**Horizon 2020**

**Marie Sklodowska Curie Actions**

**PROFILE FORM – Expression of Interest**

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| **Organization Name / Department**  | Research Center in Biological and Organic Chemistry (QUIMOBI) /Facultad Regional Resistencia/Universidad Tecnológica Nacional | **Organization Short Name** | QUIMOBI |
| **Organization Type** | x[ ]  **University**[ ] Public Research Centre[ ]  Large Scale Enterprise[ ]  Small and Medium Scale Enterprise | x[ ]  **Public Body**[ ]  International NGO[ ]  National NGO |
| **Research Fields** | x[ ] **Chemistry CHE**[ ] Social and Human Sciences **SOC**[ ] Economic Sciences **ECO**[ ] Information Science and Engineering **ENG**[ ] Environment and Geosciences **ENV**[ ] Life Sciences **LIF**[ ] Mathematics **MAT**[ ] Physics **PHY** | ***Sub-Fields / Keywords:******Procesos******Productos******Ingeniería******Biorrefinería******Microencapsulado*** ,  |
| **Short Description** **of the Organization / Department** | The Research Center in Biological and Organic Chemistry (QUIMOBI), was created in the scope of the Secretariat of Science, Technology and Postgraduate of UTN in August of 2013, by Resolution No. 950/2013 of the Superior Council of the National Technological University. The Center is the result of a continuous growth that began with the creation of a Research Group on Biological and Organic Chemistry, in 2001, dependent on the Regional Faculty Resistencia to carry out research activities of specific problems emerging in our area, promoted by teachers - researchers, accompanied by graduates and a large number of students collaborating in this House of Studies. We also took into account the advice of various scientists having vast experience within the country and abroad. The conformation of this research group was, in more than one sense, the culmination of several years of work and a longinged dream : Serve the community, producing knowledgement through the University. Thus, it was achieved to give stability to an initiative that staked for the development of a propitious framework to the realization of research projets, development and innovation, provide third party services and to exchange ideas and methodologies between teachers, researchers and students in the area of Chemistry Organic.This work was recognized institutionally by the UTN High Council in 2007 (Resolution No. 999/2007), turning it into a UTN Group, happening to depent functionally, since then, on the Science and Technology Secretariat of this University (Rectorate) .This evolution of the Group brought in presentations to Congresses, publications, transfers to the medium , signatures of cooperation and research agreements with companies, and Institutions, internships of professionals and students abroad, conducting doctorates and their inclusion in the Institute of Modeling and Technological Innovation (IMIT) of CONICET. This growth allowed us to reach the levels of production and training of human resources necessary for acknowledgment as a Research Center.Today, the members of the QUIMOBI Research Center are projected into the future with the VISION of being a leading R & D & i Center in the field of Biological and Organic Chemistry having base on the commitment with the environment and the MISSION to Give answers in the area of organic chemistry to problematics of the regional medium, national and international, through research, development and services, Train human resources involved to the environment, competent in the academic area and with social responsibility and Promulgate the scientific production and technology with ethics and professional quality. |
| **Previous Related Projects / Research Experience** | * Biorefineries of biomass produced by agroforestryindustrial and urban (anthropogenic) activities.
* Obtaining phenolic resins with lignins of lignocellulosic biomass.
* Production of algal biomass to obtain organic compounds of high added value (lipids, carbohydrates, proteins, etc.) using, as culture medium, residual liquids.
* Encapsulation of active principles derived from regional essential oils with antimicrobial properties usable in the industry.
* Technological alternatives for the integral use of lignocellulosic biomass.
* Kinetic and computational modeling of saponifiable lipids transesterification.
* New technologies for the production of biodiesel.
* Obtaining bioethanol from lignocellulosic material.
* Development of a technological alternative for the production of biodiesel from non-conventional raw materials
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| **Short Description of the Project idea** **(if foreseeable)** | Our lines of work are:* Biorefinery of lignocellulosic materials and their applications. It works in the fractionation of lignocellulosic residues and the use of the different fractions in order to obtain products of greater value.
* Encapsulation of materials with different matrices. Biopolymer matrices are used in the generation to contain different active principles for various applications in the industry.
* Biofuels: Biodiesel, Bioethanol, Biooil
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| **Related Call**  |  |
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Center for Research in Biological and Organic Chemistry (QUIMOBI), was created on request of the Secretariat of Science, Technology and Postgraduate of UTN in August of 2013, by Resolution No. 950/2013 of the Superior Council of the National Technological University.

This Center is a result of steady and sustained growth that began with the creation of The Research Group of Biological and Organic Chemistry, in 2001, dependent on the Regional Faculty Resistencia to carry out research activities on specific problems emerging in our area, promoted by teachers - researchers, along with graduates and a large number of students collaborating in this House of Studies.We also took into account the advice of various scientists having vast experience within the country and abroad.The conformation of this research group was, in more than one sense, the culmination of several years of work and a longinged dream: Serve the community, producing knowledgement through the University. Thus, this was achieved by giving stability to an initiative that staked for the development of a propitious framework to the realization of research projects, development and innovation, provision of third party services and exchange of ideas and methodologies between teachers, researchers and students in the area of Chemistry Organic.

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The evolution of this Group was brought through presentations at Congresses ( conferences),publications, transfers to the medium , signatures of cooperation and research agreements with companies, and Institutions, internships of professionals and students abroad, conducting doctorates and their inclusion in the Institute of Modeling and Technological Innovation (IMIT) of CONICET. This growth allowed us to reach the levels of production and training of human resources necessary for acknowledgment as a Research Center.

Today, the members of the QUIMOBI Research Center are projected into the future with the VISION of being a leading R & D & i Center in the field of Biological and Organic Chemistry based on its commitments with the environment along with the MISSION to Give answers in areas of organic chemistry to the problems of regional medium as well as national and international, through research, development and services, Train human resources involved to the environment,to be competent on the academic front with social responsibility and Promulgate the scientific production and technology with ethics and professional quality.