

**Title:** The Effect of Varying Levels of Humidity on Tuberous Roots of the Plantlets of a Spider Plant

**Hypotheses:** **Alternate:**  
*Increased humidity will have a positive influence on the growth of tuberous roots*

**Null:**  
Increased humidity will have no significant influence upon the growth of tuberous roots

**Independent variable:** Humidity Levels

<b>Levels:</b>	<b>Increased Humidity (Wet Sponge with 10mL water)</b>	<b>No Increased Humidity (no sponge)</b>
<b># trials:</b>	<b>12</b>	<b>12</b>
<b>Control?</b>	<b>No</b>	<b>Yes</b>

**Dependent variable:** Growth of tuberous roots  
(length of roots after 20 days)

**Operational definition of dependent variable:** Average root length of plantlet =  
(sum of root lengths per group / number of plantlets per group)

**Constants:**

- Photoperiod
- Light intensity
- Air
- Space for growth
- Same bag type
- Initial water temperature
- Relative humidity