

Curriculum Summary – MARTA PIZANO

Colombian national, consultant with over 30 years-experience. Have worked with horticulture growers and exporters in Colombia plus various countries in Latin America, Africa and Asia. My main focus of work is sustainable agriculture production through the implementation of best agricultural practices; rational use of pesticides and other chemicals; waste management; pest and disease control including quarantine issues and conservation of non-renewable natural resources.

Experienced consultant for the Montreal Protocol for the Protection of the Ozone Layer and its implementing agencies (UNIDO, UNDP, UNEP, World Bank), as well as its Multilateral Fund. Co-chair of the Protocol's Technical and Environmental Assessment Panel (TEAP) and co-chair of the Methyl Bromide Technical Options Committee (MBTOC). Highly skilled in training and communications, report writing, monitoring and evaluation. Have participated in many projects implemented by UNIDO and UNDP related to phase-out of ozone-depleting substances, particularly substitution of methyl bromide. Very wide international exposure (worked in about 25 developing countries). I have also done consultancy under the Minamata Convention on mercury, and replacement and destruction of persistent organic pollutants (POP) and highly hazardous pesticides (HHP) under the Basel and Stockholm Conventions.

Consultant for government institutions and international agencies (Brazil, Mexico, Chile, Colombia, Ecuador), USAID/ DAI (Nairobi, Kenya), CBI (Netherlands), ITC (International Trade Centre) on developing and enhancing competitiveness of agricultural sectors, particularly when aimed at export. Strong expertise in intensive agriculture (horticulture and floriculture), including phytosanitary issues, certification and trade.

My scope of work has included project preparation, developing strategic frameworks and action plans, policy and regulatory framework review, institutional strengthening and awareness- raising activities, selection of alternatives, assistance with adoption and adaptation, report preparation, identification of key stakeholders and result assessment. Also communication and awareness materials, monitoring and evaluation documents for the agencies.

Able to translate complex scientific and economic concepts into policy-relevant findings, or language easily understood by the general public. Very capable of meeting tight deadlines with a record of completing projects on time and to the satisfaction of sponsors and clients. Ample networks with UN agencies, government, and business and environmental NGO colleagues who can help communicate and promote the findings and find synergy with other programs.

Proficient language skills (fully bilingual Spanish/English and working knowledge of French). Many years participating in training and awareness raising events, seminars, workshops, symposia and others, Accomplished writer, translator and presenter in English and Spanish. Up-to-date computer and software capabilities, including complex formatting of documents.

Recipient of USEPAs Ozone Protection Awards (2004, 2007), the 2007 Ozone Champion Award from UNEP/ Ozone Secretariat, and the Technical Achievement Award from UNEP in 2017 (30th anniversary of the Montreal Protocol). Recipient of the “Garofano D’Argento” award (2019) presented by the Sicilian Floriculture Association in the category “international journalism”.

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CURRICULUM VITAE - MARTA PIZANO

August 2026

PERSONAL INFORMATION ----------

- Born in Bogotá, Colombia, August 24, 1958
- Married to Diego Márquez, Orthopedic Surgeon
- Three children: Roberto (37), Lorenzo (35) and Emilia (33)

EUCATIONAL BACKGROUND ----------

- Bachelor of Science, Biology, UNIVERSIDAD DE LOS ANDES, Bogotá, Colombia 1980
- Master of Science, Plant Pathology, VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY, Blacksburg, Virginia, U.S.A. 1983
- Special Training in Plant Tissue Culture, UNIVERSITY OF CALIFORNIA, RIVERSIDE, 1985

PROFESSIONAL EXPERIENCE ----------

- **1993 – to date** INDEPENDENT CONSULTANT, Bogotá, Colombia
- **1993 - to date** Director HORTITECNIA LTDA
- **1994 - 1998** Executive Director, ECOFLOR (Association of Ecological Flower Growers), Bogotá, Colombia
- **1988 - 1993** Technical Director, Colombian Association of Flower Growers and Exporters - ASOCOLFLORES - Bogotá, Colombia
- **1986 - 1988** Technical Assistant, for same organization
- **1984 - 1986** Director, Plant Pathology and *in vitro* propagation lab, PROPAGAR PLANTAS S.A. a carnation propagator in Bogotá, Colombia
- **1980 – 1982** Science Editor, GUION Magazine, Bogotá, Colombia

