



ENTIDAD: **CENTRO DE INVESTIGACION CIENTIFICA DE YUCATAN, A. C.**

TÍTULO: **PRODUCTIVIDAD ARTÍCULOS**

PERÍODO: **2003**

Andrade-Torres J. L., DEW DEPOSITION ON EPIPHYTIC BROMELIAD LEAVES: AN IMPORTANT EVENT IN A MEXICAN TROPICAL DRY DECIDUOUS FOREST, *Journal of Tropical Ecology*, 19: 479-488, (2003).

Aristeo-Cortés P., M. T. Terrazas-Salgado, T. Colinas-León and A. Larqué-Saavedra, BRASSINOSTEROID EFFECTS ON THE PRECOCITY AND YIELD OF CLADODES OF CACTUS PEAR (OPUNTIA FICUS-INDICA (L.) MILL.), *Scientia Horticulturae*, 97: 65-73, (2003).

Azpeitia-Morales A., J. L. Chan-Rodríguez, L. Sáenz-Carbonell and C. Oropeza-Salín, EFFECT OF 22(S),23(S)-HOMOBRASSINOLIDE ON SOMATIC EMBRYOGENESIS IN PLUMULE EXPLANTS OF COCOS NUCIFERA (L.) CULTURED IN VITRO, *Journal of Horticultural Science & Biotechnology*, 78: 591-596, (2003).

Barahona-Pérez L. F. and G. L. Rorrer, ISOLATION OF HALOGENATED MONOTERPENES FROM BIOREACTOR-CULTURED MICROPLANTLETS OF THE MACROPHYTIC RED ALGAE OCHTODES SECUNDIRAMEA AND PORTIERIA HORNEMANNII, *Journal of Natural Products*, 66: 743-751, (2003).

Cairns M. A., I. Olmsted, J. Granados-Castellanos and J. Argáez-Sosa, COMPOSITION AND ABOVEGROUND TREE BIOMASS OF A DRY SEMI-EVERGREEN FOREST ON MEXICO'S YUCATAN PENINSULA, *Forest Ecology and Management*, 186: 125-132, (2003).

Canul-Chuil A., R. Vargas-Coronado, J. V. Cauich-Rodríguez, A. Martínez-Richa, E. Fernández and S. N. Nazhat, COMPARATIVE STUDY OF BONE CEMENTS PREPARED WITH EITHER HA OR (ALFA)-TCP AND FUNCTIONALIZED METHACRYLATES, *Journal of Biomedical Materials Research Part B: Applied Biomaterials*, 64B: 27-37, (2003).

Cardeña-López R., G. R. Ashburner and C. Oropeza-Salín, IDENTIFICATION OF RAPDS ASSOCIATED WITH RESISTANCE TO LETHAL YELLOWING OF THE COCONUT (COCOS NUCIFERA L.) PALM, *Scientia Horticulturae*, 98: 257-263, (2003).

Carnevali Fernández-Concha G. and I. Ramírez-Morillo, NOMENCLATURAL IN THE ORCHIDACEAE FROM VENEZUELA AND GUYANA, *Novon*: 405-418, (2003).

Carnevali Fernández-Concha G., S. Hernández-Aguilar and J. L. Tapia-Muñoz, A NEW JACQUINIA (THEOPHRASTACEAE) FROM THE YUCATAN PENINSULA WITH A SYNOPSIS OF PALE-FLOWERED SPECIES IN MESOAMERICA, *Novon*, 13: 289-295, (2003).

Carnevali Fernández-Concha G., J. L. Tapia, N. H. Williams y W. M. Whitten, SISTEMÁTICA, FILOGENIA Y BIOGEOGRAFÍA DE MYRMECOPHILA (ORCHIDACEAE), *Lankesteriana*, 7: 29-32, (2003).

