

Keynote Paper

The role of soil microbes in soil health for sustainable agriculture production (Dr. Suhaimi Masduki, MARDI)

Fellow MSSS Paper 1

Soil health and carbon sequestration: The beginning of carbon footprint in products (Dr. Chan Kok Weng - MPOB)

Fellow MSSS Paper 2

After three generations of oil palm planting: is there a need for sulphur and micronutrient fertilizers? (Prof. Dr. Zin Zawawi Zakaria, UNIMAS)

Soil Biology and Plant Health

- Insect diversity: Their impact on enhancing plant health and crop production (Dr. Norowi Abdul Hamid, MARDI)
- Screening of lignocellulose degradation by microbial isolates from rice straw compost under laboratory study
- Kang Seong Hang, UPM
- Earthworm population dynamics under the oil palm ecosystem on alluvial and sedentary soils of United Plantations Berhad (Vijiandran JR, United Plantation)

Soil Fertility

- Performance of Nitro Humic Acid (NHA) based paddy grain booster (Muhammad Syahren, MARDI)
- Effects of composts with different organic matter on soil phosphorus and potassium (Faridah Manaf, MARDI)
- Root characteristics and nutrient concentrations in rice (*Oryza sativa* L.) grown under different salinity conditions. (Momahamad Reza Momayezi, UPM)

Soil Chemistry

- Alleviation of aluminum in acidic soils and its effect on growth of hybrid and clonal oil palm (*Elaeis guineensis*, Jacq) seedling (Jose Álvaro Cristancho Rodríguez, UPM)
- Comparative tolerance of corn and groundnut grown on ultisols to soil acidity
- (Prof Shamshudin Jusop, UPM)
- Spatial variability of selected chemical characteristics of paddy soils in Selangor and Kedah (Siti Aisyah Wahid, UPM)
- Adsorption of formulated Chlorpyrifos on selected agricultural soils of Terengganu (Tay Joo Hoi, UMT)

Soil Microbiology

- Effect of root exudates carbon compounds on biological nitrogen fixation in rice (Umme Aminun Naher, UPM)
- Isolation, characterization and identification of endophytic bacteria in safed musli (*Chlorophytum borivilianum*) roots (Hayati Abdullah, UPM)
- Solubilization of inorganic phosphates by phosphate-solubilizing bacteria isolated from aerobic rice (Qurban Ali, UPM)

Soil Waste Management and Environment

- Cadmium and zinc concentrations in the oil palm soil system (Aini Azura, A., UPM)
- Potential of peat as a natural adsorbent in the removal of Cu, Fe, Mn and Mg from hydroponic waste (Liza Nuriati Lim Kim Choo, MARDI)
- Carbon sequestration in coastal soils under different land use (Assoc. Prof. Dr. Normah Awang Besar, UMS)

Soil Physics

- Physical changes to oil palm empty fruit bunches (EFB) and EFB mat (Ecomat) during their decomposition in the field (Christopher Teh Bung Sung, UPM)
- Soil moisture pattern in tropical lowland forest (Marryanna Lion, FRIM)

Fertiliser Management

- Effects of mixing urea with acid sulphate soil and humic acid on ammonia loss, exchangeable ammonium and available nitrate (Mohd Taufik, M.Y. UPM Bintulu)
- Rice farming and fertilizer management practices: the complexities (Dr. Shuhaimi Othman, MARDI)

Pedometric

- Statistical index as a rapid method to landslide risk zonation in the catchment scale: A case study - Jahan Watershed in the Northeast of Iran (Hadi Memarian, UPM)
- Applicability of Hydrus _2D Model for flow from point sources drip irrigation (Ahmed Ekhmaj, UPM)
- Spatial variability of soil organic carbon in oil palm (Law Mei Ching, UPM)