

REFERENCIAS BIBLIOGRÁFICAS

- Achard P, Cheng H, De Grauwe L, Decat J, Schoutteten H, Moritz T, Van Der Straeten D, Peng J, Harberd NP** (2006) Integration of plant responses to environmentally activated phytohormonal signals. *Science* **311**, 91–94
- Ackerly D, Dudley S, Sultan J, Schmitt JS, Coleman CR, Linder DR, Sandquist MA, Geber AS, Evans TE, Dawson L, Lechowicz MJ** (2000) The evolution of plant ecophysiological traits: recent advances and future directions. *Bioscience* **50**, 979-995
- ADC Bioscientific** (2004) LC Pro + Portable photosystem system instruction manual. UK. 83pp
- Aleric KM, Kirkman LK** (2005) Growth and photosynthetic responses of the federally endangered shrub, *Lindera melissifolia* (Lauraceae), to varied light environments. *American Journal of Botany* **92**, 682-9
- Alexander L, Grierson D** (2002) Ethylene biosynthesis and action in tomato: a model for climacteric fruit ripening. *Journal of Experimental Botany* **53**, 2039-2055
- Alique LR, Zamorano R** (2000) Productos vegetales: regulación de los procesos fisiológicos postrecolección. En: Lamúa M (Ed) Aplicación del frío a los alimentos. Madrid Vicente, Ediciones y Mundi-Prensa España, pp 69-104
- Alleva K, Marquez M, Villareal N, Mut P, Bustamante C, Bellati J, Martínez G, Civellos M, Asmodeo G** (2010) Cloning functional characterization and co-expression studies of a novel aquaporine (FaPIP2:1) of a strawberry fruit. *Journal of Experimental Botany* **61**, 3935-3945

- Allen RG, Pereira LS, Raes D, Smith M** (1998) Crop evapotranspiration. Guidelines for computing crop water requirements. FAO Irrigation and Drainage Paper 56. FAO, Roma 300pp
- Alonso JM, Stepanova AN** (2004) The ethylene signaling pathway. *Science* **306**, 1513-1515
- Alscher R, Neval E, Lenwood SH** (2002) Role of superoxide dismutase (SODs) in controlling oxidative stress in plants. *Journal of Experimental Botany* **53**, 1331-1341
- Alvarez-Flórez F, Melgarejo LM, Romero HM, Doucet L** (2006) Protein electrophoretic patterns and anti-freezing activity in the leaf apoplast of the tropical Andean species *Senecio niveoaurus*. *Acta Biológica Colombiana* **11**, 103-111
- Arias DG, Márquez V, Beccaria A, Guerrero SA, Iglesias A** (2010) Purification and characterization of a Glutathione Reductase from *Phaeodactylum tricornutum*. *Protist* **161**, 91-101
- Asada K, Takahashi M, Nagate N** (1974) Assay and inhibitors of spinach superoxide dismutase. *Agricultural and Biological Chemistry* **38**, 471-473
- Asada K** (1992) Ascorbate peroxidase - a hydrogen peroxide scavenging enzyme in plants. *Physiologia plantarum* **85**, 235-241
- Asada K** (1999) The water – water cycle in chloroplast: scavenging of active oxygens and dissipation of excess photons. *Annual Review of Plant Physiology and Plant Molecular Biology* **50**, 601-639
- Atkin OK, Tjoelker MG** (2003) Thermal acclimation and the dynamic response of plant respiration to temperature. *Trends in Plant Science* **8**, 343-351
- Avenidaño CH, Trejo C, López C, Molina JD, Santacruz A, Castillo F** (2005) Comparación de la tolerancia a la sequía de cuatro variedades de maíz (*Zea mays* L.) y su relación con la acumulación de prolina. *Interciencia* **9**, 560-564
- Azcón-Bieto, Talón M** (2000) Fundamentos de Fisiología Vegetal. Mc Graw Hill Interamericana. Madrid, España. 522 pp
- Baker N** (2008) Chlorophyll fluorescence: A probe of photosynthesis *in vivo*. *Annual Review of Plant Biology* **59**, 89-113
- Balaguer L** (2004) Ecophysiology. En: Encyclopedia of Plant and Crop Science. Goodman RM ed. Marcel Dekker, Inc., New York, 1-4pp
- Bardales XI, Carrillo MP, Hernández MS, Barrera JA, Fernández-Trujillo JP, Martínez O** (2008) Camu-camu fruit (*Myrciaria dubia*) a new option for productive systems in Colombian Amazonian Region. *Acta horticultrae* **773**, 173-178

- Barón AF, García W, Melgarejo LM, Montenegro LC** (2009) Physiological aspects of *Racomitrium crispipilum* Taylor A. (Jaeger) during dry season in Páramo de Chingaza, Colombia. *Tropical Bryology* **30**, 1-7
- Barrera JA, Orjuela N, Melgarejo LM, Caicedo D, Hernández MS** (2009) Efecto de deficiencias minerales y de la luz en arazá (*Eugenia stipitata*) y copoazú (*Theobroma grandiflorum*). En: Frutas amazónicas: competitividad e innovación. Hernández MS, Barrera J (Compiladores) Editorial Instituto Amazónico de Investigaciones Científicas **Sinchi, Bogotá, Colombia, pp 11-34**
- Barrera JA, Hernández MS, Melgarejo LM, Martínez O, Fernández-Trujillo JP** (2008) Physiological behavior and quality traits during fruit growth of four Amazonic hot pepper accessions. *Journal of the Science of Food and Agriculture* **88**, 847-857
- Bartoli CG, Gomez F, Gergoff G, Guiame JJ, Puntarulo S** (2005) Up-regulation of the mitochondrial alternative oxidase pathway enhances photosynthetic electron transport under drought conditions. *Journal of Experimental Botany* **56**, 1269-1276
- Bassham JA, Benson AA, Kay LD, Harris AZ, Wilson AT, Calvin M** (1954) The path of carbon in photosynthesis. XXI The cyclic regeneration of carbon dioxide acceptor. *Journal of the American Chemical Society* **76**, 1760-1770
- Baskin CC, Baskin JM** (2001) Seeds ecology, biogeography and evolution of dormancy and germination. School of Biological Sciences. University of Kentucky, Academic Press San Diego USA. 627 pp.
- Bates LS, Walderen RP, Teare ID** (1973) Rapid determination of free proline in water stress studies. *Plant and Soil* **39**, 205-208
- Bauer G, Weilenmann E, Peretti A, Monterrubianesi** (2003) Germinación y vigor de semillas de soja del grupo de maduración III cosechadas bajo diferentes condiciones climáticas. *Revista Brasileira de Sementes* **25**, 53-62
- Bayona C, Melgarejo LM, Marquinez X, Grajales F** (2005) Fluctuaciones de potencial hídrico, prolina y azúcares reductores en *Espeletopsis corymbosa*. En: Estrategias adaptativas de plantas del páramo y del bosque altoandino en la cordillera oriental de Colombia. Bonilla A (Ed.). Capítulo **1**, 25-36. Editorial Unibiblos, Universidad Nacional de Colombia

- Beauchamp C, Fridovich I** (1971) Superoxide dismutase: Improved assays and an assay applicable to acrylamide gels. *Analytical Biochemistry* **44**, 276-286
- Beaudry RM** (1999) Effect of O₂ and CO₂ partial pressure on selected phenomena affecting fruit and vegetable quality. *Postharvest Biology and Technology* **15**, 293-303
- Ben-She A, Nelson N** (2004) The complex architecture of oxygenic photosynthesis. *Nature Reviews Molecular Cell Biology* **5**, 971-982.
- Bewley JD, Black M** (1994) Seeds: Physiology of development and germination. Plenum press, New York, 445pp
- Bilger W, Björkman O** (1990) Role of the xanthophyll cycle in photoprotection elucidated by measurements of light-induced absorbance changes, fluorescence and photosynthesis in *Hedera canariensis*. *Photosynthesis Research* **25**, 173-85
- Björkman O, Demmig B** (1987) Photon yield of O₂ evolution and chlorophyll fluorescence characteristics at 77 K among vascular plants of diverse origins. *Planta* **170**, 489-504
- Black M, Bradford KJ, Vasquez-Ramos J** (2000) Seed biology advances and applications. CABI Publishing, 508 pp
- Borecký J, Nogueira FTS, Oliveira KAP, Maia IG, Vercesi AE, Arruda P** (2006) The plant energy-dissipating mitochondrial systems: depicting the genomic structure and the expression profiles of the gene families of uncoupling protein and alternative oxidase in monocots and dicots. *Journal of Experimental Botany* **57**, 849-864
- Bourguignon F, Chakravarty SR** (2003) The measurement of multidimensional poverty. *Journal of Economic Inequality* **1**, 25-49
- Bradford KJ, Nonogaki H** (2007) Seed development, dormancy and germination. Blackwell publishing, oxford, UK, 307 pp
- Bradford MM** (1976) A rapid and sensitive method for the quantitation of microgram quantities of protein utilizing the principle of protein dye binding. *Analytical Biochemistry* **72**, 248-254
- Breda NJ** (2003) Ground-based measurements of leaf area index: a review of methods, instruments and current controversies. *Journal of Experimental Botany* **54**, 2403-2417
- Brosché M, Overmyer K, Wrzaczek M, Kangasjarvi M, Kangasjarvi S** (2010) Stress signaling: reactive oxygen species (ROS). En: Pareek A, Sopory HJ, Bohnert HJ, Govindjee (eds). Biotic stress adaptation in plants: physiological, molecular and genomic foundation. Springer Dordrecht, The Netherlands, pp 91-102

