and Nora Olsen







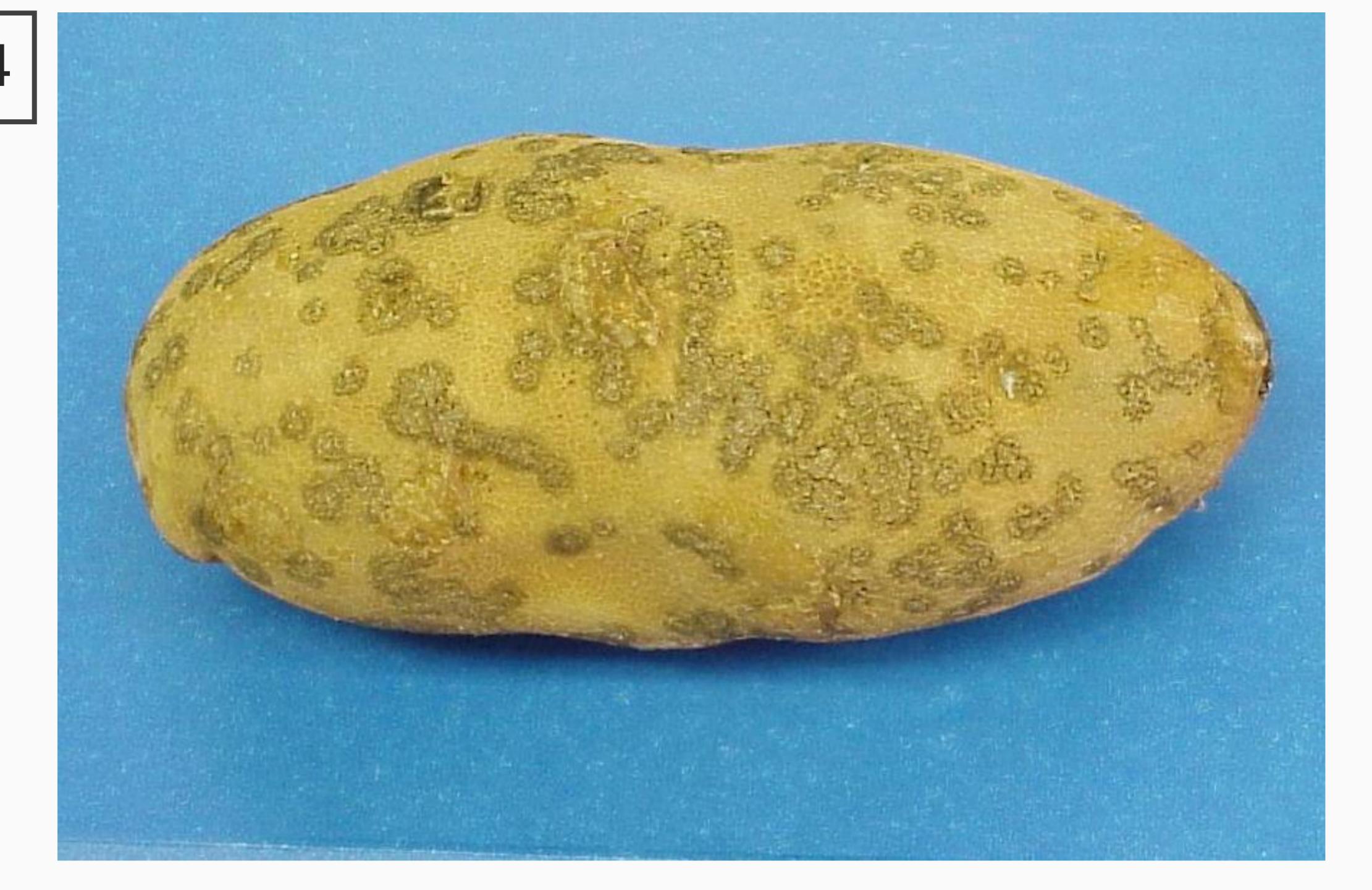
University of Idaho

## Can you name this disease?

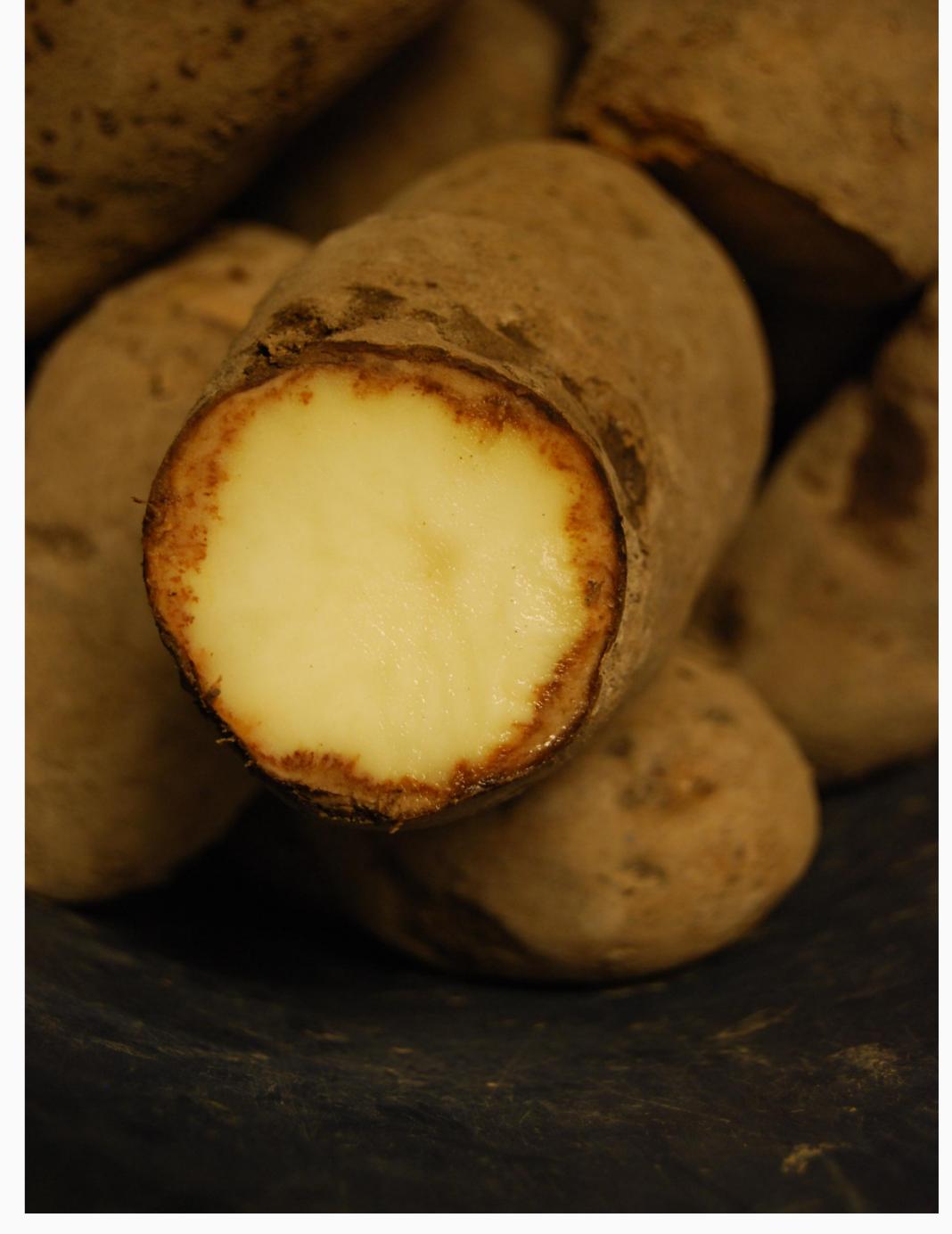


































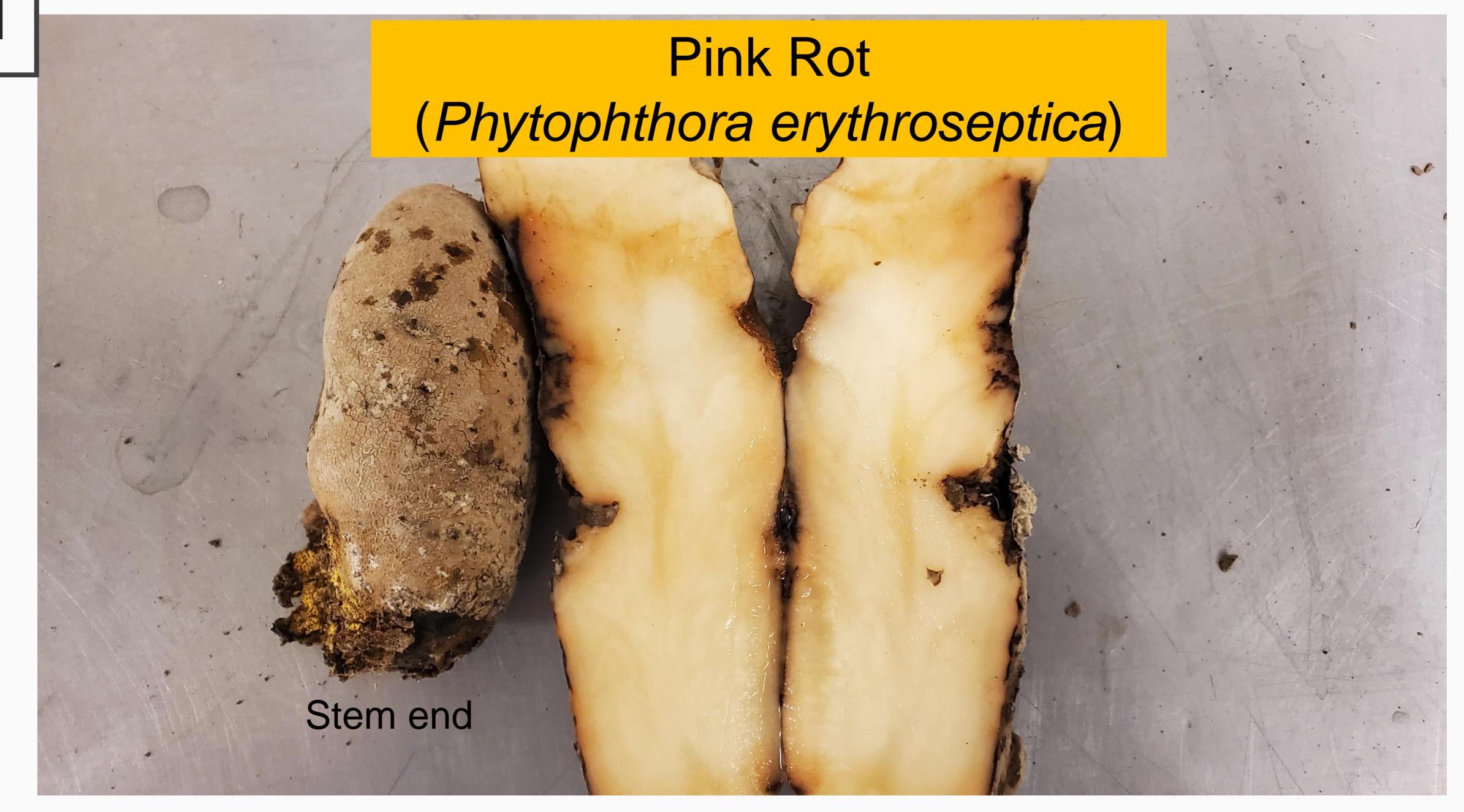


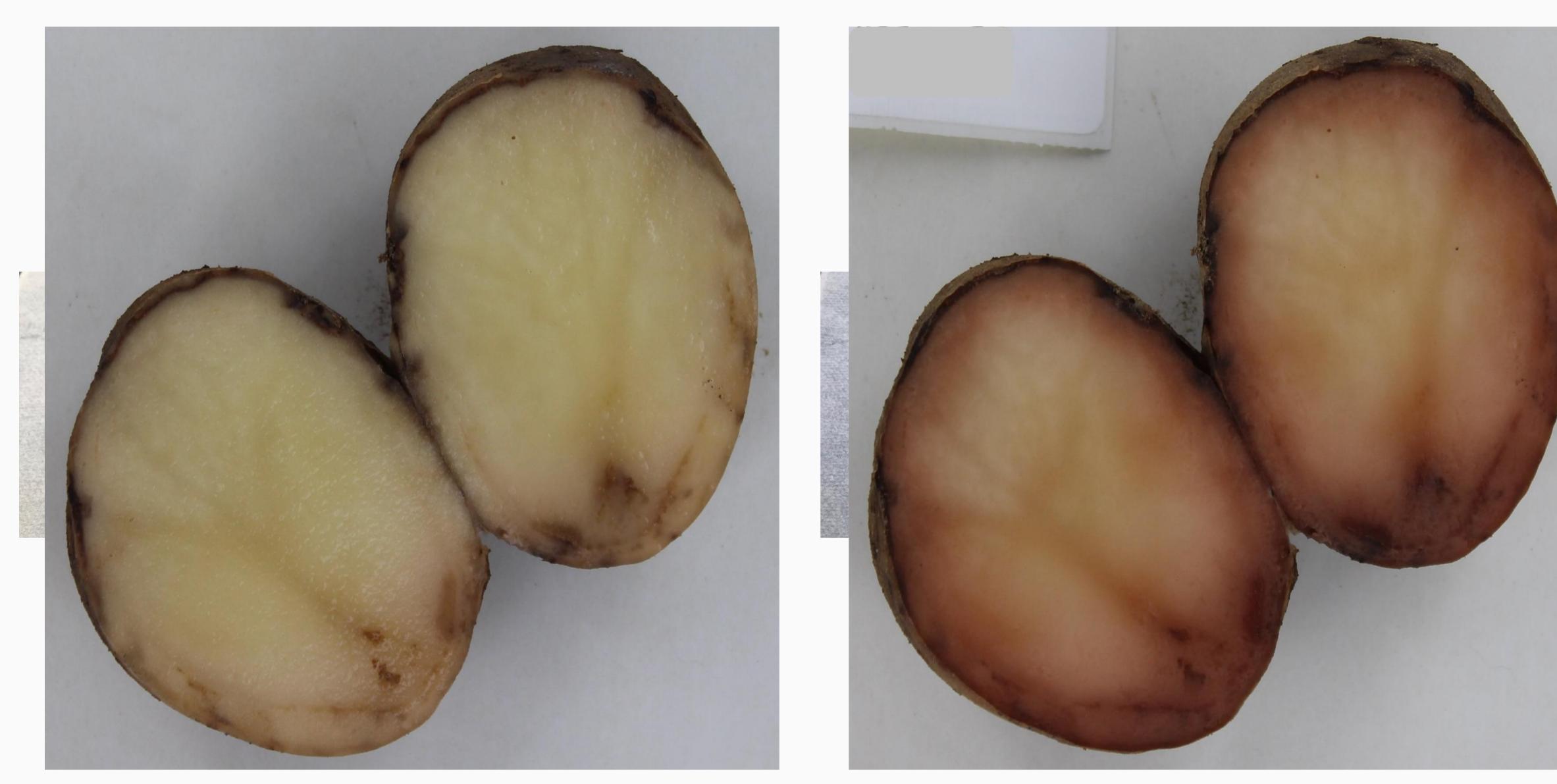