RESPONSABLE DE LA INFORMACIÓN: **Dirección Académica**



ENTIDAD: **CENTRO DE INVESTIGACION CIENTIFICA DE YUCATAN, A. C.**
TÍTULO: **PRODUCTIVIDAD ARTÍCULOS**
PERÍODO: **2003**

Castillo-Flores A. A. and L. M. Calvo-Irabién, ANIMAL DISPERSAL OF TWO SECONDARY-VEGETATION HERBS INTO THE EVERGREEN RAIN FOREST OF SOUTH-EASTERN MEXICO, *Journal of Tropical Ecology*, 19: 271-278, (2003).

Cauich-Rodríguez J. V., H. Vázquez-Torres and A. Martínez-Richa, PROPERTIES OF THFMA-PEMA AND BMA-PEMA- BASED BONE CEMENTS CHARACTERIZED BY THERMAL ANALYSIS, FTIR AND NMR, *Journal of Applied Biomaterials & Biomechanics*, 1: 108-116, (2003).

Chan-Bacab M., E. Balanza, E. Deharo, V. Muñoz, R. Durán-García and L. M. Peña-Rodríguez, VARIATION OF LEISHMANICIDAL ACTIVITY IN FOUR POPULATIONS OF URECHITES ANDRIEUXII, *Journal of Ethnopharmacology*, 86: 243-247, (2003).

Córdova-Lara I., P. Jones, N. A. Harrison and C. Oropeza-Salín, IN SITU PCR DETECTION OF PHYTOPLASMA DNA IN EMBRYOS FROM COCONUT PALMS WITH LETHAL YELLOWING DISEASE, *Molecular Plant Pathology*, 4: 99-108, (2003).

Dejean A. E., S. Durou, I. Olmsted, R. Snelling and J. Orivel, NEST SITE SELECTION BY ANTS IN A FLOODED MEXICAN MANGROVE, WITH SPECIAL REFERENCE TO THE EPIPHYTIC ORCHID MYRMECOPHILA CHRISTINAE, *Journal of Tropical Ecology*, 19: 325-331, (2003).

Dorantes-Euan A., M. Méndez-González, R. Durán-García and R. K. Maiti, METHODS TO PROMOTE GERMINATION OF ENDANGERED SPECIES OF HIGH ECONOMIC POTENTIAL IN YUCATAN, MEXICO, *Research on Crops*, 4: 117-126, (2003).

Ek-Ramos J., G. Racagni-de Di Palma and S. M. T. Hernández-Sotomayor, CHANGES IN PHOSPHATIDYLINOSITOL AND PHOSPHATIDYLINOSITOL MONOPHOSPHATE KINASE ACTIVITIES DURING THE INDUCTION OF SOMATIC EMBRYOGENESIS IN COFFEA ARABICA, *Physiologia Plantarum*, 119: 270-277, (2003).

Escobedo Gracia-Medrano R. M. and M. L. Miranda-Ham, ANALYSIS OF ELICITOR-INDUCED CELL VIABILITY CHANGES IN LYCOPERSICON ESCULENTUM MILL. SUSPENSION CULTURE BY DIFFERENT METHODS, *In Vitro Cellular and Developmental Biology Plant*, 39: 236-239, (2003).

Espadas-Manrique C., R. Durán-García and J. Argáez-Sosa, PHYTOGEOGRAPHIC ANALYSIS OF TAXA ENDEMIC TO THE YUCATAN PENINSULA USING GEOGRAPHIC INFORMATION SYSTEMS, THE DOMAIN HEURISTIC METHOD AND PARSIMONY ANALYSIS OF ENDEMICITY, *Diversity and Distributions*, 9: 313-330, (2003).

González G., S. Alemán y D. Infante-Herrera, ASEXUAL GENETIC VARIABILITY IN AGAVE FOURCROYDES II: SELECTION AMONG INDIVIDUALS IN A CLONALLY PROPAGATED POPULATION, *Plant Science*: 595-601, (2003).