Description of work

AS AN INDEPENDENT CONSULTANT

➢ FOR THE MONTREAL PROTOCOL ON SUBSTANCES THAT DAMAGE THE OZONE LAYER (1996, to date):

- Member of UNEP's **TECHNICAL AND ECONOMIC ASSESSMENT PANEL (TEAP)** since 2005. Appointed **Co-chair of TEAP** during the 22nd Meeting of the Parties (November 2010), reappointed at the 26th MOP (November 2014), the 30th MOP, and the 34th MOP for additional periods of 4 years. TEAP provides technical advice to the Parties of the Montreal Protocol. Some duties and tasks are,

  - ➢ Coordination and drafting of the TEAP Assessment Report, a quadrennial publication compiling and synthesizing findings from the five Technical Options Committees (TOCs) composing the TEAP. The 2026 edition is currently under preparation. For reference, the 2022 edition can be found at http://ozone.unep.org/en/assessment-panels/technology-and-economic-assessment-panel.
  - ➢ Co-author of interim and progress TEAP reports (two per year on average)
  - ➢ Member of the MLF Replenishment Task Force (2009, 2017, 2023, 2026) to assist the Multilateral Fund of the Montreal Protocol in estimating the costs of meeting the Protocol's commitments over the ensuing triennium.

- Member of UNEP's **METHLY BROMIDE TECHNICAL OPTIONS COMMITTEE (MBTOC)** since August 1998 and **co-chair** since 2005 (last reappointed by the Parties of the Protocol for the period 2026-2030). Methyl bromide is a soil fumigant, which was classified as an Ozone Depleting Substance (ODS) and has been phased-out under the Montreal Protocol except for quarantine and pre-shipment uses (QPS) . Authorization for controlled uses was obtainable - until 2024 when the last application was received - through a "Critical use Exemption" granted by the Parties to the Protocol, after careful evaluation and recommendation from the MBTOC. Activities in this role included:

  - Reviewing critical-use nominations (CUN) for methyl bromide under the criteria set forth in decision IX/6 and of other relevant criteria agreed by the Parties to the Montreal Protocol. Drafting reports on CUNs twice a year, which can be found on the Ozone Secretariat website http://ozone.unep.org/en/assessment-panels/technology-and-economic-assessment-panel
  - Preparing reports and presentations that need to be submitted during the Open-ended Working Groups and Meetings of the Parties to the Montreal Protocol. These include annual Progress Reports, interim and final CUE reports and additional reports in response to decisions taken by the parties to the Montreal protocol.
  - Preparing a comprehensive **Assessment Report** on alternatives to Methyl Bromide and factors influencing their adoption and sustainability (including for article 5 parties) every four years. The last one published is the MBTOC 2022 Assessment Report https://ozone.unep.org/system/files/documents/MBTOC-Assessment-2022.pdf The 2026 Assessment Report is currently in preparation.
  - Co-chair of the **Quarantine and Pre-shipment (QPS) Task Force and subcommittee (2009 - 2011)** constituted by TEAP to respond to tasks assigned by the Parties of the Montreal Protocol to evaluate QPS uses of methyl bromide and their possible alternatives, together with impacts on phytosanitary issues and international agricultural trade.

