

# Universal Fungal Identification Tool (UFIT) Workshop

7-9 MARCH 2023, PLANT DIAGNOSTIC CENTER, GAINESVILLE FL

funded by USDA-NIFA-AFRI-Tactical Sciences for Agricultural Biosecurity-2021-68013-33758

## Monday – Plant Diagnostic Center tour and mini protocol workshop (optional)

12:00-16:30 – (optional) Tour of PDC and discussion/demonstration of diagnostic protocols

16:30 – Travel to accommodations

## Tuesday – Fragmentation, barcoding, and enrichment Part I

08:30-09:00 – Welcome and workshop overview – Presentation

09:00-12:00 – DNA fragmentation of DNA samples - Methods and Protocol

12:00-13:00 – Introductions over lunch (provided) for rabbits and working lunch for turtles

13:00-18:00 – Barcoding and Enrichment Part 1 – Methods and Protocol

## Wednesday – Enrichment Part II and sequencing

09:00-12:00 – Enrichment Part 2 – Methods and Protocol

12:00-13:00 – Working lunch (provided) – Discussion of samples and comparisons among DNA extractions

13:00-17:00 – Minion sequencing – Methods and Protocol

17:00-TBD – Backyard BBQ

## Thursday – Bioinformatics and analysis

09:00-10:00 – Metagenomic overview and Illumina methods – Presentation and code

10:00-12:00 – Data Processing and Read assembly – Presentation and code

12:00-1:00 – Working lunch (provided) – Diagnostician and taxonomist archival needs

13:00-16:30 – Phylogenetic trees for taxonomic inferences – Presentation and code

## Friday – Wrap-up and ProForest Meeting (optional)

09:00-12:00 – (optional) Tour of Genetics Institute (ICBR) core facilities and comparisons of in-field sampling protocols

12:00 – Participants depart and transfers to airport