

Testing *Marchantia gemmae* growth on solid media:

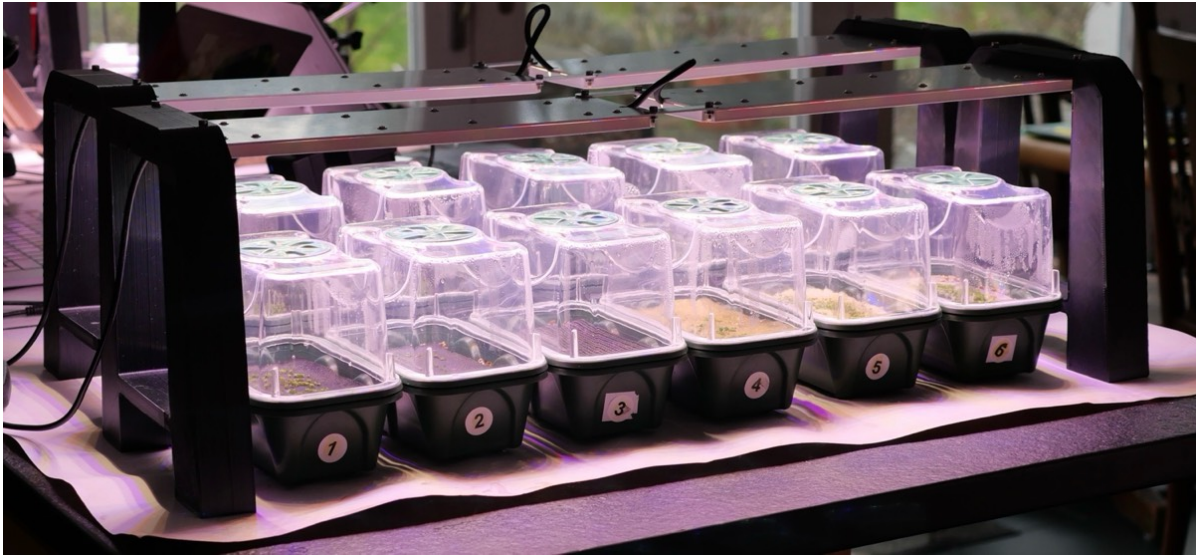
Planted on media 10 Feb 2024 in Easy Grow mini propagators - dual bases with drilled container inset into intact base, as container for sub-irrigation. Set up with 13cm x 7cm water matting in base, covered with media. Grown under LED panels at 50% intensity

Conclusions:

Jiffy7 peat disks and BioBizz compost mixes outperform the Jiffy Pro7+ and MiracleGro compost. The Jiffy media has a lower pH - close to pH 4. Drainage and oxygenation may play an important role. The vermiculite media became sodden with sub-irrigation, and performed relatively poorly. All media contained included fertiliser, with hydroponic nutrient added to the vermiculite. The (best-growing) Jiffy7 disks and BioBizz compost showed first signs of algal growth (high N levels?)



Drilled propagator bases



Setup for illumination ($\sim 150 \mu\text{mol}/\text{sec}/\text{m}^2$), constant 24h



Jiffy Pro7+ (Day 0)



Jiffy Pro7+ (Day 5)