CONSULTANT FOR THE IMPLEMENTING AGENCIES OF THE MONTREAL PROTOCOL

- Consultancy for the agencies has been carried out within the framework of the **"Montreal Protocol for the Protection of the Ozone Layer"** of the United Nations, particularly in relation with the substitution of Methyl Bromide and the adoption of its alternatives. In essence, this work has comprised the preparation, evaluation and follow- up of projects implemented in developing countries (under Article 5 of the Protocol); selection and evaluation of the most suited alternatives to methyl bromide; training of growers and other key stakeholders on alternatives to this fumigant within the context of Integrated Pest Management, which is aimed at sustainable production, rational use of agrichemicals and preservation of non- renewable natural resources. All of these are aimed at ensuring the sustainability of the phase-out achieved. Sectors previously depending on methyl bromide generally comprise intensive agriculture and most importantly exporters, needing to comply with international sustainability and environmental standards often framed within eco-labels or certification schemes (i.e. GLOBALGAP, MPS, FAITRADE and others). Most of this work has been conducted for UNIDO, and to a lesser extent for UNEP, UNDP and the World Bank.

- Also conducted work on **QPS uses of methyl bromide**, the technical and economic feasibility of potential alternatives to such uses and what the impact of a possible restriction of MB used for QPS under the Montreal Protocol. This work was conducted in 2011 for the WORLD BANK focusing on trade, sustainability and food security issues in two key Asian countries, Thailand and Vietnam.

- In 2014, and analysis on MB consumption for QPS purposes in Indonesia, Thailand and Vietnam was conducted for UNIDO, with a view of identifying the impacts that the introduction of alternatives to MB could have on international trade in these three countries, with an emphasis on cocoa, coffee and rice.

- Consultancy has also involved activities such as participation in workshops and seminars, organization of study tours for key stakeholders and preparation of manuals and other instructional materials, particularly for UNEP`s **OzonAction Programme** for example:

  - Preparation of a special factsheet on the **10th anniversary of the Kigali Amendment** (currently in progress).

  - Assistance for updating the **OzonAction Communication Strategy**

  - Preparation of the booklets "**Montreal Protocol and Sustainable Development Goals**" and "**Gender mainstreaming in Latin America and the Caribbean**" https://www.unep.org/ozonaction/resources/publication/gender-mainstreaming-montreal-protocol-experiences-latin-america-and

  - Preparation of the booklet "**The Kigali Amendment – Keeping cool without warming the planet. A toolkit for National Ozone Units**

  - Preparation of the booklet "**Minimizing QPS uses of methyl bromide** – tools for controlling, monitoring and reporting. OzonAction, UNEP Paris (2016) http://www.unep.org/ozonaction/Portals/105/documents/7792-e-Minimisingquarantineandpre-shipment(QPS)usesofmethylbromide.pdf

  - Preparation of factsheets on **QPS uses of methyl bromide and their alternatives**, and tracking QPS uses of MB. OzonAction http://www.unep.org/ozonaction/Portals/105/documents/7767-e-FactsheetTrackingMBconsumptionofQPS.pdf

  - Preparation of a toolkit for **sustainable compliance with the methyl bromide phase-out,** including information for all stakeholders, in cooperation with UNIDO (2015) https://www.unido.org/sites/default/files/2015-11/UNIDO_TOOLKIT_for_sustainable_MB_phase-out_FIN__2__0.pdf

  - Preparation of the booklet, "**The methyl bromide phase-out: A success story and its challenges"** for UNEP, OzonAction Paris (2014, available in English, Spanish and French). http://www.unep.fr/ozonaction/information/mmcfiles/7674-e-Phasing_out_methyl_bromide_in_developing_countries.pdf

  - Preparation of the manual **"Floriculture and the Environment – Growing Flowers without Methyl Bromide"** for UNEP, OzonAction which was published in 2002 in French, Spanish and English. Accessible at http://www.unep.fr/ozonaction/information/mmcfiles/3546-e.pdf

- Invited expert to the working group on **" Phytosanitary measures for the treatment of goods in international trade – Selection of potential cases of demonstration projects on alternatives to methyl bromide"** organized by UNIDO in May, 2013

- Organization of the **"Workshop on Methyl Bromide Uses for QPS purposes"** held in the margins of the 21st MOP in Port Ghalib, Egypt (November, 2009)

- **Monitoring and evaluation** of projects and activities funded through the Multilateral Fund of the Montreal Protocol (MLF), see below.