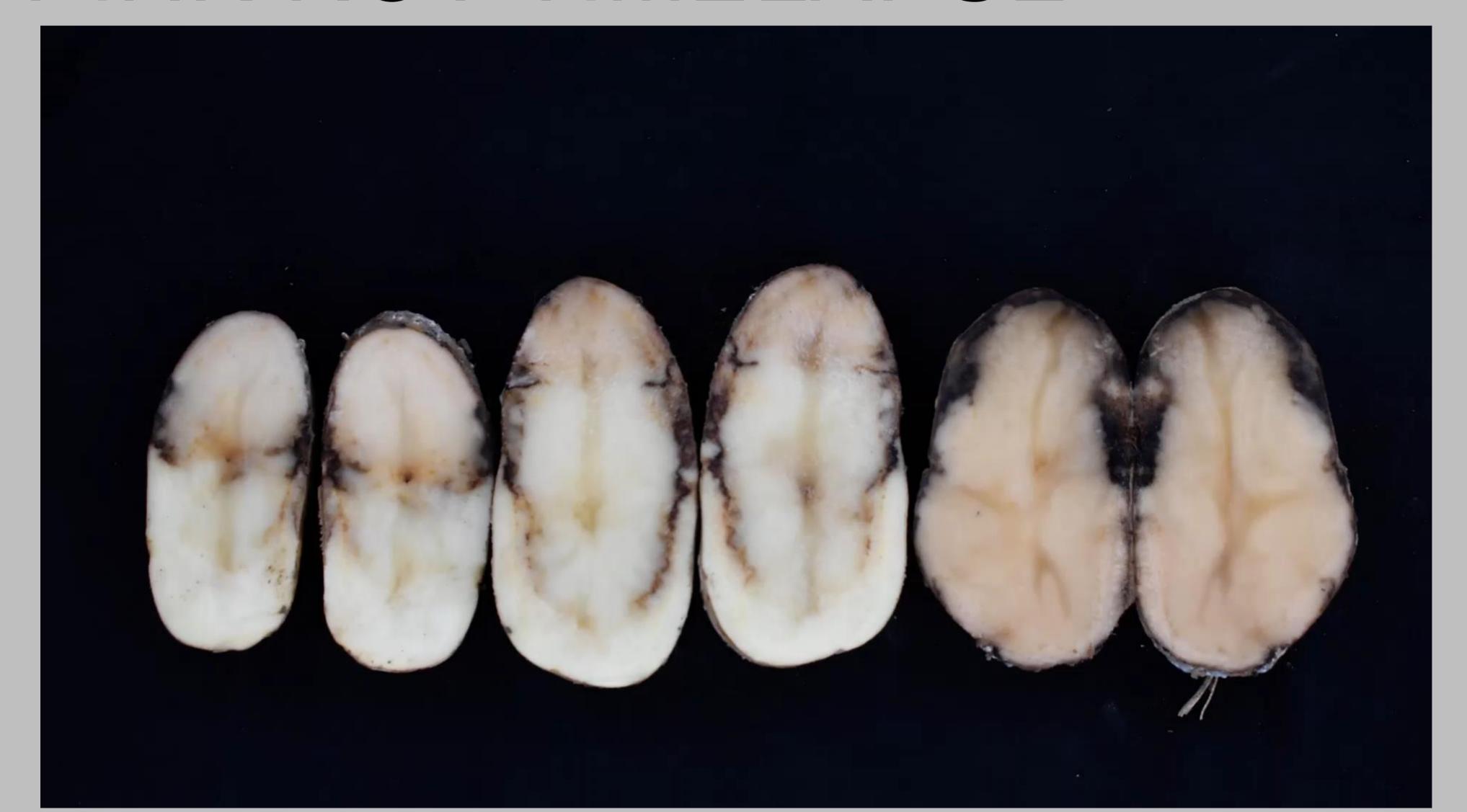








## PINK ROT TIMELAPSE









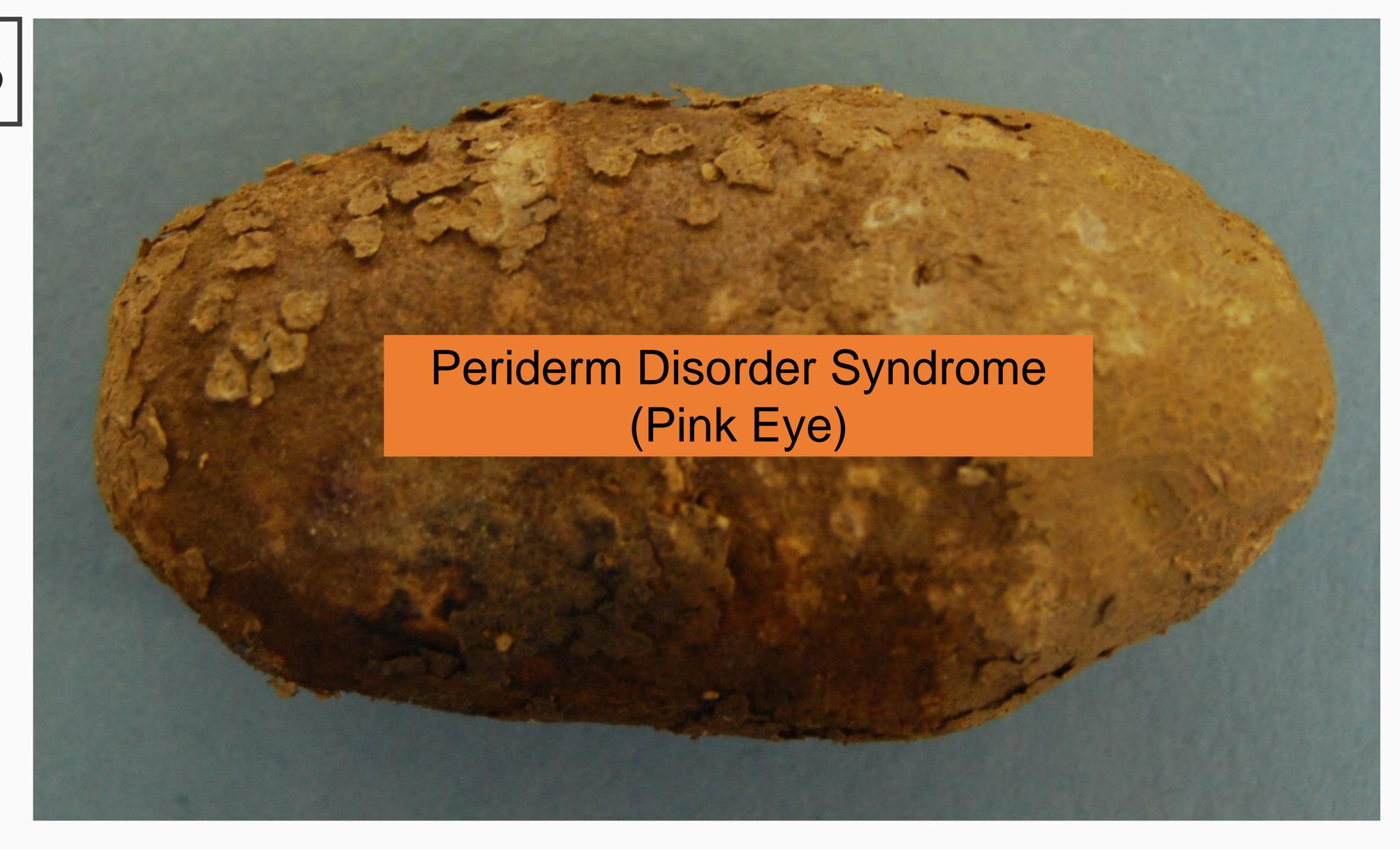








White Mold

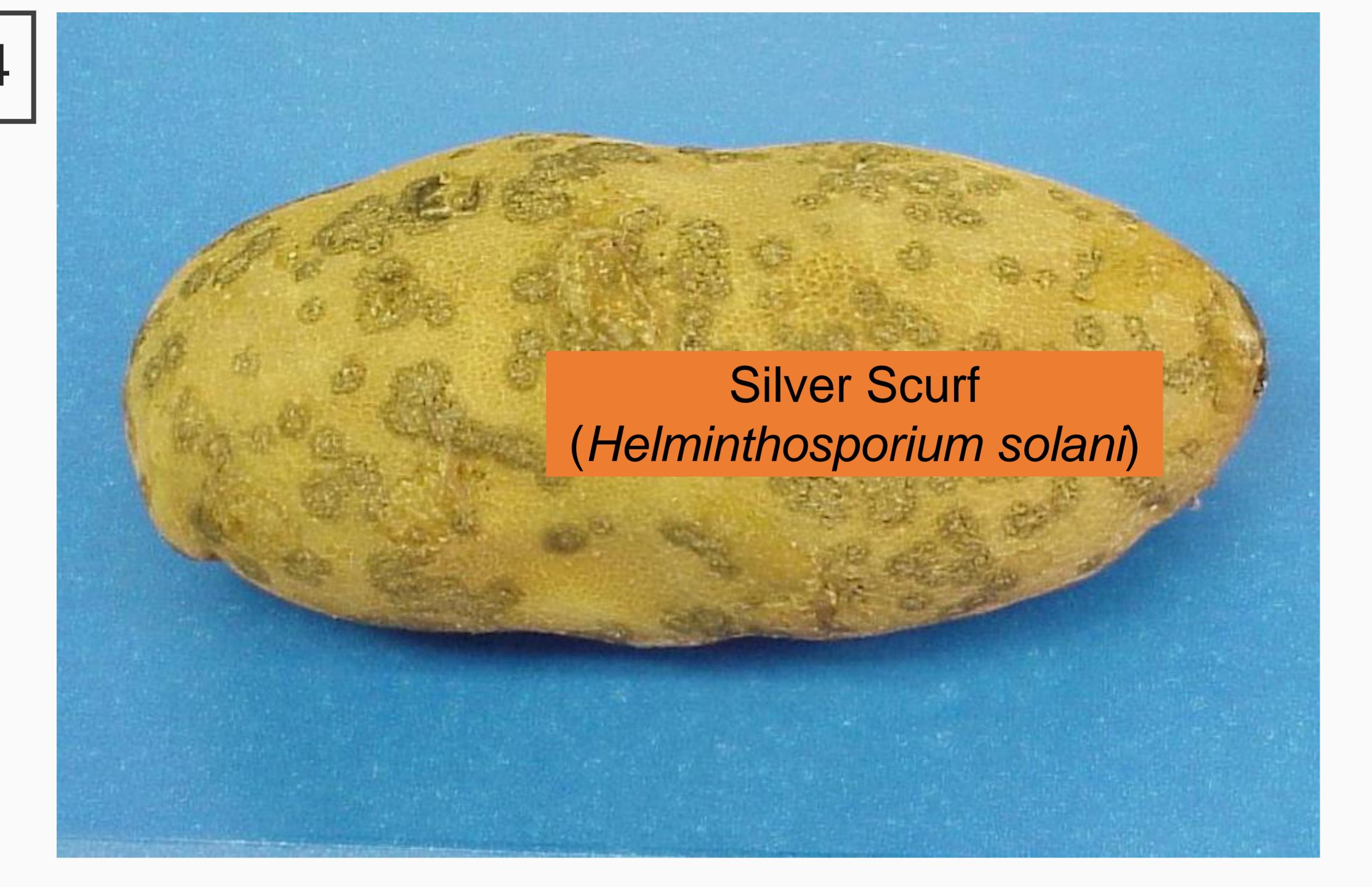








Clearwater Russet: Pink eye followed by dry rot



Late Blight (Phytophthora infestans)

