

# Nwadiuto (Diuto) Esiobu



- Position
  - ▣ **Professor, Biological Sciences, FAU**
- Research Interests
  - ▣ **Applied & environmental microbiology**
  - ▣ **Plant-Microbe interactions**
  - ▣ **Ecology of pathogens *and climate change***
  - ▣ **Beach quality**
  - ▣ **Sustainable development**
- Other synergistic efforts...
  - ▣ **Strong international science network**

# Esiobu Microbial Biotech Lab

## Plant-Microbe interaction

- Microbes & allelopathy in the invasion of the Brazilian Peppertree
- Does the success of invasive plants depend on soil microbial community shifts

Can microbial community shifts predict of health / disease in humans? Case of the oral microbiome and other niches

- Can microbial community shifts predict soil disturbance and restoration?*
- Can microbial community fingerprints serve as early predictors of climate change and effects?*

What is a good indicator of beach sand quality from a public health perspective? Can we track the sources of contaminants?

## Ecology of Pathogens

- What is the role of the environment & climate change on the emergence of drug resistance?

*Creation of Bio-resources such as biofertilizers for sustainability*

- Also recovery of microbial resources