- **Analysis on linkages between ozone layer protection (via methyl bromide phase-out) and sustainable (climate-smart) agriculture** for the World Bank (2013-2014). Presently a member of the World Bank's OORG (Ozone Operations resource Group), as methyl bromide expert.

The implementing agencies for the Montreal Protocol are UNDP, UNIDO, UNEP and the World Bank. Countries where consultancy has been provided include Colombia, Honduras, El Salvador, Nicaragua, the Dominican Republic, Panama, Ecuador, Kenya, Ethiopia, Argentina, Brazil, Chile, Mexico, Turkey, Uruguay, Paraguay, Zimbabwe, Uganda, Costa Rica, Peru, Morocco, China, Malawi, Mozambique, Vietnam and Thailand.

- **CONSULTANT FOR THE MULTILATERAL FUND FOR THE IMPLEMENTATION OF THE MONTREAL PROTOCOL (MLF) – MONITORING AND EVALUATION**

  Consultancy for the Monitoring and Evaluation program of the MLF on different aspects related to methyl bromide phase-out in developing countries, for example countries in non-compliance or at risk of non-compliance; low volume consuming countries (LVC); and evaluation of methyl bromide alternative projects funded by the MLF. This work involved assessing progress made through projects and the sustainability of the phase-out achieved (technical, institutional, economic, regulatory) as well as identifying constraints to adoption of alternatives;.

  In 2012, a desk study and an ensuing field study on the **"Evaluation of Methyl Bromide Projects Implemented in Africa"** were undertaken by the MLF with the aim of assessing progress made in phasing out MB and the sustainability of the phase-out achieved in the face of the final phase-out deadline for Article 5 countries of 1st January 2015. Reports resulting from these evaluations are also referenced at the end of this document.

  More recently, a **"Desk study for the evaluation of the sustainability of the Montreal Protocol achievements"** (2019) and a "Desk study of the evaluation of regional networks of National Ozone Officers" (2020, 2023).

The related work is referenced at the end of this document, under MLF (Multilateral Fund).

➢ CONSULTANT FOR UN AGENCIES ON OTHER ENVIRONMENTAL MATTERS

- **Consultant for UNDP (2020) –** On the **Financing Agrichemicals Removal and Management (FARM)** initiative for the elimination and replacement of HHP (highly hazardous pesticides), specifically targeting Costa Rica, Ecuador and Laos, in conjunction with FAO and seeking support from the Global Environment Fund (GEF).

- **Consultant for International Trade Centre (2019)** ITC is a multilateral agency under joint mandate with the World Trade Organization and the United Nations Conference on Trade and Development). Work was conducted as part of an effort to develop ***Lesotho's National Trade Strategy*** by the Research and Strategies for Export (RSE) Section of the ITC, which included four focus areas previously identified as a promising, one of which is horticulture.

- **Consultant for UNIDO** on the Minamata Convention for the replacement of mercury in Guatemala and Colombia (2018)

- Consultant for the **BASEL CONVENTION (2011- 2012)** for the desk study of the project **"Feasibility assessment and preparation of the destruction banks of Ozone Depleting Substances (ODS) and Persistent Organic Pollutants (POPs) in Central America".** Member of the International Advisory Body of the project. This initiative was led by the Basel Convention Regional Center for Central America and Mexico (BCRC-CAM) based in El Salvador, at the headquarters of the Central American Commission on Environment and Development (CCAD).

➢ ASSISTANCE TO GOVERNMENT AGENCIES AND TRADE ASSOCIATIONS/ AGENCIES

- Consultant for **AIPH (International Association for Horticultural Producers), 2024,** preparing a profile of Thailand floriculture, including business opportunities for expansion and international trade.

Work included a market analysis of current and potential ornamental products, production trends, requirements for sustainable production, domestic trade, current and potential international trade, strengths and challenges. This work was funded by the Canadian Nursery Landscape Association (CNLA).