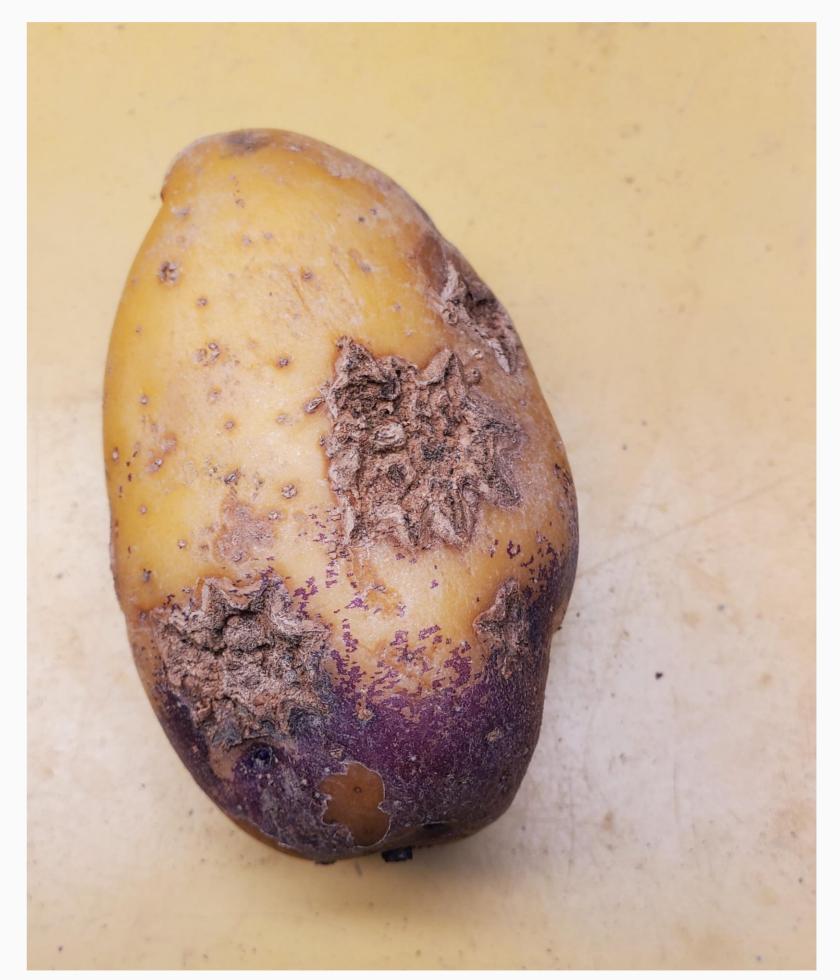


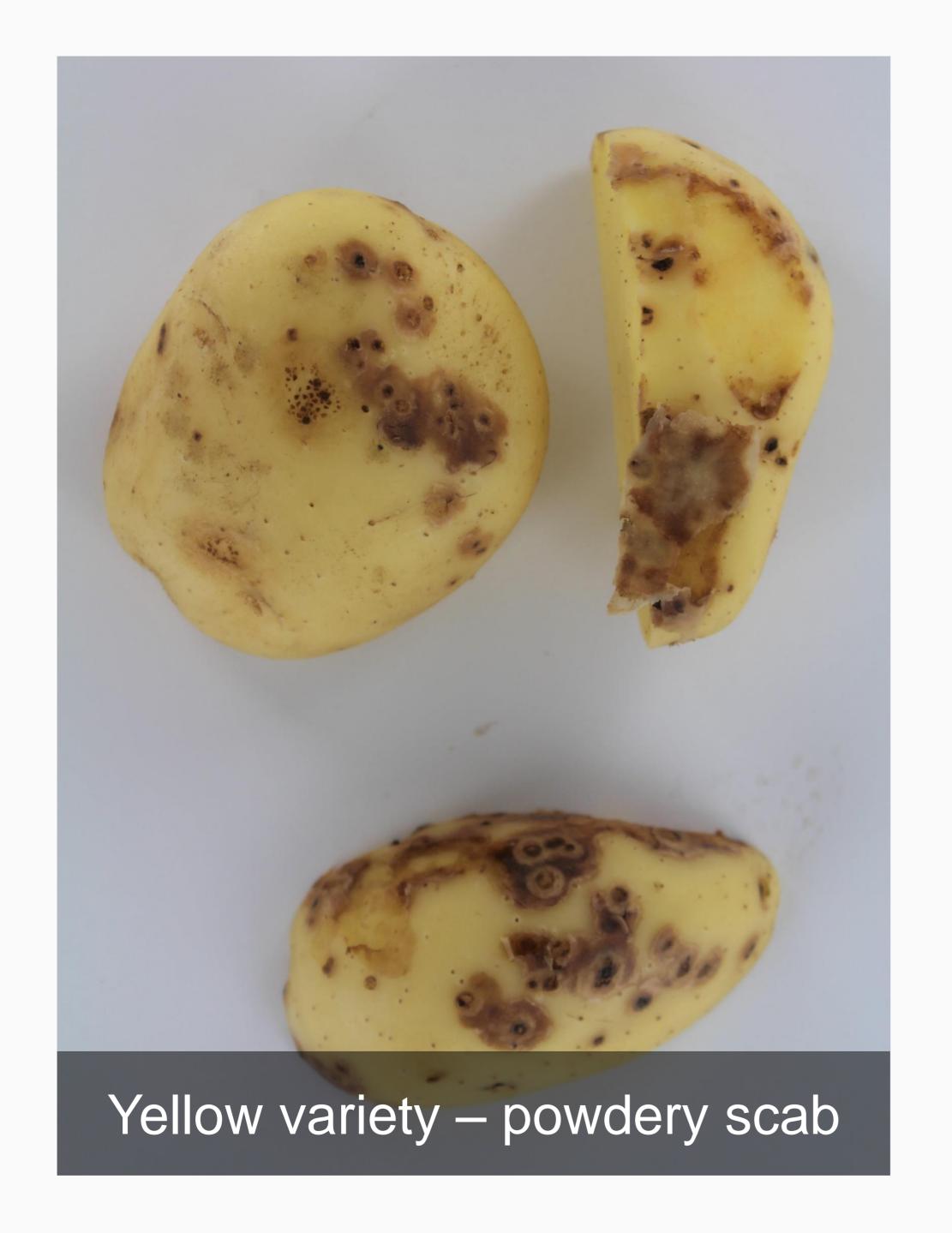




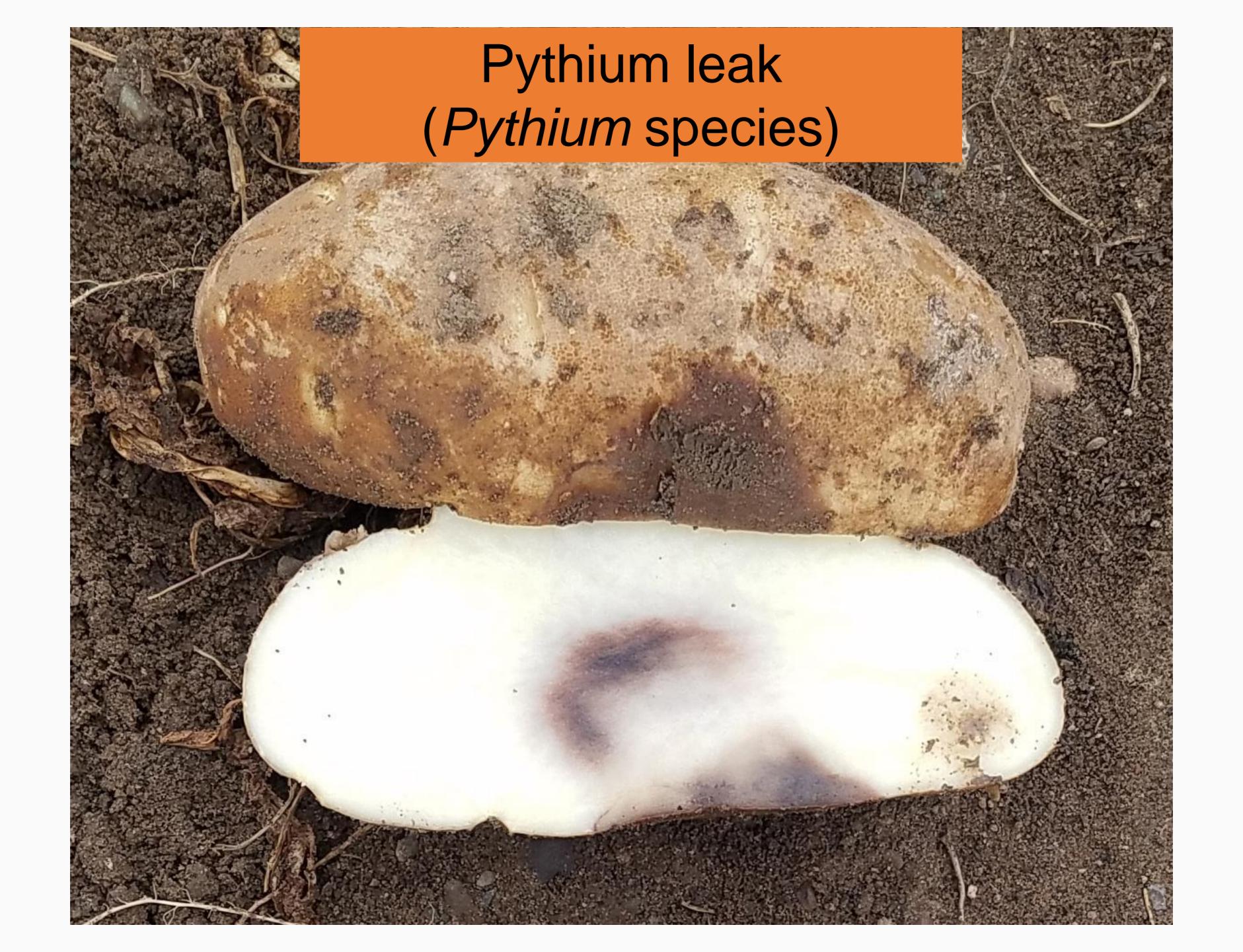
## Powdery Scab vs. Common Scab









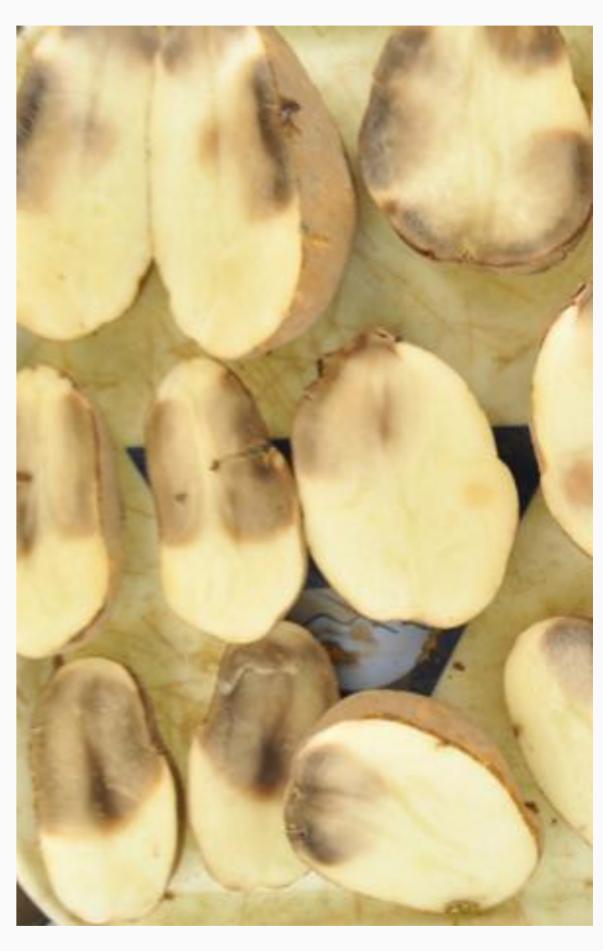












