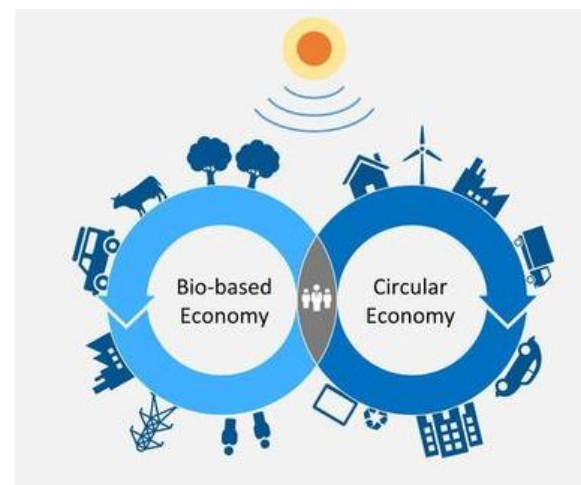


“Giornata Nazionale della Bioeconomia” Giovedì 23 Maggio 2019

Bioeconomy in the Circular Economy



Ruolo della Accademia nella formazione di nuovi profili professionali a sostegno della Bioeconomia.

Scenari di sviluppo delle imprese conciarie: ruolo delle biotecnologie per lo sviluppo di processi bio-based

Bioeconomy

An economy which make use of biological resources from land, sea, and waste, as inputs to food and feed, industrial and energy production.

Bioeconomy covers the use of bio-based processes for sustainable industries.

Bioeconomy and Circular economy

Bioeconomy can not be reduced to a part of the circular economy only – the two concepts are interlinked.

Bioeconomy envisages a new growth engine for the next economy thus opening out innovative uses of biological resources for materials, energy, products and services in big key sectors of the European economy

Circular economy interlinks with bioeconomy but may not fully capture this ambition.

(John Bell interviewed by Il Bioeconomista, 19 January 2016)

Bioeconomy: a compelling sector to drive Italy's growth

The Vision:

Italy's bioeconomy to be a significant contributor to the nation's economy by 2020 and beyond

Education, training, and communication is crucial for a future bioeconomy.

A strong interconnection among education providers, producers, workers, citizens, researchers and innovators should be supported and facilitated.

Italian Academia position

Closing the technological gap by promoting networking between Academy and Industry (participating to **Technological Clusters**)

- **21 Italian Universities** are members of the **National Technology Agrifood Cluster CL.A.N.**, a multi-stakeholder network of the key national players of the entire agrifood chain - a partnership of companies, research centres and institutions set up to promote sustainable economic growth, based on research and innovation in the industry and acting as partner for Italian and European Institutions.

**National Technology
Agrifood Cluster**



- **23 Italian Universities** are members of the **National Technology Cluster of “Green Chemistry” SPRING – Sustainable Processes and Resources for Innovation and National Growth**, which has the objective of triggering the development of biobased industries in Italy, through a holistic approach to innovation, aimed at revitalising Italian chemistry in the name of environmental, social and economic sustainability.

**National Technology Cluster
of “Green Chemistry”**



Duty of Academia is training new professional profiles with technical and economic expertise which will be **able to work within the bio-based goods and services industry.**

The University of Napoli “Federico II”

The oldest state university of the western world (*generalis lictera issued by Frederick II Hohenstaufen, King of Sicily and Head of the Roman Empire, June 5th 1224.*), provides specific courses (Bachelor, Master and PhD) to train new professionals profiles to work within the bio-based goods and services industry.

Bachelor

Biomolecular and Industrial Biotechnology (three years BS course)

Master degree

Molecular and Industrial Biotechnology (two years MS course)

PhD course

Industrial Biotechnology (three PhD years course)

2nd level Master course

BIOCIRCE – Bioeconomy in the Circular Economy (one year Master course in collaboration with: University of Milano Bicocca, Torino, Bologna and with Intesa San paolo, Novamont, GFBiochemicals and Lodi Science Park)



UNIVERSITÀ DEGLI STUDI DI NAPOLI
FEDERICO II



Bioeconomy in the Circular Economy - BIOCIRCE

The first European Master in **Bioeconomy in the Circular Economy**



This Master's program (level II) offers an extensive training program for **professionals interested in working within the bio-based goods and services industry.**

The program allows the professionals to go in depth in all the aspects related to the production and marketing sides of bio-based products, whilst using the latest technology.

The master program is designed for two groups of students that are professionals with either **scientific** or **legal/economic background.**

Bioeconomy in the Circular Economy - BIOCIRCE

www.masterbiocirce.com

Partner Organizations

As an interdisciplinary program jointly offered by **4 Universities** (University of Bologna, University of Milano-Bicocca, University of Naples Federico II, and University of Turin), and by **non-academic partners** (Intesa Sanpaolo, Novamont SpA, GFBiochemicals SpA, and PTP Science Park di Lodi), this MS degree program provide skills and expertise necessary to deal with the full range of issues in this complex field.

**From 2019
Clusters
SPRING and
Cluster CLAN
Joined the
founder
Institutions of
BIOCIRCE**



Continuous learning - Master II level ... on demand ...

Bioeconomy in the Circular Economy - BIOCIRCE



Coordinating Committee:

- **Giovanni Sanna**, University of Napoli Federico II, President
- **Marina Lotti**, University of Milano-Bicocca
- **Patrizia Brigidi**, University of Bologna
- **Giovanna Cristina Varese**, University of Torino
- **Paola Mariani**, PTP Science Park
- **Anna Monticelli**, Intesa Sanpaolo Spa
- **Giulia Gregori**, Novamont Spa
- **Pasquale Granata**, GFBiochemicals Italy Spa

Scientific Advisory Board:

- Mario Bonaccorso, **ASSOBIOTEC**
- Lucia Gardossi, **CLUSTER SPRING** and University of Trieste
- Raffaele Liberali, **CLUSTER SPRING**, Coordinator Board of Regions
- Cristina Di Domizio, **CLUSTER CLAN** Agrofood and FEDERALIMENTARE
- Nathalie Moll, Secretary general **EUROPABIO**
- Danilo Porro, University of Milano **BICOCCA**



Bioeconomy in the Circular Economy - BIOCIRCE

On December the 11th 2017 there was the first graduation ceremony of the students of the “Bioeconomy in the Circular Economy” Master.

