Session 1 NMPB

Nano-enabled bio-based materials
Nano-pharmaceutical productions

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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
New, eco-friendly, nano-enabled bio-based materials relevant to various applications,
Covering the full scale of new or existing industrial and consumer products

demonstrated in relevant industrial environments

SMEs

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

BITAM, Erbakan Univ.

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

 ✓ 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)
COLLABORATION INDUSTRY/MUNICIPALITY

- **Chemical/Plastic (Bio-Plastic) Industry**
  - Packaging Production
  - Automation Systems
  - Molding Systems

- **BioTechnology/Health**
  - Natural Products R&D:
    - Natural Supplements
    - Turkey’s *healthy living* brand
    - Nutritional Supplements
    - Vitamin/Minerals
    - FDA, EP, GMP Standards

- **Konya Science Center (KBM)**
  - Topics interested:
    - NMBP-37-2020
    - NMBP-38-2020
    - SC5-27-2020

- **SEKEROĞLU**
  - Topics interested:
    - DT-NMBP-04-2020; CE-BIOTEC-09-2020
    - NMBP-37-2020; CE-SC5-30-2020
    - CE-SPIRE-07-2020

- **Karatay/Konya Municipality**
  - Topics interested:
    - SC5-27-2020
    - SC5-24-2020

- **Textile Industry**
  - Topics interested:
    - CE-SC5-28-2020

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