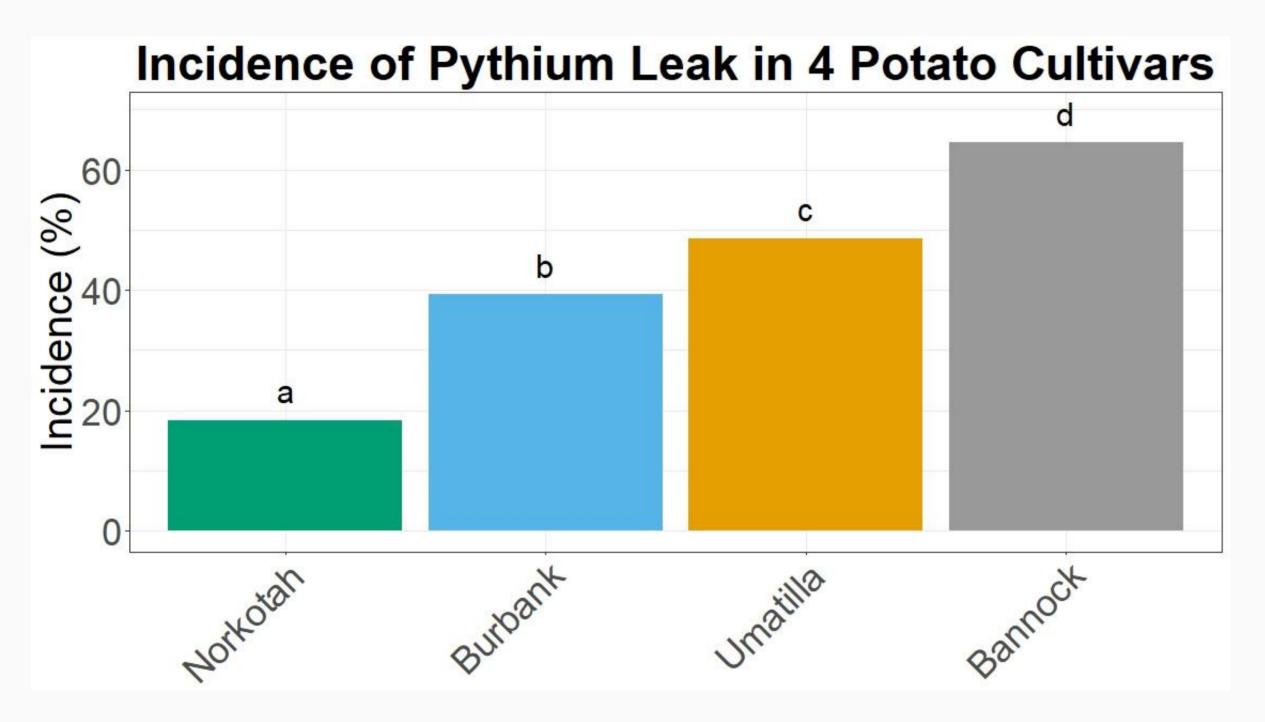
Day 1

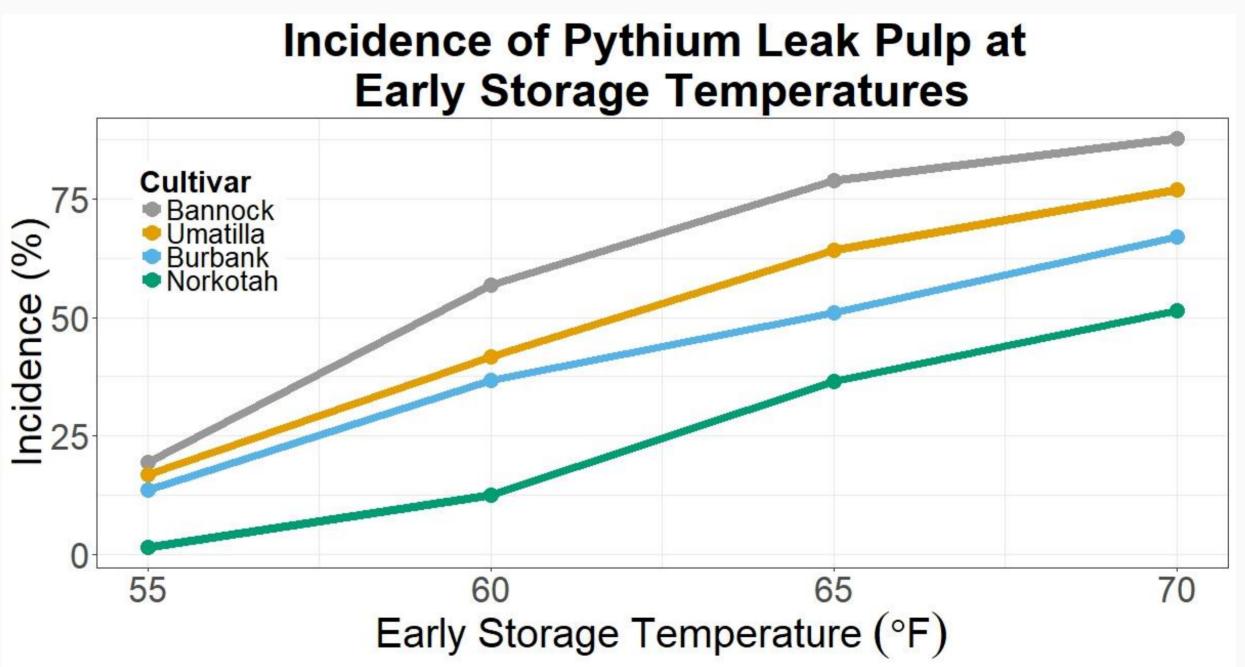
Day 2

Day 3

Day 4

## Cultivar and storage temperature on leak

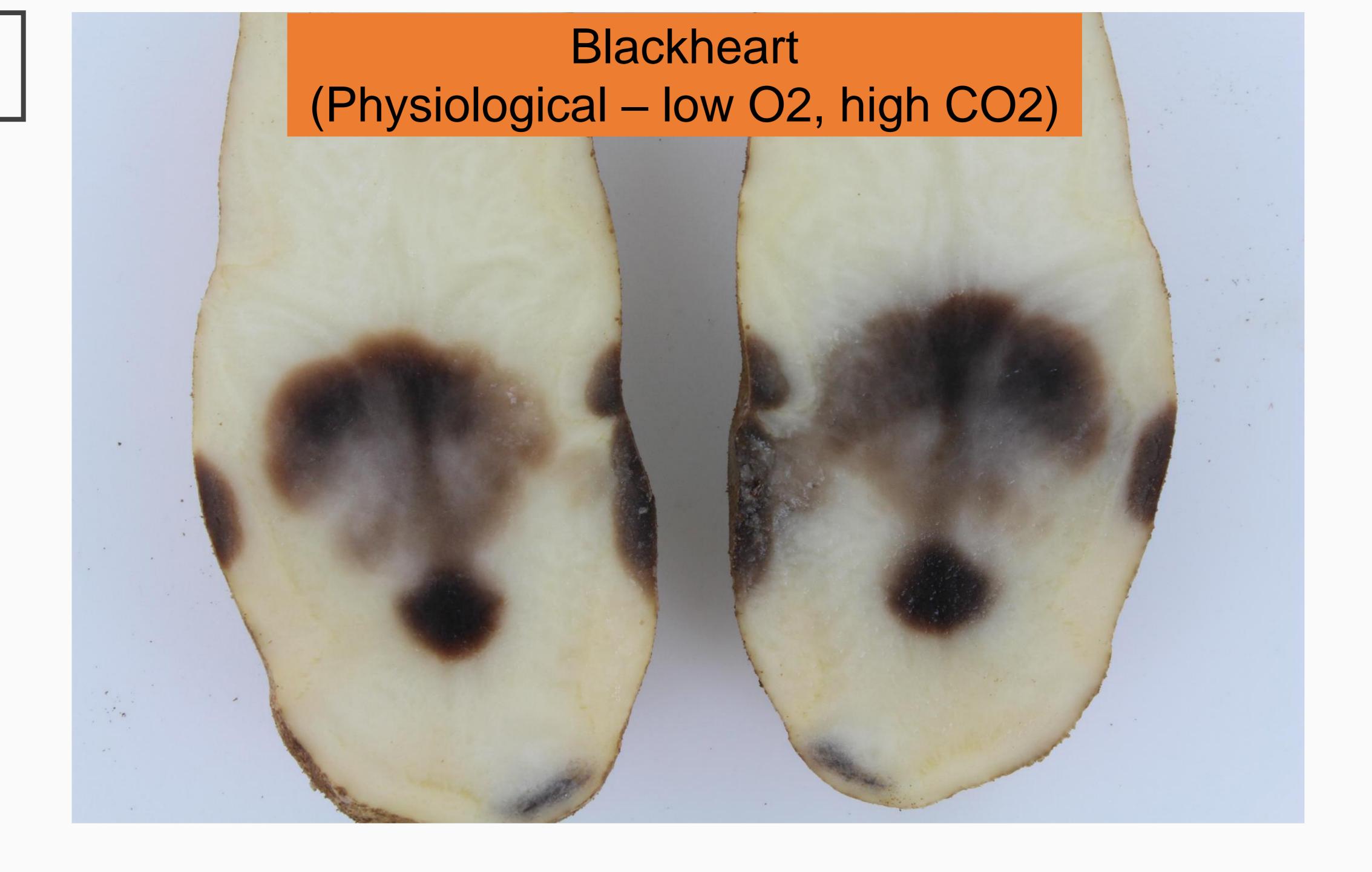