RESPONSABLE DE LA INFORMACIÓN: **Dirección Académica**



ENTIDAD: **CENTRO DE INVESTIGACION CIENTIFICA DE YUCATAN, A. C.**

TÍTULO: **PRODUCTIVIDAD ARTÍCULOS**

PERÍODO: **2003**

González-Chí P. I., A. Martín-Medina, J. Argaéz-Canul and J. G. Carrillo-Baeza, POLYETHYLENE COMPOSITES UNIDIRECTIONALLY REINFORCED WITH NYLON FIBERS, *Journal of Materials Science and Technology*, 11: 84-94, (2003).

Gutiérrez-Rodríguez M., R. San Miguel-Chávez, P. Aristeo-Cortés and A. Larqué-Saavedra, EFFECT OF DIMETHYL SULPHOXIDE IN THE FRESH WEIGHT OF RADISH AND BEET PLANTS, *Agrociencia*, 37: 237-240, (2003).

Guz A. N., O. V. Menshykov y V. V. Zozulya, SURFACE CONTACT OF ELLIPTICAL CRACK UNDER NORMALLY INCIDENT TENSION-COMPRESSION WAVE, *Theoretical and Applied Fracture Mechanics*, 40: 285-291, (2003).

Guz A. N., V. V. Zozulya and A. V. Men'shikov, THREE-DIMENSIONAL DYNAMIC CONTACT PROBLEM FOR AN ELLIPTIC CRACK INTERACTING WITH A NORMALLY INCIDENT HARMONIC COMPRESSION-EXPANSION WAVE, *International Applied Mechanics*, 39: 1425-1428, (2003).

Hernández-Sánchez F., J. M. Meseguer-Dueñas and J. L. Gómez-Ribelles, INFLUENCE OF THE MOLECULAR WEIGHT ON THE SEGMENTAL RELAXATION TIMES OF POLYSTYRENE DETERMINED BY DSC, *Thermal Analysis and Calorimetric*, 27: 631-640, (2003).

Infante-Herrera D., G. González, L. Peraza-Echeverría and M. Keb-Llanes, ASEXUAL GENETIC VARIABILITY IN AGAVE FOURCROYDES, *Plant Science*, 164: 223-230, (2003).

Martínez-Estévez M., A. Kú-González, J. A. Muñoz-Sánchez, V. M. Loyola-Vargas, D. Pérez-Brito, R. Tapia-Tussell, J. A. Escamilla-Bencomo and S. M. T. Hernández-Sotomayor, CHANGES IN SOME CHARACTERISTICS BETWEEN THE WILD AND AL-TOLERANT COFFEE (COFFEA ARABICA L.) CELL LINE, *Journal of Inorganic Biochemistry*, 97: 69-78, (2003).

Martínez-Estévez M., G. Racagni-de Di Palma, J. A. Muñoz-Sánchez, L. Brito-Argáez, V. M. Loyola-Vargas and S. M. T. Hernández-Sotomayor, ALUMINIUM DIFFERENTIALLY MODIFIES LIPID METABOLISM FROM THE PHOSPHOINOSITIDE PATHWAY IN COFFEA ARABICA CELLS, *Journal of Plant Physiology*, 160: 1297-1303, (2003).

Maust-Nisley B., F. Espadas-Y Gil, C. Talavera-May, M. Aguilar-Espinosa, J. Santamaría-Fernández and C. Oropeza-Salín, CHANGES IN CARBOHYDRATE METABOLISM IN COCONUT PALMS INFECTED WITH THE LETHAL YELLOWING PHYTOPLASMA, *Phytopathology*, 93: 976-981, (2003).

Moreno-Chulím M. V., L. F. Barahona-Pérez and G. Canché-Escamilla, BIODEGRADATION OF STARCH AND ACRYLIC-GRAFTED STARCH BY ASPERGILLUS NIGER, *Journal of Applied Polymer Science*, 89: 2764-2770, (2003).

