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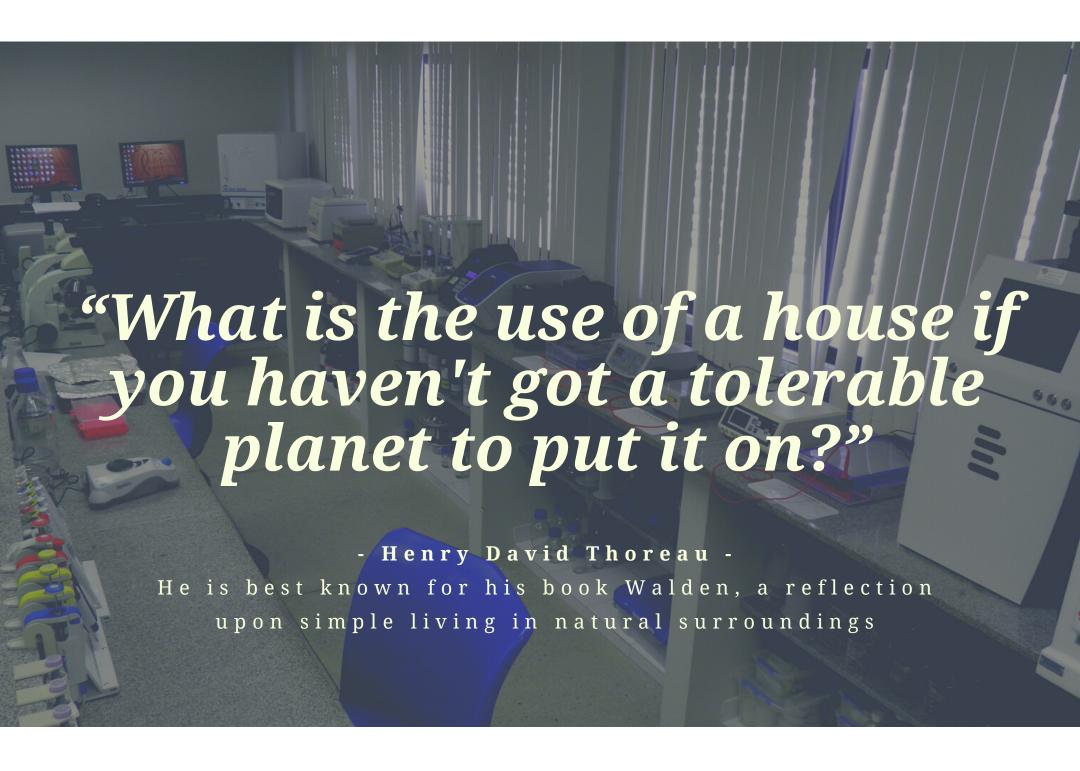
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Who we are and goals

WRITTEN BY FÁBIO VIEIRA

The Genetics and Forest Improvement Lab (LabGeM), coordinated by Prof. Fábio Vieira, was inaugurated on November 26 2012, at Federal University of Rio Grande do Norte (UFRN), campus Macaíba, RN State, Brazil. We carry out population genetic studies with forest species of economic and ecological importance — the research is aimed at the genetic conservation and improvement of the species. The LabGeM welcomes high school, undergraduate and postgraduate students, as well as researchers from various institutions.

Our mission is to generate scientific and technological information about conservation and genetic improvement of forest tree species for the state of Rio Grande do Norte and Northeast Brazil. In this mission, we seek to assist in the formation of new scientists, who could be multipliers of the acquired knowledge and contribute effectively to the preservation, sustainable use and restoration of the forest biomes, especially the Caatinga semiarid.



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Laboratory cleanup

The Laboratory of Genetics and Forest Improvement performs its activities to minimize possible impacts on the environment.