### PINK ROT VERSUS LEAK







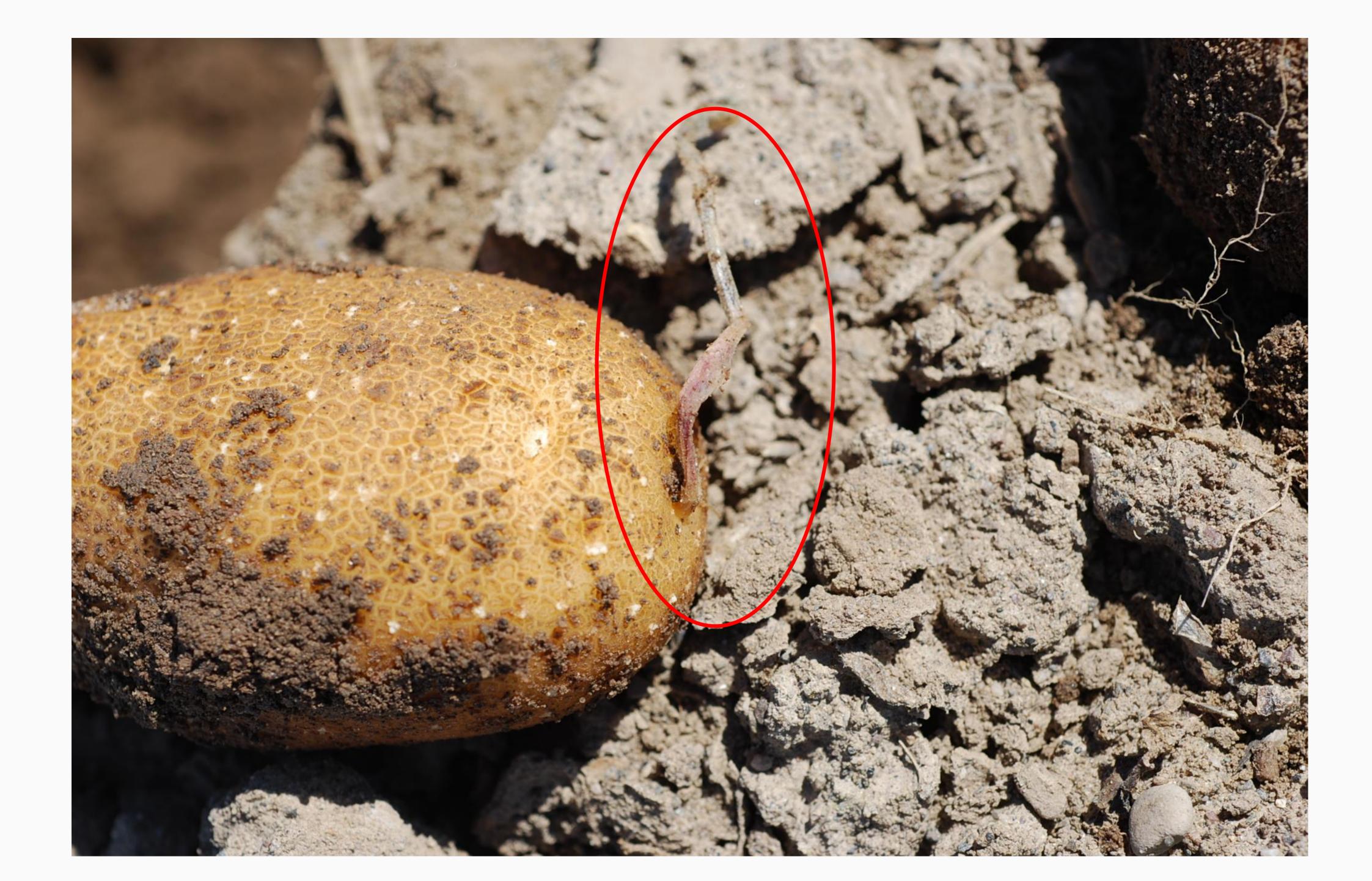


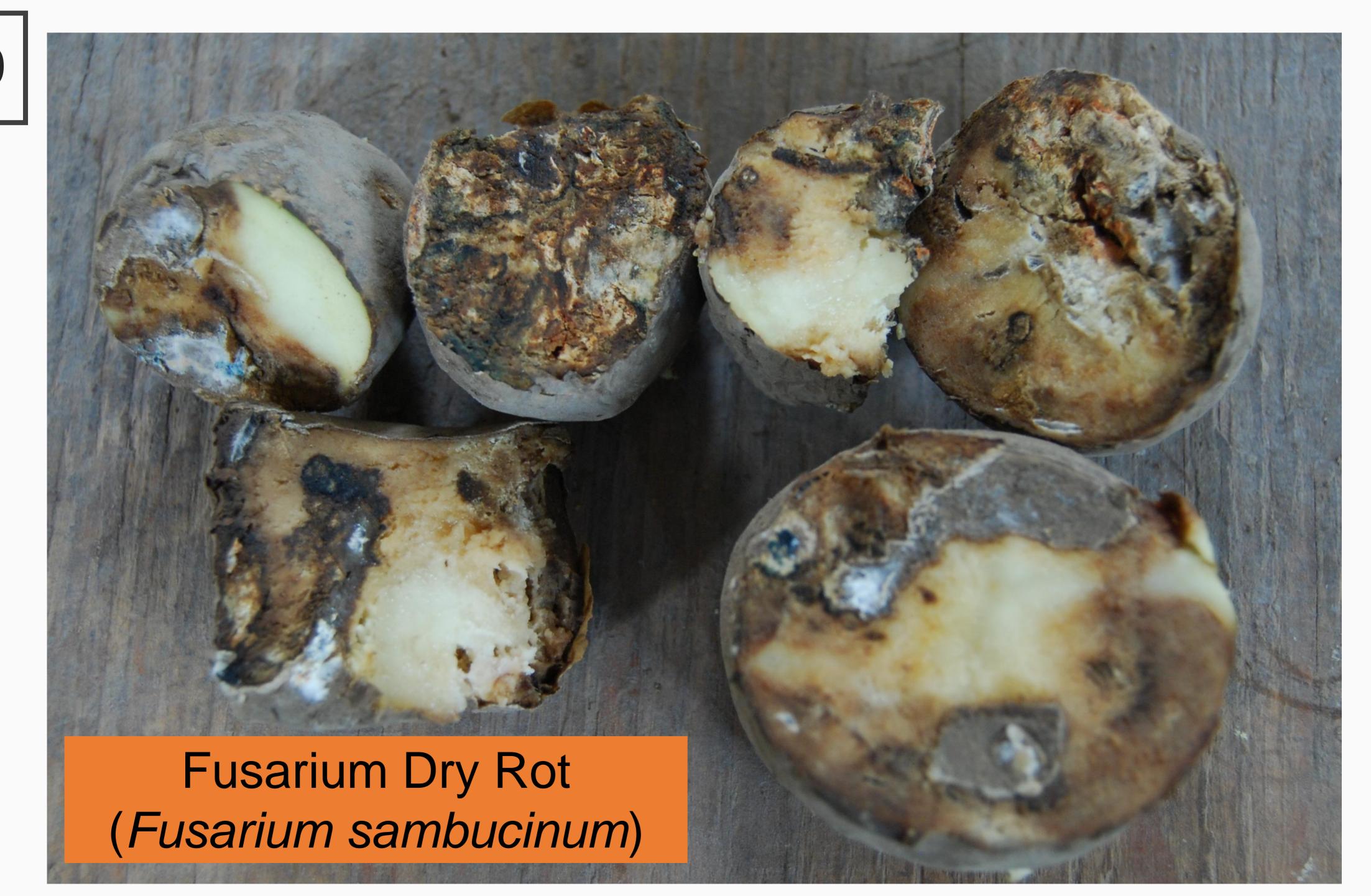
Chilling injury

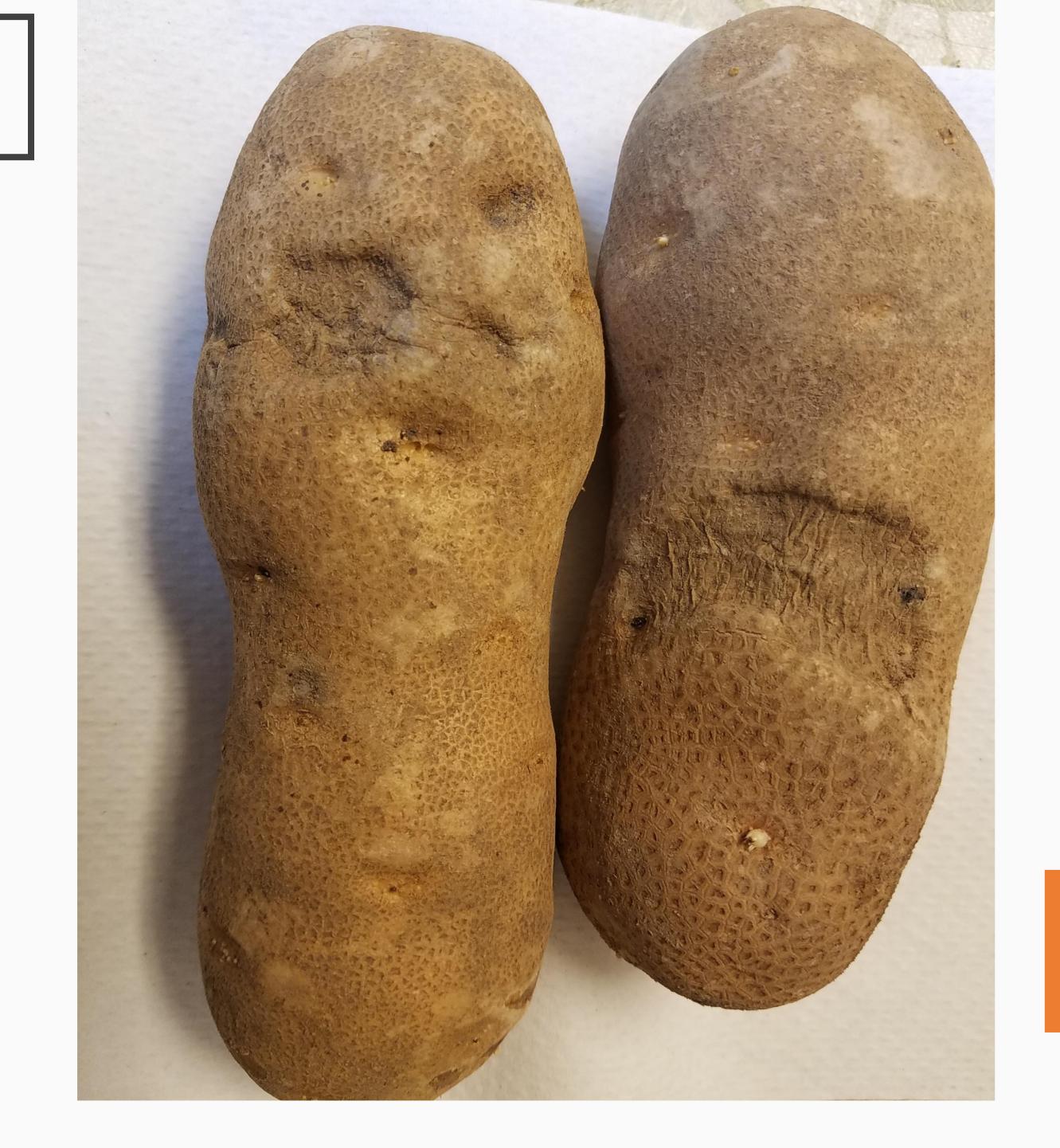




Ranger Russet – black dot – "Bumpy Ranger Syndrome"

