**Abstract Title**

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Keywords (Max 5):

Conference topic: (Choose one)

1. Materials from renewable resources, extraction, functionalisation, valorisation
2. Sustainable and performing coatings, organic and hybrids
3. Biodegradability, recyclability, sustainability, safety and ethics.
4. Packaging with enhanced barrier to gas and moisture, active packaging
5. Health care and cosmetics applications, electrospinning technology

**Full text (Max 2 pages):**

**Introduction**

The growth of the world economy and the rising global population (9 billion by 2050) mean that the Earth’s natural resources are being used up fast. Resources need to be managed more efficiently throughout their life cycle, from extraction, transport, transformation and consumption, to the disposal of waste. Several companies, and research entities have developed biobased polymer resins nevertheless further improvements are needed to provide cost effective solutions with high bio-based content and suitable performances to meet for example the target of the newly enforced laws that requires some disposable items such as tableware to be home compostable from 2017 with a minimum bio-sourced content of 30% (increasing progressively in subsequent years to 60% in 2025). The combined plastic and food sector form an important part of the EU economy, accounting for 15 million jobs (7.6% of total employment).

An overview on the availability, collection, treatment and approach to valorization of largely available agro-food waste biomass for both polymers and biocomposites production, is hereby reported with exampled of product developed in our research units, such as sustainable pots, rigid containers, active films, non-woven tissue.

**Experimental**

**Results and Discussion**

**Conclusions**

**Acknowledgments:**

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**References**

Authors (Name Initial, Surname), Title, year, Journal, Vol. Pages, DOI (if available).

Ex: M.K. Fehri, C. Mugoni, P. Cinelli, I. Anguillesi, M. B. Coltelli, S. Fiori, M. Montorsi, A. Lazzeri: Composition dependence of the synergistic effect of nucleating agent and plasticizer in poly(lactic acid): A Mixture Design study, **2016**, *Express Polym. Lett*., 10 (4), 274–288.