**Chlorophyll Stability – Hot and Cold**

Select intact (or most intact) leaf with even coloring across leaf, from the middle of the plant if possible. Wash the upper and lower surfaces of the leaf and dry on a paper towel. Cut leaf half on either side of the midvein. Label two petri dishes with the plant’s unique identifier and treatment (T- heat/cold treatment, C - control). Measure and record the chlorophyll content of both halves and place in the respective petri dishes.

*Chlorophyll - Hot*

Place the treatment petri dish in drying oven at 60°C and leave the control petri dish at room temperature for 1 hour. Maintain complete darkness of petri dishes by either turning lights off or covering with cardboard boxes. Measure and record the chlorophyll content of both halves.

*Chlorophyll – Cold*

Cold condition treatment leaves by placing the petri dish in the fridge at 4°C for 1 hour, covered with a cardboard box to keep leaves in darkness. Transfer to freezer at -18°C and leave for 1 hour. During this time, the control petri dish remains at room temperature in complete darkness. After the treatment, return all petri dishes to room temperature and rest in darkness for 2 hour. Measure and record chlorophyll content of both halves.