- **Consultant for International Trade Centre (2019, 2022)** ITC is a multilateral agency under joint mandate with the World Trade Organization and the United Nations Conference on Trade and Development). Work was conducted as part of an effort to develop ***Lesotho's National Trade Strategy*** by the Research and Strategies for Export (RSE) Section of the ITC, which included four focus areas previously identified as a promising, one of which is horticulture. Further consultancy for this same organization (ITC) in 2022 preparing ***Vietnam´s agribusiness sector strategy 2022-2027".***

- Consultant for **DAI/USAID EATIH (East Africa Trade and Investment Hub/ USAID), 2017- 2018** under the framework of the Kenya National AGOA Strategy and Action Plan, aimed at maximizing benefits and providing market access to countries comprised within AGOA. Consultancy specifically addressed the cut flower sector and was part of the technical assistance provided by EATIH/ USAID to the Kenya Flower Council (KFC) and its members, aimed at gaining market intelligence on the US cut flower market to support Kenya's intended expansion of its cut flower trade into North America. In synthesis, this work entailed conducting an end market analysis, gathering and analyzing information from the North American Flower Market including phytosanitary and quality requirements, and assisting the industry in making informed decisions to determine the potential for further growth and expansion and the technical areas needing strengthening. A mission to Kenya including workshops and visits to flower exporters and various other key stakeholders was undertaken.

- Consultant for **CBI – Centre for the Promotion of Imports from Developing Countries (2014- 2015).** As part of the Netherlands Enterprise Agency, funded by the Netherlands Ministry of Foreign Affairs CBI provides support to exporters from 47 developing countries in about 25 productive sectors. The agency developed a comprehensive program in Ecuador in conjunction with EXPORTAPAIS, an initiative launched by the Ecuadorian Government to promote and expand exports in seven different productive sectors including floriculture. This consultancy entailed providing support to flower exporters specifically interested in strengthening their participation in the North American market (particularly the United States but also Canada). This included information on the world flower market, identifying market opportunities for expanding access, analyzing consumer preferences, studying export requirements including phytosanitary issues and other topics. Export audits and export coaching sessions, including tools for promotion and tradeshow participation were also conducted.

- Consultant for the **INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE (ITRI) OF TAIWAN (2012)** Taiwan is keen on following the deadlines and timing assigned to developed countries of the Montreal Protocol and has phased-out all controlled uses of methyl bromide. Authorities are assessing the feasibility of reducing methyl bromide uses for Quarantine and Pre-shipment (QPS), which are presently not controlled by the Protocol, by adopting proven and available alternatives. Consultancy was provided on these issues to ITRI in 2012.

- Consultant for the Brazilian Government (**SEAGRI/ AGROPOLOS INSTITUTE**, State of Ceará and **IBRAFLOR/ FLORA BRASILIS program**, Holambra, State of Sao Paulo) for the identification and assessment of opportunities for Brazilian Flower Exports to the United States, Europe (particularly Italy, France, Portugal) and Japan, 2004 - 2008.

- Consultant for the **MEXICAN FLOWER COUNCIL** as instructor on pest and disease management in chrysanthemums and carnations, flower quality, sustainable floriculture, flower eco-labels, the international flower market and other topics, for Mexican flower growers, 1999 – 2007.

- Consultant for **CORPORACION COLOMBIA INTERNACIONAL**, an organization created by the Colombian government for the promotion and development of non-traditional agricultural commodities (1996). This consultancy involved a feasibility study for developing floriculture and production of

aromatic herbs as alternatives to wheat production in the southern region of Colombia (along the Ecuadorian border) and a study on the potential of asparagus production for export in the same location.