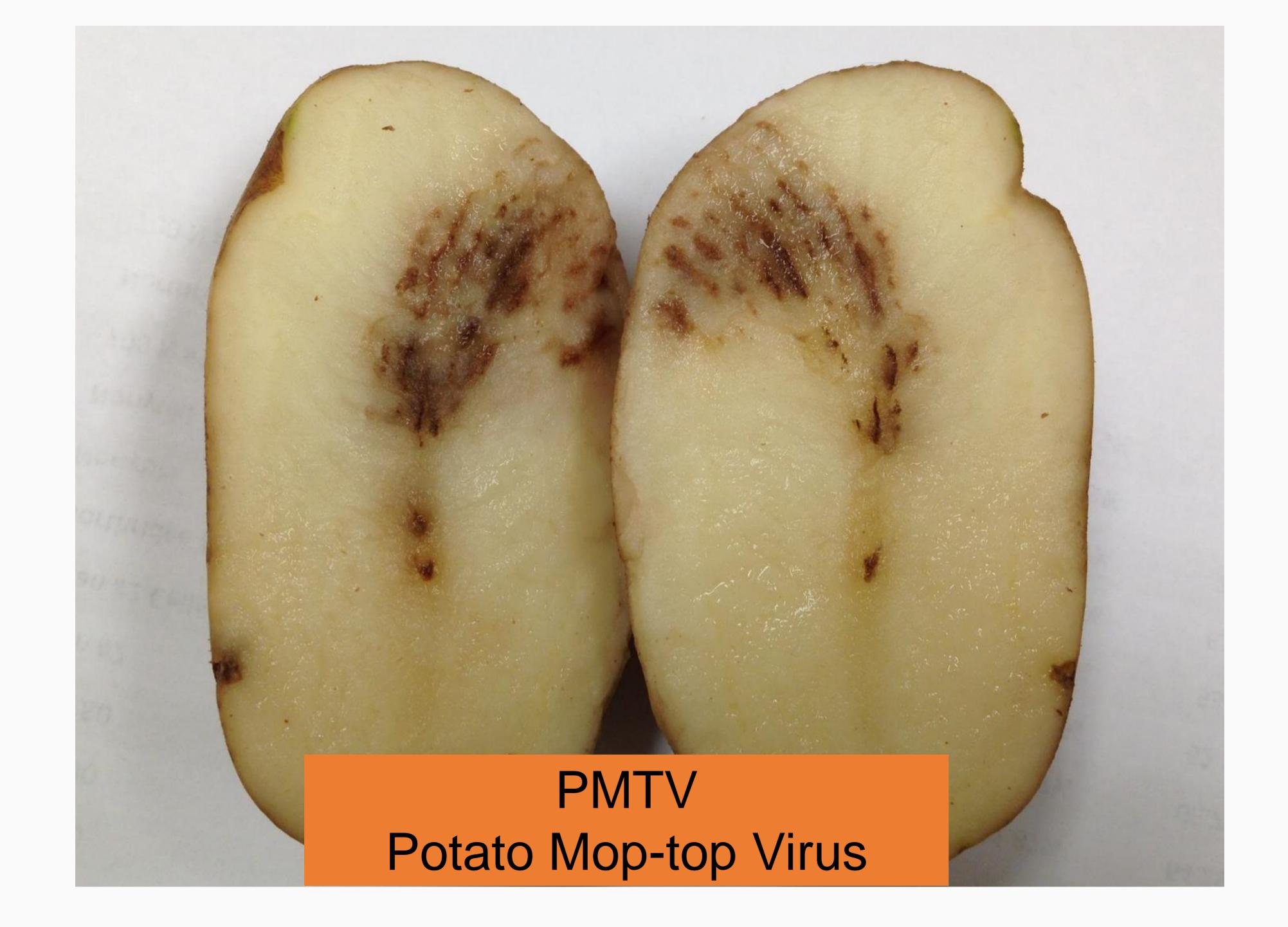


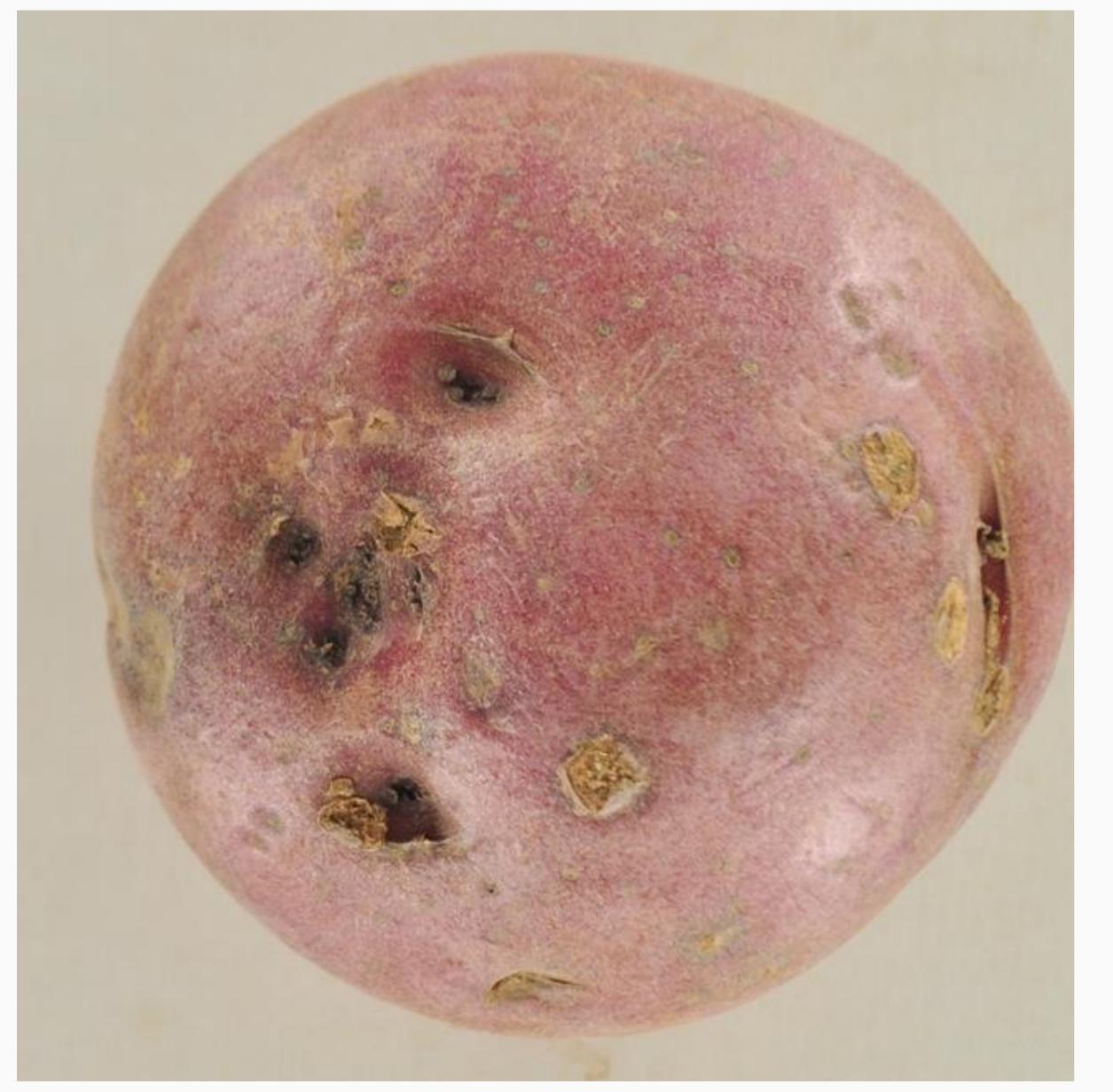


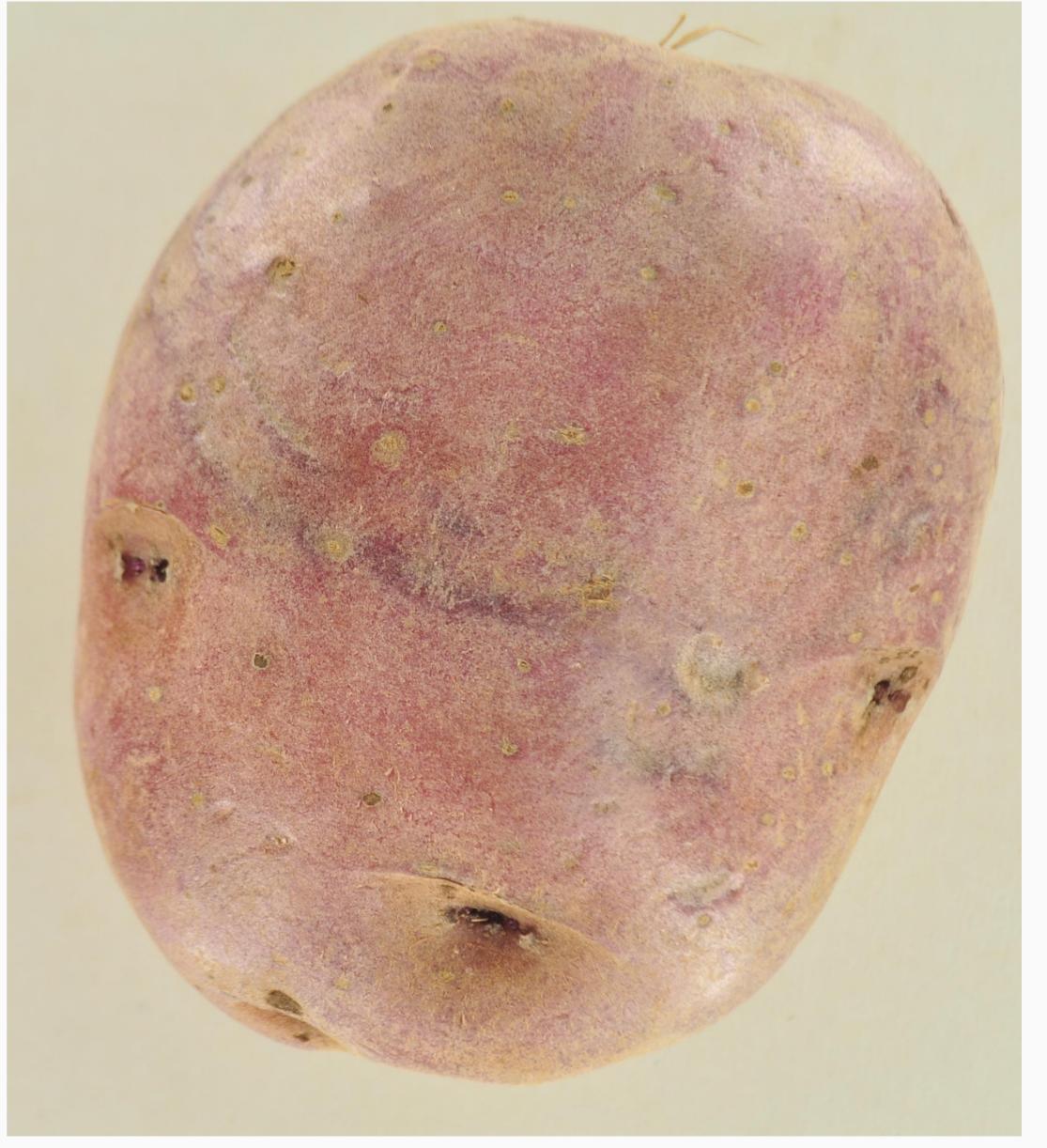




Early Blight/Brown Spot (Alternaria species)





