



Revista de

CIENCIAS AGRÍCOLAS

An international journal of agricultural sciences

Online ISSN 2256-2273



Faculty of Agricultural Sciences
Volume. 43 Issue. 1 (2026)
January - April
Pasto - Colombia
e-ISSN 2256 - 2273



Universidad de Nariño
COLOMBIA

CEPUN



CENTRO DE PUBLICACIONES
UNIVERSIDAD DE NARIÑO



Volume 43 Issue 1



Cover photo by: Maykon
Rodrigo Gomes de Barros

Torobajo University Campus
18th Street, 50th Avenue,
block 2 - 2nd Floor

Phone
57 602 7244309
Ext. 1440

revistafacia@udenar.edu.co

e-ISSN Online 2256-2273



Universidad de Nariño
FUNDADA EN 1904

Editorial Team

Editor in Chief

Luis Carlos Martínez, PhD
Universidad de Nariño, Colombia

Eugênio Eduardo Oliveira, PhD
Universidade Federal de Viçosa, Brasil

Editorial Manager

Luisa María López, BA
Universidad de Nariño, Colombia

English Style Reviewer

Juan Esteban Lopez Rodriguez, MSc
Universidad de Nariño, Colombia

Jeiver Luna Ordoñez
*Bachelor's student in Spanish and English,
Universidad de Nariño, Colombia*

Layout Designer

Maria Elena Mesias Portillo
*Graphic Design, Universidad de Nariño,
Colombia*

Editorial Designer

David Eduardo Criollo
*Graphic Design Student,
Universidad de Nariño, Colombia*

Editorial and Scientific Committee

Angelica Plata Rueda, PhD
Universidad Nacional de Colombia, Colombia

Luis Oswaldo Viteri Jumbo, PhD
Universidad Nacional de Loja, Ecuador

Ricardo Alcántara-de la Cruz, PhD
Universidade Federal de Viçosa, Brasil

Hernan Jair Andrade Castañeda, PhD
Universidad del Tolima, Colombia

Julián Leal Villamil, PhD
Universidad del Tolima, Colombia

Carlos Molineri, PhD
Universidad Nacional de Tucumán, Argentina

Francisco Infante Martínez, PhD
El Colegio de la Frontera Sur, Mexico

Jairo Mora Delgado, PhD
Universidad del Tolima, Colombia

Charles A. Francis, PhD
University of California, United states

Alex Sander Rodrigues Cangussu, PhD
Universidade Federal do Tocantins, Brasil

José Miguel Dörner Fernández, PhD
Universidad Austral de Chile, Chile

Liliana Hoyos Carvajal, PhD
*Universidad Nacional de Colombia,
Colombia*

Jeffrey J. Stuart, PhD
Purdue University, United States

Edson Marcio Mattiello, PhD
Universidade Federal de Viçosa, Brasil

Gerhard Fischer, PhD
*Universidad Nacional de Colombia,
Colombia*

Liliana Di Feo, PhD
*Instituto Nacional de Tecnología
Agropecuaria, Argentina,*

Siavosh Sadeghian, PhD
*Centro Nacional de Investigadores de Café,
Colombia*

Olegario Pablo Muñoz Ugarte, PhD
Instituto de Suelos, Cuba

Aixa Ofelia Rivero Guerra, PhD
Universidad Estatal Amazónica, Ecuador



Editorial note

Climate change impacts, adaptation, and mitigation in global agriculture

Luis Carlos Martínez, Angelica Plata-Rueda
<https://doi.org/10.22267/rcia.2026431.283>

Research article

Genetic structure of *Phytophthora infestans* sensu lato assessed using microsatellite markers

Tharling Yadhannia Hernandez-Diaz, Edison Martinez-Palacios,
Claudia Elizabeth Salzar-Gonzalez, Luz Estela Lagos
<https://doi.org/10.22267/rcia.2026431.284>

Agronomic performance and nutritional profiling of *Theobroma grandiflorum* (cupuassu) clones under colombian amazon conditions

Pedro Alexander Velasquez-Vasquez, María Isabel Castro, Dagoberto Criollo, Esteban Diaz,
Juan Carlos Zambrano
<https://doi.org/10.22267/rcia.2026431.285>

Impact of regenerative agricultural practices on forage maize (*Zea mays* L.) yield under semiarid conditions

Rodrigo Tofiño-Rivera, Nelson V. Piraneque-Gambasica, Sonia E. Aguirre-Forero
<https://doi.org/10.22267/rcia.2026431.286>

Intraspecific hybrid rootstocks in the agronomic performance of salad-type tomato

Luiz Fernandes Cardoso Campos, Camila Meira de Abreu Campos,
Maria Letícia de Siqueira Virgílio, Raquel Cintra Faria, Abadia dos Reis Nascimento
<https://doi.org/10.22267/rcia.2026431.287>

Effect of pretreatments on the viability of seeds from five *Passiflora* species

Seir Antonio Salazar-Mercado, Jesús David Quintero-Caleño, Yordan Arley Palencia-Delgado,
Pedro Isaac Salcedo-García
<https://doi.org/10.22267/rcia.2026431.288>

Growth dynamics and yield of eggplant (*Solanum melongena* L.) modeled with logistic curves

Fernando Vicente Barraza-Alvarez, Angel Vicente Barraza Monterrosa,
Luz Angela Barraza Monterrosa
<https://doi.org/10.22267/rcia.2026431.289>

Effect of reduced irrigation on postharvest quality of pear (*Pyrus communis* L.) cv. Triumph of Vienna

Javier Enrique Vélez-Sánchez, Helber Enrique Balguera-López, Javier Giovanni Álvarez-Herrera
<https://doi.org/10.22267/rcia.2026431.290>



Universidad de Nariño
FUNDADA EN 1904



Competitiveness of Paraguay international agricultural trade: An analysis of the soybean complex

Nelson David Lesmo-Duarte, Gustavo Daniel Vega-Britez, José Augusto Velazquez-Duarte, Cristian Reinaldo Lesmo-Duarte, Sixto Barreto-Perez, Laiana Patricia Paredes-Lopes, Marcos Arturo Ferreira-Agüero
<https://doi.org/10.22267/rcia.2026431.291>

Effects of pasture systems on soil compaction, aeration, and available water capacity

Amanda Silva-Parra, Juan Manuel Trujillo-González, Marco Aurelio Torres-Mora
<https://doi.org/10.22267/rcia.2026431.292>

Apicultural characterization and sensory analysis of honeys from the Department of Nariño

Javier Enrique Vélez-Sánchez, Helber Enrique Balguera-López, Javier Giovanni Álvarez-Herrera
<https://doi.org/10.22267/rcia.2026431.293>

Analysis of forest management plans for environmental sustainability

Juan Pablo Díaz-Mariño, Diego Hernández-García
<https://doi.org/10.22267/rcia.2026431.294>

Plant secondary metabolites against *Candida auris*: mechanisms and evidence

Silvana Holanda de Sousa, Odaiza Ferreira Sousa, Halline Cardoso Jurema, Thales Guilherme Silva Campos, Cesar Elías León Rodríguez, Marília Pantoja Soares da Silva, Vitória Beatriz Silva, Alex Sander Rodrigues Cangussu, Raimundo Wagner de Souza Aguiar, Gil Rodrigues dos Santos, Marcos Gontijo da Silva
<https://doi.org/10.22267/rcia.2026431.295>

Indexed



EBSCO



Universidad de Nariño
FUNDADA EN 1904



Revista de
CIENCIAS AGRÍCOLAS

