

LAB PERIOD # 1
JANUARY 9 2013

I. LAB ACTIVITY : LEAF PETIOLE CUTTINGS

II. SCIENTIFIC NAME: Peperomia caperata

III. INITIATION

A. JANUARY 9 2013 AT 10:15 a.m.

B. COLLECTION - PLANTS WERE FROM THE PCC EAST GREENHOUSE. THESE WERE PLANTS THAT WERE PROPAGATED IN LAST YEAR'S CLASS

C. PROCESSING - USING A RAZOR BLADE, I CUT LEAVES WITH ~ 1 " PETIOLE FROM THE MOTHER PLANT. I DID 6 CUTTINGS. POTS WERE RINSED IN A 10% BLEACH SOLUTION. MEDIA WAS 2 COARSE PERLITE: PEAT MOSS BY VOLUME. CUTTINGS WERE STUCK INDIVIDUALLY IN 6-CELL PACKS. (ABOUT $\frac{3}{4}$ " DEEP).

D. PROPAGATION ENVIRONMENT - CUTTINGS WERE PLACED UNDER MIST IN THE EAST GREENHOUSE @ 8 SECONDS EVERY 30 MINUTES FROM 9 a.m. TO 5 p.m.

AIR TEMP IS 71°F ; SOIL TEMP IS 68°F

AMBIENT LIGHT - NO SUPPLEMENTAL LIGHT.



IV MONITORING

A. DATE & TIME: FEBRUARY 20 @ 11:00 a.m.

B. OBSERVATIONS

1. CUTTINGS APPEAR HEALTHY: NONE HAVE ROTTED
2. CUTTINGS "STICK" WHEN TUGGED ON
3. CUTTINGS HAVE SMALL (.5 TO .75 INCH) WHITE ROOTS RADIATING FROM THE BOTTOM OF THE PETIOLE
4. IT IS TIME TO REMOVE THEM FROM MIST.
5. THERE ARE NO SHOOTS YET.

C. HYPOTHESES

1. CUTTINGS HAD PROPER CONDITIONS (MOISTURE, AIR, LIGHT) FOR ROOTING.
2. Peperomias ARE EASY TO ROOT FROM LEAF PETIOLE CUTTINGS.

D. ADDITIONAL QUESTIONS

1. HOW WOULD SEASON OR TIME OF YEAR AFFECT ROOTING?
2. WOULD USE OF HORMONE SPEED UP ROOTING OR INCREASE ROOT DENSITY?
3. COULD I ROOT THESE WITHOUT MIST?