## Duckweed total genomic DNA isolation with CTAB

- 1. collect 0.2g plant material and place in 2ml eppendorf tube with 3 ball bearings. Flash freeze by dropping into liquid N2.
- 2. grind tissue with a Retsch grinder
- 3. add 800ul of CTAB working buffer in the tube
- 4. incubate at 60° (for 30min
- 5. vortex
- 6. extract DNA 2 times with chloroform/isoamylalcohol(24:1) 500ul
- 7. precipitate with 2/3 volume isopropanol(400ul)
- 8. microfuge 30min at room temperature
- 9. wash with 70°( ethanol
- 10. resuspend pellet in 30-50ul water(add 0.5ul RNase 5mg/ul)

## stock CTAB recipe

2% CTAB 2g

1.4M NaCl 28ml of 5M

200mM EDTA pH8 4ml 0.5M

100mM Tris-HCl pH8 10ml 1M

total 100ml

## 10 ml working CTAB buffer

stock CTAB 10ml

100mM B-ME(add fresh) 100ul

## Reference

Murray MG, Thompson WF: Rapid isolation of high molecular weight plant DNA. Nucleic Acids Res 1980, 8(19):4321-4325.