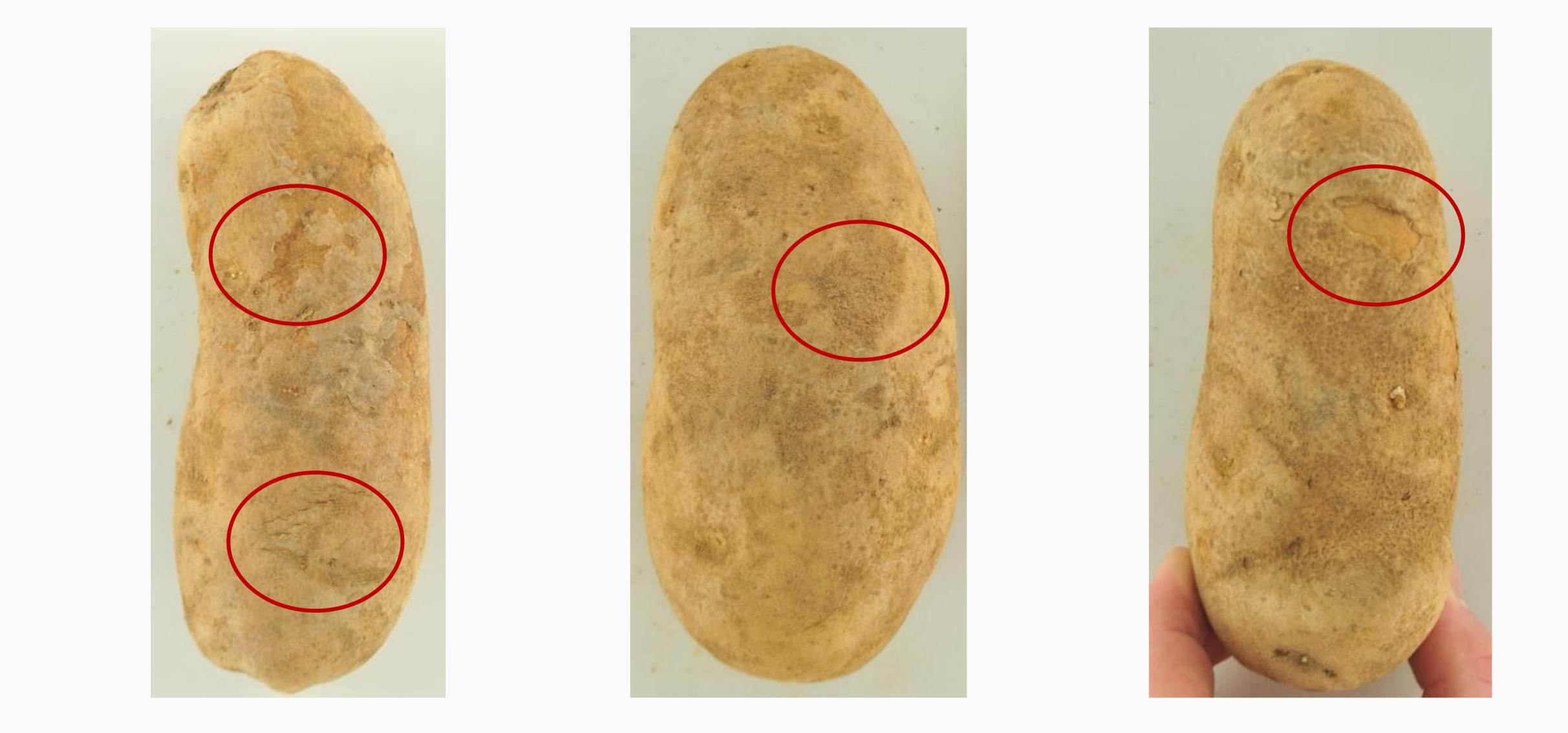












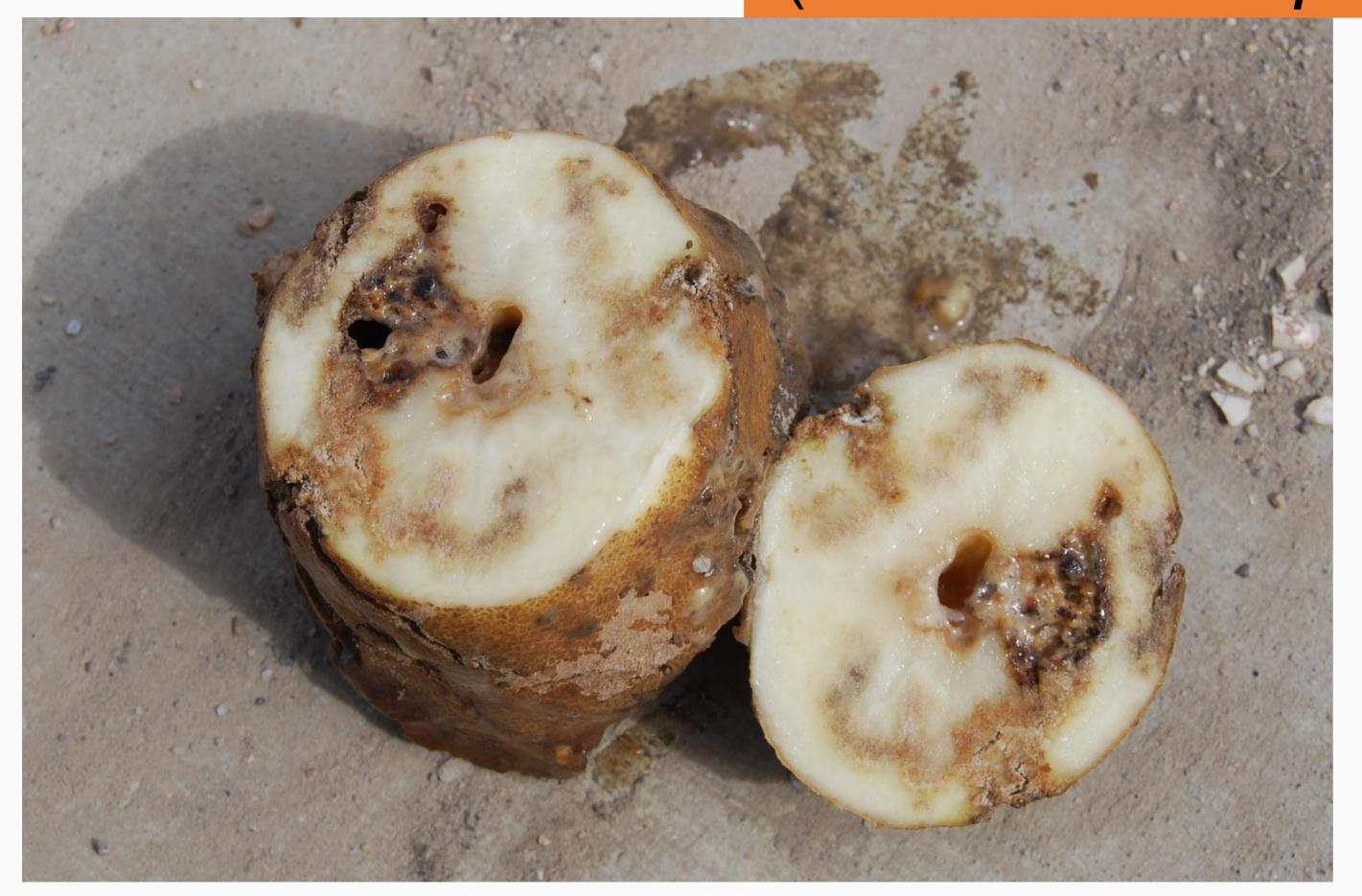


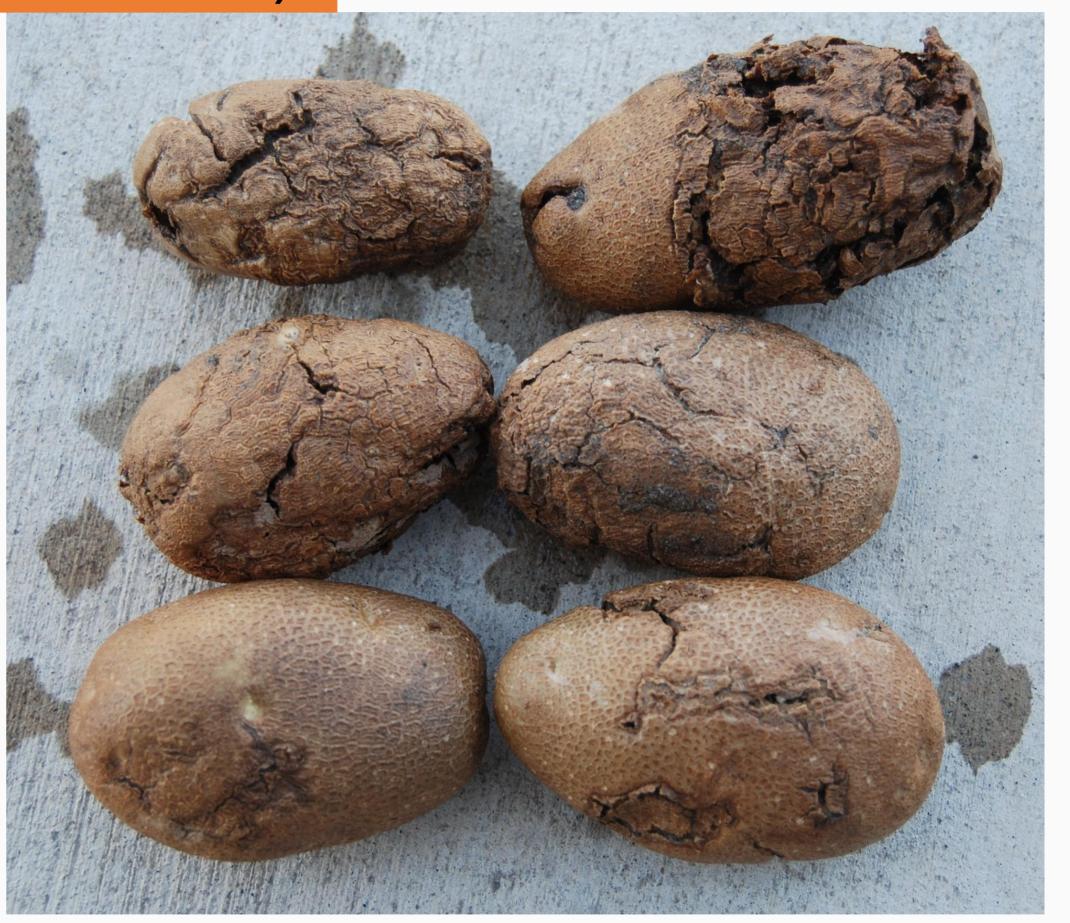






## Bacterial Ring Rot (Clavibacter sepedonicus)







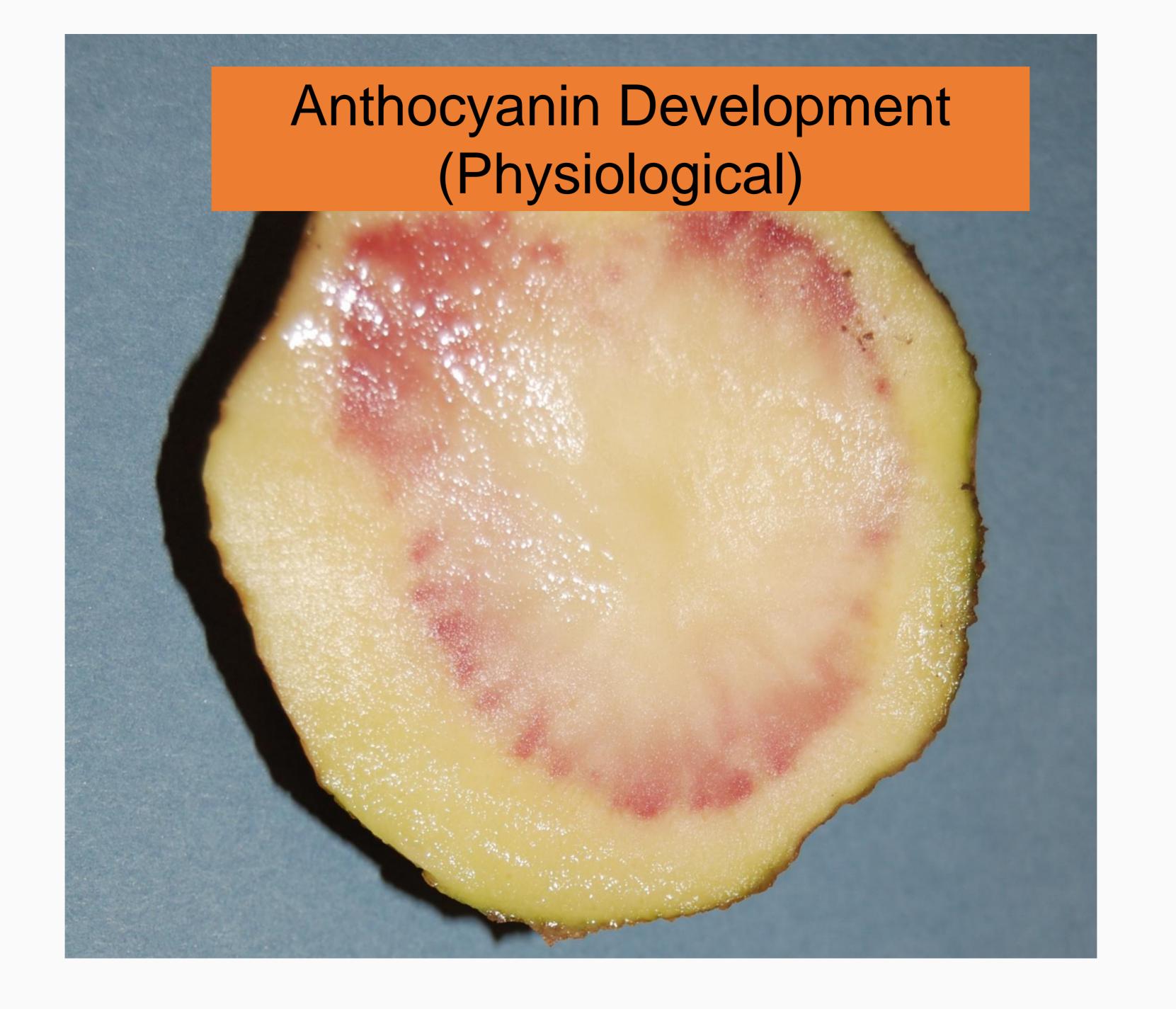
Red variety -- BRR



Ranger Russet NOT BRR



Alturas- YES BRR







Russet Norkotah – Zebra chip

#### Zebra chip



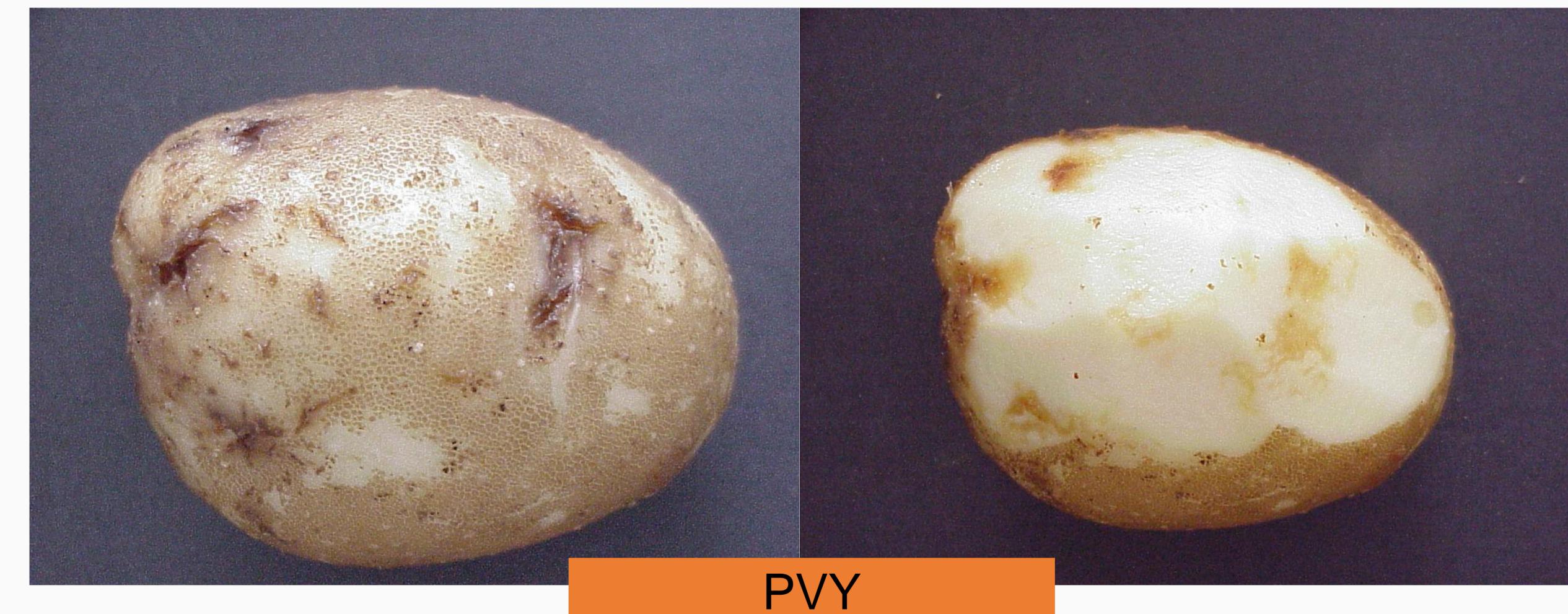
Russet Norkotah – Zebra chip, PVY Nwi, PVS



