

Ka Tissue Culture



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KA LAMPHRANG

Ka tissue culture ka dei ka rukom pynroi lane pynkha ia ki jingthung da kaba ym pyndonkam ia u symbai bad kiwei ki lad pynkha. Kane ka rukom pynkha ka lah ban long na ka jinglah jong ino ino I dkhot jong u jingthung ban pynkylia ia la ka jinglong iaw sha ka jinglong lung haduh ban da mih lane kylla jingthung ba pura. Ia kane ka rukom kylla la khot ha ka ktien phareng ka totipotency kaba la shem nyngkong eh da u Gotthlieb Haberlandth. Ka kyntien tissue culture ka mut kumne harum, Tissue kaba mut I dkhot met bad culture kaba mut ban thung.

Ha kane ka rukom pynkha ia ki jingthung lah ban pyndonkam da iwei na ki dkhot met jong u jingthung kum ki sla, ki shylluid bad kiwei de.

BALEI NGI LEH TISSUE CULTURE:

Ki jingthmu ki long kumne ha rum:

1. Ban pynkha shibun ki jingthung tang na iwei i dkhot kum i sla.
2. Ban pynkha bad pynroi ia ki jingthung ki bym lah ban ban pynmih symbai.
3. Ban pynroi ia ki jingthung kiba bha, ba lah ban pynmih bun bad ba lah iaishah ia ka jingpang.
4. Ban pynneh bad pynsah ia ki kynja jingthung kiba la jan duh jait.

MANO BA LAH BAN LEH IA KA TISSUE CULTURE:

Ia kane ka kam pynkha ki ju leh ha ki laboratory kiba don ha ki Research Institutions, ki Skul bah bad ruh ha ki company kiba iadei bad kane ka kam.

KI JINGDONKAM:

- Ka laboratory lane ka jaka trei kam
- Ka jingbam lane ka media
- Ka jaka buh ia ki tissue/dkhot kaba kyrpang bad kaba khuid. Hangne ia ka jingkhluut, ka jinglong haw-haw bad ka jingshai bad dum la buh kyrpang katkum ka jingdonkam
- Ka green house

KA JINGBAM KABA KYRPANG:

Ka jingbam na ka bynta ki dkhot/tissue ka long kaba kyrpang bad kaba la shet bha. Ha kane ka jingbam la ai ruh ia ki vitamin bad kiwei de ki hormone kum ki Cytokinin (BAP) bad Auxin (2,4- D, NAA) kiba iarap ia ki dkhot ban heh bad san sha ki jingthung ba pura. Ka MS (Murashige and Skoog) media ka long ka jingbam/media kaba pawnam tam.

KI KYNDON/STAGE HA KA TISSUE CULTURE:

- Stage O: Ka jingjied bad jingsumar ia ki jingthung na kaba yn shim ia ki dkhot/tissue

- Stage 1: Ka jingrah ia ki dkhot/tissue ha ki testtube bad container ba don ka jingbam/media
- Stage 2: ka jingmih ki tnad
- Stage 3: ka jingmih ki thied na ki tnad thymmai
- Stage 4: ka jingrah tynrai ia ki jingthung sha khyndew hadien ba ka pynkhlain ia ki

KA RUKOM LEH:

- Dei ban sait bad phon ia ki test tube, container ba don ka media/jingbam bad kiwei de ki tiar ha ka Autoclave machine ha ka jingkhluut ba 1210 C, pressure ba 15-21 psi haduh 20 minutes
- Ka jingsait bad sterilize ia ki dkhot/tissue ha ka Ethanol 70% bad kiwei de ki dawai(Sodium hypochlorite) ban sait ia ki dkhot khnang ban iap ki khniang jingpang
- Ka jingbuh ia ki culture lane ki container ha ki jaka sumar (culture room) kaba la buh ha ka $25 \pm 2^{\circ}$ C jingkhluut
- Ka jingsumar ia ki haduh ban da lah ban rah tynrai ban pynkhlain ia ki ha ka green house
- Ka jingthung ia ki ha ki kper

KI KYNDON BA DEI BAN PHIKIR:

Ka jaka trei, ki tiar trei, ka jingbam bad ki dkhot/tissue ki dei ban long kiba khuit bad ba lait na ka jingpang

Ka lyer ha ka jaka trei ka dei ban long
kaba khuit bad ia ka jaka trei dei ban da
niad da ka ethanol bad kumjuh ruh ia ki kti
trei

Ka jakabuh(Culture room) ia ki culture
lane ki dkhot ka dei ban long kba khuid
bad pyngngad

Ki jingthung lane ki tynrai ba la mih na
ki dkhot hadien ka tissue culture dei ban
sumar ban pynkhlain ia ki shuwa ban rah ia
ki ban thung ha kper.



*Ki jingthung hapoh ki test tube ba la
pynmih da ka tissue culture*

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Na ka bynta ka jingtip ba kham
bniah, lakynduh ia ki
Officers ka KVK, West Khasi Hills