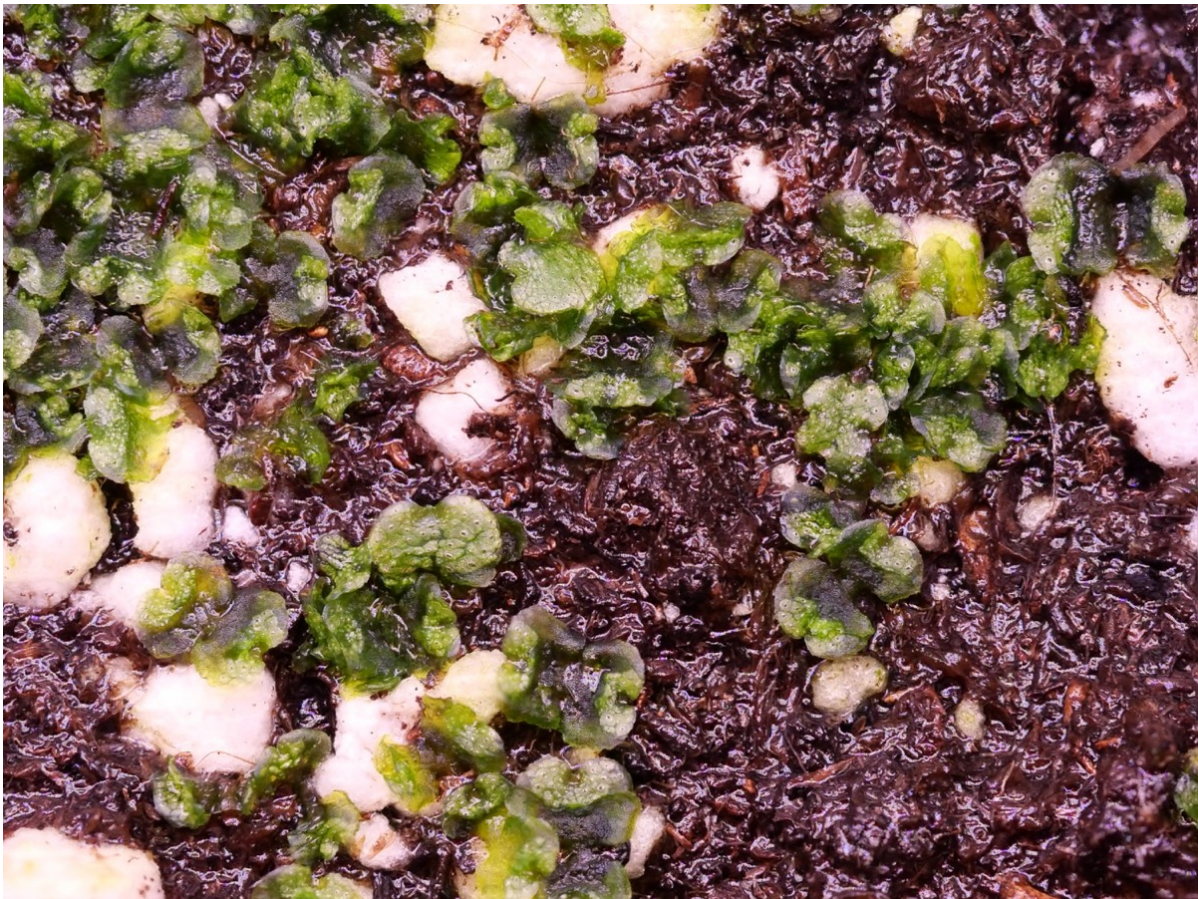
Jiffy Pro7+ (Day 7)



Jiffy Pro7+ (Day 14)



BioBizz media (Day 0)



BioBizz media (Day 5)



BioBizz media (Day 7)



BioBizz media (Day 14)



Miracle Gro peat-free Premium General Purpose Compost media (Day 0)



Miracle Gro media (Day 5)



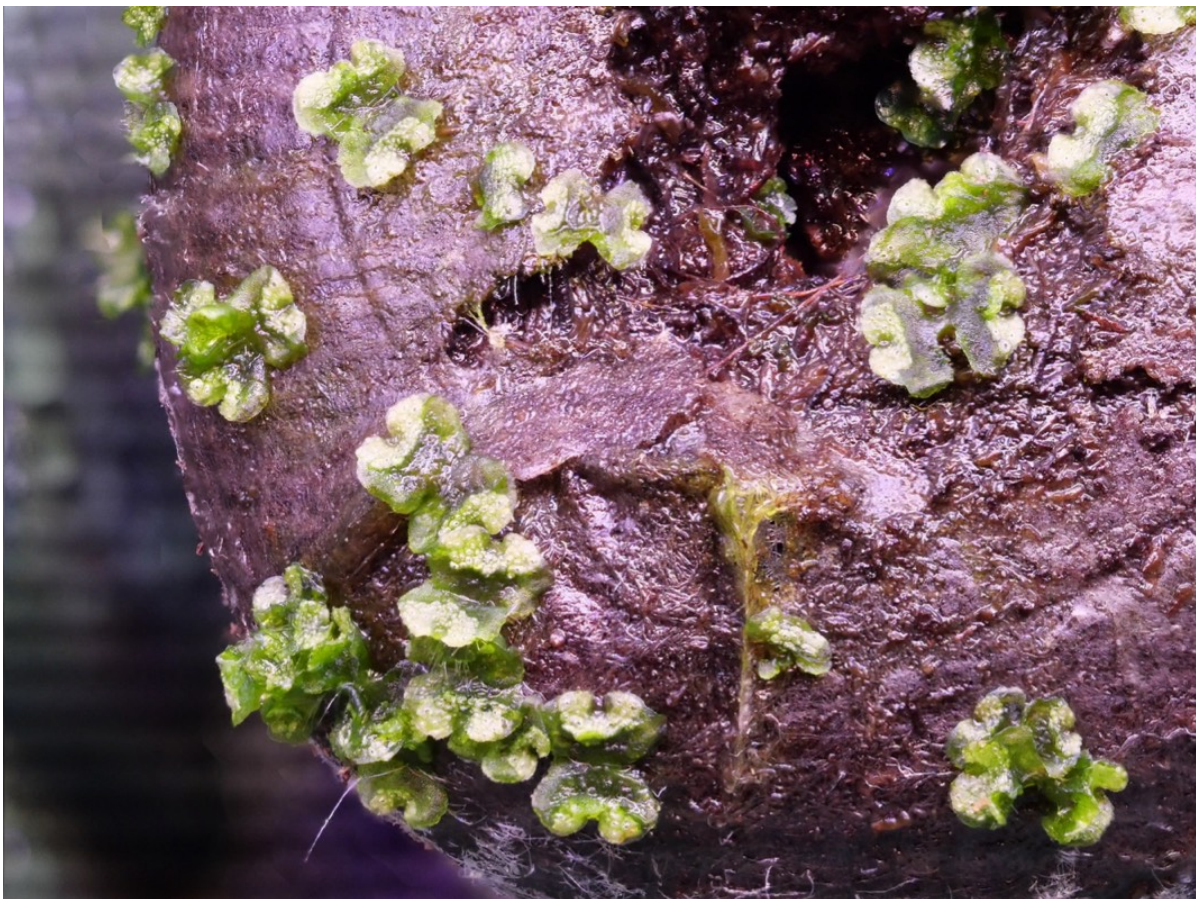
Miracle Gro media (Day 7)



