



# Laboratory for Integrative Biology



## Plant Systematics, Reproductive Ecology, Conservation and Orchidology



### James D. Ackerman

Orchid flora of the Greater Antilles. Biology of invasive orchids of Puerto Rico. Land use history and distribution of orchids. Caribbean biogeography.



## Reproductive Biology



### Ana A. Cuevas

Floral fragrance sampling at an insect's spatial and temporal view. Evolution of chemical attraction in the orchid genus *Lepanthes* in Puerto Rico. The role of fragrance in deception: scent variation in food deceptive pollination systems.

PhD student



### José Camilo Fagua

*Melocactus intortus* (Cactaceae): pollinator effectiveness, mating system and phylogeography. Flower color variation in *Spathoglottis plicata* and its relationship with reproductive success.

MS students

### Nadia Paola Flores

Reproductive ecology of *Tabebuia* (Bignoniaceae): floral morphs and pollinators along an altitudinal gradient. Effects of moss cover on seed germination and seedling establishment in *Lepanthes rupestris* (Orchidaceae). Effects of light, imbibition and scarification on seed germination of *Melocactus intortus* (Cactaceae).



### Marcia Muñoz

Seed dispersal of invasive species by generalist birds. Effects of light, imbibition and scarification in seed germination of the cactus *Melocactus intortus*.



Undergraduate students

### Gabriel Maldonado

Is flower color polymorphism in *Spathoglottis plicata*, an invasive orchid, maintained by differential reproductive success?



### Daniel Reyes

Effects of light, imbibition and scarification in seed germination of the cactus *Melocactus intortus*



## Floristic Inventories

Undergraduate students



### Laura K. Torres (UPR Cayey)

Creating electronic access to the herbarium collection at UPR's El Verde Field Station



### Carlos Rivera

Plant diversity in the proposed Manuel A. Pérez Urban Forest: creating a vouchered inventory of plants and making it accessible on the world wide web.



### Silvia Galva

Bryophyte diversity of Charco Azul, Carite Forest Reserve, Puerto Rico: collection and species identification.

## Herbarium



### Franklin Axelrod PhD Collections Manager

Collection and identification plants of Puerto Rico and the Caribbean  
*A Systematic Vademecum to the Vascular Plants of Puerto Rico*

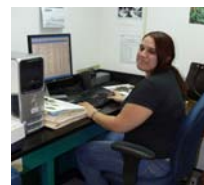


### Amelia Merced MS Database Manager

Project coordinator for herbarium database operations.  
Collection and identification of bryophytes of Puerto Rico.



**Adriana Herrera**  
graduate student  
Databasing and scanning of the collection



**Diana Quiñones**  
undergraduate student  
Databasing of the collection