- Browse J** (2009) Jasmonate Passes Muster: A Receptor and Targets for the Defense Hormone. *Annual Review of Plant Biology* **60**, 183-205
- Browse J, Howe GA** (2008) New weapons and a rapid response against insect attack. *Plant Physiology* **146**, 832-838
- Brugière N, Dubois F, Limami AM, Lelandais M, Roux Y, Sangwan RS, Hirel B** (1999) Glutamine synthetase in the phloem plays a major role in controlling proline production. *Plant cell* **11**, 1995-2011
- Campbell GS** (1986) Extinction coefficients for radiation in plant canopies using an ellipsoidal inclination angle distribution. *Agricultural and forest meteorology* **36**, 317-321
- Carpena X, Soriano M, Klotz MG, Duckworth HW, Donald LJ, Melik-Adamyán W, Fita I, Loewen PC** (2003) Structure of the class 1 catalase, CatF of *Pseudomonas syringae*, at 1.8 Å resolution. *Proteins: structure, function, and genetics* **50**, 423-436
- Carreras ME, Pascualides AL, Planchuelo AM, Carvalho NM, Nakagawa J** (1983) Comportamiento germinativo de las Sementes: ciencia, tecnologia e producao. Fundacao Cargill, Campinas. 429 pp
- Castelfranco P, Beale S** (1983) Chlorophyll biosynthesis: recent advanced and areas of current interest. *Annual Review of Plant Physiology* **34**, 241-276
- Castellanos C, Barrera J, Hernández MS, Melgarejo LM, Carrillo M, Rodríguez L, Martínez O** (2009) Efecto de la densidad de plantación sobre el crecimiento, producción y calidad de cinco accesiones de ají (*Capsicum* spp) cultivadas en la Amazonia Occidental Colombiana. *Revista Colombiana de Ciencias Hortícolas* **3**, 95-109
- Castro E, Hernández MS, Melgarejo LM, Carrillo MP, Martínez O, Fernández-Trujillo JP** (2009) Physiological behavior and quality during growth of purple passion fruit. 8th International Symposium on the Plant Hormone Ethylene. Ithaca, NY, EEUU, Libro de resúmenes (CD)
- Chapin III FS** (1980) The mineral nutrition of wild plants. *Annual Review of Ecology and Systematic* **11**, 233-260

- Chen JM, Rich PM, Gower ST, Norman JM, Plummer S** (1997) Leaf area index of boreal forests: theory, techniques and measurements. *Journal of Geophysical Research* **102**, 429-443
- Christmann A, Weiler E, Steudle E, Grill E** (2007) A hydraulic signal in root-to-shoot signalling of water shortage. *The Plant Journal* **52**, 167-174
- Clarkson D, Hanson T** (1980) The mineral nutrition of higher plants. *Annual Review of Plant Physiology* **31**, 239-298
- Colmenares S, Romero HM, Melgarejo LM** (En revisión). Balance hídrico e intercambio de gases de *Abatia parviflora*.
- Coopeland LO, McDonald MB** (1995) Principles of seed science and technology. Kluwer Academic Publishing Third edition, Massachusetts, USA. pp 59-111
- Cooper A** (1979) The ABC of NFT (nutrient film technique). Grower Books. Londres, 181 pp
- Cutler SR, Rodriguez PL, Finkelstein RR, Abrams SR** (2010) Abscisic Acid: Emergence of a core signaling network. *Annual Review of Plant Biology* **61**, 651-679
- D'Autréaux B, Toledano M** (2007) ROS as signalling molecules: mechanisms that generate specificity in ROS homeostasis. *Nature Reviews: Molecular Cell Biology* **8**, 813-821
- Dalisay RF, Kúc JA** (1995) Persistence of reduced penetration by *Colletotrichum lagenarium* into cucumber leaves with induces systemic resistance and its relation to enhanced peroxidase and chitinase activities. *Physiological and Molecular Plant Pathology* **47**, 336-341
- Damour G, Simonneau T, Cochard H, Urban L** (2010) An overview of models of stomatal conductance at the leaf level. *Plant, Cell and Environment* **33**, 1419-1438
- Delouche J, Wayne M, Raspel M, Lienhard M** (1971) Prueba de la viabilidad de la semilla con tetrazol. 1 edición. Mexico/Buenos Aires, 71pp
- Delta T Devices Ltda** (1995) Sunscan Canopy Analysis System. User Manual. Cambridge, UK, 86 pp
- Demmig-Adams BW, Adams III** (1992) Photoprotection and other responses of plants to high light stress. *Annual Review of Plant Physiology and Plant Molecular Biology* **43**, 599-626

- Desai BB, Kotecha PM, Salunkhe DK** (1997) *Seeds Handbook: Biology, Production, Processing, and Storage*. New York Marcel Dekker, Inc., 513pp
- Deutscher M** (1990) Setting Up a Laboratory. In: *Methods in enzymology: Guide to protein purification*. Academic Press, San Diego, USA. **182**, 24-38
- Dewick PM** (2002) *Medicinal Natural Products*. John Wiley and Sons, Ltd. ISBNs: 0471496405 (Hardback); 0471496413 (paperback); 0470846275 (Electronic). Chapter 7) pp 125-127
- Dietz KJ** (2003) Plant peroxiredoxins. *Annual Review of Plant Biology* **54**, 93-107
- Dodd IC, Davies WJ** (2010) Hormones and the regulation of water balance. Pp 519-538. En: Davies PJ (Ed) *Plant hormones Biosynthesis, Signal Transduction, Action*. Third Edition. Springer, Netherlands. 802 pp
- Domec JC, King JS, Noormets A, Treasure E, Gavazzi MJ, Sun G, McNulty SG** (2010) Hydraulic redistribution of soil water by roots affects whole-stand evapotranspiration and net ecosystem carbon exchange. *New Phytologist* **187**, 171-183
- Douce R, Neuburger M** (1989) The uniqueness of plant Mitochondria. *Annual Review of Plant Physiology and Plant Molecular Biology* **40**, 371-414
- Dry PR, Loveys BR** (1998) Factors influencing grapevine vigour and the potential for control with partial rootzone drying. *Australian Journal of Grape and Wine Research* **4**, 140-148
- Dubois M, Gilles KA, Hamilton JK, Rebers PA, Smith F** (1956) Colorimetric method for determination of sugars and related substances. *Analytical Chemistry* **28**, 350-356
- Eberhard S, Finazzi G, Wollman FA** (2008) The Dynamics of Photosynthesis. *Annual Review of Genetics* **42**, 463-515
- Echavarria C, Morilla A, Serrano M** (1988) Cuatro nuevas especies con anatomía foliar tipo Kranz: *Salsola vermiculata* L, *Cyperus capitatus* Vendelli, *Sporobolus pungens* (Schreber) Kunth, *Spartina densiflora* Broung. *Lagascalia* **15**, 527-533
- El-Sharkawy MA, Cock JH, Hernandez AP** (1985) Stomatal response to air humidity and its relation to stomatal density in a wide range of warm climate species. *Photosynthesis Research* **7**, 137-149
- Emerson R, Arnon W** (1932) A separation of the reactions in photosynthesis by means of intermittent light. *Journal of General Physiology* **15**, 391-420

