

# MOSS SPOROPHYTE INDUCTION

Prepare:

- Moss protonema tissue
- Peat discs (Jiffy 7), swollen with water. Autoclave in a plastic box (autoclavable) containing water to 1.5 cm deep.
- Sterile forceps

1. Clean the flow hood with ethanol.
2. Inoculate a peat disc with moss protonemal tissue. It does not matter how much, but the more you put on the quicker they grow.
3. Incubate at 25°C in continuous light for ~ 4 weeks, until you see that the culture is mostly covered with tall gametophores containing more than 5 pairs of leaf-like structures.
4. Incubate at 15 (or 16)°C with 16hr light - 8hr dark regime. You should see gametangia formation within 2 weeks and sporophytes should become visible within 3 weeks after the transfer.
5. The culture will stay healthy and continue forming sporophytes for some months.