**Plant Cy-nce Toy Box   
Checkout Agreement**

The Predictive Plant Phenomics (P3) Program brings together researchers with diverse backgrounds from the plant sciences, data sciences, and engineering. The goal of the program is to provide students with data-enabled science and engineering training, regardless of their level of involvement with the program. P3 has assembled these plant and environmental tool kits to aid graduate students’ research into plant growth and phenomics. These boxes were funded through the P3 NRT, which is funded by the National Science Foundation (grant no. DGE-1545453).

**As a Borrower of this equipment, I understand and agree that I will be required to complete the following:**

* The items contained within the Plant Cy-nce boxes should only be used for plant science research purposes.
* The borrower is responsible for saving files to the cloud or other memory device before returning the equipment.
* The two mini-processors should have all data files deleted upon return so that the devices are ready for use by the next user. P3 is not responsible for any lost data or documents.
* Damage to, loss, or theft of loaned equipment during the borrowing period must be immediately reported to P3 ([p3@iastate.edu](mailto:p3@iastate.edu)) and is the sole responsibility of the borrower
* All loans begin on a semester basis. If boxes remain in good working condition and more time is needed to complete a project, then an opportunity for checkout renewal will be provided for an additional semester.
* Equipment must be returned to 1077 Roy J Carver Co-Lab by 3pm of the due date.
* Upon return, the borrower will assist with the check-in process by ensuring all box contents are present and by detailing any equipment failures or damage.
* Any research published as a direct result of the measurements and/or use of this equipment must acknowledge the grant. More information on publication acknowledgement can be found [here](https://www.predictivephenomicsinplants.iastate.edu/files/page/files/acknowledgement_protocol_nsf_p3.pdf). (<https://www.predictivephenomicsinplants.iastate.edu/files/page/files/acknowledgement_protocol_nsf_p3.pdf>)

**CONDITIONS:**

Upon return, the borrower will assist with the check-in process by ensuring all box contents are present and by detailing any equipment failures or damage. Damage, loss, or theft of loaned equipment during the borrowing period is the sole responsibility of the borrower. Given the nature of the sensors and their uses, certain types of damage may be deemed unavoidable and will incur no cost. These determinations will be dealt with on a case-by-case basis.

The following violations may result in suspension of the borrower’s loan privileges, charges for the full cost of missing/damaged equipment, and/or other disciplinary action:

* Problems with, damage to, or the loss/theft of equipment not reported immediately to P3;
* Equipment returned 7 or more days past due;
* Failure to return equipment; or
* Violating the equipment loan agreement.

**Plant Cy-nce toy box contents:**

* Manuals (in sleeve protector)
* Color Card
* USB A-to-B
* MicroHDMI-to-HDMI
* Raspberry pi case
* Raspberry pi power supply
* Raspberry pi
* Inventor’s kit
* EMake fun gas sensor kit
* Belomo triplet lens
* Vegetronix soil moisture sensor
* Sensor kit & contents page (contents may vary by box)
  + Grove VOC & Eco2 sensor (kit #3, only)
  + SparkFun Air Quality Breakout - CCS811
  + Grove 6-axis accelerometer & Compass V2.0 (Kits #1-10)
  + Grove digital infrared temperature sensor
  + Grove digital light sensor
  + Grove PIR motion sensor
  + Grove speech recognizer
  + Grove time of flight distance sensor
  + Grove Real Time Clock for Arduino
  + Grove 4 Channel 16-bit color sensor
  + Adafruit soil moisture sensor
  + Arducam day-night vision camera for Raspberry Pi
  + Arduino
  + 64GB microSD card
  + Grove barometer sensor (BMP280)
  + OLED display (0.96”, 128x64)

**P3 Program Participation Agreement:**

I am fully aware of the nature and extent of my responsibilities as detailed above. I agree to return the Plant Cy-nce Toy Box by the due date ( / / ). I acknowledge that I will be given a signed copy of this participation agreement.

Borrower Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
Borrower printed name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_