

**Informazioni sui corsi del Dottorato di Ricerca in Tecnologie Convergenti per i Sistemi Biomolecolari,
TeCSBi**

(syllabus)

Teacher: name and affiliation	Marina Lotti-Paola Branduardi Università di Milano Bicocca – Dipartimento di Biotecnologie e Bioscienze
Title:	Toward Bio-based economy: science, innovation, economics, education
Language	English
Typology of proposal (e.g.: introductory seminar, lecture, workshop, cycle of lectures, other)	International course-cycle of lectures
CFU (1 CFU corresponds to 8 hours teaching + students' work and evaluation)	3
Hours (in class)	30
Objectives (specified in relation to research training; suggested year of attendance – I, II, or III)	<p>This summer school aims at providing a broad overview of the mentioned issues and will be held by national and international speakers, both from academia and from industry. At least one visit to a company involved in the production of bio-based compounds will be included in the school's schedule. Because of its inter-disciplinarity, the program welcomes participants with different backgrounds. Participants should be aware that a basic knowledge about the scientific basis of biotechnology is required and can ask organizers for advice.</p> <p>Networking and discussion among students and lecturers will be encouraged and fostered throughout the duration of the school, with social event and a poster session.</p>
Short description of contents	<p>Choice and processing of renewable raw materials; environmental sustainability of biomass sourcing and processing.</p> <p>How to do it: Key technologies for the production of bio-based products. Biorefineries: concepts and application. National and international strategies for bioeconomy: funding, organization, network. Innovation in place: visit to a company and case studies of success (or failure) stories. Economical models and economic sustainability of bio-based business.</p> <p>Social sustainability of the bio-based model. Changes in training programs: Models and experiences.</p>
Method (e.g.: presentation, interactive lecture, case study, lecture with exercise/practice, workshop other).	Presentation, interactive lectures with exercise/practice, case study.

Evaluation (how will it be done?)	At the end of the school period the students will be asked to discuss the work done during the course
Specific needs for teaching: projector, computer, internet, software etc.	Projector, internet
Participants (min/max)	5
Calendar	03/09/2018-07/09/2018
Notes:	