ROLE OF THE NATIONAL UNIVERSITY OF COLOMBIA AS A LEADER IN THE COUNTRY

WCU- 3 International Conference on World Class Universities
Shanghai 2-4 November

A public University since 1867
8 Campuses all over the Country

**The Environment**

- A Complex environment with a trade-off between defense and education

- We are the national leaders in higher education in three main areas:
  a) Quality assurance
  b) Research excellence
  c) Financial support
a) Quality Assurance

282 Institutions of Higher Education (81 public)

Number of Education Programs of Institutions of Higher Education in Colombia

Number of Academic Programs in the National University of Colombia

2990 Professors (2325 full-time)

43000 Students (5000 graduate students)

352 Academic programs
Number of Undergraduate Programs by Knowledge Field in the National University of Colombia

- Health Sciences: 7 programs
- Arts: 11 programs
- Agricultural Sciences: 12 programs
- Sciences: 13 programs
- Human and Social Sciences: 23 programs
- Engineering: 28 programs

Doctoral Students in the National University of Colombia

- Biotechnology: 12 students
- Health Sciences: 54 students
- Human Sciences: 77 students
- Agricultural Sciences: 101 students
- Engineering: 127 students
- Basic and Earth Sciences: 174 students

545 PhD students (33% of Colombian PhD students)
b) Research Excellence

Number of Research Groups Recognized by the National System of Science, Technology and Innovation

- A1: 41
- A: 50
- B: 118
- C: 116
- D: 154

Other Institutions: [Data]
UNC: [Data]

Number of Researchers with a Doctoral Degree in Colombia by Knowledge Field

- Natural Sciences: [Data]
- Social and Human Sciences: [Data]
- Technology and Engineering Sciences: [Data]
- Technology and Medical Sciences: [Data]
- Technology and Agricultural Sciences: [Data]

Colombia: 5000
UNC: 855
Number of Colombian Journals in International Indexes

Technology and Agricultural Sciences
Technology and Engineering Sciences
Natural Sciences
Technology and Medical Sciences
Social and Human Sciences

Number of cited documents of researchers in Colombia in international indexed journals, between 1996 and 2007

Health Professions
Arts and Humanities
Decision Sciences
Nursing
Multidisciplinary
Business, Management and Accounting
Dentistry
Economics, Econometrics and Finance
Veterinary
Neuroscience
Energy
Pharmacology, Toxicology and Pharmaceutics
Psychology
Social Sciences
Computer Science
Chemical Engineering
Earth and Planetary Sciences
Environmental Science
Mathematics
Chemistry
Materials Science
Engineering
Immunology and Microbiology
Biochemistry, Genetics and Molecular Biology
Physics and Astronomy
Agricultural and Biological Sciences
Medicine

Number of Cited Documents
Excellence Research Centers:
COLCIENCIAS: 10 Centers (6 UNC)
• Center of Excellence in Modeling and Simulation of Phenomena and Complex Processes-CEIBA
• Colombian Center for Genomics and Bioinformatics of Extreme Environments
• Research and Innovation Center of Excellence “Regional Alliance of Applied Tic’s” ***
• Center for Research and Innovation in Energy ***
• Research and Innovation Center of Excellence in Biotechnology and Biodiversity
• Center of Excellence in New Materials
DAAD:
• * Center of Excellence in Marine Science

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c) Financial Support

GDP = US$ 50 billion
Education = US$ 2350 million (4.8% GDP)
Research = US$ 120 million (0.4% GDP)
UNC = US$ 500 million (55% government, 45% external resources)
The Strategy

* Increasing talents and resources
* Improving governability
* Focusing in research and graduate programs

1. Increasing the number of cooperation agreements with international universities that improve the academic exchange of professors and graduate students

200-Agreements:
Spain (59)
France (41)
USA (33)
Mexico (31)
Germany (29)
2. Increasing the number of professors with a PhD

![Graph showing the increase in the number of professors with a PhD from 2002 to 2010.](image)

3. Increasing the resources for research projects and scholarships for graduate students

![Graph showing the increase in the number of scholarships provided to graduate students from 1998 to 2008.](image)
4. Increasing the number of scientific papers in international and indexed journals

![Graph showing the number of papers in international indexed journals from 2002 to 2007.](image)

5. Achieving high quality international certifications

- The Royal Institute of British Architects (RIBA)

- Iberoamerican Network for Quality Accreditation of Higher Education (RIACES) - Agronomy programs

- Quality Enhancement Plans for undergraduate programs
UPCOMING

We need to work hard to get a university with more research activities, a significant proportion of graduate students from different countries and more publications that impact the international academic community.

In conclusion:
with suitable governance, better financial support and efficient management, we expect to attract more resources and more academic talents to develop the university and achieve an international recognition in the future.

BUT,
• Persistence
• Perseverance

Thank you
Doctoral Degrees Granted at National University of Colombia

489 in Colombia (181 in UNC)