



**HAL**  
open science

## Strategies for the valorization of lignocellulosic biorefineries side-streams: example of Zelcor concept

Florian Pion, Betty Cottyn Boitte, Annelie Jongerius, Goran M. M. Rashid, T.D.H. Bugg, Richard Gosselink, Natalia Berezina, My Dung Jusselme, Edouard Miambi, Craig B Faulds, et al.

### ► To cite this version:

Florian Pion, Betty Cottyn Boitte, Annelie Jongerius, Goran M. M. Rashid, T.D.H. Bugg, et al.. Strategies for the valorization of lignocellulosic biorefineries side-streams: example of Zelcor concept. 15th European Workshop on Lignocellulosics and Pulp, Jun 2018, Aveiro (Portugal), France. hal-04516554

**HAL Id: hal-04516554**

**<https://hal.inrae.fr/hal-04516554>**

Submitted on 22 Mar 2024

**HAL** is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.

# Strategies for the valorization of lignocellulosic biorefineries side-streams: example of Zelcor concept

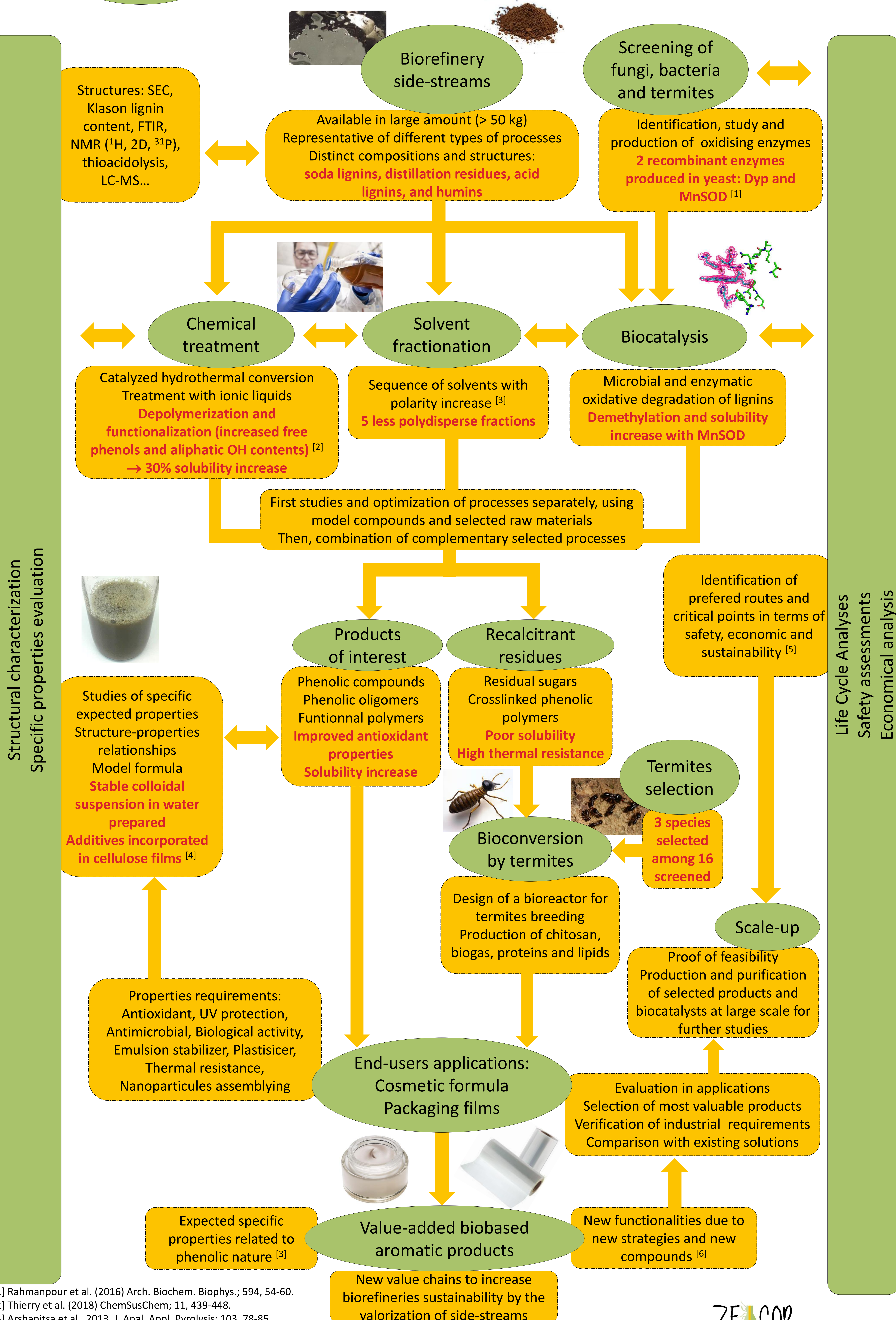


Florian Pion,<sup>a</sup> Betty Cottyn,<sup>a</sup> Annelie Jongerius,<sup>b</sup> Goran M.M. Rashid,<sup>c</sup> Tim D.H. Bugg,<sup>c</sup> Richard Gosselink,<sup>d</sup> Nathalie Berezina,<sup>e</sup> Mydung Jusselme,<sup>f</sup> Edouard Miambi,<sup>f</sup> Craig Faulds,<sup>g</sup> Véronique Aguié-Béghin,<sup>h</sup> Bernard Kurek,<sup>h</sup> Guillaume Rivière,<sup>i</sup> Monika Österberg,<sup>j</sup> Fabio Apone,<sup>j</sup> Guy Marlair,<sup>k</sup> Stéphanie Baumberger<sup>a</sup>

<sup>a</sup> Institut Jean-Pierre Bourgin, INRA, AgroParisTech, CNRS, Université Paris-Saclay, 78000 Versailles, France [florian.pion@inra.fr](mailto:florian.pion@inra.fr), [stephanie.baumberger@inra.fr](mailto:stephanie.baumberger@inra.fr); <sup>b</sup> Avantium BV, The Netherlands; <sup>c</sup> University of Warwick, UK; <sup>d</sup> Wageningen Food and Bio-based Research, The Netherlands; <sup>e</sup> Insect, France; <sup>f</sup> Université Paris Est Créteil Val de Marne, France; <sup>g</sup> Université Aix-Marseille, INRA, Biodiversité et Biotechnologie Fongiques, France; <sup>h</sup> UMR FARE, INRA, Université de Reims Champagne Ardenne, France; <sup>i</sup> Aalto University, Finland; <sup>j</sup> Arterra Bioscience Srl, Italy; <sup>k</sup> INERIS, France

7 academics  
+ 10 private

Combining complementary scientific fields in a cascading approach: Biotechnology, Chemistry, Analytics, Material science, Formulation, Termite science, Sustainability assessments



[1] Rahmanpour et al. (2016) Arch. Biochem. Biophys.; 594, 54-60.

[2] Thierry et al. (2018) ChemSusChem; 11, 439-448.

[3] Arshanitsa et al., 2013, J. Anal. Appl. Pyrolysis; 103, 78-85.

[4] Aguié-Béghin et al. (2015) J. Agric. Food Chem.; 63, 10022-10031.

[5] Parajuli et al. (2015) Renew. Sustain. Energy Rev.; 43, 244-263.

[6] Sun et al. (2018) Chem. Rev.; 118, 614-678.