



Colegio de Postgraduados

Teaching and Research in **Agricultural Sciences**

STUDY IN **México**





The **Colegio de Postgraduados** is a Mexican public institution of higher education with international recognition that prepares students for a globally competitive world in which knowledge is the most important asset.



Our Mission

The **Colegio de Postgraduados** creates, disseminates, and applies knowledge for the sustainable management of natural resources, the production of nutritious and safe food, and an overall improvement in the quality of life for rural communities.

Our Organization

- Administration
- Campus System

Campus System

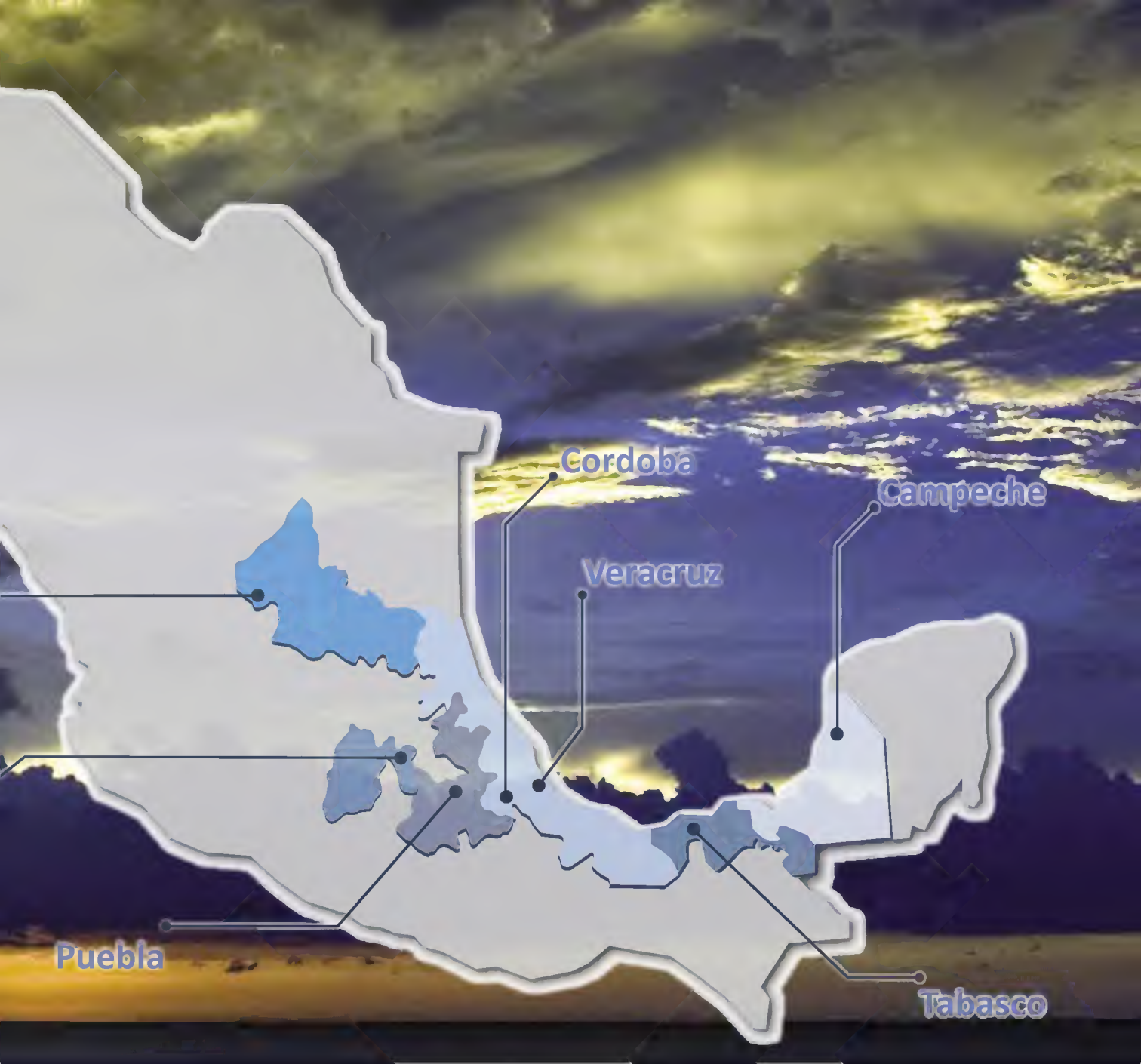
The institution is comprised of seven campuses distributed across different agro-ecological regions of Mexico, including arid, temperate, and tropical climates.

