

# CPMA

Coleção de plantas  
**medicinais e  
aromáticas**

*Medicinal and aromatic plant collection*

Curator **Glyn Mara Figueira**



UNICAMP

Adress:

Av. Alexandre Cazellato, 999

Vila Betel Paulínia SP cep 13148-218

Fone: +55 (19) 2139-2892 Fax +55 (19) 2139-2852

[www.cpqba.unicamp.br/cpma](http://www.cpqba.unicamp.br/cpma)

Photos: Carlos Alexandre Bacchi - FEC UNICAMP  
Designer: Luciane Gardesani RTV UNICAMP



## Mission

The mission of CPMA - Collection of Medicinal and Aromatic Plants is collection, identification, preservation and exchange of biological species with potential application in the pharmaceutical, nutraceutical and cosmetics industries. CPMA has a strong involvement in scientific research and technology development, using techniques and processes that certify the quality of the biological material are in accordance with the Brazilian laws, regulations and policies.

## About the Collection

CPMA was established in 1989, at CPQBA - **Chemical, Biological and Agricultural Pluridisciplinary Research Center**, at UNICAMP - Campinas State University, in the city of Paulinia, State of Sao Paulo, Brazil. The first species were donated by the University of Brasilia and CENARGEN – Genetic Resources and Biotechnology Research Center of EMBRAPA – Brazilian National Agricultural Research Company. Since then, the Collection has received donations from various research institutions, private farmers and kept samplings from several research projects

The Collection has approximately 3.000 specimens (650 species and 78 botanical families) of wild and domesticated medicinal and aromatic plants from different regions of Brazil and the world. CPMA is one of the main bases for scientific research and technology development by CPQBA-UNICAMP and Brazilian and International partner institutions. The species arrive at the Collection, in most cases, with information on their biological characteristics and folk uses, what supports research and development, processes of domestication and scientific evaluation. All information is available in a database online documentation with photos; the data are available in Splink and IABIN network.

CPMA is approved since 2005 as a Trusted Biorepository by the Brazilian Federal Environment Ministry and became an associate member of the GGBN - Global Genomic Biodiversity Network in 2014.

## Scientific Work

Species conserved *ex situ in vivo* are gathered in appropriated cultivation beds with adequate characteristics to the habit and the growing cycle; CPMA also holds a collection of tree species and native fruit orchard. In the case of some species or genera studied, genebanks were established through field expeditions for collection of individuals of the same species or genus from different places of natural occurrence, with the goal of preserving and evaluate genetic diversity. These are called active germoplasm bank (BAG). The Collection also holds an *in vitro* conservation seed bank, DNA database and herbarium.

Regarding observation the physiological stage of the species, dried specimens are prepared and duplicates are deposited in the UNICAMP herbarium. Seed germination is evaluated periodically, aiming its maintenance, while leaf samples are analyzed for DNA extraction and quantification.

## Research Team

The research team is comprised of its curator, Glyn Mara Figueira (agronomist), Ilio Montanari Jr. and Pedro M. de Magalhães (agronomists) Marcos N. Alves and Benício Pereira (biologists), student collaborators and field technicians.