

## DNA extraction for rainforest plant species

modified from Scott & Playford 1996

Jer-Ming Hu Aug 1st, 1996

Grind 0.2g plant material using liquid N<sub>2</sub> or using Ottawa sand (.2g)  
+ 4ml Extraction Buffer at RT

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filter w/ Miracloth into eppendorf tube, spin 14000X rpm for 5 min

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remove supernatant, add remain filtrate and repeat the last step

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resuspend pellet w/ 400ml Wash Buffer

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+ 100ml 5% Sarkosyl, incubate at RT for 15 min

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(add b-mercaptoethanol to CTAB Buffer, preheat at 55°C)

+ 1 ml CTAB Buffer, incubate at 55°C for at least 30 min

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centrifuge 14000X rpm for 5 min, take supernatant and separate to two tubes

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+ 700ml CI (chloroform/isopropanol)

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centrifuge 10000X for 8 min, transfer supernatant to new tube

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+ 10ml RNase, incubate at 37°C, 15 min

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+ 65ml 7.5M NH<sub>4</sub>OAc

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+ 700ml ice-cold 95% ethanol, put into -80°C for 30 min (or -20°C overnight)

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4°C centrifuge for 15 min, air dry, resuspend pellet in 50ml TE

### Reference:

Scott, K.D. and J. Playford 1996. DNA extraction technique for PCR in rain forest plant species. *BioTechniques* 20(6): 974-978.