- Coordination and setup of the **ECOFLOR** program **(COLOMBIA, 1994 – 1997)**, a private initiative of a group of flower growers sharing a strong commitment for producing flowers under environment friendly practices and adequate worker protection standards. ECOFLOR members implemented a strict Code of Conduct in relation to all production practices and worker welfare issues (including prevention and mitigation of health hazards). The group created awareness among other flower growers and in 1996 became FLORVERDE®, the environmental program of ASOCOLFLORES of which 85% of the Colombian flower growers are members. The work with ECOFLOR involved discussions and meetings with growers and company managers to help establish needs and priorities; farm visits to evaluate processes and helps resolve problems; creating a communication scheme with participants at different levels; and establishing initial performance indicators and indexes that could be used to evaluate and qualify compliance with the Code of Conduct.

OTHER WORK AND ACTIVITIES ----------

- **Member, Board of Directors, PROPAGAR PLANTAS SAS (2021-2024),** a carnation breeder and propagator located near Bogotá, with nearly 40 years- experience in plant breeding and cut flower production.

- Editor of the book ***"Blooming Colombia – Fifty years of Colombian floriculture"*** (2023) published by Propagar Plantas.

- Facilitator for **UNFCCC meeting .** Upon the invitation of the United Nations Framework Convention on Climate Change (UNFCCC) Secretariat, acted as facilitator for the Technical Expert Meeting on Non-CO2 greenhouse gases, working group session on F-gases held on Wednesday, 22 October 2014. This one day session took place during the Climate Change Conference (Ad Hoc Working Group on the Durban Platform for Enhanced Action (ADP), 20-25 October 2014 Bonn, Germany.

- Speaker at numerous meetings and workshops related to methyl bromide alternatives, QPS uses of methyl bromide, integrated pest management, sustainable production, floriculture (various topics) and others in Colombia, Mexico, Brazil, Spain, Morocco, Portugal, Malawi, Costa Rica, Canada, Chile, United States, Hungary and others since 1994, to date. This includes meetings of Regional Ozone Networks, to provide information on methyl bromide uses, alternatives and other issues, including QPS.

- Keynote invited speaker at the 31st International Horticultural Congress to be held in Angiers, France, August 2022 www.ihc2022.org .

- Keynote invited speaker at the VII Symposium on Soil Disinfestation, ISHS (Leuven, Belgium, 2009).

- Co-author of the chapter "Technology transfer to phase-out ODS in pest control" in the book *Technology Change and Transfer - Theories and Practice* (2007) by Stephen O. Andersen and Madhava Sarma (Eds) Earthscan, London.

- Regular contributing author for several magazines and websites in the floriculture sector since 1993, FLORACULTURE INTERNATIONAL, FLOWER TECH, FRUIT AND VEGETABLE TECH, HORTIBIZ.

- Keynote invited speaker at the V Symposium on New Floricultural Crops (Foz do Iguazu, Brazil, 2003) organized under the auspices of the International Society for Horticultural Science (ISHS).

- Coordination and setup of the **ECOFLOR** program (1993-1996), a private initiative of a group of flower growers sharing a strong commitment for producing flowers under environment friendly practices and adequate worker protection standards. ECOFLOR members implemented a strict Code of Conduct in relation to all production practices and worker welfare issues (including prevention and mitigation of

health hazards). The group created awareness among other flower growers and in 1996 became FLORVERDE®, the environmental program of ASOCOLFLORES of which 85% of the Colombian flower growers are members. The work with ECOFLOR involved discussions and meetings with growers and company managers to help establish needs and priorities; farm visits to evaluate processes and helps resolve problems; creating a communication scheme with participants at different levels; and establishing initial performance indicators and indexes that could be used to evaluate and qualify compliance with the Code of Conduct.

➢ WORK CONDUCTED WHILE IN EMPLOYMENT (1980 – 1993) ----------

FOR ASOCOLFLORES (1986 – 1993):

- Organization of a Technical Committee which, through the participation of growers contributed in establishing the sector's research priorities and technological and information needs. The Technical Committee of ASOCOLFLORES still operates and is the body assisting the Technical Manager and the Board of Directors of the Association on many issues.