Each campus carries out education, research, and extension programs, such as the generation and transfer of technology to both the public and private agro-food production sectors.



San Luis Potosi

Montecillo



Cordoba

Campeche

Veracruz

Puebla

Tabasco

Academic Secretary





Academic Organization

Areas of knowledge: Group of disciplines focused on studying related phenomena to understand their nature, qualities and interactions:

- **Animal Science**
- **Plant Science**
- **Environmental Science**
- **Social Sciences**
- **Agro-food and Engineering**

Each area is coordinated by a Dean

Academic Staff

Education



Our institution has an academic staff of more than 400 professors with PhDs from trained at prestigious national and international universities. More than 60% of faculty members are recognized as national researchers by the National Council of Science and Technology (CONACYT).



We offer 20 graduate science programs. Our enrollment is approximately 1,000 graduate students, with 5-10% coming from other countries.

Other programs offered include:

- Ten technological master's programs
- Various specializations
- Diploma courses
- Training courses

Graduate Programs (MSc & PhD)

Campus	Program
Montecillo	Plant Protection (Entomology and Phytopathology)
	Plant Physiology
	Plant Genetics
	Horticulture Sciences
	Animal Production
	Seed Production
	Botany
	Soil Sciences
	Water Sciences
	Forestry
	Economy
	Rural Development
	Statistics
	Computer Sciences
Puebla	Strategies for Agricultural Development
Veracruz	Tropical Agroecosystems
Tabasco	Agro-food Production in the Tropics
Campeche	Tropical Agriculture

Technological Master's

Campus	Program
Campeche	Agronomy Applied to the Tropics
Cordoba	Landscape Architecture Agro-industries
Montecillo	Forest Management and Conservation Food Inocuity Agribusiness
San Luis Potosi	Training for Professional Services
Puebla	Training for Rural Development Development for Indigenous Regions
Tabasco	Agro-food Production in the Tropics

Research

- 16 Major Research Lines (MRL)
- Cross-disciplinary teams for research in each MRL
- One project for each MRL, which integrates the team
- Seed money for each research project

Major Research Lines

- Added value in food transformation
- Education and human development
- Technological innovation
- Sustainable management of natural resources
- Sustainable agro-ecosystems
- Bioenergy and biomaterials
- Agribusiness and landscape architecture
- Statistics, modeling, and information technology
- Biotechnology
- Conservation and management of genetic resources
- Food safety, food quality, and biosecurity
- Global climate change
- Geomatics
- Rural communities and local knowledge
- Sustainable rural development
- Food production systems

