

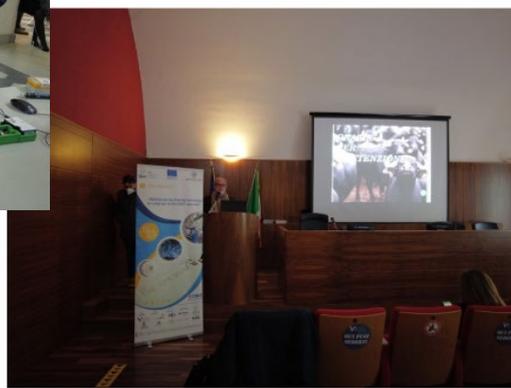
LIVING LAB

YEARBOOK

2022



Bio-Nanotechnologies
ISA-CNR



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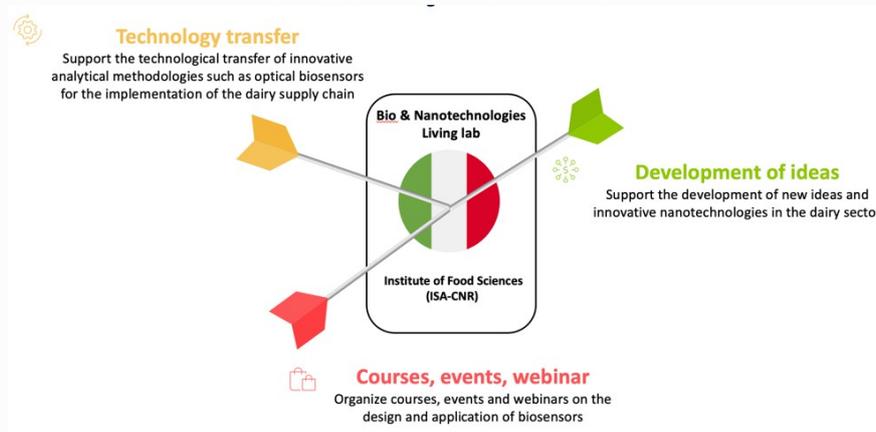
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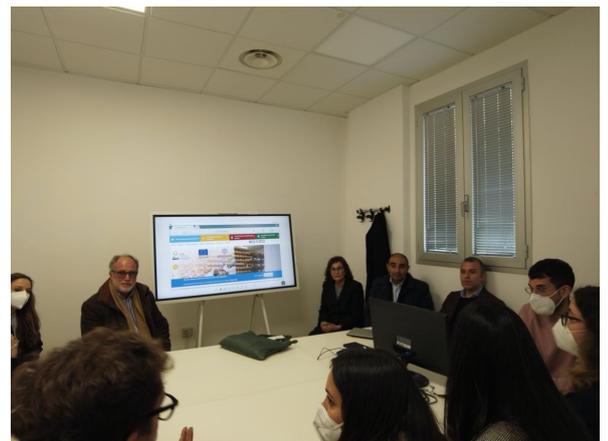
LIVING LAB'S MESSAGE



Dear Transdairy Community,

the TRANSDAIRY Italian Bio-nanotechnologies Living Lab in 2022, organized several events to bring together experts, entrepreneurs, researchers, public authorities, and industrialists in the field of the Dairy Value Chain to discuss about the activation of possible collaborations to co-generate ideas to improve production, and quality of the dairy products. The network and the interdisciplinary collaboration created has been truly inspiring. Each contribution, from researchers, industry professionals, or our esteemed partners, has played a crucial role in advancing our understanding of the dairy value chain. Some valuable contributions were presented in March 2022. The Italian partners the University Luigi Vanvitelli and ISA-CNR, organized an open day in order to present their ICT and Bio-nano technologies developed in the two living labs in the dairy sector. The open day concluded with two important focus group sessions.

