Trichomes isolation from Cistus leaves

1. Transfer the tubes containing the intact leaves to the liquid nitrogen tank to maintain them at cold temperatures and at close proximity to the laboratory bench for rapid preparation without thawing.

2. Remove the tube containing the intact leaves from the liquid nitrogen tank and add approximately 2 to 3 cm\(^3\) of finely powdered dry ice (prepared by wrapping a piece in clean paper towels and crushing it with a hammer).

3. Cap the tube loosely and vortex at maximum speed for approximately 1 min. This is efficient time to shear all the trichomes from the leaves.

4. To recover the trichomes, pure the contents of the tube into a pestle, frozen with liquid nitrogen. Remove leaves and place trichomes and dry ice back into the tube.

5. Leave the tube at -80\(^\circ\)C until total removal of dry ice.

6. Add into the tube the buffer needed for RNA extraction. Collect using the same extraction buffer trichomes from many tubes.