Outreach and Technology Transfer

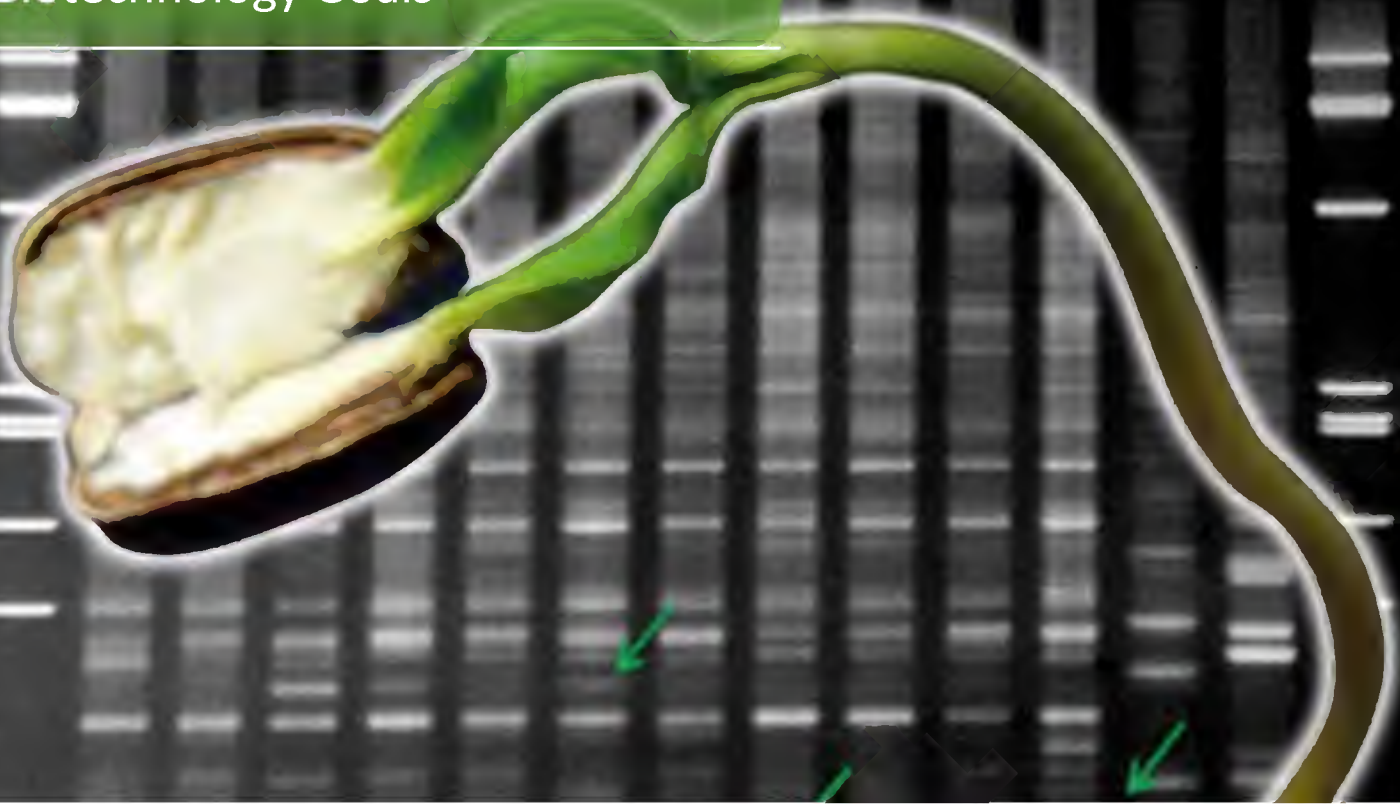
- Local Action Groups (LAG)
- Priority regions
- School of Agribusiness (for producers)
- Strategic alliances with the government and other institutions
- Consulting
- Training



Opportunities for Collaboration

- Student exchange
- Faculty exchange
- Collaborative projects
- Sabbatical leave

Biotechnology Goals



The **Colegio de Postgraduados** is promoting the use of agrobiotechnologies for food, energy, and environmental issues. Two of the Priority Research Lines, namely biotechnology and genetic resources, deal with topics concerning conservation, characterization, collection, and utilization of genetic resources, using both transgenic and non-transgenic approaches.



What We're Working On

- Characterization of maize, sugarcane, *Jatropha curcas*, and *Sechium edule* germplasm for stress tolerance and higher yields.
- Generation of new maize and tropical fruit varieties with improved nutritional quality.
- Conservation and propagation of endangered species such as *Taxus globosa* as a source of pharmacological compounds.
- Sequencing of the *Agave tequilana* transcriptome, with more than 15 thousand genes identified.
- Selection of new bacteria as biofertilizers for sugarcane crops.

What We've Achieved

- Creation of various germplasm banks: sugarcane, *Sechium edule*, *Jatropha curcas*, and "CLT" cattle.
- Development of molecular techniques to detect pathogens in seed and food.
- Production of biofertilizers based on fungi and bacteria.
- Development of new maize varieties for tropical areas, as well as new fruit varieties which are being exported to South America, Africa and Europe.
- Leadership role in the Mexican national program for genetic resources.





*Creation of various
germplasm banks of
Sechium edule.



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