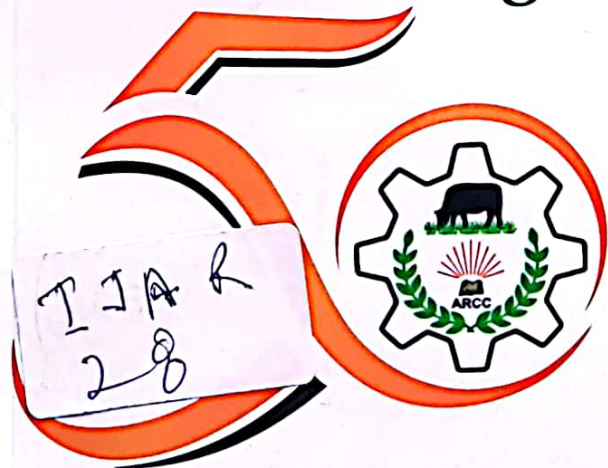


Indian Journal of Agricultural Research



Celebrating



Years of Success

www.arccjournals.com



**AGRICULTURAL
RESEARCH
COMMUNICATION
CENTRE**



REVIEW

Impacts of Agricultural Chemicals (Chemical Fertilizers and Pesticides) on Human Health and Environmental Sustainability: An Illustrated Case Study of Nathupur and Seoli Village in Sonapat District, Haryana State
B.A. Bhanushankar, Moni Madaswamy, Shivangi Srivastava, Himakshi Nagpal, Ruchi Kavatra 1491

PLANT BREEDING AND GENETICES

Genetic and Phenotypic Insights into Seed Characteristics for Enhancing Yield Potential in Mungbean [*Vigna radiata* (L.) Wilczek]
Anil Kumar, N.K. Sharma, Anita, Komal Shekhawat, Swarnlata Kumawat 1502

PLANT PHYSIOLOGY

Antioxidant Potentiality and HR-LCMS Profiling of Drought Tolerance Inducing Compounds from Groundnut Root Extracts
K. Raagavalli, K. Pradeepa, T.M. Sowmya, T.D. Kartik, Sourab Giri, S. Ravi Kumar, Sachin S. Nayaka 1510

Antibacterial and Antifungal Activity of Ethanol Extracts from *Centaurea montana*, *Centaurea macrocephala* and *Psephellus dealbatus*, Depending on the Phases of Their Phenological Development
Kazimova Kamila Shukhratovna, Shumatbaev Georgy Gennadievich, Menshova Angelina Nikolaevna, Nikitin Evgeny Nikolaevich 1520

Developmental and Quality Traits of Tomato (*Lycopersicon esculentum* mill.) Cultivars as Affected by Albit[®] Bio-stimulant
Bahran Knfe Yakob, Murat Sabirovich Gins 1528

PLANT PROTECTION

Performance Evaluation of Deep Learning Models for Multiclass Disease Detection in Pomegranate Fruits
B. Pakruddin, R. Hemavathy 1535

Screening of Groundnut Varieties against Bruchid, *Caryedon serratus* (Olivier)
Chintan Patel, Abhishek Shukla 1543

Assessment on Genetic Diversity in Proso Millet (*Panicum miliaceum* L.) Mutants for Yield and Yield Parameters Raised during M₂ Generation
P. Jayasakthi, R. Sathya, G. Selvakumar, P. Chandrasekaran 1548

AGRONOMY

Pre-emergence Herbicide for Controlling Weed in Various Sugarcane Genotypes Grown under Late Rainy Season
Ayuning Mawar Pringgani, Jidapa Khonghintaisong, Santimaitree Gonkhamdee, Patcharin Songsri, Nakorn Jongrungrklang 1552

Integrated Nutrient Management for Enhanced Maize Yield and Sustainability in Tamil Nadu, India
Rajeshkumar Arumugam, Ramadass Sivalingam, Chandrasekaran Perumal, Rajasekar Manivelu, Ashok Subramaniam, Saravanakumar Murugesan, Balasubramanian Padmanaban 1561

Effect of Varying Lopping Schedules and Stump Heights on Growth, Fodder Yield and Quality of Dual-purpose Barley (*Hordeum distichon* L.)
Sonial, Barkha, Kangujam Bokado, Heisnam Sobhana Devi 1570

Growth Attributes, Yield Attributes and Yield of Groundnut as Influenced by Intensification Through Groundnut (*Arachis hypogaea* L.)- Sweet Corn (*Zea mays* var. *saccarata*) Intercropping System
P.N. Parmar, H.M. Virdia, V.P. Patel, K.J. Khatana 1577

Influence of Planting Systems and Nutrient Management on Maize Growth, Yield and Light Interception in a Maize-soybean Intercropping System
Umesh Kumar Singh, Santosh Korav, Sourabh Kumar, H.T. Sujatha 1584

Effect of Surface Soil Removal and Organic Amendments on Growth, Yield and Nutrient Content and Uptake of Pea (*Pisum sativum* L.)
Haigupeung, K. Hapemo Nguilie, Sewak Ram, Manoj Dutta 1590

Effect of Conservation Tillage and Residue Mulch on Weed Dynamics and Productivity of Wheat Crop
Gugulothu Sumitra, S. Rajkumara, Kumar D. Lamani 1596

Performance of Different *Phalaris minor* Retz. Biotypes Growing with Wheat (*Triticum aestivum* L.) in Relation to Different Herbicides
Sangam, U.S. Walia 1602

SEED SCIENCE

Green Synthesis of Nanoparticles using Pea Peel Biomass and Their Assessment on Seed Germination of Tomato, Chilli and Brinjal Crop
Anjali Kanwal, Bikram Jit Singh, Suresh Kumar, Rippin Sehgal, Sushil Kumar Upadhyay, Raj Singh 1608

Quantify the Storage Span of Bio Primed Seed using Biocontrol Agents and Liquid Biofertilizers in Moong Bean (*Vigna radiata* L.)
Ankita Kumari, S.C Vimal, Shimar Mishra, Satyarth Gupta, Hitesh Kumar Yadav 1619