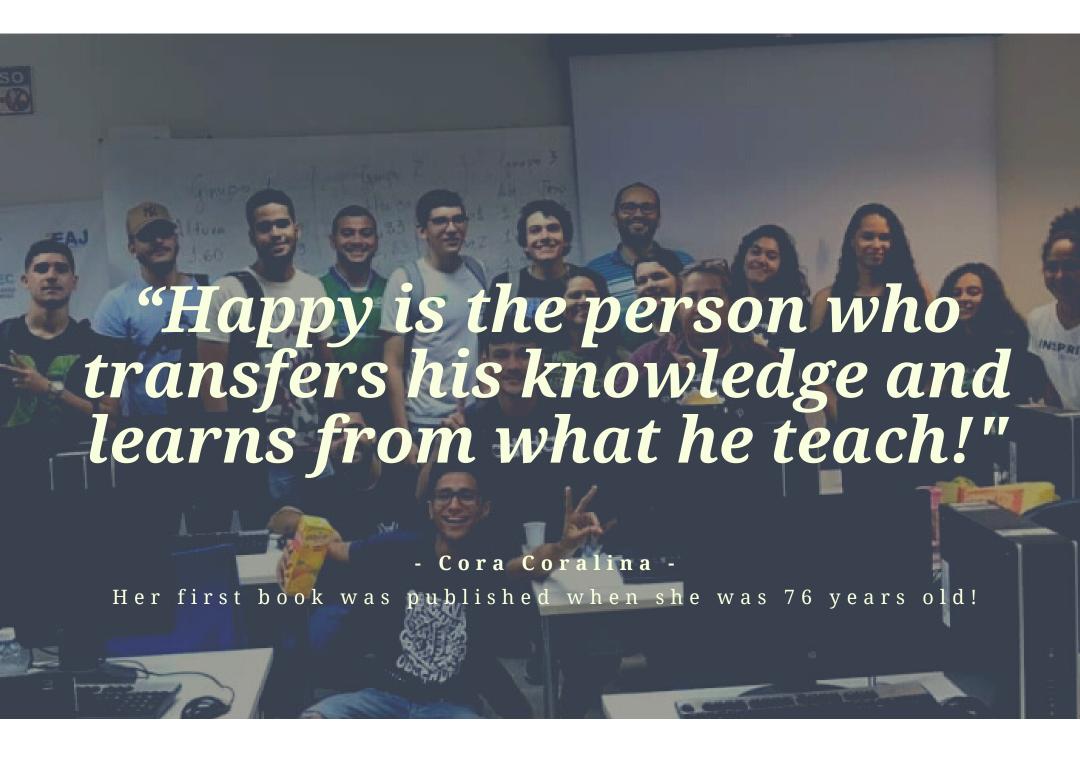
Thus, measures related to environmental management are adopted, such as control of the consumption of natural resources (water and energy) and proper storage of chemical residues produced.

We store chemical residues in LabGeM following technical guidelines and management procedures.

We consider recommendations for the disposal of chemical residues available in texts, which deal with procedures appropriate to the area of molecular genetics. When there is demand, the waste is collected by the Programa de Gestão Integrada de Resíduos da UFRN and sent to its final destination.

Professors, technicians and students work in an integrated manner to properly dispose of waste generated. Some essential criteria are used such as to separate garbage into suitable containers; to store the collection bottles in an adequated room, not discarding the waste down the sink, sewer or empty places. We indicated always to use personal protective gear.

LabGeM adopts the objective liability rule, that is, each one is responsible for the waste generated. In addition, we practice the 3 R policy: Reduce + Reuse + Recycle.



Lab Alumni

MSc students:

Kyvia Pontes T. das Chagas - CAPES Scholarship
Francival Cardoso Felix- CAPES Scholarship
Jéssica R. M. dos Santos - CAPES Scholarship
Richeliel Albert R. Silva - FAPERN Scholarship
Luciana Gomes Pinheiro - Lab Technician
Fernando dos Santos Araújo - FAPERN Scholarship
Daniel Ferreira da Costa - CAPES Scholarship
Rodrigo Ferreira de Sousa - CAPES Scholarship

Undergraduate students:

Fernanda Moura F. Lucas - CNPq Scholarship
Ageu da Silva M. Freire - CNPq Scholarship
Kyvia Pontes T. das Chagas - CNPq Scholarship
Léia Níneke de L. Sousa - PROPESQ Scholarship
Jack Batista de Sousa - Bachelor Final Project
Jéssica R. M. dos Santos - PROPESQ Scholarship
Richeliel Albert R. Silva - CNPq Scholarship
Gean C. da Silva Santos - PROPESQ
Lorena Isabel Santos - Bachelor Final Project

Undergraduate students:

Danielle de Moraes Lúcio - PROGRAD Scholarship
Luan H. B. de Araújo - PROGRAD Scholarship
Enaldo dos S. Segundo - PROGRAD Scholarship
Eduarda Ximenes Dantas - FAPERN Scholarship
Talita Geovanna F. Rocha - CNPq Scholarship
Cynthia Azevedo G. Guerra - FAEX Scholarship
Brenda Lívia B. Carvalho - PROPESQ Scholarship
Arthur de Almeida Marinho - FAPERN Scholarship

