A PROJECT THAT LOOKS TO THE FUTURE

Another primary purpose of the project is to **train researchers** with the skills and the systemic vision needed to operate within the integrated biorefineries field. The training is addressed to **young and highly qualified researchers** with the aim to offer a complete overview of technical and managerial knowledge in the field of research and development of processes for the production of chemical intermediates from renewable resources.



For further information:

strategic.projects@novamont.com www.novamont.com/rebiochem

SPRING CLUSTER



Rebiochem project fits within the strategic development plan of **SPRING Cluster**. SPRING was born in 2012 to encourage 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, in line with the latest EU policies in the field of Research and Bioeconomy.



Italian Cluster of Green Chemistry

For further information visit:

www.clusterspring.it

BIOCHEMICAL FROM BIOMASS: INTEGRATION OF BIOCONVERSIONS FOR THE PRODUCTION AND APPLICATION OF BIOCHEMICALS FROM 2ND GENERATION FEEDSTOCK FROM RENEWABLE RESOURCES



Rebiochem project is funded by Ministry of Education, Universities and Research as part of the National Technology Cluster of Green Chemistry SPRING – Sustainable Processes and Resources for Innovation and National Growth.







Rebiochem primary goal is to develop highly energy-efficient integrated value chains for the sustainable production of biochemicals from renewable resources, both through biotechnological and chemical processes. In particular, the project is focused on the technical demonstration, at pilot and industrial scale, of the possibility of producing and using biochemicals and energy from second generation biomass to obtain biodegradable bioplastics. Rebiochem also aims at studying the related biotechnological and chemical processes within a model of integrated biorefinery which starts from the identification and exploitation of biomasses, not in competition with food crops, respecting the local biodiversity and minimising the overall impact.

Officially started on the 1st January 2014, the project has a 3-year duration. It is **coordinated by Mater-Biotech** and involves six other partners, representing the industrial and research excellence of the Italian Bioeconomy sector.



The project is based on 5 Work Packages:

WP1 - Studies on the selection of biomass and possible pretreatments

WP2 - Development of (bio)catalysts to be used on pretreated biomass and of conversion processes to obtain energy

WP3 - Development of chemical and biotechnological conversion processes for the production of building blocks from renawable resources

WP4 - Formulation, development and application of the final products (energy and materials)WP5 - Optimisation of the energy efficiency of the biorefining processes and sustainability assessment