- Etherington JR** (1982) Environment and plant ecology. Willey & Sons. New York, 487 pp
- Evans GC** (1972) The quantitative análisis of plant growth. Studies in ecology. Vol 1 Blackwell Scientific Publication. London 45-68 pp
- Evans JR** (1983) Nitrogen and photosynthesis in the flag leaf of wheat (*Triticum aestivum* L.). *Plant Physiology* **72**, 297-302.
- FAO Food and Agriculture Organization of the United Nations.** Land and water development division (1998) Guide to efficient plant nutrition management. Rome, 28 pp
- Farquhar G, von Caemmerer S, Berry J** (1980) A Biochemical model of photosynthesis CO_2 fixation in leaves of C2 species. *Planta* **149**, 78-90
- Fenner M** (2000) Seeds the ecology of regeneration in plant communities. Second edition. New York, CABI publishing. 410 pp
- Finch-Savage WE, Leubner-Metzger G** (2006) Seed dormancy and the control of germination. *New Phytologist* **171**, 501-523
- Finkelstein R, Reeves W, Ariizumi T, Steber C** (2008) Molecular aspects of seed dormancy. *Annual Review of Plant Biology* **59**, 387-415
- Flexas J, Escalona JM, Medrano H** (1998) Down-regulation of photosynthesis by drought under field conditions in grapevine leaves. *Australian Journal of Plant Physiology* **25**, 893-900
- Flexas J, Escalona M, Evain S, Gulías J, Moya I, Osmond CB, Medrano H** (2002) Steady-state chlorophyll fluorescence (Fs) measurements as a tool to follow variations of net CO_2 assimilation and stomatal conductance during water-stress in C3 plants. *Physiologia Plantarum* **114**, 231-240
- Flores F, El-Yahyaoui F, de Billerbeck G, Romojaro F, Latché A, Bouzayen M, Pech JC, Ambid C** (2002) Role of ethylene in the biosynthetic pathway of aliphatic ester aroma volatiles in Charentais Cantaloupe melons. *Journal of Experimental Botany* **53**, 201-206.
- Flórez V, Fernández A, Miranda D, Chaves B, Guzmán J** (2006) Avances sobre fertirriego en la floricultura Colombiana. 1ª edición. Unibiblos. Bogotá, Colombia, pp 43-52
- Follet RH, Follet RF, Halverson AD** (1992) Use a chlorophyll meter to evaluate the nitrogen status of dryland winter wheat. *Communications in Soil Science and Plant Analysis* **23**, 687-697

- Foth HD, Ellis BG** (1997) Soil Fertility. 2nd Ed. CRC Press. Boca Raton, Florida, 290 pp
- Fournier RA, Maily D, Walter JM, Soudani K** (2003) Indirect measurement of forest canopy structure from *in situ* optical sensors. In: Wulder M, Franklin S (Eds.), Methods for Remote Sensing of Forests: Concepts and Case Studies. Kluwer Academic Press, Dordrecht, pp 77-114
- Fox RH, Piekielek P, MacNeal KM** (1994) Using chlorophyll meter to predict nitrogen fertilizer needs of winter wheat. *Communications in Soil Science and Plant Analysis* **25**, 171-181
- Foyer CH, Bloom AJ, Queval G, Noctor G** (2009) Photorespiratory Metabolism: genes, mutants, energetics, and redox signaling. *Annual Review of Plant Biology* **60**, 455-84
- Fryer MJ, Andrews JR, Osborough K, Blowers DA, Baker NR** (1998) Relationship between CO₂ assimilation, photosynthetic electron transport, and active O₂ metabolism in leaves of maize in the field during periods of low temperature. *Plant Physiology* **116**, 571-580
- Fujioka S, Yokota T** (2003) Biosynthesis and metabolism of brassinosteroids. *Annual Review of Plant Biology* **54**, 137-164
- Galmés J** (2006) Ecophysiological traits and their responses to drought in species from the Balearic Islands with different growth forms. PhD Thesis. Departamento de Biología. Facultad de Ciencias. Universitat de les Illes Balears, España, 365 pp
- Gardner FP, Pearce RB, Mitchell RL** (1985) Physiology of crop plants. Iowa State University press, AIMES, pp187-208
- Gardner FP, Pearce RB, Mitchell RL** (2003) Physiology of crop plants. Blackwell publishing company. Iowa, 326 pp
- Gary C, Jones JW, Tchamitchian M** (1998) Crop modeling in horticulture: state of the art. *Scientia Horticulturae* **74**, 3-20
- Gemel J, Waters-Earhart B, Ellersieck MR, Asfaw A, Krause GF, Puri V, Lower WR** (1997) Photosynthetic electron transport as a bioassay. En: Wang W, Gorsuch JW, Hughes JS. Plants for environmental studies. CRC Press LLC. New York, pp 209-224
- Genty B, Briantais JM, Baker NR** (1989) The relationship between the quantum yield of photosynthetic electron transport and quenching of chlorophyll fluorescence. *Biochimica et Biophysica Acta* **990**, 87-92

- Geydan T, Melgarejo LM** (2005) Metabolismo ácido de las crasuláceas. *Acta Biológica Colombiana* **10**, 3-15
- Giannopolitis C, Ries S** (1977) Superoxide dismutases: occurrence in higher plants. *Plant Physiology* **59**, 309-314
- Gierth M, Mäser P** (2007) Potassium transporters in plants – Involvement in K⁺ acquisition, redistribution and homeostasis. Federation of European Biochemical Societies. *FEBS Letters* **581**, 2348-2356
- Givnish TJ, Montgomery RA, Goldstein G** (2004) Adaptive radiation of photosynthetic physiology in the Hawaiian Lobeliads: light regimes, static light responses, and whole-plant compensation points. *American Journal of Botany* **91**, 228-246
- Godoi S, Takaki M** (2004) Effects of light and temperature on seed germination in *Cecropia hololeuca* Miq. (Cecropiaceae). *Brazilian Archives of Biology and Technology* **47**, 185-191
- Gomes F, Oliva M, Mielke M, Almeida A, Aquino L** (2010) Osmotic adjustment, proline accumulation and cell membrane stability in leaves of *Cocos nucifera* submitted to drought stress. *Scientia Horticulturae* **126**, 379-384
- González L, González-Vilar M** (2001) Determination of relative water content. En: Reigosa, MJ. Handbook of plant ecophysiology techniques. Kluwer Academic Publishers Dordrecht, Netherland. 452pp.
- Goudriaan JY, Van Laar HH** (1995) Modelling potential growth processes. Textbook with exercises. Kluwer Academic Publishers. The Netherlands, 238 pp
- Graves CJ** (1983) The nutrient film technique. *Horticultural Reviews* **5**, 1-44
- Grissom Y, Pilet R** (1984) Cytoplasmic and wall isoperoxidases in growing maize roots. *Journal of Plant Physiology* **18**, 189-199
- Haji T, Yaegaki H, Yamaguchi M** (2003) Softening of stony hard peach by ethylene and the induction of endogenous ethylene by 1-aminocyclopropane-1-carboxylic acid (ACC). *Journal Japan Society Horticultural Science* **72**, 212-217
- Hajlaoui H, El Ayeb N, Garrec J, Denden M** (2010) Differential effects of salt stress on osmotic adjustment and solutes allocation on the basis of root and leaf tissue senescence of two silage maize (*Zea mays* L.) varieties. *Industrial crops and products* **31**, 122-130

- Hare PD, Cress WA** (1997) Metabolic implications of stress-induced proline accumulation in plants. *Plant Growth Regulation* **21**, 79-102
- Hare PD, Cress WA, Van Standen J** (1998) Dissecting the roles of osmolyte accumulation during stress. *Plant, Cell and Environment* **21**, 535-554
- Hatch MD, Slack CR** (1966) Photosynthesis in sugar cane leaves: a new carboxylation reaction and the path of sugar formation. *The Biochemical Journal* **101**, 103-111
- Hatch MD, Slack CR, Johnson HS** (1967) Further studies on a new pathway of photosynthetic carbon dioxide fixation in sugar cane and its occurrence in other plant species. *The Biochemical Journal* **102**, 417-422
- Hernández MS, Fernández-Trujillo JP, Martínez O, Barrera J, Watkins CB** (2000) Modified atmosphere packaging of arazá fruit. *Refrigeration Science & Technology Proceedings. Improving Postharvest Technologies of fruits, vegetables and ornamentals*. **2**, 666-673
- Hernández MS, Martínez O, Fernández-Trujillo JP** (2007) Behavior of arazá fruit quality traits during growth, development and ripening. *Scientia Horticulturae* **111**, 220-227
- Hernández MS, Barrera JA, Martínez O, Fernández-Trujillo JP** (2009) Postharvest quality of arazá fruit during low temperature storage. *LWT - Food Science and Technology* **42**, 879-884
- Herramienta para el análisis clásico en el crecimiento vegetal** en <http://aob.oxfordjournals.org/cgi/content/full/90/4/485>, consultado julio 2009.
- Herrera A, Rengifo E, Tezara W** (2010) Respuestas ecofisiológicas a la inundación en árboles tropicales tolerantes de un iguapó. *Ecosistemas* **19**, 37-51
- Herrero A, Guardia J** (1991) Conservación de frutos. Manual Técnico. Ediciones Mundi prensa. Grafo S.A. Bilbao 409pp
- Herron PM, Gage DJ, Cardon ZG** (2010) Micro-scale water potential gradients visualized in soil around plant root tips using microbiosensors. *Plant, Cell and Environment* **33**, 199-210
- Hessini K, Martínez J, Gandour M, Albouchi A, Soltani A, Abdelly C** (2009) Effect of water stress on growth, osmotic adjustment, cell wall elasticity and water-use efficiency in *Spartina alterniflora*. *Environmental and Experimental Botany* **67**, 312-319

