

# Bio-Trek: The Life Science Experience

by Faculty of Biotechnology and Biomolecular Sciences

[www.biotech.upm.edu.my](http://www.biotech.upm.edu.my)



The BioTech UPM Summer Program (BSP), called BioTrek Experience, offers its participants the opportunity to explore the fascinating journey of biotechnology in everyday life, specially tailored with a local flavour. BSP offers the possibility of combining fun hands-on laboratory sessions of Do-It-Yourself (DIY) science, product manufacturing and packaging as well as exciting site visits. It also includes cultural trips to Kuala Selangor and Kuala Lumpur to provide participants with the opportunity to explore rural and urban Malaysia.

### Eligibility & Requirements

- Undergraduate students
- English proficiency: Basic English communication skills
- A recommendation letter from the home institution
- A letter of consent from your parent or guardian (if needed)
- A copy of passport (cover and inner first page)



#### TREK 1 FROM MOLECULES TO TISSUES

- Squishy science hands-on experience: DNA Extraction from local fruits
- Beyond the eyes: A look at cells & tissues
- Criminal Minds & Crime Scene Investigation
- Wondrous bees: A farm visit

#### Week 1



#### TREK 2 BIOMANUFACTURING & BIOPROCESSING

- Traditional DIY Virgin coconut oil (VCO)
- DIY Yogurt
- Bioprocessing & Biomanufacturing Research Centre (BBRC) site visit



#### TREK 3 AMAZING WORLD OF MICROBES

- DIY Malaysian fermented food: Tapai & Tempeh

#### Week 2



#### TREK 4 FROM WASTE TO WEALTH

- Biomass & Biorefinery Pilot Plant visit
- Biochar, biodiesel & biocompost production
- Nano-fiber-cellulose production



#### TREK 5 PLANT ON PLATES

- Hands-on plant tissue culture experience



#### TREK 6 & 7 MALAYSIA "BALIK KAMPUNG" & URBAN EXPERIENCE

- Trip to Kuala Selangor
- Malay traditional house
- Paddy field
- Traditional fishing
- Central market
- Petronas Twin Towers
- National Museum

### Programme Inclusive of



Transportations



Learning materials



Certificate



Accommodation



Outdoor and indoor activity



Buddies



Meals



Excursions

For details please contact:  
**Deputy Dean (Academic & Student Affair)**  
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