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In this issue

Research Article

Open Access Research Article PTZAID:OJPS-8-156

Assessment of Root Rot Pathogens of Common Bean (Phaseolus Vulgaris L.) and Reaction of Genotypes to the Pathogens in West Hararghe Zone, Ethiopia

Published On: June 27, 2023 | Pages: 037 - 055

Author(s): Abdela Usmael*, Mashilla Dejene and Getachew Ayena

Common bean root rot caused by fungal pathogens is an important disease affecting common bean crops in Ethiopia. Information on pathogen identification, characterization, and management options is lacking for the Ethiopian bean production system. This study aimed to assess the major causal fungal pathogens and their management through host resistance methods. Initiall ...

Abstract View Full Article View DOI: 10.17352/ojps.000056

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Determination of optimum planting time of different Sesame (Sesamum indicium L.) varieties for Chewaka district, Western Oromia, Ethiopia

Published On: June 27, 2023 | Pages: 032 - 036

Author(s): Chala Debela*, Alemayehu Dabesa, Tadese Birhanu, Teshome Gutu and Feyera Tekele

Sowing date is the major problem in the production and productivity of sesame in western Oromia Ethiopia. The experiment was conducted to identify optimum sowing dates for sesame varieties to produce better seed yields. A field experiment consisting of the combination of three sesame varieties and three sowing times employed Randomized Complete Block in factorial arra ...

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Pre-extension demonstration of bread wheat (Triticum aestivum. L) varieties at midlands of Guji zone, Southern Oromia, Ethiopia

Published On: June 27, 2023 | Pages: 027 - 031

Author(s): Dembi Korji* Basha Kebede* and Tekle Bobo

In Ethiopia, wheat is a strategic crop to solve food insecurity. However, there is a lack of improved variety which can increase surplus production. Thus, demonstration and use of improved and new variety are important for producers. This demonstration aimed to evaluate the yield performance and profitability of the Adola 1 bread wheat variety. Adola 1 and the local v ...

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Effect of tryptophan and glutamic acid on morphological traits of Iranian and Afghan saffron

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Author(s): Naseer Mokhles*, Azizollah Kheiry*, Mohsen Sani Khani and Dawlat Sha Poyesh

In order to investigate the effect of amino acids tryptophan and glutamic acid on the morphological traits of the saffron medicinal plant, a factorial experiment was conducted in the form of a randomized complete block design in three replications in 2018 in the research farm of Zanjan University. The experimental treatments include three genotypes (Iranian, Afghani 1 ...

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Open Access Research Article PTZAID:OJPS-8-152

Bacterial blight of Brachiaria caused by Burkholderia glumae in Colombia

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Author(s): Elizabeth Alvarez* and Michael Latorre

A new disease of Brachiaria was observed in 2009 at the CIAT experiment station in Palmira, Colombia, on plants of B. humidicola (CIAT accession no.16888). In 2016, the disease was observed on multiple genotypes of B. humidicola, Brachiaria hybrid cv. Mulato II, and Brachiaria hybrid Cayman. Symptoms included chlorosis along the midribs and yellowing on flag-leaf marg ...

Abstract View Full Article View DOI: 10.17352/ojps.000052

Open Access Research Article PTZAID:OJPS-8-150

A new method for rapid screening of seed vigority of cereals

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Author(s): Mansour Taghvaei*

Seed deterioration is one of the major problems in agricultural production in arid and semi-arid regions. Seed deterioration reduces seed vigor and seedling establishment in the field. To introduce methods with sufficient sensitivity to more accurately determine the degree of grain deterioration, various methods have been developed under the conventional name of "vigo ...

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Review Article

Open Access Review Article PTZAID:OJPS-8-151

Somatic embryogenesis induction of Syzygium cumini

Published On: March 01, 2023 | Pages: 005 - 009

Author(s): Mahrous H Mahrous*, Amr El-Hawiet, Amany E Ragab, Hala M Hammoda and Fathy K EL-Fiky

Somatic embryogenesis serves as an effective alternative system for in vitro cultivation of endangered plants (Syzygium cumini), as it allows for the propagation of plants under a controlled environment. So produce hundreds of embryos that can be used as artificial seeds. Somatic embryos of Syzygium cumini, family Myrtaceae, were induced from the calli of a

sterile le ...

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