- Hiderman J, Makino A, Kurita Y, Masa T, Ojima K** (1992) Changes in the levels of chlorophyll and light-harvesting chlorophyll a/b protein of PS II in senescence. *Plant and Cell Physiology* **53**, 1209-1214
- Hill R, Bendal F** (1960) Function of the two cytochrome components in chloroplast: a working hypothesis. *Nature* **186**, 136-137
- Hiwasa K, Kinugasa Y, Amano S, Hashimoto A, Nakano R, Inaba A, Kubo Y** (2003) Ethylene is required for both the initiation and progression of softening in pear (*Pyrus communis* L.) fruit. *Journal of Experimental Botany* **54**, 771-779
- Hoagland DR, Arnon DI** (1950) The water-culture method for growing plants without soil. *California Agricultural Experiment Station Circular* **347**, 1-32.
- Hossain D, Hanafi M, Talib J, Hamdan J** (2010) Effects of nitrogen, phosphorus and potassium levels on kenaf (*Hibiscus cannabinus* L.) Growth and photosynthesis under nutrient solution. *Journal of Agricultural Science* **2**, 49-56
- Howe GA, Jander G** (2008) Plant immunity to insect herbivores. *Annual Review of Plant Biology* **59**, 41-66
- Hunt R, Caustor DR, Shipley B, Askew P** (2002) A modern tool for classical plant growth analysis. *Annals of Botany* **90**, 485-488
- Hunt R** (1978) Plant grow analysis. Studies in biology. Number. 96 Edward Arnold publishers, London. 67pp
- Hunt R** (1982) Plant growth curves. The functional approach to plant growth analysis. Edward Arnold publishers. London, 248 pp
- Hunt R, Warren-Wilson J, Handy DW, Sweeney DG** (1984) Integrated analysis of growth and light interception in winter lettuce. I. analytical methods and environmental influences. *Annals of Botany* **54**, 743-757
- Hunt R** (1990) Basic growth analysis. Academic division of Unwin Hyman. London, 112 pp
- Hunt R, Caustor DR, Shipley B, Askew P** (2002) A Modern Tool for Classical Plant Growth Analysis. *Annals of Botany* **90**, 485-488
- Hunt R (2003) Plant growth analysis: individual plants. En: Thomas B, Murphy DJ, Murray D (Eds.). Encyclopedia of applied plant sciences. Academic Press, London, pp 579-588
- Iyer S, Caplan A** (1998) Products of proline catabolism can induce osmotically regulated genes. *Plant Physiology* **116**, 203-211

- Izumi Y, Okazawa A, Bamba T, Kobayashi A, Fukusaki E** (2009) Development of a method for comprehensive and quantitative analysis of plant hormones by highly sensitive nanoflow liquid chromatography–electrospray ionization-ion trap mass spectrometry, *Analytica Chimica Acta* **648**, 215-225
- J. van der Merwe M, Osorio S, Araújo WL, Balbo I, Nunes-Nesi A, Maximova E, Carrari F, Bunik VI, Persson S, Fernie AR** (2010) Tricarboxylic Acid Cycle Activity Regulates Tomato Root Growth via Effects on Secondary Cell Wall Production. *Plant Physiology* **153**, 611-621
- Jiménez SP, Hernández MS, Carrillo MP, Barrera JA, Martínez O, Fernández-Trujillo JP** (2008) Puntos críticos en la fisiología y la conservación postcosecha de dos mirtáceas amazónicas (arazá y camu camu). X Symposium Nacional y VI Ibérico sobre Maduración y Postcosecha. Zaragoza, España. En: Oria, R., Val, J., Ferrer, A. *Avances en maduración y post-recolección de frutas y hortalizas*. pp 410-417
- Jiménez-Bremont JF, Becerra-Flora A, Hernández-Lucero E, Rodríguez-Kessler M, Acosta-Gallegos JA, Ramírez-Pimentel JG** (2006) Proline accumulation in two bean cultivars under salt stress and the effect of polyamines and ornithine. *Biologia Plantarum* **50**, 763-766
- Jones C, Jacobsen J** (2001) Plant Nutrition and Soil Fertility. In: Nutrient Management Module No. 2. (ED) *Montana State University – Extension Service*, 12 pp
- Jones HG** (1992) *Plants and Microclimate: a quantitative approach to environmental plant physiology*. Cambridge University Press, UK, pp 131-162
- Jones HG, Tardieu F** (1998) Modelling water relations of horticultural crops: a review. *Scientia Horticulturae* **74**, 21–45
- Jones JB Jr** (1983) *A Guide for de hydroponic and soilless culture grower*. Timber press. Portland, 124pp
- Jones JB Jr** (1982) Hydroponics: Its history and use in plant studies. *Journal of Plant Nutrition* **5**, 1003-1030.
- Kadenbach B, Ramzan, R, Wen L, Vogt S** (2010) New extension of the Mitchell Theory for oxidative phosphorylation in mitochondria of living organisms. *Biochimica et Biophysica Acta - General Subjects* **1800**, 205-212

- Kader AA** (1992) Modified atmosphere during transport and storage . En: Kader AA (Ed) *Postharvest technology of horticultural crops*. (2^{ed}) University of California, Oakland pp. 85-92
- Kader AA** (1986) Biochemical and physiological and physiological basis for effects of controlled and modified atmospheres on fruits and vegetables. *Food Technology* **5**, 99-104
- Kader AA** (1994) Modified and controlled atmosphere storage of tropical fruits. In: Champ, BR (Ed) *Postharvest handling of tropical fruits: Proceedings of and international conference held at Chiang Mai ACIAR Proceedings ACIAR*, Thailand **50**, 239-249
- Kalacska M, Calvo-Alvarado JC, Sánchez-Azofeifa GA** (2005) Calibration and assessment of seasonal changes in leaf area index of a tropical dry forest in different stages of succession. *Tree Physiology* **25**, 733-744
- Kalaycia M, Torunb B, Ekerb S, Aydina M, Ozturkb L, Cakmak I** (1999) Grain yield, zinc efficiency and zinc concentration of wheat cultivars grown in a zinc-deficient calcareous soil in field and greenhouse. *Field Crops Research* **63**, 87-98
- Kamiya Y** (2010) Plant Hormones: Versatile Regulators of Plant Growth and Development. *Annual Review of Plant Biology* **61**, Special Online Compilation
- Kantety RV, van Santen E, Woods FM, Wood CW** (1996) Chlorophyll meter predicts nitrogen status of tall fescue. *Plant Nutrition* **19**, 881-889
- Kavi Kishor PB, Hong Z, Miao GH, Hu CAA, Verma DPS** (1995) Overexpression of 1-pyrroline-5-carboxylate synthetase increases proline production and confers osmotolerance in transgenic plants. *Plant Physiology* **108**, 1387-1394
- Kays SJ** (1997) *Postharvest physiology of perishable plant products* Exon Press Athens, Georgia 532 pp
- Keles Y, Öncel I** (2002) Response of antioxidative defence system to temperature and water stress combinations in wheat seedlings *Plant Science* **163**, 783-790
- Kim TH, Bohmer M, Hu H, Nishimura N, Schroeder JI** (2010) Guard Cell Signal Transduction Network: Advances in Understanding Abscisic Acid, CO₂, and Ca²⁺ Signaling. *Annual Review of Plant Biology* **61**, 561-591
- Kim TW, Wang ZY** (2010) Brassinosteroid Signal Transduction from Receptor Kinases to Transcription Factors. *Annual Review of Plant Biology* **61**, 681-704

- Kireyko AV, Veselova IA, Shekhovtsova TN** (2006) Mechanisms of peroxidase oxidation of *o*-dianisidine, 3,3',5,5'-tetramethylbenzidine, and *o*-phenylenediamine in the presence of sodium dodecyl sulfate. *Russian Journal of Bioorganic Chemistry* **32**, 71-77
- Klee H, Estelle M** (1991) Molecular genetic approaches to plant hormone biology. *Annual Review of Plant Physiol* **42**, 529 – 551
- Kleine-Vehn J, Friml J** (2008) Polar targeting and endocytic recycling in auxin-dependent plant development. *Annual Review of Cell and Developmental Biology* **24**, 447-473
- Kliebenstein DJ, Monde RA, Last RL** (1998) Superoxide dismutase in Arabidopsis: an eclectic enzyme family with disparate regulation and protein localization. *Plant Physiology* **118** 637–650.
- Knowles L, Trimble R, Knowles R** (2001) Phosphorus status affects postharvest respiration, membrane permeability and lipid chemistry of European seedless cucumber fruit (*Cucumis sativus* L.). *Postharvest Biology and Technology* **21**, 179-188.
- Koch KE, Xu J, Duke ER, McCarty DR, Yuan CX** (1995) Sucrose provides a long distance signal for coarse control of genes affecting its metabolism. In: Ed. HG Pontis, G Salerno, E Echeverria. Rockville *Sucrose Metabolism, Biochemistry, and Molecular Biology*, MD: American Society of Plant Physiology, Rockville, pp 266-277
- Konstantinova T, Parvanova D, Atanassov A, Djilianov D** (2002) Freezing tolerant tobacco, transformed to accumulate osmoprotectants. *Plant Science* **163**, 157-164
- Korycka M, Richardson T** (1978) Photogeneration of Superoxide Anion in Serum of Bovine Milk and in Model Systems Containing Riboflavin and Amino Acids. *Journal of Dairy Science* **61**, 400-407
- Kovacik J, Klejdus B, Backor M, Repečak M** (2007) Phenylalanine ammonia-lyase activity and phenolic compounds accumulation in nitrogen-deficient *Matricaria chamomilla* leaf rosettes. *Plant Science* **172**, 393-399
- Kramer PJ, Boyer J** (1995) *Water relations of plants and soils*, Academic Press, San Diego, 495 pp
- Kraub N** (2003) Mechanisms for photosystems I y II. *Current Opinion in Chemical Biology* **7**, 540-550