The official ceremony was chaired by Professor Cristina Messa, Rector of the University of Milano-Bicocca.



Italiadecide prize

The master BIOCIRCE received, on 12th February 2018, at the Italian Parliament, from the President of the Italian Republic, the **"Italiadecide" (Italy-decides) prize for teaching innovation.**

The price has been awarded to the initiative of four Italian universities from North to South (University of Torino, University of Milano Bicocca, University of Bologna and University of Napoli Federico II), with the support of three of the main Italian bioeconomy players (Novamont, GFBiochemicals and Science Park of Lodi) and the Italian leading banking Group Intesa Sanpaolo, which is the only financial global partner of the Ellen McArthur Foundation.





**CALL WILL BE SOON OPENED FOR THE
FOURTH EDITION OF THE MASTER!**

**APPLICATION DEAD-LINE:
31 OCTOBER 2019**

<https://www.unimib.it/open/news/Master-in-Bioeconomy-in-the-Circular-Economy-BIOCIRCE/>

1ST MEDITERRANEAN SUMMER SCHOOL FOR SUSTAINABLE DEVELOPMENT AND BIOECONOMY JULY 9-12 2019 THESSALONIKI GREECE



JOINT ORGANIZATION
Master for Bioeconomics Greece
www.bioeconomics.edu.gr

Perrotis College
(American Farm School)
www.perrotiscollege.edu.gr

Master on Bioeconomy and Circular
Economy-BIOCIRCLE Italy
www.masterbiocirce.com



PERROTIS COLLEGE
CAMPUS OF AMERICAN
FARM SCHOOL

FINAL CALL FOR REGISTRATION

Major aim of this summer school is to bring together young people and tutors from the Academia, Research, Industry and Stakeholders from the Mediterranean area and the Balkans.

IFIB – International Forum on Industrial Biotechnology and Bioeconomy

3-4 October, Naples (Italy)

Naples will be the world capital of circular
bioeconomy on October 3-4

 IFIB 19

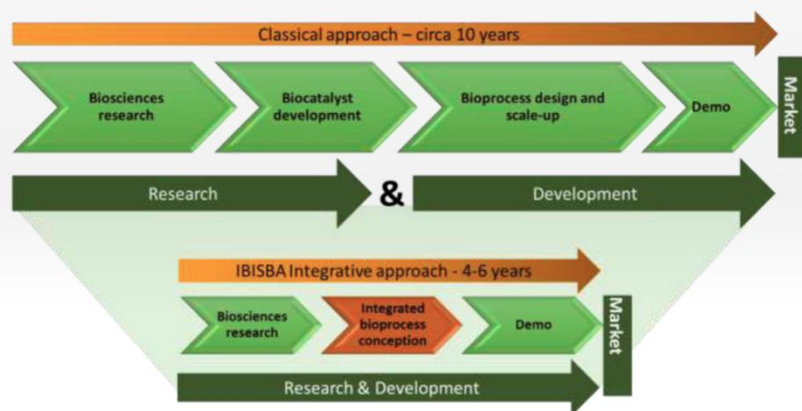
IFIB goes to Naples. The next edition of the International Forum on Industrial Biotechnology will take place on **October 3-4 in Naples**, Italy, at the **Congress Center of the University of Naples Federico II, via Partenope 36**.

Industrial Biotechnology Innovation and Synthetic Biology Acceleration

European Strategy Forum on Research Infrastructures (ESFRI)



The **IBISBA** ambition:
*create a **Research Infrastructure** capable of performing transnational R&D to support industrial biotechnology facing US and China*





WHY IS **IBISBA** AN OPPORTUNITY IN OUR INSTITUTION

- Maintenance and innovation of medium/large size scientific instrumentations
- Source of funds for national and international collaborations
- Hub for public-private collaborations
- Environment for training and education

IBISBA ESFRI ITALIAN NODE:

National Research Council of Italy (CNR) Leader (legal representative **Francesco Loreto**)

IBBR-UOS Naples (**Beatrice Cobucci Ponzano, Marco Moracci**)

ISPAAM, Naples (**Andrea Scaloni**)

ISA, Avellino (**Sabato D'Auria**)

IBBA, Milan (**Aldo Ceriotti**)

University of Naples 'Federico II' (UNINA) Dept. Biology (**Marco Moracci**)

Dept. Chemistry (**Giovanni Sannia**)

Università degli Studi dell'Insubria (UNIVA) Varese (**Loredano Pollegioni**)

University of Tuscia (UNITU) Viterbo (**Raffaele Saladino**)

University of Milano Bicocca (UNIMIB) Milano (**Danilo Porro**)

Università di Bologna (UNIBO) Bologna (**Fabio Fava**)

Fondazione Istituto Insubrico Ricerca per la Vita (FIIRV) Varese (**Giacomo Buonanno**)





IBISBA^{1.0}

Industrial Biotechnology Innovation
and Synthetic Biology Accelerator

THE IBISBA PROJECT

Satellite meeting

2 October 2019 / Naples, Italy

*Chairpersons: Marco MORACCI and Giovanni SANNIA
University of Naples 'Federico II'*

Congress Center of the University of Naples Federico II,
via Partenope 36