<u> Undergraduate monitors:</u>

Ana Luiza da Silva Lopes - PROGRAD Scholarship Lucas Pinheiro Oliveira - PROGRAD Scholarship Priscila Lira de Medeiros - PROGRAD Scholarship Misrael Vieira Sales - PROGRAD Scholarship Igor Diego de O. Xaxá - PROGRAD Scholarship Ednor Elias Barbosa Neto - PROGRAD Scholarship

Technical studentship:

Hosana Lourenço da Silva - CNPq PIBIC Gean Carlos da S. Santos - CNPq PIBIC Mario Ferreira da Silva - CNPq PIBIC Erico Rodrigo Freitas - CNPq PIBIC



How to use it?

The Laboratory of Genetics and Forest Improvement performs its activities to minimize possible impacts on the environment. Thus, measures related to environmental management are adopted, such as control of the consumption of natural resources (water and energy) and proper storage of chemical residues produced.

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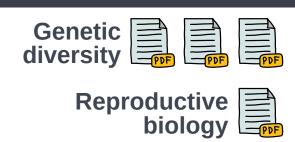




Quick Facts

The LabGeM and Target Species

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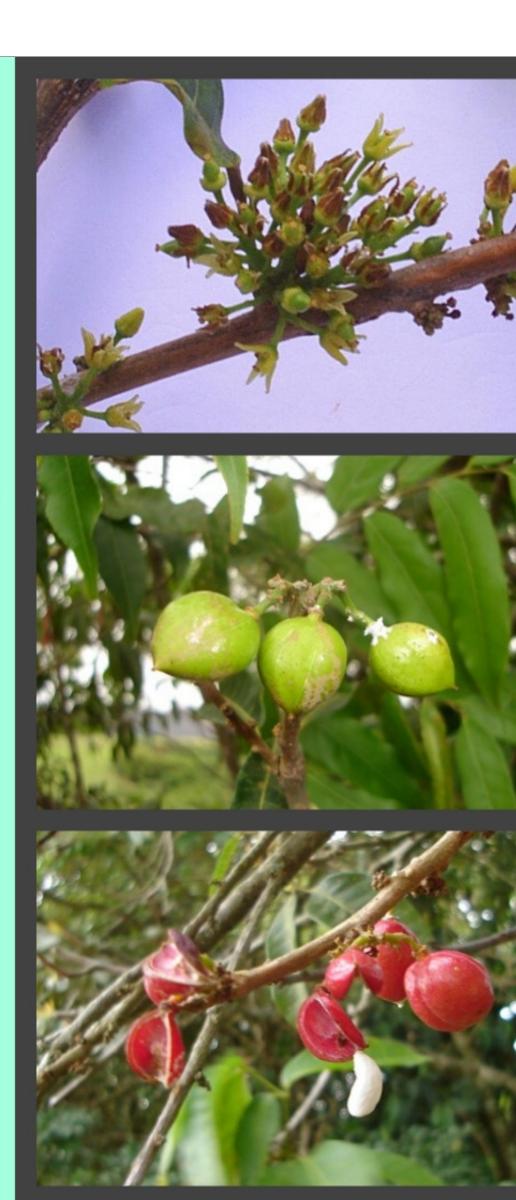
Aromatic tree

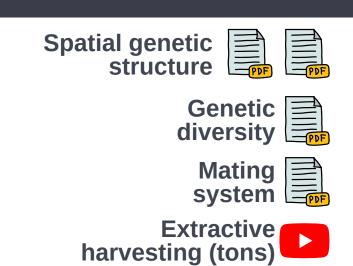
The species produces a fragrant resin used in popular medicine

QUICK FACTS

Protium spp

Protium is a well-known tree genus because of the production of secondary metabolites, mainly classes of terpenes. It is diverse and abundant in the Amazon basin where it can be found in up to 35 sympatric species







Carnauba wax

The third most important non-timber forest species in Brazil













Fig tree

Ficus bonijesulapensis grows on the rock surface and in the fissures of the rocks

