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**BIOECONOMY AWARENESS RAISING
AND CAPACITY
DEVELOPMENT WORKSHOP
Marcho 20, 2014**

**Construction of Bi-lateral Pilot
Bioeconomy Masters**



Presentation Organized by



**Francisco Héctor Ochoa, Ph.D.,
Dean School of Business and Economics**

**Ximena Dueñas, Ph.D.,
Director of Economics Program**

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Director of MBA**

**Zaida Lentini, Ph.D.,
Dean School of Natural Sciences**

WHO ARE WE?



- ❖ Private nonprofit university
- ❖ Founded in 1979
- ❖ High Quality Accreditation
granted by the National Council on
Accreditation, Ministry of Education.
- ❖ Board of directors formed by a
group of Business Leaders from the
southwest region of Colombia
- ❖ Enrollment of 5,700 students:
 - 4,817 undergraduate (1,355
Fellowships for low income
students , 28%)
 - 883 graduate



5 Schools:

Business and Economics
Engineering
Law and Social Sciences
Natural Sciences
Health Sciences

19 undergraduate programs
11 masters programs
9 medical-surgical specialties

186 tenured professors
64% at Ph.D. Level



Masters Programs

- MBA
- Global MBA dual degree with Tulane University
- Master in Marketing
- Master in Finance
- Master in Economics



Icesi's School of Business and Economics in one of the two schools in Colombia accredited by AACSB and AMBA, international distinctions awarded to the best business schools in the world.

AMBA (Association of MBA's), Europe's leading accrediting organization for business schools, based in London.

AACSB (Association to Advance Collegiate School of Business), organization founded in the U.S. in 1916, by universities like Harvard, Columbia and Yale, only accredits the best business schools in the world.



Economics, Public Policies, and Quantitative Methods

Research areas: Short run policy analysis, economics of education, health economics, quantitative methods, labor economics, public policies, poverty, and inequality.

Investment, Financing, and Control

Research areas: Corporate governance, corporate finance, risk management, microfinance, accounting rules (IFRS, International Financial Reporting Standards), and investment portfolios.

Organizational Competitiveness and Marketing

Research areas: decision making and strategy, consumer behavior, knowledge management, public management, SME productivity and competitiveness, business innovation and development, trust, and advertising.



Science Laboratory Building
10.000 m²



Icesi Campus

- >110.000 m²
- 35.000 m² built
- 14.655 m² sport fields

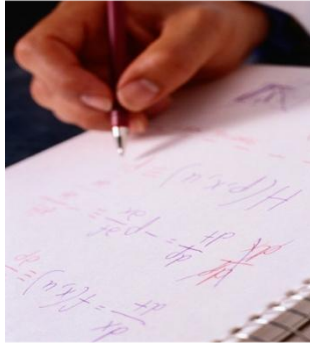
Master in Biotechnology

Areas of Concentration

- **Blue Biotechnology, Environmental Sector**
- **Green Biotechnology, Agriculture Sector**
- **White Biotechnology, Industrial Sector**
- **Red Biotechnology, Health Sector
(Pharmaceutical and Medicine)**

School of Natural Sciences

Areas of Research applicable for Technology and Innovation in Bioeconomy



1. Natural resources conservation, restoration and sustainable use
2. Natural ingredients
3. Biotechnology
4. Bioremediation
5. Material sciences
6. Alternatives source of energy
7. Nanotechnology
8. Innovation of pharmaceutical and cosmetics products