- Krause GH, Weiss E** (1991) Chlorophyll fluorescence and photosynthesis: The basics. *Annual Review of Plant Physiology and Plant Molecular Biology* **42**, 249-313.
- Krishnan N, Chattopadhyay S, Kundu JK, Chaudhuri A** (2002) Superoxide dismutase activity in aemocytes and haemolymph of *Bombix mori* following bacterial infection. *Current Science* **83**, 321-325
- Krugh B, Bichham L, Miles D** (1994) The solid-state chlorophyll meter, a novel instrument for rapidly and accurately determining the chlorophyll concentrations in seedling leaves. Maize genetics cooperation. *News Letter*. **68**, 25-27
- Kuntz M, Chen H, Simkin A, Shipton C, Drake R, Schuch W, Bramley M** (1998) Upregulation of two ripening-related genes from a non climacteric plant (pepper) in a transgenic climacteric plant (tomato). *The Plant Journal* **13**, 351-361
- Lake JA, Quick WP, Beerling DJ, Woodward FI** (2001) Signals from mature to new leaves *Nature* **411**, 154
- Lambers H, Chapin III FS, Pons TL** (1998) *Plant Physiological Ecology* Springer-Verlag, New York, 540 pp.
- Larcher W** (2003) *Physiological plant ecology: Ecophysiology and stress physiology of functional group* (4th Ed), Editorial Springer Verlag, Berlin, pp 1-163
- Larsen RU** (1990) Plant growth modelling by light and temperature. *Acta Horticulturae* **272**, 235-242.
- Le Bot J, Adamowicz S, Robin, P** (1998) Modelling plant nutrition of horticultural crops: a review. *Scientia Horticulturae* **74**, 47-81
- Lee HY, Chow WS, Hong YN** (1999) Photoinactivation of photosystem II in leaves of *Capsicum annuum*. *Physiologia Plantarum* **105**, 377-384
- Lenton J** (1998) Plant hormones on the move! *Trends in plant science* **3**, 457-458
- Lichtenthaler HK** (1987) Chlorophylls and Carotenoids: Pigments of Photosynthetic Biomembranes. In: *Methods in Enzymology*. Academic Press, Inc **148**, 350-382
- Lichtenthaler HK, Buschmann C** (2001) Chlorophylls and carotenoids – measurement and characterisation by UV-VIS. Current protocols in food analytical chemistry. In: Wiley J. *Current Protocols in Food Chemistry*, New York, F4.3.1–F4.3.8 pp

- Licor Inc** (1989) *Steady State Porometer Instruction Manual*, Nebraska, 87pp
- Littke KM, Zabowaki D** (2007) Influence of calcium fertilization on Douglas-fir foliar nutrition, soil nutrient availability, and sinuosity in coastal Washington *Forest Ecology and Management* **247**, 140-148
- Lyons JM, RW, Breidenbach** (1987) Chilling injury. In: Weichman, J.(ed.) *Postharvest Physiology of Vegetables*. Marcel Dekker Inc., NY, pp 305-326
- Marangoni AG, Palma T, Stanley DW** (1996). Membrane effects in postharvest physiology *Postharvest Biology and Technology* **7**, 193-217
- Marcelis LFM, Heuvelink E, Goudriaan J** (1998) Modelling biomass production and yield of horticultural crops: a review. *Scientia Horticulturae* **74**, 83-111
- Marenko RA, Antezana-Vera SA, Nascimento HCS** (2009) Relationship between specific leaf area, leaf thickness, leaf water content and SPAD-502 readings in six Amazonian tree species. *Photosynthetica* **47**, 184-190
- Marschner H** (1995) *Mineral Nutrition of Higher Plants* (2nd Ed), Academic Press, London, 889 pp
- Marshall JD, Waring RH** (1986) Comparison of methods of estimating leaf area index in old-growth douglas fir. *Ecology* **67**, 975-979
- Mathooko FM** (1996) Regulation of respiratory metabolism in fruit and vegetables by carbon dioxide. *Postharvest Biology and Technology* **9**, 247-264
- Maxwell K, Johnson G** (2000) Chlorophyll fluorescence – a practical guide. *Journal of Experimental Botany* **51**, 659-668
- McCord JM, Crapo JD, Fridovich I** (1977) Superoxide dismutase assay: A review of methodology. In: Michelson AM, McCord JM, Fridovich I (Eds). *Superoxide and superoxide dismutases*, Academic press, NewYork, pp 11-17
- McCourt P** (1999) Genetic analysis of hormone signaling. *Annual Review of Plant Physiology and Plant Molecular Biology* **50**, 219-243
- McSteen P, Zhao Y** (2008) Plant Hormones and Signaling: Common Themes and New Developments. *Developmental Cell* **14**, 467-473
- Mediavilla S, Escudero A** (2004) Stomatal responses to drought of mature trees and seedlings of two co-occurring Mediterranean oaks. *Forest Ecology and Management* **187**, 281-294
- Melgarejo LM, Romero HM, Solarte ME, Insuasty O** (2010a) Caracterización ecofisiológica de variedades de guayaba por función de uso. Informe final de proyecto financiado por Ministerio de Agricultura y Desarrollo Rural, Asofrucol, Universidad Nacional de Colombia, Corpoica, cooperativa comestibles El Exito. 186pp

- Melgarejo LM, Romero HM, Rojas YA, Moreno AL, Rodríguez M (2010b)** Utilización de indicadores ecofisiológicos y bioquímicos para la identificación en campo de clones de *Gmelina arborea* adaptados a las condiciones de la zona norte de Colombia. Informe de proyecto financiado por Ministerio de Agricultura y Desarrollo Rural, Universidad Nacional de Colombia, Pizano S.A. 254pp
- Melgarejo LM, Romero HM, Colmenares SL, Oliveros HM (2010c)** Estudio de fisiológico de las especies forestales *Myrcianthes leucoxylla*, *Abatia parviflora*, *Alnus acuminata*, y *Cedrela montana*. Bogotá Colombia. Informe final de proyecto financiado por Universidad Nacional de Colombia. 139pp
- Melgarejo LM, Matiz A, Moreno AL, Cruz M (2010d)** Absorción, traslocación y acumulación de cadmio en plantas de *Avicennia germinans* y *Rhizophora mangle*. Informe final de Proyecto financiado por Fundación para la promoción de la ciencia y tecnología Banco de la República, Universidad Nacional de Colombia. 125pp
- Melgarejo LM, Romero HM, Pérez WH, Jazayeri M (2010e)**. Caracterización de proteínas relacionadas con tolerancia a estrés hídrico en palma de aceite mediante proteómica. Informe de proyecto financiado por Colciencias, Universidad Nacional de Colombia y Cenipalma. 100p.
- Melgarejo LM, Hernández MS, Moreno AL, Orjuela N, Meneses M, Crespo S (2010f)**. Efecto de las condiciones poscosecha sobre la fisiología, bioquímica, conservación y análisis proteómico en frutos de gulupa *Passiflora edulis* Sims. Informe de proyecto financiado por Colciencias, Universidad Nacional de Colombia, OCATI SA. 120p
- Melgarejo LM, Pérez LV, Cruz M, Flórez L, Magnistkiy S, Moreno LP (2010g)** Caracterización ecofisiológica de gulupa bajo tres condiciones ambientales en el departamento de Cundinamarca. Informe de proyecto financiado por Ministerio de Agricultura y Desarrollo Rural. 150p
- Melgarejo LM, Pérez L, Hernández MS (2010h)** Ecophysiological characterization of purple passion plant (*Passiflora edulis* Sims) in three areas of Colombian Andean region. XXVIII International Congress ISHS. Lisboa, Portugal (en prensa) pp 752-753

