



Session 1 NMPB

Nano-enabled bio-based materials
Nano-pharmaceutical productions

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Univ.



TOPICS/PROJECT IDEAS

DT-NMBP-04-2020: Open Innovation Test Beds for nano-enabled bio-based materials (IA)

Nano-enabled bio-based materials' properties, Processing techniques and optimisation of process parameters, Transformation of bio-based building blocks

demonstrated in relevant industrial environments

New, ecofriendly, nano-enabled bio-based materials relevant to various applications,

SMEs

Covering the full scale of new or existing industrial and consumer products

DT-NMBP-06-2020: Open Innovation Test Beds for nano-pharmaceuticals production (IA)

Nano-pharmaceutical materials production facilities
Characterisation and quality control of nano-pharmaceuticals
Developing novel nano-pharmaceuticals

Demonstration of the scalability of the production process **DUAMER**

NMBP-38-2020: Citizens and industrial technologies (CSA)

Enhance public understanding of cutting-edge technologies and their diverse applications;
Engage citizens in dialogue and co-creation on priorities, expectations and concerns

Citizen engagement, by industry, procurers (such as cities) **KSC**

CE-BIOTEC-09-2020: Upcycling Bio Plastics of food and drinks packaging (RIA)

Expand the potential of current technologies and materials
Manufacturing and design of bio-plastics that are recyclable and/or bio-degradable

Upcycling of plastics for food and drinks packaging **SMEs**

NMBP-37-2020: Incentivising newcomers (CSA)

have not been involved in NMBP Horizon 2020 projects so far; the identification should target in particular the best talents from regions so far underrepresented in Horizon 2020 projects

SMEs,

Selcuk University

Materials technologies and Biotechnology units

- ❑ R&D
- ❑ Analysis&Testing
- ❑ Collaboration with Industry

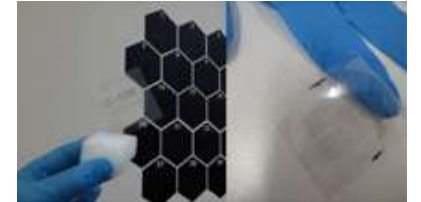


- Nanomaterials & Semiconductor Tech.
- Magnetic NPs (synthesis, patterning, functionalization, surface treat),
- CVD systems / Processing techniques (in the films, fibers, fillers, coatings, etc).
- Smart surfaces, interfaces chemistry
- Directed self assembly of nanostructures for CMOS technologies

- ✓ **Track Recors**
- ✓ **H2020-MSCA-RISE-NanoFEED** Nanostructured Carriers for Improved Cattle Feed
- ✓ **FP7-NMP**, Large Area Molecularly Assembled Nanopattern for Devices (LAMAND)
- ✓ **FP7-INFRA-2012**, The European Solar Infrastructure for Concentrated Solar Power (EU-SOLARIS)
- ✓ **FP7-SME-2012**- "Enhanced chitin-based biosorbents for drinking water purification "ChitoClean"
- ✓ **FP7-SME-2013** ""Ingredients for Food and Beverage industry from a lignocellulosic source (LIGNOFOOD)

BITAM, Erbakan Univ.

- Material Science and technologies
- bio-based materials & biotechnology
- Cell biology & genetics
- Energy
- Sensors development (NPs, QDs, biosensors etc)
- Graphene chemistry & applications



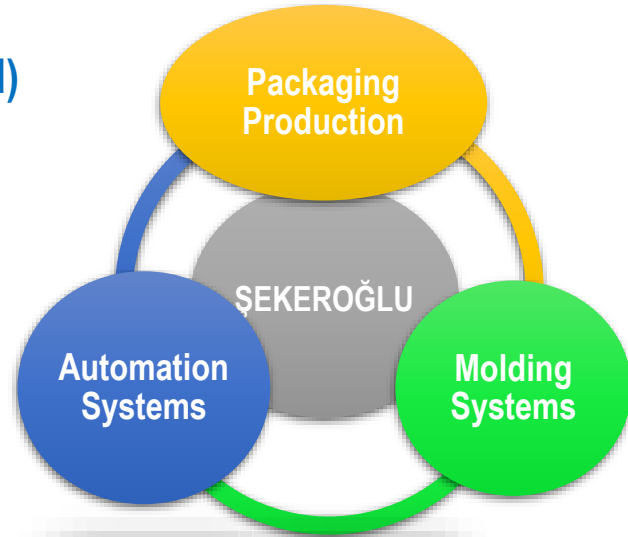
COLLABORATION INDUSTRY/MUNICIPALITY

❑ Chemical/Plastic (Bio-Plastic) Ind

❑ BioTechnology/Health

❑ Karatay/Konya Municipality

❑ Konya Science Center (KBM)



Natural Products R&D;

Natural Supplements
 Turkey's **healthy living** brand
 Nutritional Supplements
 Vitamin/Minerals
 FDA, EP, GMP Standards



Topics interested
 SC5-27-2020
 SC5-24-2020



Topics interested
 DT-NMBP-06-2020
 BIOTEC-06-2020

❑ Textile Industry



Topics interested
 CE-SC5-28-2020:



Topics interested

DT-NMBP-04-2020; CE-BIOTEC-09-2020
 NMBP-37-2020; CE-SC5-30-2020
 CE-SPIRE-07-2020



Topics interested

NMBP-37-2020
 NMBP-38-2020
 SC5-27-2020



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