QUICK FACTS

Ficus bonijesulapensis

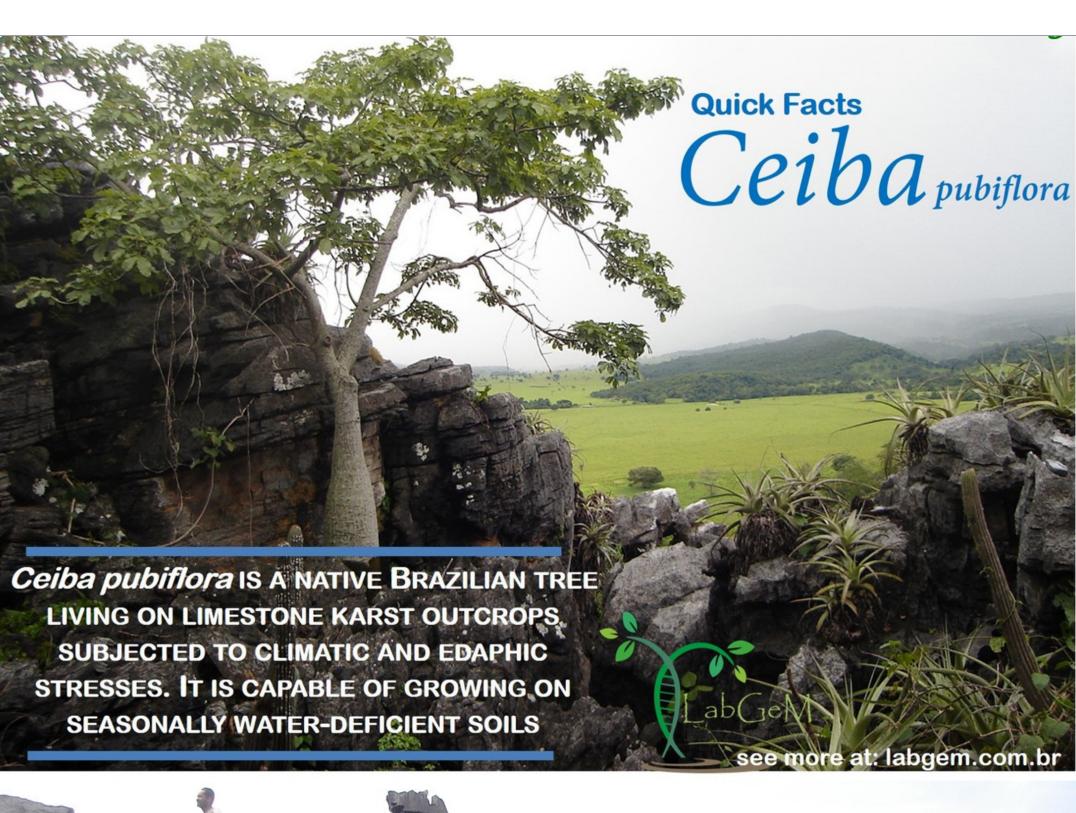
F. bonijesulapensis
is a fig tree with a
discontinuous
geographical distribution
that is endemic to
outcrops of carbonate
rock in dry forests



04

On limestone

Many outcrop habitats have disappeared as a result of exploitation for limestone





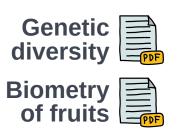




Orchids

Cattleya granulosa is an endangered epiphytic orchid







Mangaba fruits

Hancornia is considered monotypic since it possesses only one species





07

Pequi fruits

C. brasiliense is pollinated by small territorial bat species with low flight ranges







Umbu fruits

Spondias tuberosa is widely distributed in the Caatinga domain







Palm oil

One of the world's leading sources of vegetable oil

QUICK FACTS

Elaeis guineensis

The African palm tree *E. guineensis* is known as palm oil, one of the world's leading sources of vegetable oil. The palm oil became an integral component of Afro-Brazilian culture and cuisine.









Juazeiro tree

One of the symbol plants of the Caatinga biome and has a relevant cultural interest

QUICK FACTS

Juazeiro

Ziziphus joazeiro, also known as juá, is among the symbolic trees of the Caatinga. It has economic relevance and valuable ecological, food, medicinal and ornamental qualities.











Jurema tree

The wood is widely used as firewood for the production of red ceramics.

QUICK FACTS

Jurema-preta

Mimosa tenuiflora:
typically occurs in semiarid regions, being an
indicator of early stages of
ecological succession in
anthropized environments.
Its main products are
stakes, firewood and coal.
Also, it has medicinal
properties and tanning
substances in the bark.







