

Marcela Serna González

Place and date of birth: Rionegro, (Antioquia, Colombia), march 27, 1976

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1. Education

National University of Colombia, Medellin, Forest Engineering 2000.

National University of Colombia, Medellin, Master of Sciences in Forest and Environmental Conservation 2005.

National University of Colombia, Medellin, Candidate of the Doctoral Program in Ecology Since August 2013.

2. Employment history

Lecturer of Botany, Bioethics, Ecology and biodiversity. Advisor of students for their final research work. Tecnológico de Antioquia, Medellin 2009 – present.

Lecturer of Botany, National University of Colombia, Medellin, 2004, 2009.

Lecturer of Ecology and Biodiversity, La Salle University, Caldas, 2007-2008.

Lecturer of Dendrology, National University of Colombia, Medellin, 2005 – 2007.

Consultant to perform the Watersheds Management Plan in nine municipalities of Antioquia Province, National University of Colombia, Medellín 2005-2006.

Lecturer of Botany, Politécnico Colombiano Jaime Isaza Cadavid, Medellin 2004 – 2009.

Herbarium curator, Medellin Botanical Garden JAUM, Medellin, 2005.

Consultant to perform the synthesis of the knowledge of Flora in Antioquia Province, Medellin 2000, 2002.

Researcher Medellin Botanical Garden, 1999 – 2005.

3. Publications

Scientific publications

Lombardi, J. & Serna, M. 2017. *Salacia fugax*, an elusive new South American Salacioideae (Celastraceae). *Phytotaxa* 317 (4): 292-296.

Serna, M. & Velásquez Ruiz, C. 2017. Pollen of colombian magnolias. *Caldasia* 31(1): 59-67.

Serna, M. & Urrego, L.E. 2016. Habitat and conservation status of molinillo (*Magnolia sambuensis*) and laurel arenillo (*Magnolia katum*), two endangered species from the lowland, Colombia. *Tropical Conservation Science*, Issue 3 (Julio – Septiembre 2016): 1-25.

Kennedy, H & Serna, M. 2016. *Calathea calderon-saenzii* (marantaceae), a new attractive patterned-leaved species, endemic to Colombia. *Journal of the Botanical Research Institute of Texas* 10(1): 85-88.

Serna, M. Conservation of Magnolias in Colombia. 2012. Proceedings of the Second International Symposium on the Family Magnoliaceae. Guangzhou, China p. 191-198.

Vangelatos, E. & Serna, M. 2012. Plan paisajístico del Tecnológico de Antioquia. 268 p. COLCIENCIAS – Tecnológico de Antioquia, Medellín. ISBN: 978-958-8628-41-7.

Serna, M., Velásquez, C. & Cogollo, A. 2011. Magnoliaceae. In: Idarraga, A., Ortiz, R., Callejas, R. & Merello, M. Flora de Antioquia: catálogo de las plantas vasculares. vol. II. Listado de las plantas vasculares del departamento de Antioquia. Programa Expedición Antioquia-2103. Series Biodiversidad y Recursos Naturales. Universidad de Antioquia, Missouri Botanical Garden y Oficina de planeación departamental de la gobernación de Antioquia, Editorial D’Vinni, Bogotá, Colombia.

Serna, M. & López, E. 2011. Diagnóstico del estado del conocimiento de silvopastoreo y pasturas en el Departamento de Antioquia. 128 p.

Serna, M., Gómez, L.C. & García, E. 2010. Propuesta de Plan de Manejo Arbóreo del Tecnológico de Antioquia. *Revista Tecnológico de Antioquia*. p. 115-123.

Molina C.F. & Serna M. 2010. Mercury: its implications on health and environment. *Retel* Vol 32 No. <http://www.sertox.com.ar/modules.php?name=Content&pa=showpage&pid=748>.

Serna, M. & Guzmán, J.D. 2010. A glance on Colombian Magnolias. *Revista Politécnica* 6 (11): 105-111.

Serna, M., Muriel, S. & Cardona, E. 2010. Botánica. Guía de Laboratorios. 86 p. Tecnológico de Antioquia – Politécnico Colombiano Jaime Isaza Cadavid. Medellín, Colombia. ISBN: 978-958-8628-27-1.

Serna, M., Velásquez, C. & Cogollo A. 2009. Novedades taxonómicas y un nuevo registro de Magnoliaceae para Colombia. *Brittonia* 61 (1): 35 - 40.

Calderón, E., Cogollo, A., Velásquez-Rúa, C., Serna-González, M. y García, N. 2007. Las magnoliáceas. En: García, N. (ed.). Libro rojo de plantas fanerógamas de Colombia. Volumen 5: las magnoliáceas, las miristicáceas y las podocarpaceas. Serie libros rojos de Especies Amenazadas de Colombia. Bogotá, Colombia. Instituto Alexander von

Humboldt – CORANTIOQUIA – Jardín Botánico Joaquín Antonio Uribe de Medellín – Instituto de Ciencias Naturales de la Universidad Nacional de Colombia – Ministerio de Ambiente, Vivienda y Desarrollo Territorial, 236 p.

