

IATI - Campus Iberus.

Meeting at the University of Lleida.

Mercè Balcells
DBA CENTRE - UdL



TECNIO

- Technology transfer.
 - Acknowledged as TECNIO Centre
 - Quality system
 - Confidentiality.
- Expertise in Applied Research.



MULTIDISCIPLINAR TEAM:

- Chemistry.
- Biology.
- Agronomical Engineering.
- Food Science and Technology.

NETWORK:

- Technology platforms.
 - SusChem. National Board.
Coordination of the Valorisation Group
 - Bioplat
- BBI Associated member.



BIOREFINERY



Biomass
Food, agriculture and forestry waste.



Transformation
Physical, chemical or enzymatic processes.



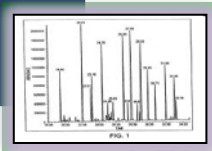
Bioproducts.



- Food
- Cosmetics
- Agriculture
- Lubricants
- Plastics
- Energy.

New eco-friendly extraction processes.

Advanced instrumental analysis.



ACADEMIC RESEARCH

- Competitive projects
- International publications.
- National and international congresses.
- Specialised meetings.

TECHNOLOGY TRANSFER

- Patents.
- Projects with enterprises:
National and regional funds.
- Consulting and contracts with enterprises .
- Advanced instrumental analysis services.



	2012	2013	2014	2015	2016
Projects	9	11	27	17	22
Competitive	3	1	5	6	9
European		1	1		
With enterprises	6	9	10	11	13
Other			11		
Theses					
Presented	3	1		1	2
On-going	6	8	8	7	8
Publications	9	8	11	2	8
Patents	1	1		1	1
Client enterprises	11	18	11	10	16
Income	349.988	321.971	407.536	348.618	525.966
From enterprises	224.808	189.742	128.277	233.552	146.949
From competitive projects	125.180	132.229	262.480	115.065	374.235
Other			16.778		





Current partners:

a) DBA center (Spain)

<http://www.dba.udl.cat/en/>

b) Two Spanish SMEs

Related publications

1.- *Recycling Rhizopus oryzae resting cells as biocatalyst to prepare near eutectic palmitic-stearic acid mixtures from non-edible fat.* Pau Gallart-Sirvent et al. *Journal of Molecular Catalysis B: Enzymatic* 2016, 134 (Part_A), 172-177.

2.- *Entirely solvent-free biocatalytic synthesis of solketal fatty esters from soybean seeds.* Rubén Torregrosa et al. *Comptes Rendus Chimie* 2016, 19, 749–753.

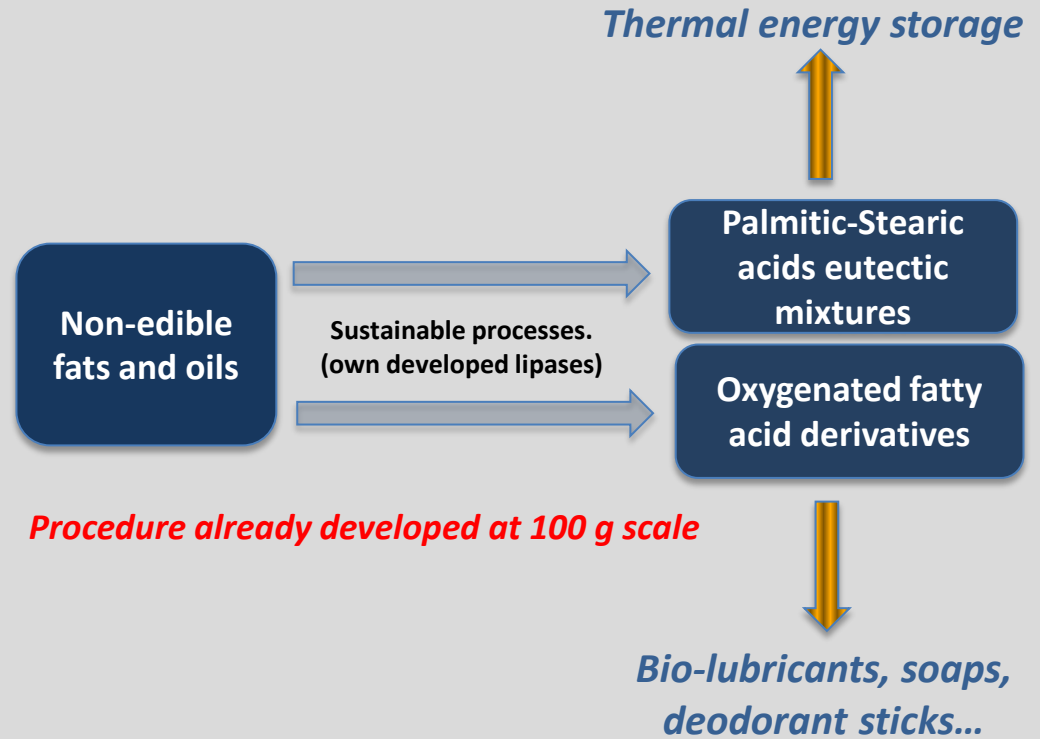
3.- *Fatty acid eutectic mixtures and derivatives from non-edible animal fat as phase change materials* Pau Gallart-Sirvent et al. *RSC Advances* 2017, (Under second revision)

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A) The proposal:



Procedure already developed at 100 g scale

B) What we are looking for :

- Partner developing new biocatalyst (Industrial or academy).
- Industrial partner preparing materials for thermal energy storage.
- Partner to study the bio-lubricant properties of some of the oxygenated fatty acid derivatives (Industrial or academy).
- Industrial partner interested in epoxy and dihydroxy stearic acids.
- Partner to perform LCA studies (Industrial or academy).





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