

Project Update: February 2024

First planting of approximately 800 *Morella pubescens* seedlings in the Tambillo Community Protected Area



Image 1. *Morella pubescens* seedlings produced at the University of Cuenca nursery. © Mateo León.



Image 2: Members of the Cooperativa de Desarrollo de la Comunidad Jima Ltda. planted *Morella pubescens* seedlings. © Mateo León.



Image 3. Members of the Cooperativa de Desarrollo de la Comunidad Jima Ltda. planted *Morella pubescens* seedlings. © Mateo León.



Image 4. Members of the Cooperativa de Desarrollo de la Comunidad Jima Ltda. planted *Morella pubescens* seedlings. © Mateo León.



Image 5. Members of the Cooperativa de Desarrollo de la Comunidad Jima Ltda. planted *Morella pubescens* seedlings. © Mateo León.



Image 6. *Morella pubescens* seedlings that will be monitored by a student of the University of Cuenca during the development of his undergraduate thesis. © Mateo León.

## Academic - scientific production

Between the years 2021 - 2023 different research was developed thanks to the First Small Grant given by the Rufford Foundation (Application ID 35230-1). These are detailed below:

**Undergraduate thesis 1.-** Title: Germination and *in vitro* establishment of *Morella* sp. (Myricaceae), a multipurpose tree species of the Tambillo Community Protected Area. Students: Laleska Cevallos and Jailene Loor. Director: Ph.D. Liliana Corozo, Co-director: Ph.D. (c) Miryan Pinoargote. Institution: Universidad Técnica de Manabí. Status: approved.

Link: <http://repositorio.utm.edu.ec/handle/123456789/3194>

**Undergraduate thesis 2.-** Title: Comparison between local knowledge and evaluated functional traits of participatory selected native woody species in the Tambillo Protected Forest. Students: Paola González and Keyla Serpa. Director: Ph.D. Juan Pablo Iñamagua. Institution: Universidad de Cuenca. Status: approved.

Link: <http://dspace.ucuenca.edu.ec/handle/123456789/42566>

**Undergraduate thesis 3.-** Title: Production of selected native plants for the reforestation of degraded areas in the Tambillo Community Protected Area. Students: Patricio Llangari and Cesar Perez. Director: Ph.D. Juan Pablo Iñamagua. Institution: Universidad de Cuenca. Status: approved.

Link: <http://dspace.ucuenca.edu.ec/handle/123456789/42553>

**Undergraduate thesis 4.-** Title: Evaluation of artificial perches as a method of seed dispersal in areas degraded by forest fires in the Tambillo Community Protected Area. Students: Jonathan Duque and Diego Mejía. Director: Ph.D. Juan Pablo Iñamagua. Institution: Universidad de Cuenca. Status: approved.

Link: <http://dspace.ucuenca.edu.ec/handle/123456789/43677>

**Undergraduate thesis 5.-** Title: Evaluation of the relationship between auxin - gibberellins bioregulators in the *in vitro* development of *Caesalpinia spinosa* seedlings from seeds at two stages. Students: Santiago Rojas and José Solórzano. Director: Mg. Myriam Mancheno. Institution: Universidad Politécnica Salesiana, Cuenca. Status: approved.

Link: <https://dspace.ups.edu.ec/handle/123456789/24509>

**Undergraduate thesis 6.-** Title: Optimization of the bioregulator 6-Benzylaminopurine in the *in vitro* induction of *Caesalpinia spinosa* shoots. Students: Tatiana Muñoz and Fernanda Álvarez. Director: Mg. Myriam Mancheno. Institution: Universidad Politécnica Salesiana, Cuenca. Status: approved.

Link: <https://dspace.ups.edu.ec/handle/123456789/24515>

**Master's thesis 7.-** Title: *In vitro* multiplication of *Morella* sp. (Myricaceae), a tree species of the Tambillo Community Protected Area. Student: Kevin Murillo. Director: Ph.D. Liliana Corozo, Co-director: M.Sc. Mateo León. Institution: Universidad Técnica de Manabí. Status: pre-substantiation approved, pending final submission.

**Scientific paper.-** Title: A protocol for *in vitro* propagation of *Morella pubescens*: a protected species in the Tambillo community protected area—Ecuador. Status: published

Link 1: <https://link.springer.com/article/10.1007/s11240-023-02643-y>

Link 2:

[https://www.researchgate.net/publication/376484058\\_A\\_protocol\\_for\\_in\\_vitro\\_propagation\\_of\\_Morella\\_pubescens\\_a\\_protected\\_species\\_in\\_the\\_Tambillo\\_community\\_protected\\_area-Ecuador](https://www.researchgate.net/publication/376484058_A_protocol_for_in_vitro_propagation_of_Morella_pubescens_a_protected_species_in_the_Tambillo_community_protected_area-Ecuador)

**Research project.-** Title: Establishment of a protocol for micropropagation of *Caesalpinia* sp. with the purpose of using it for a future ecosystem restoration and conservation plan.

Link:

[https://drive.google.com/file/d/1EmoxY4WSSOLlc9XtKsFL4TonV5EQnXh6/view?usp=drive\\_link](https://drive.google.com/file/d/1EmoxY4WSSOLlc9XtKsFL4TonV5EQnXh6/view?usp=drive_link)