Álvarez, E., Cogollo, A., Melo, O., Rojas, E., Sánchez, D., Velásquez, O., Jimenez, E., Benitez, D., Velásquez, C., Serna, M., Pérez, J., Cardona, F. y Devia, W. 2007. Monitoreo de los andes colombianos (2000-3000 msnm) a través del establecimiento de parcelas permanentes. pp. 76-89 En: Armenteras, D. y Rodríguez, N. (eds.). Monitoreo de los ecosistemas andinos 1985 – 2005: Síntesis y perspectivas. Instituto de Investigación Alexander von Humboldt. Bogotá, Colombia

Cogollo, A., Rincón, H., Serna, M., Tuberquia, D., Velásquez, C., Toro, J., Gómez, M., Peláez, J. Mazo, M. y Suárez, G. 2006. Estudio de caso: Estrategia para la conservación de Magnoliaceas en jurisdicción de CORANTIOQUIA. pp. 322-325 En: Chaves, M. y Santamaría, M. (eds.) Informe nacional sobre el avance en el conocimiento y la información de la biodiversidad 1998 – 2004. Instituto de Investigación Alexander von Humboldt. Bogotá, Colombia. Vol. 1.

Velásquez, C. y Serna, M. 2005. Magnoliáceas de Antioquia. OIMT, Jardín Botánico de Medellín y CORANTIOQUIA. Medellín, 32 p.

Jiménez, Y. A., Serna G., M., Lema, A., Álvarez, E., Rincón, H. & Cogollo, A. 2004. Índice para la determinación de especies vegetales compatibles con Líneas de Transmisión de Energía Eléctrica. Gestión y ambiente 7 (2): 55-68.

Other publications

Serna González, M. 2010. Notes on Magnolia Field Work in Colombia, South America. Journal of Magnolia Society 45 (87): 7-12.

Velásquez, C. y Serna, M. 2005. Informe sobre una beca. Actualidad forestal tropical 13 (3): 22-23.

4. Fellowships

Magnolia Society International, US, 2014. Lifetime membership in the Magnolia Society International, Inc.

Missouri Botanical Garden, US, 2010. Elizabeth E. Bascom Fellowship. Project: Magnolias of the Neotropics.

Kyoto University, Japan, 2010. Invitation to work on molecular phylogeny of Magnoliaceae with Doctor Hiroshi Azuma.

Weespelaar Arboretum, Belgium, 2009. Budget to assist to the II Symposium on the family Magnoliaceae, China.

Magnolia Society International, US, 2005. Project: Phylogenetic Analysis of *Dugandiodendron* (Magnoliaceae) and its implications on conservation priorities.

International Tropical Timber Organization, Japan, 2003. Budget to pay the tuition fee of the Master's degree.

5. Workshops, Symposia, courses, attended

Courses offered

Course of Projects Management. Offered by Ana María Benavides and Marcela Serna. In: IV Seminario Internacional de Gestión Ambiental. Tecnológico de Antioquia – Universidad Politécnica de Catalunya, Medellín, October 2011

Course in Phylogenetic Systematics skills. National University of Colombia. Taught by M. Sc. Francisco Serna and Marcela Serna. Bogotá, January 2004 (coordinator)

III Colombian Congress of Botany. Herbaria Colombian Association. Popayán, 2004 (course coordinator and participant with poster)

Events attended

XI Latin American Congress of Botany, Salvador, Brazil, 2014 (attendee with poster)

Annual Magnolia Society International Meeting. Atlanta, Georgia USA, 2014 (attendee)

The Botany Conference. Saint Louis MO, USA, 2011 (attendee with poster)

Annual Magnolia Society International Meeting. Providence, RI, USA, 2011 (speaker)

X Latin American Congress of Botany, La Serena, Chile, 2010 (speaker)

International Course of Environmental management and water sanitation. Tecnológico de Antioquia – Universidad Politécnica de Catalunya, Medellín, Colombia, 2010 (speaker)

II International Symposium of Magnoliaceae, Guangzhou, China, 2009 (speaker)

IV Colombian Congress of Botany, Colombian Herbaria Association, Medellín, June 2007 (attendee with poster)

XVII ANECB National Congress. Global Climate Change: Its implications in conservation of natural resources, Medellín, October 2003 (speaker)

Course in application of molecular markers as tools in Evolution, Ecology and Conservation National University of Colombia, taught by Dr. Jason Rauscher, Bogotá, October 2003 (attendee)

Course in vegetal architecture, theory and practice. Medellin Botanical Garden, taught by Dr. Elio Sanoja. Medellin, September, 2003 (attendee)

Course in Phylogenetic Systematic. University of Antioquia, Taught by Dr. Daniel Rafael Miranda, Medellin, April 2003 (attendee)

VIII Latin-American Congress and II Colombian Congress of Botany. RLB, Cartagena, 2002 (attendee with poster)

III International Course in management and care of biological collections, taught by Dr. John Simmons & Yaneth Muñoz-Saba, Villa de Leyva, June 2002 (attendee)