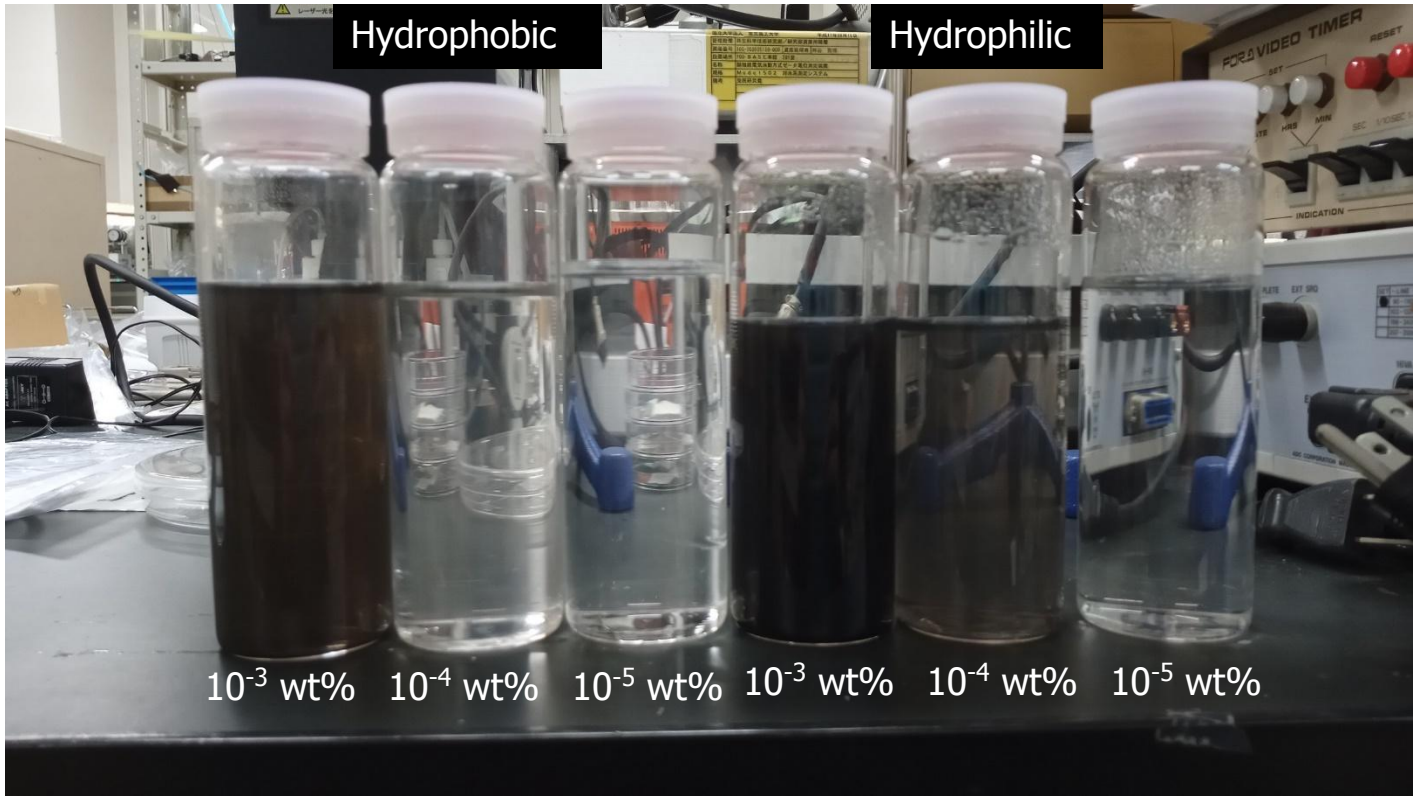
2. Deciphering the role of hydrophilic and hydrophobic candle soot particles to the germination of tomato (*S. lycopersicum*) seeds

Trying to make candle soot suspension assisted with Tiara san

1. Flame tip (hydrophilic)
2. Inferior flame (hydrophobic)

Faizal, F., Khairunnisa, M. P., Yokote, S., & Lenggoro, I. W. (2018). Carbonaceous nanoparticle layers prepared using candle soot by direct-and spray-based depositions. *Aerosol and Air Quality Research*, 18(4), 856-865.

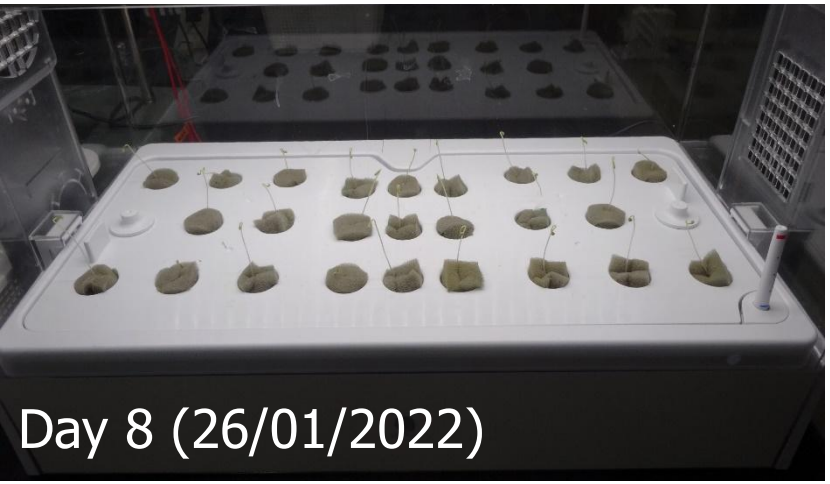
2. Deciphering the role of hydrophilic and hydrophobic candle soot particles to the germination of tomato (*S. lycopersicum*) seeds