RESPONSABLE DE LA INFORMACIÓN: **Dirección Académica**



ENTIDAD: **CENTRO DE INVESTIGACION CIENTIFICA DE YUCATAN, A. C.**

TÍTULO: **PRODUCTIVIDAD ARTÍCULOS**

PERÍODO: **2003**

Moreno-Valenzuela O. A., Y. Minero-García, L. Brito-Argáez, E. Carbajal-Mora, O. Echeverría, G. Vázquez-Nin and V. M. Loyola-Vargas, IMMUNOCYTOLOCALIZATION OF TRYPTOPHAN DECARBOXYLASE IN CATHARANTHUS ROSEUS HAIRY ROOTS, *Molecular Biotechnology*, 23: 11-18, (2003).

Moreno-Valenzuela O. A., Y. Minero-García, W. Chan, E. Mayer-Geraldo, E. Carbajal-Mora and V. M. Loyola-Vargas, INCREASE IN THE INDOLE ALKALOID PRODUCTION AND ITS EXCRETION INTO THE CULTURE MEDIUM BY CALCIUM ANTAGONISTS IN CATHARANTHUS ROSEUS HAIRY ROOTS, *Biotechnology Letters*, 25: 1345-1349, (2003).

Ojeda-Alayón I., G. Carnevali Fernández-Concha, N. H. Williams and W. M. Whitten, PHYLOGENY OF HETEROTAXIS LINDLEY COMPLEX (MAXILLARIINAE): EVOLUTION OF VEGETATIVE ARCHITECTURE AND POLLINATION SYNDROMES, *Lankesteriana*, 7: 45-47, (2003).

Pottosin I. I. and M. Martínez-Estévez, REGULATION OF THE FAST VACUOLAR CHANNEL BY CYTOSOLIC AND VACUOLAR POTASSIUM, *Biophysical Journal*, 84: 977-986, (2003).

Pottosin I. I., M. Martínez-Estévez, O. R. Dobrovinskaya and J. Muñiz, POTASSIUM-SELECTIVE CHANNEL IN THE RED BEET VACUOLAR MEMBRANE, *Journal of Experimental Botany*, 54: 663-667, (2003).

Ramírez-Morillo I. and G. Carnevali Fernández-Concha, A NEW SPECIES OF TILLANDSIA (BROMELIACEAE) FROM THE MEXICAN YUCATAN PENINSULA, *Novon*, 13: 209-211, (2003).

Romero G. A. y G. Carnevali Fernández-Concha, TRES EN UNO, ¿O SON MÁS? HISTORIA DE EPIDENDRUM DICHOTOMUM LINDL., NON PRESL, *Lankesteriana*, 7: 169-172, (2003).

Sáenz-Carbonell L., L. H. Jones, C. Oropeza-Salín, D. Vlácil and M. Strnad, ENDOGENOUS ISOPRENOID AND AROMATIC CYTOKININS IN DIFFERENT PLANT PARTS OF COCOS NUCIFERA (L.), *Plant Growth Regulation*, 39: 205-215, (2003).

San Miguel-Chávez R., P. Aristeo-Cortés and A. Larqué-Saavedra, THE EFFECT OF DIMETHYL SULPHOXIDE (DMSO) ON CARROT PLANTS GROWN IN THE FIELD, *Phyton International Journal of Experimental Botany*: 101-104, (2003).

San Miguel-Chávez R., M. Gutiérrez-Rodríguez and A. Larqué-Saavedra, SALICYLIC ACID INCREASES THE BIOMASS ACCUMULATION OF PINUS PATULA, *Southern Journal of Applied Forestry*, 27: 52-54, (2003).

Sánchez-Teyer L. F., F. Quiroz-Figueroa, V. M. Loyola-Vargas and D. Infante-Herrera, CULTURE-INDUCED VARIATION IN PLANTS OF COFFEA ARABICA

RESPONSABLE DE LA INFORMACIÓN: **Dirección Académica**



ENTIDAD: **CENTRO DE INVESTIGACION CIENTIFICA DE YUCATAN, A. C.**

TÍTULO: **PRODUCTIVIDAD ARTÍCULOS**

PERÍODO: **2003**

CV. CATURRA ROJO, REGENERATED BY DIRECT AND INDIRECT SOMATIC EMBRYOGENESIS, *Molecular Biotechnology*, 23: 107-115, (2003).

