



University of Novi Sad
**INSTITUTE
OF FOOD
TECHNOLOGY
IN NOVI SAD**

fech
congress
28-30. 10. 2014.

Novi Sad, Serbia

II International
Congress
Food Technology,
Quality and Safety



ABSTRACT BOOK

GREEN TECHNOLOGIES IN THE VALORIZATION OF AGROFOOD WASTES IN THE FRAME OF THE BIOREFINERY CONCEPT

Ana Rita C. Morais, André M. da Costa Lopes, Rafał Bogel-Lukasik*

Laboratório Nacional de Energia e Geologia, Unidade de Bioenergia, Portugal

*Corresponding author:

E-mail address: rafal.lukasik@lneg.pt

Food production results in the generation of residues at different step of the production chain. A great part of the residues is generated at the agricultural part of the process. Although some of these residues may have already an application as for example feed or bedding, however more energetically and economically efficient use is desirable. Especially that this kind of residues are low-cost bulky feedstock and renewable carbon source, which can be processed and valorised to produce fine chemicals and bio-based commodities fulfilling the requirement of biorefinery concept. However, considering the globally occurring changes, the valorisation of residues made in the frame of biorefinery concept must be done in the green fashion. This way the broadly understood sustainability and bio-based economy requirements can be satisfy.

This work will show some examples of valorisation of food production chain residues using greener methods. The aim of this work is to demonstrate the diverse application methods of ionic liquids and high density fluids in direct integrated valorisation of biomass towards value-added chemicals.

Acknowledgements: *This work was supported by the Fundação para a Ciência e a Tecnologia (FCT, Portugal) through the Bilateral Cooperation project FCT/CAPES 2014/2015 (FCT/1909/27/2/2014/S) and grants SFRH/BD/90282/2012, SFRH/BD/94297/2013 and IF/00424/2013. The work was also supported by CAPES (Brazil) by financing the Pesquisador Visitante Especial 155/2012 project. The support to execute this work was also received from EUBis COST Action TD1203 Food Waste Valorisation for Sustainable Chemicals, Materials and Fuels.*