

Funding Programme: NUCLEUS Programme PN 19 17 „Textile and Leather Industry at the 2022 Horizon – from Tradition to Sustainability and Multidisciplinarity through Research-Development-Innovation – TEX-PEL-VISION”

Project Title: Multifunctional integrate systems based on nano-composites and pharmacodynamic therapeutical agents aims for various skin diseases – acronym BIOPANTEX

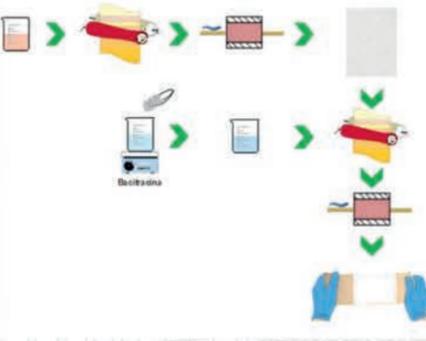
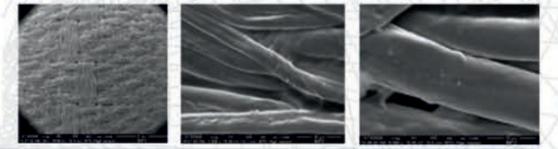
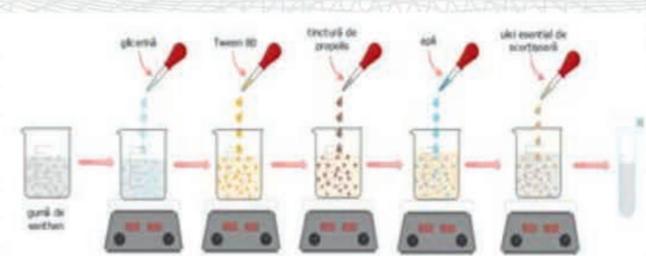
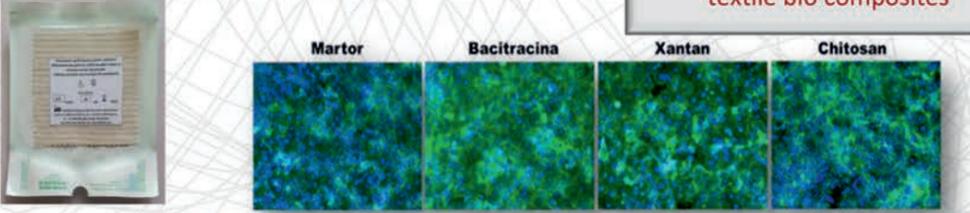
Contract No.: 19 17 ⇒ **Project code:** 19 17 03 01

Starting date: January 2019 ⇒ **Ending date:** December 2022

Coordinator: National R&D Institute for Textiles and Leather, Bucharest, Romania

Project Objective: Development of non-invasive medical devices for the treatment of inflammatory skin conditions (urticaria, eczema, topical dermatitis, contact dermatitis) and lesions caused by first-degree burns.

MAIN OBTAINED RESULTS: Bioactive dressings for topical use, with anti inflammatory and antibacterial protective properties, used for the curative therapy of various inflammatory skin diseases

Set of textile bioactive dressings laboratory demonstrators containing therapeutic compounds embedded in hydrogel type "carrier" systems and obtaining technology	 <p>Technological steps</p>  <p>Antibacterial tests – Petri images</p>  <p>SEM images of treated textile dressing</p>
Set of textile bioactive dressings laboratory demonstrators containing therapeutic compounds embedded in emulsion type "carrier" systems and obtaining technology	 <p>Synthesis steps</p>  <p>In vivo tests The appearance of rabbit skin 72 hours after the third exposure to textile bio composites</p>  <p>In vitro tests – Proinflammatory effect after 5 hours of incubation</p>
Patents request	<ol style="list-style-type: none"> 1. A/00518/14.08.2020: Textile biomaterials with anti-inflammatory effect and their obtaining process 2. A/00401/12.07.2021 : Textile bioactive dressing with anti-inflammatory properties and antibacterial protection and obtaining process

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Ministry of Research,
Innovation and Digitalization



THE TECHNOLOGIC AND BUSINESS INCUBATOR < ITA TEXCONF >

ITA TEXCONF is an entity in the infrastructure of innovation and technological transfer without legal personality, established within INC-DTP based on HG 406/2003, accredited for the textile – clothing field and re-accredited in 2020, Certificate no. 118/2020, issued by the Ministry of Education and Research.



ITA TEXCONF is part of the National Network for Innovation and Technology Transfer ReNITT and acts for the sustainable economic and social development of the textile sector, by ensuring access to technological performance, developing the innovative environment, introducing quality systems and developing human resources.

The incubator is involved in specific actions of collaboration with all 4 existing clusters in the textile field, of which it is part as an active member: Romanian Textile Concept Cluster – RTxC, ASTRICO NE, Traditions Manufacture Future and Transilvania Textile & Fashion Cluster.



Services:

- ❖ Services of sustaining textile-clothing SME competitiveness within the competitional background of the market economy;
- ❖ Services aiming at creating partnerships and financing drawing in within the projects;
- ❖ Services aiming at the product, equipment, innovation technology promoting in the field of textile-clothing, as part of scientific events (fairs, symposiums, conferences, etc.);
- ❖ Mediating contracts of technology transfer/manufacturing of products, experimental models, prototypes and specific applications for technical textile, personal protective equipment, invasive and non-invasive medical devices, special-purpose items, etc.;
- ❖ Mediating contracts in the field of investigating the textile material and product properties, within the RENAR accredited INC-DTP laboratories.

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