

Biannual journal of agricultural sciences  
of the University of Costa Rica,  
the Society of Ingenieros Agrónomos and  
the Ministry of Agriculture

VOLUME 31

2007

NUMBER 2

<b>Aknowledgements</b> .....	7-8
<b>Scientific papers</b>	
F <sub>2</sub> progeny tests of <i>Eucalyptus deglupta</i> and <i>E. grandis</i> with the aim of conversion into seedling seed orchards. <i>Francisco Mesén, William Vásquez and Edgar Víquez</i> .....	9-20
Boron toxicity in banana ( <i>Musa AAA</i> ) plantations of Costa Rica. <i>Alfonso Vargas, Fulvio Arias, Edgardo Serrano and Oscar Arias</i> .....	21-29
Genetic mapping and detection of QTLs in <i>Solanum</i> species. <i>Roberto Valverde</i> .....	31-47
Non-parasitic phase of <i>Boophilus microplus</i> (Acari: Ixodidae) in environmental and laboratory conditions in Costa Rica. <i>Víctor Álvarez, Vladimir Hernández and Juan José Romero</i> .....	49-56
<b>Technical notes</b>	
Organic fertilizer increases root production on peach palm ( <i>Bactris gasipaes</i> K.). <i>Francisco Paulo Chaimsohn, Enrique Villalobos and Jorge Mora Urpí</i> .....	57-64
Buffalo production systems in Costa Rica. I. Population quantification and system characterization. <i>Rodrigo Rosales Rodríguez and Rodolfo WingChing-Jones</i> .....	65-69
Effect of the brassinosteroid analogs BB-6 and MH-5 on proteins metabolism in sugarcane somatic embryogenesis. <i>Nadina Nieves, Kirenia Rodríguez, Mariela Cid, Ramiro Castillo, Justo L. González and Miriam Núñez</i> .....	71-77
Nutritive value of perennial peanut hay dehydrated in solar dryers. <i>Adrián Filomena Sancho, Augusto Rojas-Bourrillón and Rodolfo WingChing-Jones</i> .....	79-86
Effect of silver thiosulfate on somatic embryogenesis and artificial sugarcane ( <i>Saccharum</i> spp. Híbrido) seeds. <i>Nadina Nieves, Mariela Cid, Danilo Pina, Yrienne Lezcano and José María Torne</i> .....	87-94
Nitrogen fertilization on the yield of sunflower in Mexico. <i>Luis Enrique Escalante-Estrada, Yolanda Isabel Escalante-Estrada and Carmen Linzaga-Elizalde</i> .....	95-100
Arsenic accumulation in faba beans ( <i>Vicia faba</i> ) crops. <i>Francisco Prieto García, Judith Callejas Hernández, Alma D. Román Gutiérrez, Judith Prieto Méndez, Alberto J. Gordillo Martínez and María A. Méndez Marzo</i> .....	101-109
<b>Análisis and comment</b>	
What is a vertebrate pest? <i>Javier Monge</i> .....	111-121



Editorial Universidad de Costa Rica  
Sesquicentenario de la Campaña Nacional contra los filibusteros

ISSN 0377-9424

# AGRONOMÍA COSTARRICENSE

Vol. 31 No. 2 - 2007

[www.mag.go.cr/rev\\_agr/inicio.htm](http://www.mag.go.cr/rev_agr/inicio.htm)  
[www.cia.ucr.ac.cr](http://www.cia.ucr.ac.cr)

REVISTA DE CIENCIAS AGRÍCOLAS

UNIVERSIDAD DE COSTA RICA  
COLEGIO DE INGENIEROS AGRÓNOMOS  
MINISTERIO DE AGRICULTURA Y GANADERÍA

Volumen 31

Julio - Diciembre 2007

Número 2

AGRONOMÍA COSTARRICENSE

Julio - Diciembre



EDITORIAL  
UCR