Smit M., J. A. Hunter, J. D. B. Sharman, G. M. Scamans and J. M. Sykes, ORGANIC ADDITIVES TO TITANIUM-BASED CONVERSION COATINGS ON ALUMINUM ALLOYS, *Corrosion Science*, 45: 1903-1920, (2003).

Vázquez-Flota F. and V. M. Loyola-Vargas, IN VITRO PLANT CELL CULTURE AS THE BASIS FOR THE DEVELOPMENT OF A RESEARCH INSTITUTE IN MEXICO: CENTRO DE INVESTIGACION CIENTIFICA DE YUCATAN, *In Vitro Cellular and Developmental Biology Plant*, 39: 250-258, (2003).

Zaldívar-Cruz J., H. Ballina-Gómez, C. Guerrero Rodríguez, E. Avilés-Berzunza and G. C. Godoy-Hernández, AGROBACTERIUM-MEDIATED TRANSIENT TRANSFORMATION OF ANNATTO (BIXA ORELLANA) HYPOCOTYLS WITH THE GUS REPORTER GENE, *Plant Cell, Tissue and Organ Culture*, 73: 281-284, (2003).

Zorinants S. E., A. V. Nosov, M. Monforte-González, M. Méndez-Zeel and V. M. Loyola-Vargas, VARIATION OF NUCLEAR DNA CONTENT DURING SOMATIC EMBRYOGENESIS AND PLANT REGENERATION OF COFFEA ARABICA L. USING CYTOPHOTOMETRY, *Plant Science*, 164: 141-146, (2003).

Zozulya V. V., MATHEMATICAL INVESTIGATION OF NONSMOOTH OPTIMIZATION ALGORITHM IN ELASTODYNAMIC CONTACT PROBLEMS WITH FRICTION FOR BODIES WITH CRACKS., *International Journal of Nonlinear Science and Numerical Simulation*, 4: 405-422, (2003).

Zozulya V. V. and O. V. Menshykov, CONTACT OF FLAT ELLIPTICAL CRACK EDGES UNDER ACTION OF HARMONIC NORMAL TENSION-COMPRESSION INCIDENT WAVES., *Theoretical Applied Mechanics*: 168-172, (2003).

Zozulya V. V. and O. V. Menshykov, USE OF THE CONSTRAINED OPTIMIZATION ALGORITHMS IN SOME PROBLEMS OF FRACTURE MECHANICS., *Optimization and Engineering*, 4: 365-384, (2003).

Artículos de Investigación Nacional

Arana-López G., M. M. Gamboa-Angulo, K. García-Sosa, F. Escalante-Erosa and L. M. Peña-Rodríguez, A CHEMICAL STUDY OF THE MYCELIUM OF ALTERNARIA TAGÉTICA, *Revista de la Sociedad Química de México*, 47: 303-306, (2003).

Azpeitia-Morales A., L. Sáenz-Carbonell, J. L. Chan-Rodríguez y C. Oropeza-Salín, INDUCCIÓN DE EMBRIONES SOMÁTICOS EN EXPLANTES DE PLÚMULA

RESPONSABLE DE LA INFORMACIÓN: **Dirección Académica**



ENTIDAD: **CENTRO DE INVESTIGACION CIENTIFICA DE YUCATAN, A. C.**
TÍTULO: **PRODUCTIVIDAD ARTÍCULOS**
PERÍODO: **2003**

DE COCOTERO POR ÁCIDO ABSCÍSICO Y POLIETILENGLICOL, Revista Fitotecnia Mexicana, 26: 309-318, (2003).

Campos-Ríos M.G. y R. Alfaro-Bates, CONTRIBUCIÓN AL CONOCIMIENTO DE LA MORFOLOGÍA DE LOS GRANOS DE POLEN DEL GÉNERO BOURRERIA P. BROWNE (BORAGINACEAE) DE MÉXICO., Polibotánica: 1-28, (2003).