

## FABI STUDENT CONDUCTS OUTREACH AT ARBOR WEEK EXPO

PhD student, Joey Hulbert recently attended the Arbor Week Expo in Stellenbosch to conduct outreach, raise awareness, and engage secondary school students in his plant pathology research. After collecting samples in the surrounding Fynbos, Joey organised a display where students could participate as 'Pathogen Hunters' attempting to isolate *Phytophthora* species from unhealthy plant material.



*Phytophthora* species have a long history in the Cape floristic region, where *P. cinnamomi* was implicated as the cause of root disease of many Proteaceae in the mid-1980s. He plans to build on that knowledge by conducting a survey of *Phytophthora* species in the Fynbos with a citizen science project. Citizen science refers to the inclusion of non-scientists in the process of scientific research. He hopes to engage more students and more of the public with the creation of Cape Citizen Science.

# BECOME A PATHOGEN HUNTER!

## YOU BE THE SCIENTIST!

### CITIZEN SCIENCE

CITIZEN SCIENCE PROJECTS PROVIDE OPPORTUNITIES FOR THE PUBLIC TO GET INVOLVED IN SCIENCE AND CONTRIBUTE TO RESEARCH!

YOU ARE INVITED TO PARTICIPATE IN A RESEARCH PROJECT ABOUT PLANT DISEASES IN THE FYNBOS OF THE CAPE PENINSULA.

### PATHOGEN HUNTERS

PLANT PATHOGENS ARE MICROSCOPIC ORGANISMS THAT CAUSE DISEASE IN PLANTS.

THERE ARE MANY SPECIES OF PLANT PATHOGENS THAT HAVE NOT BEEN DISCOVERED.

YOU CAN JOIN THE HUNT FOR THESE PATHOGENS!

### CAPE PENINSULA

JOIN US TO HUNT FOR PATHOGENS IN THE FYNBOS OF THE CAPE PENINSULA!



### THE FYNBOS

THE FYNBOS IS THE SMALLEST AND RICHEST FLORAL KINGDOM IN THE WORLD.

IT HAS UNMATCHED PLANT DIVERSITY AND ENDEMISM, CONTAINING MANY SPECIES THAT DO NOT EXIST ANYWHERE ELSE.

UNFORTUNATELY, THE BIODIVERSITY OF FYNBOS IS THREATENED BY INVASIVE SPECIES SUCH AS THE PLANT PATHOGEN *PHYTOPHTHORA CINNAMOMI*.

### PLANT DESTROYERS

*PHYTOPHTHORA* ARE PLANT PATHOGENS NOTORIOUS FOR KILLING PLANTS!

PHYTO = PLANT  
PHTHORA = DESTROYER

*PHYTOPHTHORA CINNAMOMI* IS A SPECIES ALREADY KNOWN FOR KILLING SILVER TREES IN THE FYNBOS.

JOIN US IN THE HUNT FOR *P. CINNAMOMI* AND OTHER SIMILAR SPECIES!



### WHY PARTICIPATE?

GET RESEARCH EXPERIENCE!

MEET SCIENTISTS!

A CHANCE TO HAVE A SPECIES NAMED AFTER YOU!

WIN PRIZES FROM SAMPLING CONTESTS!

LEARN MORE ABOUT THE FYNBOS, INVASIVE SPECIES, AND PLANT PATHOGENS!

### OBJECTIVES

PROVIDE AN OUTLET FOR EDUCATION OUTSIDE OF THE CLASSROOM.

CONNECT SCIENTISTS AND THE PUBLIC.

SURVEY THE FYNBOS FOR PLANT DESTROYERS.

### LEARNING OUTCOMES

PLANTS HOST COMMUNITIES OF MICROORGANISMS.

MICROORGANISMS CAUSE DISEASE.

INVASIVE SPECIES CHANGE ECOSYSTEMS.

BIODIVERSITY IS IMPORTANT.

SCIENCE IS RAD.



# CITSCI.CO.ZA