LIVING LAB PHOTOS



LABORATORY FOR
MOLECULAR SENSING



Dr. Capo



Dr. Calabrese



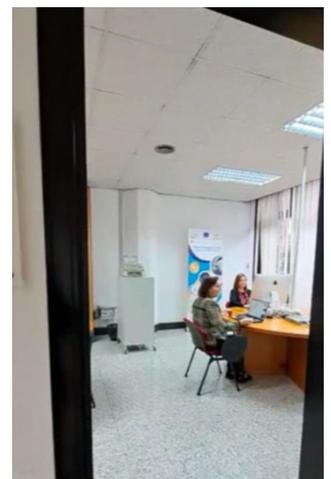
Dr. Giannattasio



Dr. Ferrara



Dott.ssa Capaccio



Dr. D'Auria



Dr. Staiano



Dr. Varriale



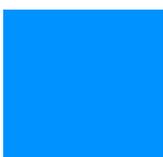
Dr. Pennacchio



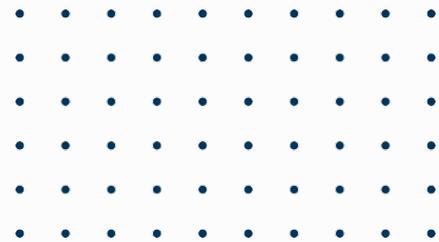
Dr. Montagnese



Dr. Di Concilio



PARTNER PROFILE



 **ISA** Istituto di Scienze dell'Alimentazione
Consiglio Nazionale delle Ricerche



ISA-CNR, Avellino



URT-ISA, Napoli

Mission

Research activities are aimed to assess food quality and safety and to investigate the relationships between food quality, food composition and health. These research lines are organized in three main science programs:

Food



Health



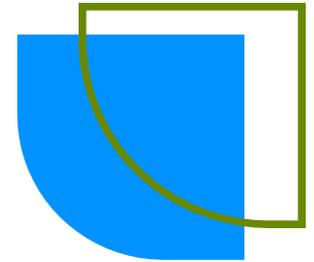
Omics



The laboratory of molecular sensing involved in the Living Lab activities belongs at this last research line

Technology transfer is a relevant aspect of the ISA mission.

EVENTS AND SEMINARS



TRANSDAIRY sets up one Living Lab to promote innovation in the Dairy Value Chain

In March 2022, the Italian partners, ISA-CNR and UCVL, organized an open day in order to present their ICT and Bio-nano technologies living labs. During this event technological demonstrations were performed, and the technologies developed in the two living labs in the dairy sector were presented. The open day concluded with a focus group session.

**TRANSDAIRY LIVING LAB'S OPEN DAY
ICT & BIO NANOTECHNOLOGY**
Commercializziamo i risultati della ricerca industriale

31 marzo 2022, ore 9:00 - 16:30
Aula Magna - Università degli Studi della Campania "Luigi Vanvitelli" (UCLV)
Dipartimento di Ingegneria - Reel Casa dell'Annunziata - Via Roma 29, Aversa

e-mail per adesioni: progetto.transdairy@isa.cnr.it

9:00-10:45 Interventi introduttivi

- **Prof. Luigi Zeni** Coordinatore del progetto TRANSDAIRY
- **Prof. Alessandro Mandolini** Direttore del Dipartimento di Ingegneria UCLV
- **Dott.ssa Valeria Fascione** Assessore con delega alla Ricerca, Innovazione e Startup della Regione Campania
- **Dott. Michelangelo Pascale** Direttore dell'Istituto di Scienze dell'Alimentazione, ISA-CNR
- **Prof. Aniello Anastasio** Direttore del Dipartimento di Medicina Veterinaria dell'Università degli Studi di Napoli "Federico II" (UNINA)
- **Dott. Luca Negrone** Coordinatore regionale Campania, Federazione Italiana Dottori in Scienze della Produzione Animale
- **PhD. Alejandra Olay** Project manager del progetto TRANSDAIRY
- **Avv. Domenico Ferrara** Capo dell'Ufficio Trasferimento Tecnologico UCLV & Trainer dei programmi formativi TRANSDAIRY

