

In this issue

Research Article

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## Speed breeding to accelerate crop improvement

Published On: June 02, 2022 | Pages: 178 - 186

Author(s): Temesgen Begna\*

Global food security has become a major issue as the human population grows and the environment changes, with the current rate of improvement of several important crops inadequate to meet future demand. Crop plants have extended generation times, which contributes to the slow rate of progress. However, speed breeding has revolutionized the entire world by reducing gen ...

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## Integration of annual forage legume with maize for better feed availability of livestock in maize dominated mixed farming system of Southern Region, Ethiopia

Published On: June 02, 2022 | Pages: 173 - 177

Author(s): Edao Shanku, Aman Getiso\*, Diribi Mijena and Fromsa Ijara

This study was conducted at Dore Befano and Meskan district of Sidma regional state and Gurage zone of south nation, nationalities, and peoples of southern Ethiopia's (SNNPR), where maize dominated. The trial was conducted to evaluate the outcome of under sowing lablab on the grain yield, Stover, and appropriate time and seeding rate of forage crop under sowing. The t ...

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## Food security and safety during Novel coronavirus (COVID-19)

Published On: May 21, 2022 | Pages: 166 - 172

Author(s): Wabi Bajo Nagessa\*, Francois Lusamaki Mukunda and Gemechu Geleta Abdi

This review paper was prepared by reviewing and summarizing several findings including research articles, FAO, and WHO databases concerning the pandemic and related issues. The security and safety status of foods during the pandemic outbreak and the possible solutions to food-related problems were also reviewed. The COVID-19 pandemic is currently not only affecting he ...

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## **Physicochemical and antioxidant properties of Coffea arabica honey from Western Oromia, Ethiopia**

Published On: May 17, 2022 | Pages: 159 - 165

Author(s): Admassu Addi\*, Tura Bareke, Deresa Kebebe, Tolera Kumsa and Kasim Roba

Coffea arabica is one of the most widely consumed and marketed commodities in the world. The study was designed to characterize C.arabica honey for botanical composition, physicochemical parameters, and antioxidant properties of honey. Twelve honey samples of C. arabica honey were collected during the flowering period of coffee flowers from the Zander hive. The physic ...

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## **Effects of photo-selective netting in Summer Beefsteak Tomato (*Solanum lycopersicum* L.) cultivation on the environmental conditions under nets as well as growth and yield**

Published On: May 16, 2022 | Pages: 153 - 158

Author(s): Kuei-Yuan Chang, Jun-Cheng Dai and Yu Sung\*

Located in a subtropical zone, Taiwan has intense summer sunlight that affects beefsteak tomato cultivation. In this study, beefsteak tomatoes were grown net-house under photo-selective netting of different colors to investigate netting performance. A significantly higher photosynthetic photon flux density (PPFD) was observed under the 24-mesh white (W24) and 24-mesh ...

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## **Importance of fenugreek (*Trigonella foenum-graecum* L) to smallholder farmers in the case of Eastern and Southern Ethiopia**

Published On: May 12, 2022 | Pages: 139 - 146

Author(s): Rameto Roba\* and Tariku Simion

Information on the diversity of landraces, cultivation practices, and feeding habits is necessary to improve the crops through selection and/or hybridization. This study was conducted to generate information to document cropping practices, values, and socio-cultural aspects of fenugreek. A study was conducted in five districts of Oromia and one yem special districts a ...

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## **Determinants of market participation decision and intensity of market participation in western Ethiopia: Evidence from smallholder tef producers**

Published On: May 06, 2022 | Pages: 125 - 133

Author(s): Kifle Degefa\*, Galmesa Abebe and Getachew Biru

Tef is the first crop produced in Ethiopia and the main staple food and income generation source. The productivity of the

crop is low due to different factors. This study aimed to identify factors affecting tef market participation decision and the level of market participation of tef producers'. Multi-stage sampling techniques were used to select appropriate sample h ...

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## **Challenges and opportunities of indigenous dairy production and management: The case of selected rural villages in Bambasi District, Benishangul Gumuz Regional State, Western Ethiopia**

Published On: May 06, 2022 | Pages: 105 - 124

Author(s): Fekadu Begna\*

The data sources were both primary and secondary data. To enable an analysis of data collected through questionnaire, Statistical Package for Social Sciences (SPSS) software (version 20) was used. The mean family size of the respondents was 6.04. The mean and SDs of cattle holding per household was (8.38±4.91). The total (67.9%) of respondents were having not have own ...

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## **New Rice (*Oryza sativa* L.) demonstration and popularization in Pawe district, Metekel zone, North Western Ethiopia**

Published On: May 05, 2022 | Pages: 102 - 104

Author(s): Tafere Mulualem Emrey\* and Desta Abebe Belete

Rice is one of the millennium crops that give more attention by the government of Ethiopia to bring food security across the nation. Research has been conducted on rice and released promising rice varieties by Pawe agricultural research center in collaboration with Adet agricultural research center in the past. The objective of this demonstration was to popularize and ...

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## **Characterization and optimization of Casimiroa (*Casimiroa Edulis*) fruit juice**

## using Response Surface Methodology (RSM)

Published On: May 04, 2022 | Pages: 090 - 101

Author(s): Tesfaye Zeru Genanew\*, Adamu Zegeye and Biniyam Tesfaye Banjaw

Background: Casimiroa edulis fruit is an underutilized seasonal fruit of Ethiopia, and is a rich source of many medicinal and nutritional properties. Casimiroa edulis is a fruit with good sources of different nutrients (minerals, vitamins, phytochemicals, and energy). The fruit is found in different parts of the country, Ethiopia. However, there are no clear research ...

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## Using farmers evaluation criteria as an essential constituent of variety popularization: The case of improved finger millet variety demonstration in selected districts of East Wallaga Zone

Published On: May 03, 2022 | Pages: 083 - 089

Author(s): Berhanu Soboka\* and Dubiso Gacheno

The study was conducted in the Boneya Boshe, Wayu Tuqa, and Diga districts of western Oromia, during the 2020 main cropping season. The objective of the study was to demonstrate a recently released finger millet variety to the farmers in the study areas. A new variety (Bako-09) was planted along with standard checks (Gute and Gudetu) on 100 m<sup>2</sup> adjacent plots, adhering ...

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## Aflatoxin contamination in dairy feed during wet and dry seasons in selected rural areas of Sidama zone in Southern Ethiopia

Published On: April 20, 2022 | Pages: 078 - 082

Author(s): Wubshet Tefera\*, Gerd Elisabeth Vegarud, Mestawet Taye and Tolosa Taye

This study was conducted in the southern region of Ethiopia. The objectives were to assess the occurrence and level of aflatoxin B1 contamination in dairy cow feeds. The analytical technique used was Enzyme-linked immunosorbent assay (ELISA). Two-way ANOVA was used to analyze the season and location interaction effect. Laboratory analysis showed that 81.2% of the feed ...

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## Review Article

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### Review on poultry production, processing, and Utilization in Ethiopia

Published On: May 14, 2022 | Pages: 147 - 152

Author(s): Abera Geleta Sime\*

The Ethiopian poultry population (chicken) is projected to be around 56.06 million, with indigenous, hybrid, and foreign breeds accounting for 88.19 percent, 6.45 percent, and 5.36 percent of the total poultry, respectively. Ethiopian poultry farming methods are typically low-productivity subsistence systems. This paper will now collect data on chicken kinds used for ...

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