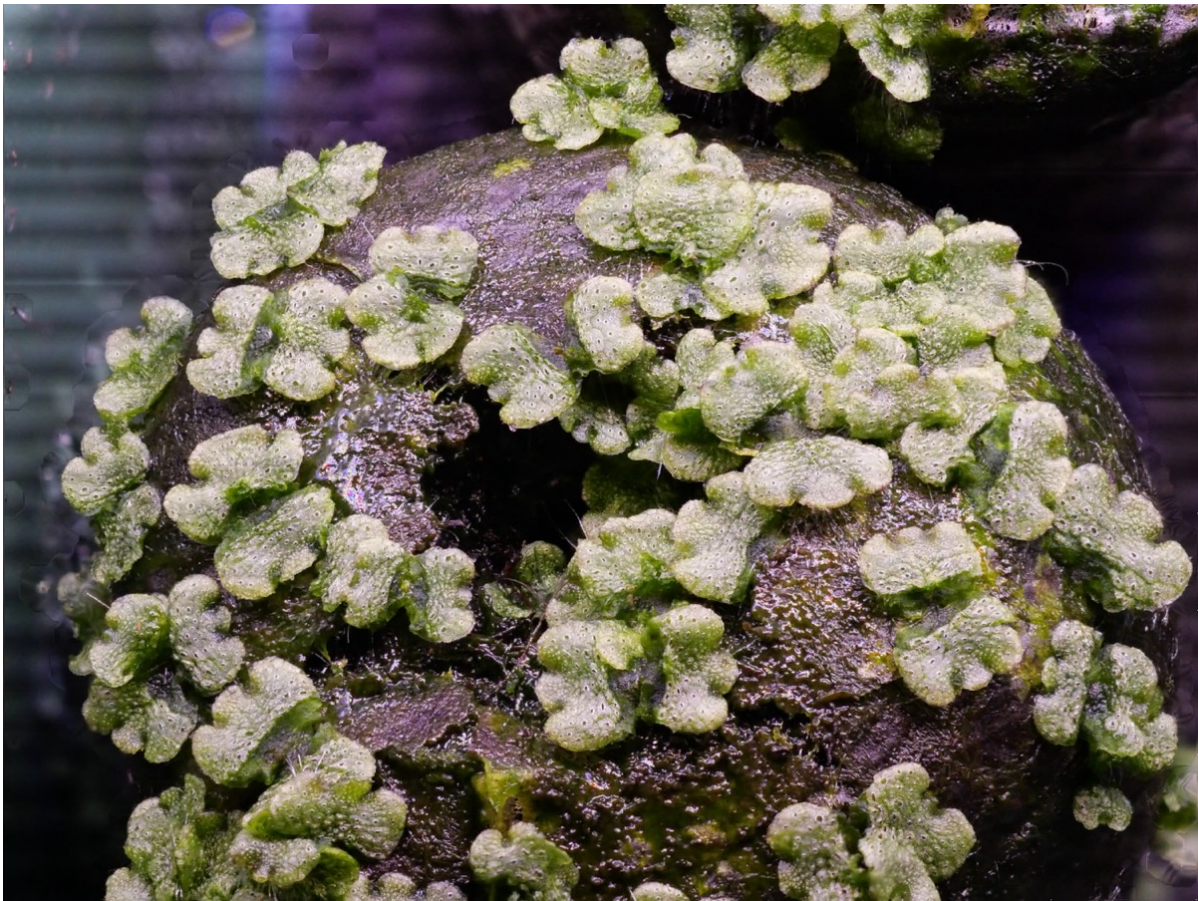
Miracle Gro media (Day 14)