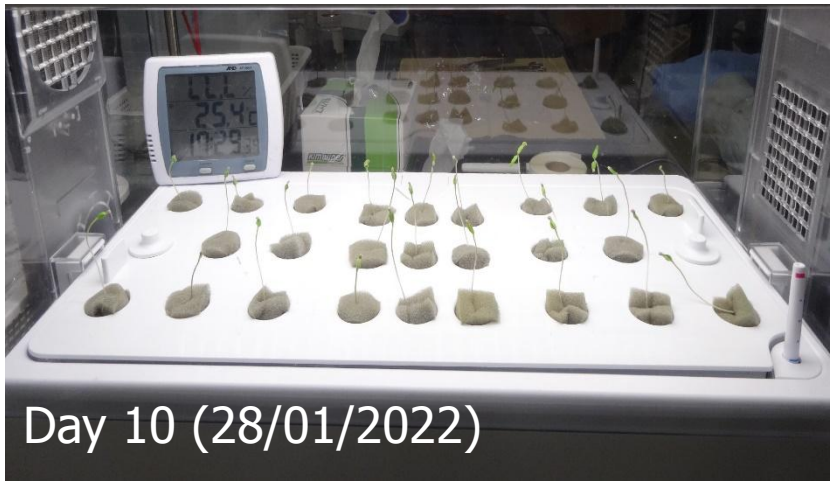


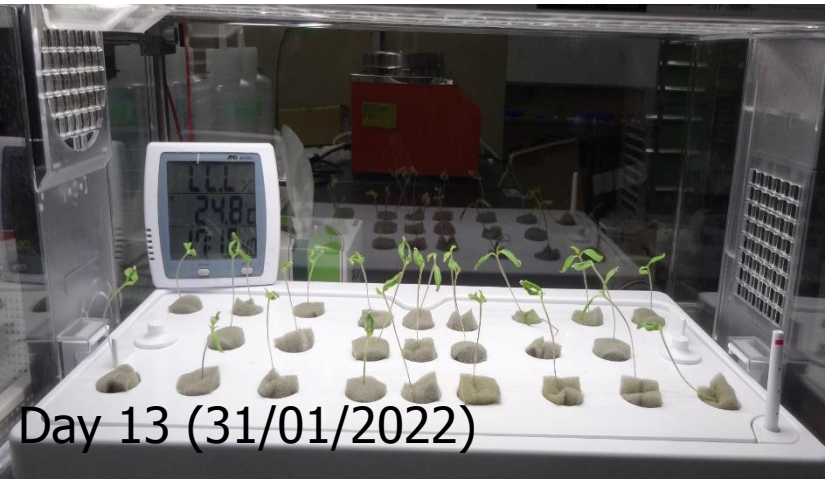
Do these concentrations appropriate for seeds germination?

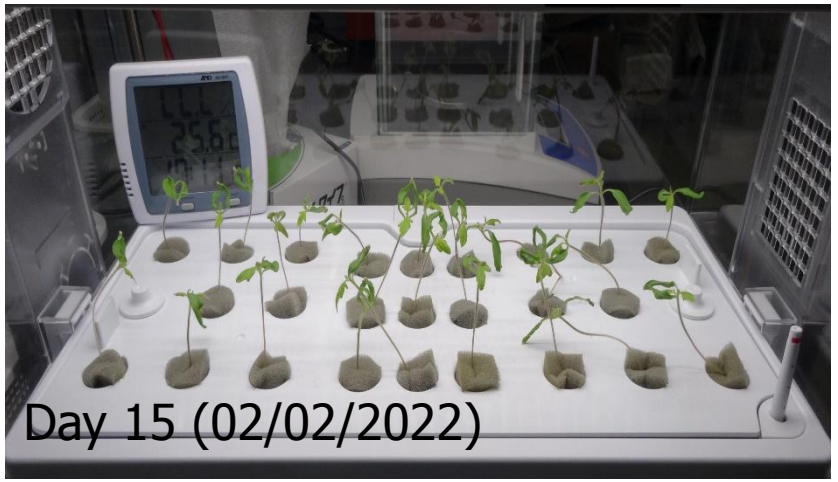
Type	Conc. (wt%)	pH
Hydrophilic	10^{-3}	7.84
	10^{-4}	7.74
	10^{-5}	7.66
Hydrophobic	10^{-3}	7.35
	10^{-4}	7.27
	10^{-5}	7.14

3. Transport distribution of silicon dioxide nanoparticles in the early seedlings of tomato (*S. lycopersicum*)









3. Transport distribution of silicon dioxide nanoparticles in the early seedlings of tomato (*S. lycopersicum*)


Day 18 (05/02/2022)


Day 21 (08/02/2022)


Day 23 (10/02/2022)


Day 24 (11/02/2022)


Day 27 (14/02/2022)


Day 28 (15/02/2022)

3. Transport distribution of silicon dioxide nanoparticles in the early seedlings of tomato (*S. lycopersicum*)

Growing tomatoes in cultivation chamber