- Mengel K, Kirkby EA** (1987) *Principles of Plant Nutrition*. Third edition. International Potash Institute. Worblaufen-Bern, Switzerland. 593 pp
- Mielke M S, Schaffer B, Li C** (2010) Use of a SPAD meter to estimate chlorophyll content in *Eugenia uniflora* L. leaves as affected by contrasting light environments and soil flooding. *Photosynthetica* **48**, 332-338
- Mittler R, Vanderauwera S, Gollery M, Van Breusegem F** (2004) The reactive oxygen gene network of plants. *Trends in Plant Science* **9**, 490-498
- Mohr S** (1995) *Plant physiology*. Springer. Velllong. Berlin, 629pp
- Moller IM, Jesen PE, Hasson A** (2007) Oxidative modification to cellular components in plants. *Annual Review of Plant Biology* **58**, 459-481
- Møller IM** (2001) Plant mitochondria and oxidative stress: Electron Transport, NADPH Turnover, and Metabolism of Reactive Oxygen Species. *Annual Review of Plant Physiology and Plant Molecular Biology* **52**, 561-91
- Moreira A, Gomez A, Duarte A, Coser C, Mendoca L, Souza L, Maia N, Duarte-da Silva P, Vale R** (1992) Regras para análise de sementes. Ministerio da agricultura e reforma agrária. Brasilia-D.F. 365pp
- Moreno F, Plaza GA, Magnitskiy SV** (2006) Efecto de la testa sobre la germinación de semillas de caucho (*Hevea brasiliensis* Muell.). *Agronomía Colombiana* **24**, 290-295
- Murata N, Takahashi S, Nishiyama Y, Allahverdi VS** (2007) Photoinhibition of photosystem II under environmental stress. *Biochemica et Biophysica Acta* **1767**, 414-421
- Nakajima M, Shimada A, Takashi Y, Kim Y, Park SHIN, Ueguchi-Tanaka M, Suzuki H, Katoh E, Iuchi S, Kobayashi M, Maeda T, Matsuoka M, Yamaguchi I** (2006) Identification and characterization of Arabidopsis gibberellin receptors. *Plant Journal* **46**, 880-889
- Nakano Y, Asada K** (1981) Hydrogen peroxide is scavenged by ascorbate specific peroxidase in spinach chloroplasts. *Plant Cell Physiology* **22**, 867-880
- Nakasone HY, Paull RE** (1998) *Tropical fruits*. CABI publishing. Oxon UK, 445 pp
- Nambara E, Marion-Poll A** (2005) Abscisic acid biosynthesis and catabolism. *Annual Review of Plant Biology* **56**, 165-185
- Naqui A, Chance B** (1986) Reactive oxygen intermediates in biochemistry. *Annual Review of Biochemistry* **55**, 137-166

- Negbi M, Black M, Bewley D** (1968) Far-red Sensitive Dark Processes Essential for Light- and Gibberellin-induced Germination of Lettuce Seed. *Plant Physiology* **43**, 35-40
- Nelson N, Yocum F** (2006) Structure and function of photosystems I and II *Annu. Annual Review of Plant Biology* **57**, 521-565
- Nelson N** (1944) A photometric adaptation of the Somogyi method for determination of glucose. *Journal of Biological Chemistry* **153**, 257-262
- Nicholls P, Fita I, Loewen P** (2001) Enzymology and structure of catalases. *Advances in Inorganic Chemistry* **51**, 51-106
- Niessen M, Thiruveedhi K, Rosenkranz R, Kebeish R, Hirsch HZ, Kreuzaler F, Peterhänsel C** (2007) Mitochondrial glycolate oxidation contributes to photorespiration in higher plants. *Journal of Experimental Botany* **58**, 2709-2715
- Nomiya H** (2010) Differentiation of seed germination traits in relation to the natural habitats of three *Ulmus* species in Japan. *Journal of Forest Research* **15**, 123-130
- Nuez F, Ortega R, Costa J** (1996) El cultivo de pimientos, chiles y ajíes. Mundi Prensa. Madrid. 607 pp
- Ogren W** (1984) Photorespiration: pathways, regulation, and modification. *Annual Review of Plant Physiology* **35**, 415-42
- Osmond CB** (1994) *What is photoinhibition? Some insights from comparisons of shade and sun plants.* In *Photoinhibition of Photosynthesis from Molecular Mechanisms to the Field.* Baker NR, Bowyer JR (Ed), Oxford, BIOS Scientific Publishers pp 1-24
- Páez A, Paz V, López J** (2000) Crecimiento y respuestas fisiológicas de plantas de tomate cv. 'Río Grande'. *Revista Facultad Agronomía (LUZ)* **17**, 173-184
- Parkin KL, Marangoni A, Jackman RL, Yada RY, Stanley DW** (1989) Chilling injury. A review of possible mechanisms. *Journal of Food Biochemistry* **13**, 127-153
- Parry MAJ, Flexas J, Medrano H** (2005) Prospects for crop production under drought: research priorities and future directions. *Annals of Applied Biology* **147**, 211-226
- Paull RE** (1990) Heat shock response in field grown, ripening papaya fruit. *Journal of the American Society for Horticultural Science* **115**, 623-631
- Paull RE** (1994) Tropical fruit physiology and storage potential. En: Champ BR (Ed). 184pp

- Piekielek WP, Fox RH** (1992) Use of a chlorophyll meter to predict nitrogen requirements for maize. *Agronomy Journal* **84**, 59-65
- Plumier JA, McChesney C, Bell T, David J** (1997) Germination in Photosensitive Seeds: Does Phytochrome Stimulate Metabolism of GA19 and GA20 to GA1 Australian. *Journal of Plant Physiology*. **24**, 389–394.
- Poni S, Bernizzonia F, Civardi S, Gatti M, Porro D, Camin F** (2009) Performance and water use efficiency (single leaf vs whole-canopy) of well watered and half stressed split root Lambrusco grapevines grown in Po Valley (Italy). *Agricultural, Ecosystems and Environment* **129**, 97-106
- Probert RJ** (2010) The role of temperature in the regulation of seed dormancy and germination. Chapter 11. En: Fenner M. Seeds the ecology of regeneration in plant communities. Second edition. CABI Publishing. Wallingford U.K. 261-292 pp.
- Prusinkiewicz P** (1998) Modeling of spatial structure and development of plants: a review. *Scientia Horticulturae* **74**, 113-149
- Pyo YJ, Gierth M, Schroeder JI, Cho MH** (2010) High-affinity K(+) transport in Arabidopsis: AtHAK5 and AKT1 are vital for seedling establishment and postgermination growth under low-potassium conditions. *Plant Physiology* **153**, 863-75
- Quick WP, Horton P** (1984) Studies on the induction of chlorophyll fluorescence in barley protoplasts I. Factors affecting the observations of oscillations in the yields of chlorophyll fluorescence and the rate of oxygen evolution. *Proceedings of the Royal Society of London*. **220**, 361-370
- Radford PJ** (1967) Growth analysis formulae. Their use and abuse. *Crop Science* **7**, 171-174
- Radosevich SR, Holt J** (1984) World ecology, implications for vegetation management. John Wiley and Sons. New York, pp 25-32
- Ramanjulu S, Sudhakar C** (2000) Proline metabolism during dehydration in two mulberry genotypes with contrasting drought tolerance. *Journal of Plant Physiology* **157**, 81-85
- Rasmusson AG, Soole KL, Elthon TE** (2004) Alternative NAD(P)H dehydrogenases of plant mitochondria. *Annual Review of Plant Biology* **55**, 23-39

- Rabaioli-Da Silva LC, Rebello-Dillenburg L** (2007) Water relation of three species growing on a rock outcrop in the "Parque Estadual de Itapua". *Revista Brasileira de Botanica* **30**,703-711
- Reeves WD, Mask PL, Wood CW, Delay DP** (1993) Determination of wheat nitrogen status with a handheld chlorophyll meter. Influence of management practices. *Journal of Plant Nutrition* **16**, 7781-7796
- Reigosa M, Pedrol N, Sánchez A** (2003). La Ecofisiología Vegetal: Una ciencia de síntesis. Thomson. España pp 17-30
- Repellin A, Laffray D, Daniel C, Braconnier S, Zuily-Fodil Y** (1997) Water relations and gas exchange in young coconut palm (*cocos nucifera* L.) as influenced by water deficit. *Canadian Journal of Botany*. **75**, 18-27.
- Resh HM** (1989) Hydroponic food production. Woodridge Press. Santa Barbara, California, 384pp
- Rhodes MJC** (1980) *The maturation and ripening of fruits*. En:Thimann, K.V. (eds). *Senescence in plants*. CRC Press. Boca Raton, Florida, 158-199 pp
- Richardson A, Duigan S, Berlyn G** (2002) An evaluation of noninvasive methods to estimate foliar chlorophyll content. *New Phytologist* **153**, 185-194
- Rocha M, Licausi F, Araújo WL, Nunes-Nesi A, Sodek L, Fernie AR, van Dongen J** (2010) Glycolysis and the Tricarboxylic Acid Cycle Are Linked by Alanine Aminotransferase during Hypoxia Induced by Waterlogging of *Lotus japonicus*. *Plant Physiology* **152**, 1501-1513
- Rodriguez-Milla MA, Maurer A, Rodriguez-Huete A, Gustafson JP** (2003) Glutathione peroxidase genes in *Arabidopsis* are ubiquitous and regulated by abiotic stresses through diverse signaling pathways. *The Plant Journal* **36**, 602-615
- Roelfsema M, Rob G, Rainer H** (2005) In the Light of Stomatal Opening: New Insights into 'The Watergate'. *New Phytologist* **167**, 665-691
- Rolando CA, Little KM** (2008) Measuring water stress in *Eucalyptus grandis* Hill ex Maiden seedlings planted into pots. *South African Journal of Botany* **74**, 133-138
- Rossini O, Valdes MC, Marquez A, Bueso- López M** (2006) Germinación de las semillas en algunas especies americanas de Fabaceae y Bignoniaceae cultivadas en Sevilla España. *Lagascalia* **26**, 119-129
- Royer DL** (2001) Stomatal density and stomatal index as indicators of paleoatmospheric CO₂ concentration. *Review of Palaeobotany and Palynology* **114**, 1-28