Jiffy7 peat disks (Day 0)



Jiffy7 peat disks (Day 5)



Jiffy7 peat disks (Day 7)



Jiffy7 peat disks (Day 14)



Vermiculite media, fertilised with 3mL/L each A+B Samurai Grow hydroponics nutrient (Day 0)



Vermiculite media (Day 5)



Vermiculite media (Day 7)



Vermiculite media (Day 14)

Conclusion of experiment (Day 21)



Treatment 1: Jiffy Pro7+ (21 days)



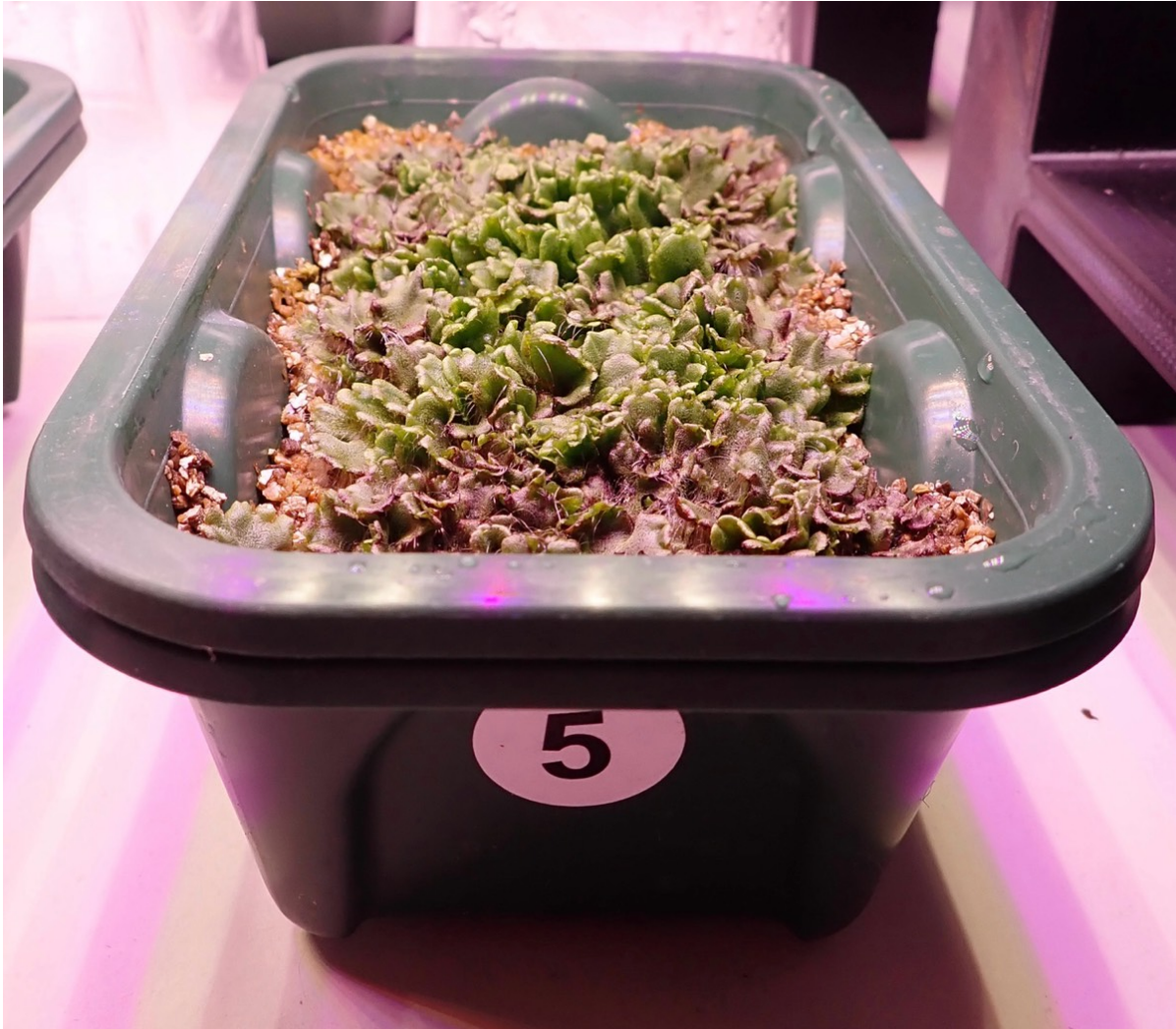
Treatment 2: BioBizz media (21 days)



Treatment 3: Miracle Gro peat-free Premium General Purpose Compost media (21 days)



Treatment 4: Jiffy7 peat disks (21 days)



Treatment 5: Vermiculite media (21 days)