Russet Burbank- steamed peeled - Zebra chip

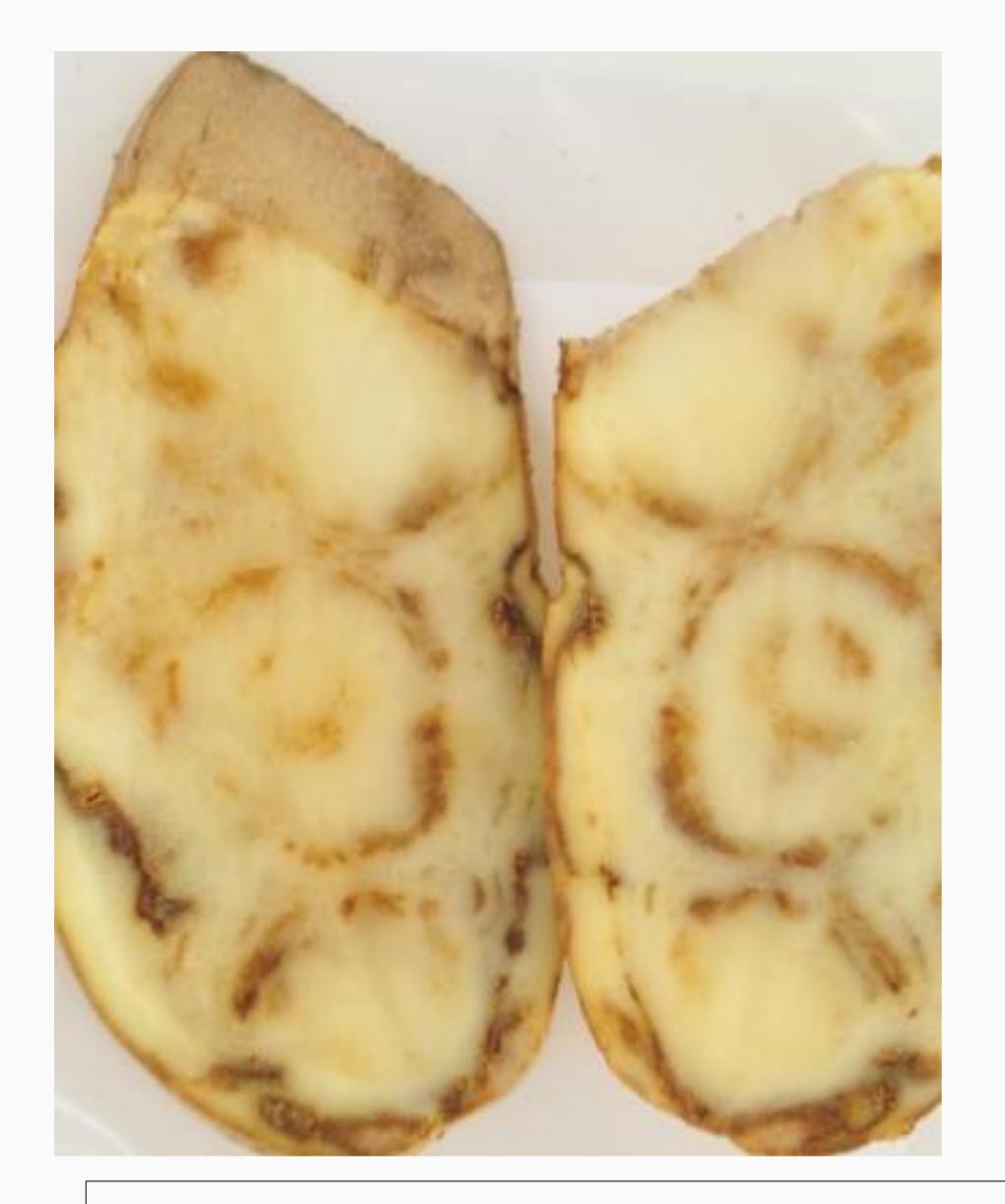


Russet Burbank– Zebra chip and pink rot



PVY
Potato Virus Y

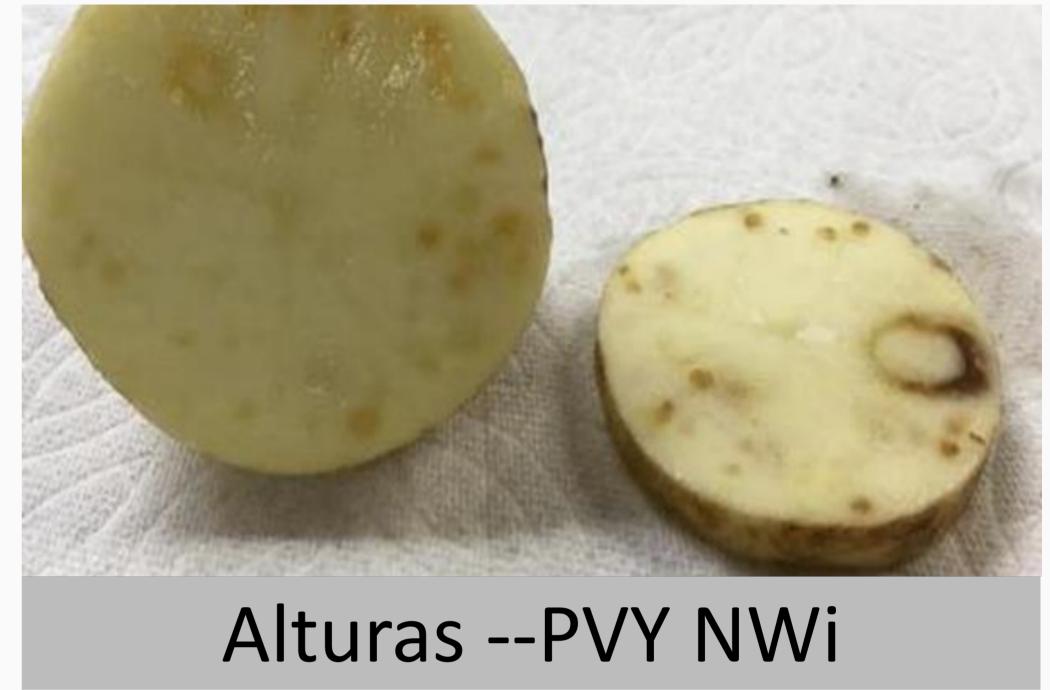






Russet Norkotah – PVY NTN and NWi



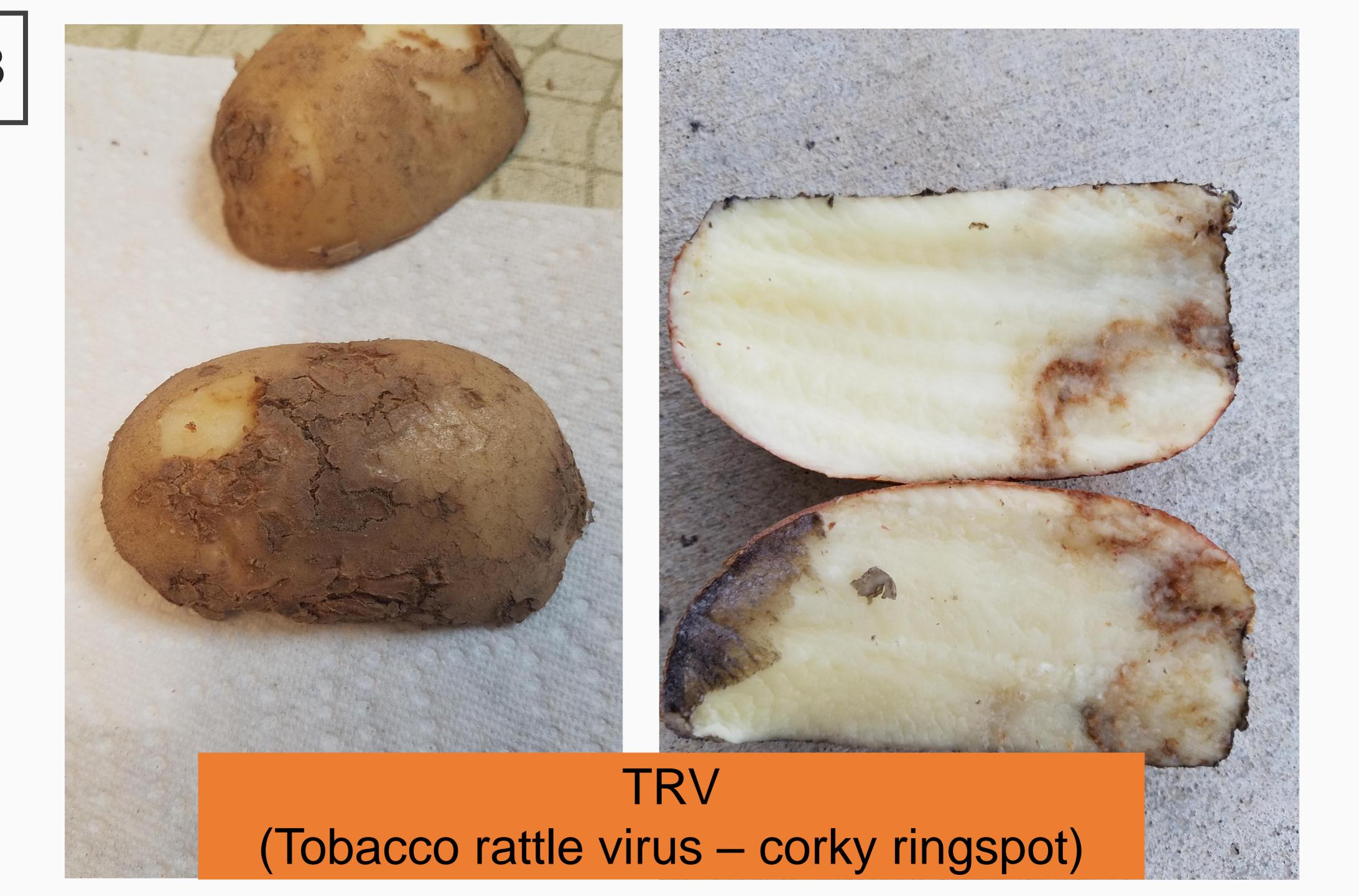




#### Hey, I found this today... What is it?



Looks like PVY. Get us a sample so we can submit it for verification and strain







Ranger Russet – Tobacco Rattle Virus (TRV)

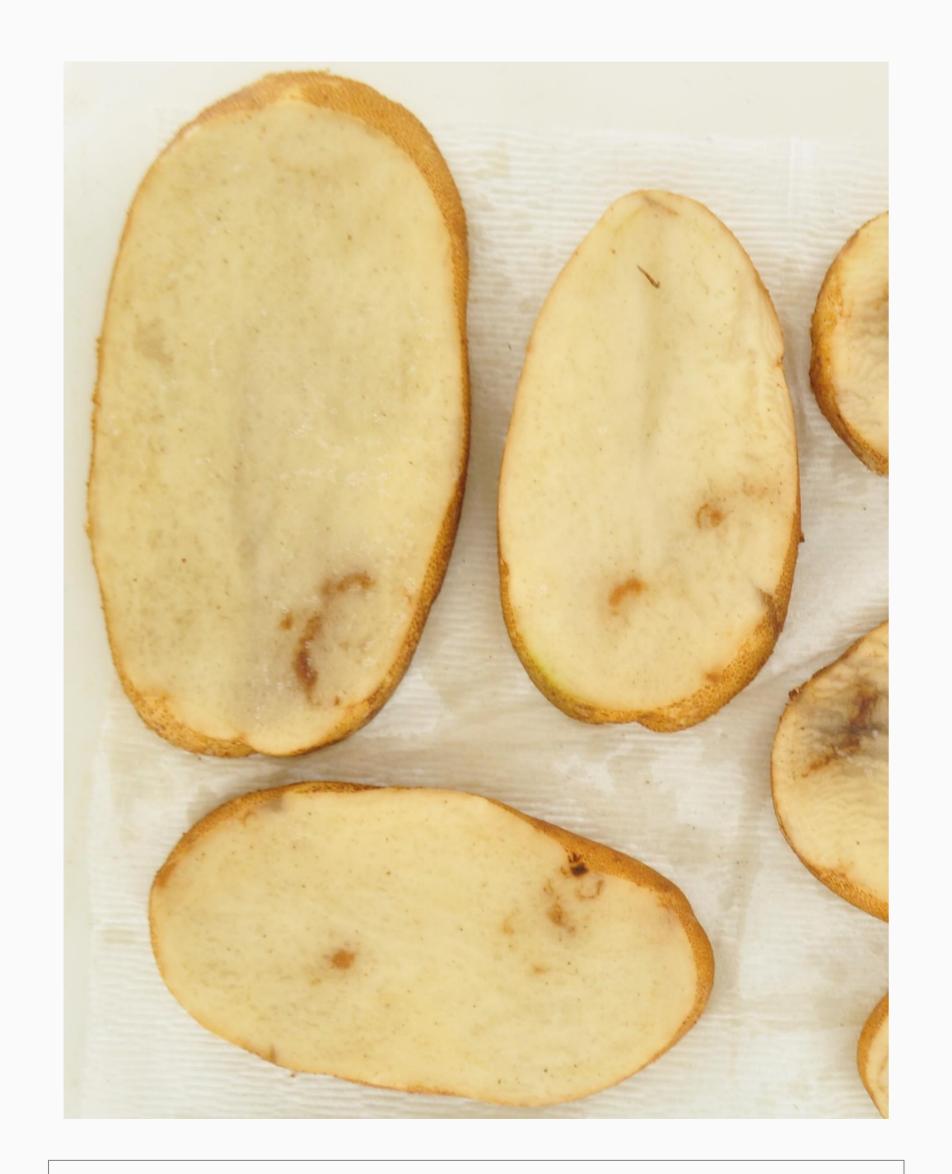
Do some of the different viruses cause similar symptoms?

Can more than one virus be in a tuber at a time?





Clearwater Russet -- PMTV, PVY N-Wi, PVS and PVX



Clearwater Russet TRV, PVY NTN, PVS



**Russet Norkotah TRV** 









#### Come to the PAA Annual Meeting



# Use the QR code to evaluate the Idaho Potato Conference and be entered to win a \$100 gift card!





How to Use a QR code...

- 1. Open the camera app on your smartphone.
- 2. Line up the camera viewer on your phone with the QR code you want to scan and hold the phone steady until the app can read the code in front of it.
- 3. After a moment, a web link will appear on the phone screen, usually near the top.