- Ruffel S, Krouk G, Coruzzi GM** (2010) A Systems View of Responses to Nutritional Cues in Arabidopsis: Toward a Paradigm Shift for Predictive Network Modeling. *Plant Physiology* **152**, 445-452
- Ruiz A, Cardona J, Carrillo MP, Hernández MS, Barrera J, Martínez O, Fernandez-Trujillo JP** (2010) Postharvest behaviour of three cocona ecotypes during low temperature storage. XXVIII International Congress ISHS. Lisboa, Portugal (en prensa)
- Rupasinghe HPV, Murr DP, Paliyath G, Skog L** (2000) Inhibitory effect of 1-MCP on ripening and superficial scald development in ‘McIntosh’ and ‘Delicious’ apples. *Journal of Horticultural Science & Biotechnology* **75**, 271-276
- Russo VM, Bruton VD, Sams CE** (2010) Classification of temperature response in germination of Brassicas. *Industrial Crops and products* **31**, 48-51
- Ryding O** (1995) Pericarp structure and phylogeny of the Lamiaceae-Verbenaceae-complex. *Plant Systematic Evolution* **198**, 101-141
- Sack L, Holbrook NM** (2006) Leaf Hydraulics. *Annual Review of Plant Biology* **57**, 361-381
- Sakakibara H** (2006) Cytokinins: Activity, Biosynthesis, and Translocation. *Annual Review of Plant Biology* **57**, 431-449
- Salisbury EJ** (1928) On the causes and ecological significance of stomatal frequency, with special reference to the woodland flora. *Philosophical Transactions of the Royal Society of London. Series B, Containing papers of a Biological Character* **216**, 1-65
- Salisbury F, Roos CW** (2000) *Fisiología de las plantas 1. Celulas: agua, soluciones y superficies*. Paraninfo- Thomson Learning, Primera edición, London, pp 171-197.
- Salveit ME** (1993) Internal Carbon Dioxide And Ethylene Levels In Ripening Tomato Fruit Attached To Or Attached From The Plant. *Physiology Plant* **89**, 204-210
- Sanabria D, Silva R, Oliveros M, Barrios R** (2001) Escarificación química y mecánica de semillas subterráneas de *Centrosema Rotundifolium*. *Bioagro* **13**, 117-124
- Santner A, Estelle M** (2009) Recent advances and emerging trends in plant hormone signaling. *Nature* **459**, 1071-1078
- Schimel DS** (1995) Terrestrial ecosystems and the carbon cycle. *Global Change Biology* **1**, 77-91

- Schreiber U, Bilger WH, Hormann H, Neubauer C** (1998) Chlorophyll fluorescence as a diagnostic tool. Basics and some aspects of practical relevance. In: Raghavendra AS (eds) *Photosynthesis A Comprehensive Treatise*. Cambridge University Press, Cambridge, UK, pp 320-336
- Schreiber U, Schliwa U, Bilger W** (1986) Continuous recording of photochemical and nonphotochemical fluorescence quenching with a new type of modulation fluorometer. *Photosynthesis Research* **10**, 51-62
- Schulze ED** (1986) Carbon Dioxide and Water Vapor Exchange in Response to Drought in the Atmosphere and in the Soil. *Annual Review of Plant Physiology* **37**, 247-274
- Schulze ED, Robichaux RH, Grace J, Rundel PW, Ehleringer JR** (1987) Plant Water Balance. *Bioscience* **37**, 30-37
- Sellin A** (1999) Does Pre-Dawn water potential reflect conditions of equilibrium in plants and soil water status?. *Acta Oecologica* **20**, 51-59
- Seymour G, Taylor J, Tucker G** (1993) Biochemistry of fruit ripening. Chapman & hall. Primera edición, London, pp 1-43
- Shanker D** (2005) Photosynthesis in Plants under Stressful Conditions. In Pessaralim. Handbook of photosynthesis. Second Edition. New York, pp 717-737
- Shao HB, Chu LY, Jaleel CA, Zhago CX** (2008) Water deficit stress induced anatomical changes in higher plants. *Comptes Rendus Biologies* **331**, 215-225
- Shen B, Jesen RG, Bohnert HJ** (1997) Increased resistance to oxidative stress in transgenic plants by targeting mannitol biosynthesis to chloroplast. *Plant Physiology* **113**, 1177-1183.
- Shenker M, Plessner OE, Tel-Or E** (2004) Manganese nutrition effects on tomato growth, chlorophyll concentration, and superoxide dismutase activity. *Plant Physiology* **161**, 197-202
- Sieger SM, Kristensen BK, Robson CA, Amirsadeghi S, Eng EWY, Abdel-Mesih A, Møller IM, Vanlerberghe GC** (2005) The role of alternative oxidase in modulating carbon use efficiency and growth during macronutrient stress in tobacco cells. *Journal of Experimental Botany* **56**, 1499-1515
- Slatyer RO** (1967) Plant-water relationships. Academic Press, London, England, 366pp
- Slatyer RO, Taylor SA** (1960) Terminology in plant and soil-water relations. *Nature*. **187**, 922-924

- Smart R, Bingham G** (1974) Rapid estimates of relative water content. *Plant Physiology* **53**, 258-260
- Smirnoff N** (2005) Antioxidants and reactive oxygen species in plants. Edited by school of biological and chemical sciences. University of Exeter. UK. Chapter 5, pp 125
- Smith K, Silvernail N, Roders K, Castro M, Parcher R, Elgren T** (2002) Soil-gel encapsulated peroxidase: a catalytic material for peroxidation. *Journal of the American Chemical Society* **124**: 4247-4252
- Snyder KA, Richards JH, Donovan LA** (2003) Night-time conductance in C3 and C4 species: do plants lose water at night?. *Journal of Experimental Botany*. 54 (383):861-865.
- Solarte ME, Romero HM, Melgarejo LM** (2010) Caracterización ecofisiológica de la guayaba de la hoyá del río Suárez. En: *Desarrollo de productos funcionales promisorios a partir de la guayaba (Psidium guajava L.) para el fortalecimiento de la cadena productiva*. Morales AL, Melgarejo LM (Eds) 200p. Universidad Nacional de Colombia. Bogotá, Colombia pp 25-56
- Somogyi M** (1952) Notes of sugar determination. *Journal of Biological Chemistry* **195**, 19-23
- Steward FC** (1969) Analysis of grow. Behavior of plants and their organs physiology. New York Academic press. Pp 38-41
- Srivastava L** (2002) Plant growth and development. Hormones and environment. Academic Press Elsevier science. London, 772 pp
- Statistix 9.0** Copyright (C) 1985-2008 Analytical Software. All Rights Reserved
- Stitt M, Sulpice R, Keurentjes J** (2010) Metabolic Networks: How to Identify Key Components in the Regulation of Metabolism and Growth. *Plant Physiology* **152**, 428-444
- Suzuki LS, Herrig V, Ferrarese MLL, Rodrigues JD, Ferrarese-Filho O** (2003) Simultaneous effects of ferulic and vanillic acids on peroxidase and phenylalanine ammonia-lyase in soybean (*Glycine max*) roots. *Phyton* **43**, 179–185
- Sweetlove L, Moller I** (2009) Oxidation of Proteins in Plants-Mechanisms and Consequences., *Advances in Botanical Research* **52**, 1-24
- Tadesse T, Hewett EW, Nichols MA, Fisher KJ** (2002) Changes In Physicochemical Attributes Of Sweet Pepper Cv. Domino During Fruit Growth And Development. *Scientia Horticulturae* **93**, 91-103