- Organization of a large number of courses, seminars, workshops and symposia, local and international on topics related to floriculture, among them the First Latin American Symposium of Flowers and Ornamental Plants (Bogotá, Colombia, June 1989) and the Fourth International Symposium on Carnation, held also in Bogotá in September of 1991 under the auspices of the International Society for Horticultural Science, ISHS.

- Contact with researchers and experts in many countries, particularly France, Italy, Israel and the United States, which were brought to Colombia as consultants, lecturers and to provide research support for the floriculture sector.

- Organization and direction of the National Prevention and Eradication Campaign for Chrysanthemum White Rust (*Puccinia horiana*), a zero-tolerance quarantine disease for the USA, in close cooperation with APHIS and ICA (the Colombian Institute of Agriculture), which until now has guaranteed rust-free flowers to the United States and an open border for export of these flowers from Colombia to that country.

- Representation of the Colombian flower industry before domestic and foreign bodies such as the Colombian Institute of Agriculture (ICA), the Colombian Institute for the Management of Natural Resources (CAR), the Animal and Plant Health Inspection Service in the United States (APHIS) and the Society of American Florists (SAF).

- Setting up and direction of the Library at the Association, the only reference center specializing in floriculture in Colombia.

- Evaluation and supervision of research projects funded by the Association, mainly related to pest and disease management in cut flowers and environmental issues related to flower production.

- Setting up of a Plant Clinic for the diagnosis of pests and diseases in flowers and other horticultural products. The clinic provided assistance to growers aimed at improving flower quality through adequate pest and disease management and post-harvest handling.

- Coordination of the study "The Environmental Impact of Commercial Flower Production in Colombia". The study identified critical areas needing implementation of Good Agricultural Practices (GAP) such as water and soil management, pesticide and fertilizer usage, waste classification and disposal and worker protection standards. This work served as the platform on which sustainable production programs and eco-labels for the Colombian flower industry were later based.

- Analysis and follow up of information and developments leading to the recognition by law of Plant Breeder's Rights in Colombia.

FOR PROPAGAR PLANTAS (1984 – 1986):

- Setting up of tissue culture facility and disease diagnosis lab. Coordinating and leading a team of four in charge of the organizations' plant health program. PROPAGAR PLANTAS is a licensed propagator of carnation varieties, selling rooted and un-rooted cuttings to carnation growers in Colombia and other Latin American countries.
- Currently member of the Board of Directors of this company.

FOR REVISTA GUION (1980 – 1982) (GENERAL INTEREST MAGAZINE)

- Editor, science section. Revista Guión, was a general interest weekly magazine in Colombia that included a science section. Publication of this magazine ceased in the late 1990's.

➢ AWARDS AND DISTINCTIONS ----------

- **"Garofano D'Argento"** award 2019 version in the category "International Journalism", presented by the Floriculture Association of Sicily (Catania), Italy. https://aiph.org/floraculture/news/fcis-contributing-writer-marta-pizano-wins-silver-carnation-award-2019/

- **"Technical Leadership Award"** presented by UNEP to the Technical and Economic Assessment Panel (of which I am a co-chair) on occasion of the 30th anniversary of the Montreal Protocol, November 2017 http://conf.montreal-protocol.org/meeting/mop/cop11-mop29/awards/Shared%20Documents/Ozone%20Awards%20recipients.pdf

- Recipient of a special award presented by UNEP in recognition for contributions as a co-chair of the Methyl Bromide Technical Options Committee (MBTOC), of the Technical and Economic Assessment Panel (TEAP) and as co-chair of the "Decision XXIII/10 Task Force), November 2012

- Recipient in the category "Individuals" of the 2007 Best-of the-Best Stratospheric Ozone Protection Award presented by the US Environmental Protection Agency in September 2007 http://www.epa.gov/ozone/awards/bestofthebest/index.html

- Recipient of the **TEAP Champion Award** presented by UNEP (the Ozone Secretariat) on ocassion of the 20th anniversary of the Montreal Protocol in September, 2007

- Inclusion in the website **Montreal Protocol Who's Who** launched by UNEP in 2008 http://www.unep.fr/ozonaction/montrealprotocolwhoswho

- Recipient in the category "Individuals" of the 2004 Stratospheric Ozone Protection Award granted by the US Environmental Protection Agency. www.epa.gov/Ozone/awards

➢ SOCIETY MEMBERSHIPS ----------

Member of the American Phytopathological Society (**APS**) and the International Society for Horticultural Science (**ISHS**) since 1986.

