



# ICAR-Indian Institute of Oil Palm Research

## Research Papers - 2021

Anitha Pedapati, Mathur, R.K., Ravichandran, G., Babu, B.K., and Bhagya, H.P. 2021. Evaluation of bunch quality components in Dura x Dura progenies of Zambia and Camaroon sources of oil palm germplasm. *J Envi Biology*. 42(6): 1567-1577

Bhagya, H.P., Mathur, R.K., Ravichandran, G., Ramajayam, D., Kalyana Babu, B., Anitha, P., Murugesan, P., Sunilkumar, K., Somasundaram, G., and Rahana, S.N. 2021. Identification and selection of elite oil palm (*Elaeisguineensis* Jacq.) genotypes for utilization in a breeding program. *J Plant Crops*. 49(3): 162-167.

Kalyana Babu B, Mathur RK, Anitha P, Ravichandran G, Bhagya HP. 2021. Phenomics, genomics of oil palm (*Elaeisguineensis* Jacq.): way forward for making sustainable and high yielding quality oil palm. *Physiology and Molecular Biology of Plants*. 27(3): 587-604

Kalyana Babu, B., Mathur, R.K., Venu, M.V.B., Sandip Shil, Ravichandran, G., Anita, P., Bhagya, H.P. 2021. Genome-wide association study (GWAS) of major QTLs for bunch and oil yield related traits in *Elaeisguineensis* L. *Plant science*. 305: 110810.

Manorama Kamireddy, Sanjib Kumar Behera, Kancherla Suresh, MV Prasad, R K Mathur and P Harinarayana. 2021. Mulching and technological interventions avoid land degradation in an intensive oil palm (*Elaeisguineensis* Jacq.) production system. *Land Degradation and Development*. 32 (13): 3785-3797.

Manorama Kamireddy, Sanjib Kumar Behera, Suresh Kancherla. 2021. Establishing optimal nutrient norms in leaf and soil for oil palm in India. *Industrial Crops and Products*. 174 (2021): 114223.

Murugesan, P., Ramajayam, D., Preethi, P., Bhagya, H.P., Ravichandran, G., Anitha, P., Somasundaram, G., Mathur, R.K., Damodaran, V., and Pandey, V. 2021. Identification and evaluation of bunch components of Nigerian source oil palms (*Elaeis guineensis* Jacq.) from Hut Bay, Little Andaman Island, India. *J Envi Biology*. 42: 678-686. DOI: <http://doi.org/10.22438/jeb/42/3/MRN-1152>.

Prasad MV, Vidhan Singh T, Shivashankar S, Ananta Sarkar. 2021. Perception of oil palm growers on ablation tool performance in oil palm cultivation. *Andhra Agri. J*. 68(1): 120-125.

Sanjib K Behera, Arvind K Shukla, Kancherla Suresh, Kamireddy Manorama, Ravi K Mathur, Anil Kumar, Parasa Harinarayana, Chandra Prakash, Ajay Tripathi. 2020. Oil palm cultivation enhances soil pH, electrical conductivity, concentrations of exchangeable calcium, magnesium, available sulphur and soil organic carbon content. *Land Degradation and Development*. 31(18): 2789 – 2803

Sanjib K Behera, Kancherla Suresh, Arvind K Shukla, Kamireddy Manorama, Ravi K Mathur, Kaushik Majumdar. 2021. Soil and leaf potassium, calcium and magnesium in oil palm (*Elaeisguineensis* Jacq.) plantations grown on three different soils of India: Status, stoichiometry and relations. *Industrial Crops and Products*. 168 (2021) : 113589.

Suresh, K., Sanjib Kumar Behera, Manorama, K and Mathur, R.K. 2021. Phenological stages and degree days of oil palm crosses grown under sub-tropical conditions. *Annals of Applied Biology*, 178(1): 121-128. <https://doi.org/10.1111/aab.12641>