- Taiz L, Zeiger E** (2006) Plant physiology. 2nd ed. Sinauer Associates, Sunderland, Massachusetts, 764 pp
- Takaki M** (2001) New proposal of classification of seeds based on forms of phytochrome instead of photoblastism. *Revista Brasileira da Fisiologia Vegetal* **13**,104-108
- Tanaka R, Tanaka R** (2002) Tetrapyrrole evolution of photosynthesis. *Annual Review of Plant Biology* **53**, 503-521
- Tardieu F, Patent B, Simmonneau T** (2010) Control of leaf growth by abscisic acid: hydraulic or non hydraulic processes?. *Plant, cell and Environment* **33**, 636-647
- Tausz M, Sircelj H, Dieter G** (2004) The glutathione system as a stress marker in plant ecophysiology: is a stress-response concept valid?. *Journal of Experimental Botany* **55**, 1955-1962
- Tay AC, Abdullah AM, Awang M, Rurukawa A** (2007) Midday depression of photosynthesis in *Ekleia malacensis* a woody climber in a tropical rainforest. *Photosynthetica* **45**, 189-193
- Taylor SH, Ripley BS, Woodward FI, Osborne CP** (2010) Drought limitation of photosynthesis differs between C3 and C4 grass species in a comparative experiment. *Plant, Cell and Environment* doi: 10.1111/j.1365-3040.2010.02226.x
- Teixeira FK, Menezes-Benavente L, Costa Galvão V, Margis-Pinheiro M** (2005) Multigene families encode the major enzymes of antioxidant metabolism in *Eucalyptus grandis* L. *Genetics and Molecular Biology* **28**, 529-538
- Thompson AK** (1996) Postharvest technology of fruit and vegetables. Blackwell Science Publishing, 410 pp
- Tognolli M, Penel C, Greppin H, Simon P** (2002) Analysis and expression of the class III peroxidase large gene family in *Arabidopsis thaliana*. *Gene* **288**, 129-138
- Toshiba Y, Kiyosue T, Nakashima K, Yamaguchi-Shinozaki K, Shinozaki K** (1997) Regulation of levels of proline as an osmolyte in plants under water stress. *Plant Cell and Physiology* **38**, 1095-1102
- Turner FT, Jund MF** (1991) Chlorophyll meter to predict nitrogen topdress requirement for semiwardf rice. *Agronomy Journal* **83**, 926-928

- Ueguchi-Tanaka M, Nakajima M, Motoyuki A, Matsuoka M** (2007) Gibberellin receptor and its role in gibberellin signaling in plants. *Annual Review of Plant Biology* **58**, 183-98
- Ulrich BH** (1974) *Method Enzimology*. New York. Academic Press pp 109-115
- Van Reuler H, Prins WH** (1993) The role of plant nutrients for sustainable food production in sub-Saharan Africa. Leidschendam, The Netherlands, VKP, 232 pp
- Vandeleur RK, Mayo G, Shelden M, Gillihan M, Kaiser B, Tyerman S** (2009) The role of intrinsic aquaporins in water transport through roots: Diurnal and drought stress responses reveal different strategies between isohydric and anisohydric cultivars of grapevine. *Plant Physiology* **149**, 449-460
- Vandenabeele S, Vanderauwera S, Vuylsteke M** (2004) Catalase deficiency drastically affects high light-induced gene expression in *Arabidopsis thaliana*. *Plant Journal* **39**, 45-58
- Vert G, Nemhauser JL, Geldner N, Hong F, Chory J** (2005) Molecular Mechanisms of Steroid Hormone Signaling in Plants. *Annual Review of Cell and Developmental Biology* **21**, 177-201
- Villavicencio LE, Blankenship SM, Sanders DC, Swallow YWH** (2001) Ethylene and carbon dioxide concentrations in attached fruits of pepper cultivars during ripening. *Scientia Horticulturae* **91**, 17-24
- Vlot AC, Dempsey DA, Klessig DF** (2009) Salicylic acid, a multifaceted hormone to combat disease. *Annual Review of Phytopathology* **47**, 177-206
- Vogel AL** (1989) *Practical organic chemistry*, 5 ed. Longman Scientific & Technical. London, chapter 2, pp 45-47
- Wang CY** (1983) Postharvest responses of Chinese cabbage to high CO₂ treatment or low O₂ storage. *Journal American Society of Horticultural Science* **108**, 125-129
- Wang CY** (1994) Approaches to reduce chilling injury of fruit and vegetables. *Horticultural Reviews* **15**, 63-95
- Watson DJ** (1952) The physiological basis of variation in yield. *Advances in Agronomy* **4**, 101-145
- Werner H** (2002) *Measuring Soil Moisture for Irrigation Water Management*. FS876. Dakota SD: College of Agriculture and Biological Sciences, South Dakota State University, pp 1-5

- Wilhem WW, Ruwe K, Schlemmer M** (2000) Comparison of three leaf area index meters in a crop canopy. *Crop Science* **40**, 1179-1183
- Wills R, Mc Glasson B, Graham D, Joyce D** (1998) *Posharvest. An introduction to the physiology & handling of fruit, vegetables & ornamentals*. 4th edition CABI Publishing. pp 33-60, 97-112
- Wood CW, Tracy PW, Reeves DW, Edmisted KL** (1992) Determination of cotton nitrogen status with a hand-held chlorophyll meter. *Journal of Plant Nutrition* **15**, 1435-1448
- Wyka TP, Lüttge UE** (2003) Contribution of C3 carboxylation to the circadian rhythm of carbón dioxide uptake in a Crassulacean acid metabolism plant *Kalanchoë daigremontiana*. *Journal of Experimental Botany* **54**, 1471-1479
- Xiang-wen P, Wen-bin L, Qiu-ying Z, Yan-hua L, Ming-shan L** (2008) Assessment on Phosphorus Efficiency Characteristics of Soybean Genotypes in Phosphorus-Deficient Soils. *Agricultural Sciences in China* **7**, 958-969
- Yamaguchi S** (2008) Gibberellin metabolism and its regulation. *Annual Review Plant Biology* **59**, 225-251
- Yamaguchi S, Kamiya Y** (2000) Gibberellin biosynthesis: its regulation by endogenous and environmental signals. *Plant Cell Physiology* **41**, 251-257
- Yamasaki S, Rebello L** (1999) Measurement of leaf relative water content in *Araucaria angustifolia*. *Revista Brasileira de Fisiología Vegetal* **11**, 69-75
- Yannarelli GG, Fernandez A, Santa-Cruz D, Tomaro M** (2007) Glutathione reductase activity and isoforms in leaves and roots of wheat plants subjected to cadmium stress. *Phytochemistry* **68**, 505-512
- Yancey PH** (2005) Organic osmolytes as compatible, metabolic and counteracting cytoprotectants in high osmolarity and other stresses. *The Journal of Experimental Botany* **208**, 2919-2830
- Yoshida S** (1972) Physiological aspects of grain yield. *Annual Review of Plant Physiology* **23**, 437-464
- Yu DJ, Kim SJ, Lee HJ** (2009) Stomatal and non stomatal limitations to photosynthesis in field-grown grapevine cultivars. *Biologia Plantarum* **53**, 133-137
- Zazimalová E, Krecek P, Skupa P, Hoyerová K, Petrásek J** (2007) Polar transport of the plant hormone auxin-the role of PIN-FORMED (PIN) proteins. *Cellular and Molecular Life Sciences* **64**, 1621-1637

- Zeinalov Y** (2005) Mechanisms of photosynthetic oxygen evolution and fundamental hypotheses of photosynthesis. In Pessaraki M. *Handbook of photosynthesis*. Second Edition. New York, pp 3-19
- Zhao D, Reddy KR, Kakani VG, Read JJ, Carter GA** (2003) Corn (*Zea mays* L.) growth leaf pigment concentration, photosynthesis and leaf hyperspectral reflectance properties as affected by nitrogen supply. *Plant Soil* **257**, 205-217
- Zhao D, Reddy KR, Kakani VG, Read JJ, Koti S** (2005a) Selection of optimum reflectance ratios for estimating leaf nitrogen and chlorophyll concentrations of field-grown cotton. *Agronomy Journal* **97**, 89-98
- Zhao D., Reddy KR, Kakani VG, Read JJ, Koti S** (2005b) Nitrogen deficiency effects on plant growth, leaf photosynthesis, and hyperspectral reflectance properties of sorghum. *European Journal of Agronomy* **22**: 391-403
- Zhao Y** (2010) Auxin Biosynthesis and Its Role in Plant Development. *Annual Review of Plant Biology* **61**, 49-64
- Zimmermann G, Israeli Y, Zhou A, Schwartz A, Bamberg E, Zimmermann D** (2010) Effects of environmental parameters and irrigation on the turgor pressure of banana plants measured using the non-invasive, online monitoring leaf patch clamp pressure probe. *Plant Biology* **12**, 424-436
- Zor T, Selinger Z** (1996) Linearization of the Bradford protein assay increases its sensitivity. Theoretical and experimental studies. *Analytical Biochemistry* **236**, 302-308
- Zsófi Z, Varadi G, Bálo B, Marschall M, Nagy Z, Dulaic S** (2009) Heat acclimation of grapevine leaf photosynthesis: meso- and macroclimatic aspects. *Functional plant Biology* **36**, 310-322