➢ LANGUAGES ----------

Spanish: Mother tongue.

Completely fluent in written and spoken **English**.
Good command of **French** (working ability)
Basic understanding of **Portuguese**

PUBLICATIONS ----------

Besri, M., M. Pizano and I. Porter (2012). Soil solarization and the methyl bromide phase out. In: Gamliel, A. and J. Katan (Eds). *Soil solarization – theory and practice.* APS – American Phytopathological Society.

Castellá-Lorenzo, G., R. Savigliano and M. Pizano (2014). Breaking the bondage to methyl bromide in Agriculture – the UNIDO experience. *Acta Horticulturae* 1044:281-287

Lacy, G.H., R. C. Lambe and M. Pizano (1982). Bacterial Canker of Poinsettia. *Virginia Cooperative Extension Service, VPI & SU Plant Newsl*etter 9:7.

La Rota, R., Pizano, M., and López C. 2023. Fifty years of Colombian floriculture 1973 – 2023. 243 pp Propagar Plantas, Bogotá, Colombia.

Miller, M., M. Pizano and D. Okioga (2009). Going, going, almost gone: Methyl bromide phase-out in Africa. OzonAction special issue 2009. UNEP, Paris 36 pp

Miller, M. and M. Pizano (2007). Technology transfer to phase-out ODS in pest control. En: *Technology Change and Transfer – Lessons for Climate Change.* Por Andersen, S.O. and M. Sarma (Eds).Earthscan, London

MLF (2019). Desk study for the evaluation of the sustainability of the Montreal Protocol achievements" Multilateral Fund for the Montreal Protocol, document No. UNEP/OzL.Pro/ExCom/84/12

MLF (2020). "Desk study of the evaluation of regional networks of National Ozone Officers" (2020). Multilateral Fund for the Ozone Secretariat, July 2020. Document No. UNEP/OzL.Pro/ExCom/86/11

MLF (2012). Evaluation of Methyl Bromide projects in Africa – Desk study. UNEP/OzL.Pro/ExCom/66/15. March, 2012. http://www.multilateralfund.org/66/English/1/6615.pdf

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MLF. (2004b) Case Studies of the Desk Evaluation of Methyl Bromide Projects; June 2004. Multilateral Fund for the Implementation of the Montreal Protocol

MLF. (2004c). Field Study on the Evaluation of Methyl Bromide Projects. Case Study: Ecuadorian Flower Sector: a. Phase-out Project, b. Technical Assistance Project. Monitoring and Evaluation report. Multilateral Fund for the Implementation of the Montreal Protocol.

MLF. (2005a). Status/ Prospects of Article 5 countries in achieving compliance with the control measures of the Montreal Protocol. Montreal, 21 – 25 November 2005. Multilateral Fund for the Implementation of the Montreal Protocol

MLF. (2005b). Final Report on the evaluation of Methyl Bromide Projects. Montreal, 4-8 July 2005. Synthesis evaluation report (document UNEP/OzI.Pro/ExCom/46/7)

MLF. (2005c) Evaluation of Methyl Bromide phase-out projects. Sub-sector reports and case studies. June, 2005. Reuben Ausher, Alejandro Valeiro, Marta Pizano, Jeurgen Boeye and Otto Mueck, Consultants

MLF. (2006). Final evaluation report on case studies on non-compliance (Follow-up to decision 46/6). Multilateral Fund for the Implementation of the Montreal Protocol. http://www.multilateralfund.org/sites/46/Document%20Library2/1/4607.pdf

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