10:45-11:00 Coffee break

11:05-12 Key note speaker

- **Dott. Claudio Pasqualucci** Direttore dell'Italian Trade Agency Libano

12:05-13:10 Dimostrazioni tecnologiche

- **Prof. Aldo Minardo** UCLV: "Distributed optical fiber sensors for physical and chemical sensing"
- **Dott. Francesco Bonavolontà** UNINA: "New technologies to improve animal welfare, production and sustainability of livestock farming"
- **Prof. Nunzio Cennamo** UCLV: "IoT optical fiber biosensors for food monitoring"
- **Dott. Antonio Varriale** Ricercatore dell'ISA-CNR: "Application of optical biosensors to the detection of milk contaminants"
- **Dott.ssa Sandra Sarkis** Cofounder of Start-Up: "Natural Starter Cultures for an authentic taste of dairy products"

13:15-16:30 Light lunch

14:30-16:30 Focus groups ICT e Bio-nanotechnology

- **Dott.ssa Maria Stalano** Ricercatore ISA-CNR: "Presentazione del Living Lab in Nano Biotecnologie dell'ISA-CNR"
- **Prof. Luigi Zeni**: "Presentazione del Living Lab in ICT dell'Università degli Studi della Campania "Luigi Vanvitelli"
- Discussione tra i partecipanti
- Chiusura dei lavori



EVENTS AND SEMINARS

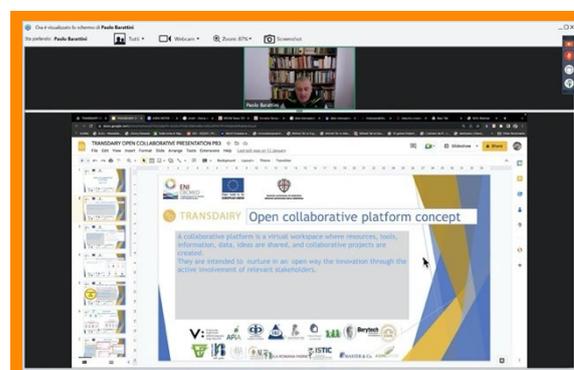


TRANSDAIRY sets up one Living Lab to promote innovation in the Dairy Value Chain

The CNR in collaboration with UCVL, from 5 to 19 December, 2022 organized the second TRANSDAIRY in Italy. The main aim of the Entrepreneurship Formative Session was to build capacity for innovators, entrepreneurs and key enabling technology (KET) providers within the Dairy Value Chain sector. By participating in these sessions Living Lab users can contribute to discuss many challenges in the dairy sector and to contribute to innovation and sustainability in this sector.



Date	Session	Topic
5th December 2022; 3-4 pm	1	Entrepreneurship and innovation
12th December 2022; 3-4 pm	2	Bio-nanotech From Lab Technology to product or service
12th December 2022; 4-5 pm	3	Application of biosensors in milk
16th December 2022; 3-4 pm	4	How to effectively present your idea (pitching)
16th December 2022; 4-5 pm	5	Business models and marketing models
19th December 2022; 4-5 pm	6	Using open collaborative platforms



EVENTS AND SEMINARS

TRANSDAIRY sets up one Living Lab to promote innovation in the Dairy Value Chain



The Tenuta Vannulo organic farm, was born in 1907, the dairy has a long history behind it and represents a real pride for southern entrepreneurs

The Higher School of Engineers of Medjez El Bab (ESIM), the associate partner Livestock and Pasture Office (OEP) offered an excellent opportunity to the Transdairy Living Labs innovators from Italy, Lebanon, Greece and Tunisia to meet in the cross border brokerage event in Tunisia, to pitch their innovative solutions, compete each other, and built cross border collaboration and networking. Two important companies DueDiLatte e Tenuta Vannulo, were involved in focus group event organized from CNR, and a company representative participated at the brokerage event in Tunisia.



Dr.Stefania Daniela Zampetta De Luca: Tenuta Vannulo : History, tradition and innovation



DueDiLatte is a startup from Pisa (Tuscany) founded in 2013 that creates, using a unique design, t-shirts and fabrics, from casein with nourishing and moisturizing properties for the skin.



TRANSDAIRY
CROSS BORDER BROKERAGE EVENT
IN BIO-NANOTECHNOLOGIES & ICT APPLIED TO DVC