

Simona Neri, IRIS

BBI Workshop on Bio-Based Polymers, 29-3-2021



IRIS
TECHNOLOGY GROUP



This project has received funding from the Bio Based Industries Joint Undertaking under the European Union's Horizon 2020 research and innovation programme under grant agreement No. **790157**.



GENERAL OVERVIEW



MONTHS

36



BUDGET

4 M€



PARTNERS

12



COUNTRIES

7

GENERAL OVERVIEW



SANITARY

DIAPER

Flat die extrusion of topsheet

SAP production by polysaccharide modification

Topsheet surface texturing and antimicrobial modification

Advanced in vitro testing



COSMETICS

BEAUTY MASK

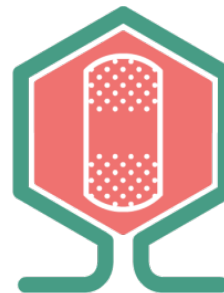
Bacterial fermentation (PHA)

Film extrusion / casting

Non woven production via electrospinning

Impregnation with natural anti oxidant nanoparticles

Advanced in vitro testing



WOUND CARE

WOUND DRESSING

Bacterial fermentation (PHA)

Non woven production via electrospinning

Fibre modification

Impregnation with natural anti oxidant nanoparticles

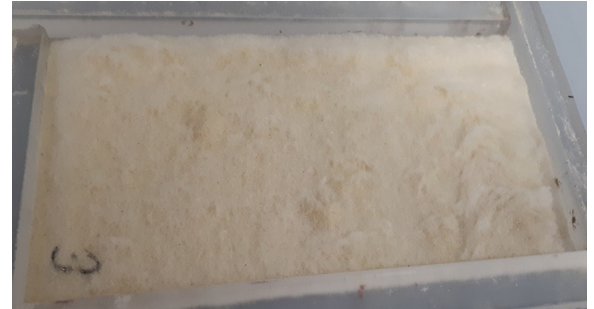
Advanced in vitro testing



#polybioskin

OBJECTIVES

To develop and validate a fully biodegradable diaper provided with a skin-compatible surface enriched with anti-microbial and anti-oxidant functionalities to prevent skin reddening and inflammation, and with a biopolymer-based superabsorbent



A close-up photograph of a person's nose and skin. A magnifying glass is held over the nose, focusing on the tip. The text "#polybioskin" is overlaid in white on the magnified area.

#polybioskin

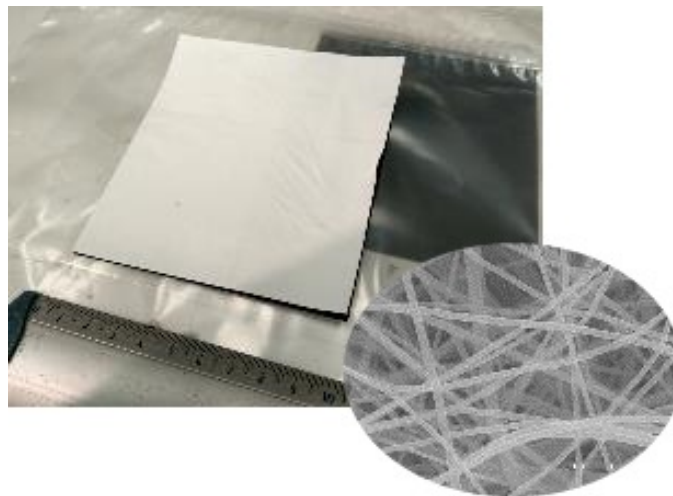
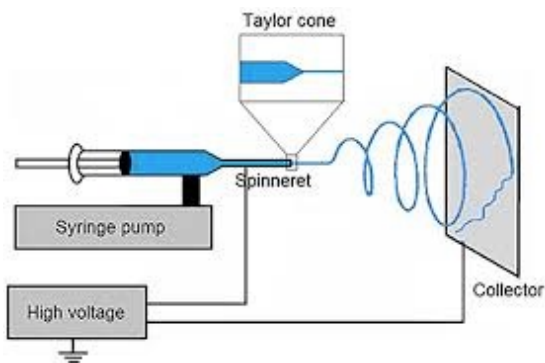
OBJECTIVES

To develop and validate fully biodegradable and bioactive facial beauty masks based on biopolymers in the form of a film or a nonwoven tissue impregnated with formulations based on natural compounds beneficial for the skin (Linked to WP6, with intermediate results coming from WP2-WP4; milestones: MS4, MS7, MS11)



OBJECTIVES

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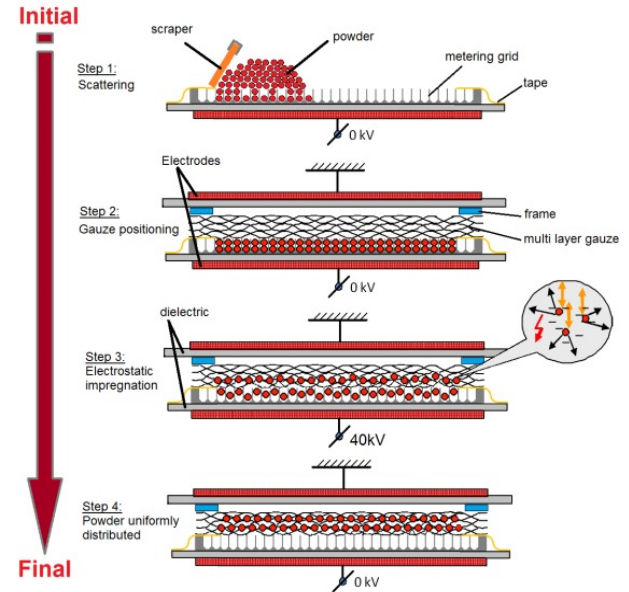
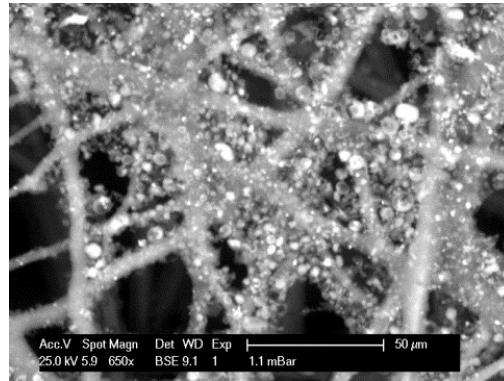




#polybioskin

OBJECTIVES

To develop a nanostructured biocompatible non-woven tissue to be used in wound dressing





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