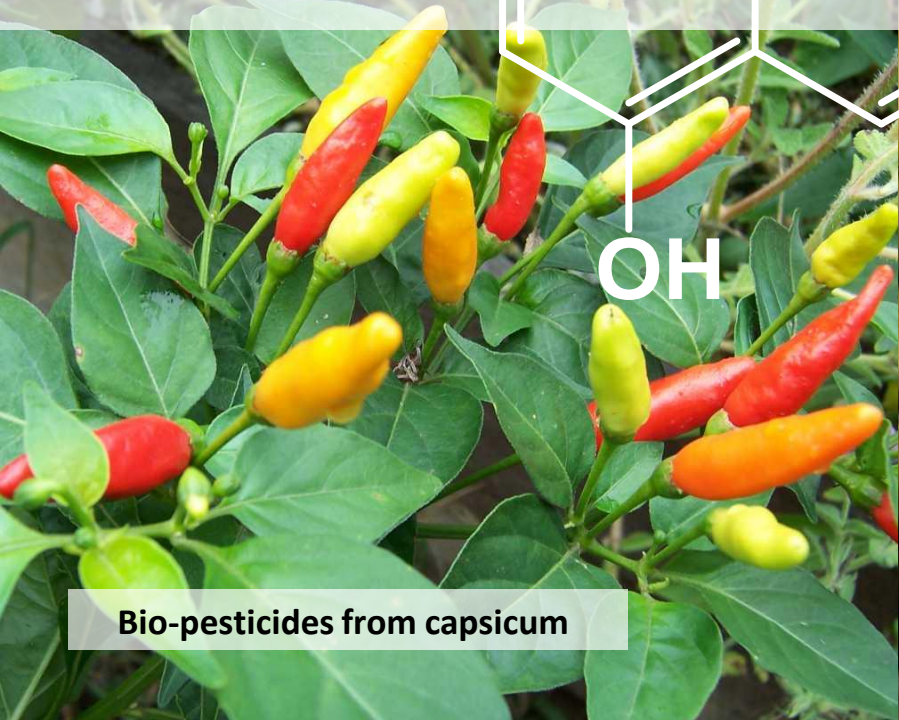
Phenyl-propanoids by-product from coffee
for new bio-materials



Wild rice as a source of
anthocyanins for cosmetic
applications



*some initiatives in bio-economy with
companies and SMEs from the region*



Bio-pesticides from capsicum



α and β hydroxy-acids for
chemical peeling. New
generation of anti-aging
cosmeceuticals products



Bio-plastics



Cosmetics from nature

Bacterias de la yuca, útiles contra el cianuro

Investigadores encontraron en el almidón de esta raíz microorganismos capaces de degradar el cianuro utilizado en minería.

Por: Redacción Vivir

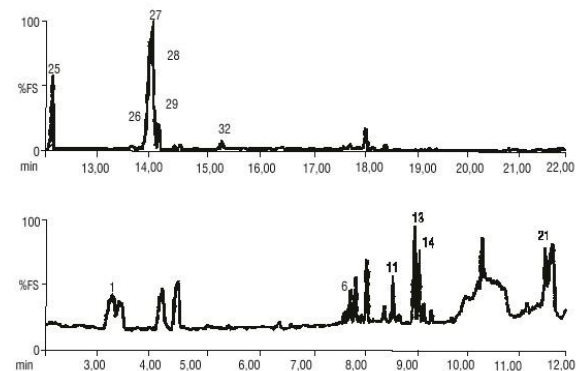
Novel bacteria for bioremediation

119
Compartido



Biochar from rice husk

Fatty acids from microalgae



Why do we want to participate in the Construction of Bi-lateral Pilot Bio-Economy Masters?

- *We recognize the importance of effective management of biodiversity and its sustainable use for the development of Colombia and LAC*
- *We foresee innovation opportunities for designing an academic program to develop capacity that adds value to biodiversity resources*
- *High quality and forefront education is part of Icesi's social responsibility and values. Icesi is a member of PRME (Principles for Responsible Management Education, UN)*

What do we offer?

- Track record for graduate education in business management
- Expertise in dual degree agreements at the international level
 - Global MBA with Tulane University
 - Master DESCM Sup de Co Montpellier
 - Master France Business School (Clermont)

What do we offer?

Training on entrepreneurship and support to new entrepreneurs



The Entrepreneurship Development Center (CDEE)

- In 2006, the National Institute for Research Advancement (NIRA), Japan selected the CDEE as one of the 318 think tanks indexed in the *NIRA's World Directory of Think Tanks*.
- In 2007, the "Think Tanks and Civil Societies Program", University of Pennsylvania selected the CDEE as one of the 228 think tanks to be listed in the *Global Go To Think Tank Index*.
- In 2010, the US Association for Small Business and Entrepreneurship (USASBE) granted CDEE the award for "Best Entrepreneurship Educational Program outside the USA."

What do we offer?

- Basic and applied research on natural sciences suitable for business plans and bio-economy development
- Research and application of Biotechnology on diverse fields
- Strong network with the private sector, government, Chamber of Commerce, civil society, Universities and research centers for research, initiatives and student internship

International Track and Student Exchange Programs



- Bilateral International agreement for academic exchange (students and professors) with 70 Universities (40 Universities from Europe)
- A member of ISEP (International Student Exchange Programs) with 300 Universities worldwide (94 from Europe)
- On year basis we have about 50 international undergraduate students. Europe (50-90%), LAC (6-16%), the rest from USA and Canada
- In 2013, 27 international graduate students. From Universidad de Chile (22) , the rest from France, Germany, and USA

Thank You!

