



European Biotech Week: Celebrating Innovation

The European Biotech Week celebrates biotechnology, an innovative and vibrant sector launched by the discovery of the DNA molecule back in 1953.

The first European Biotech Week that took place in 2013 marked the 60th anniversary of this pivotal moment in history.

The 2020 edition will take place from the 28 September until the 04 October across the world

The event in Italy is promoted by Assobiotec, the National Association for the Development of Biotechnology, which is part of Federchimica.

More info <https://biotechweek.org/about/>



PROGRAM ITALIAN EDITION

✓ **Join the conversation!**



✓ **#EBW2020**

✓ **#GBW2020**

✓ **#Biotechweek**



@biotechweek • @AssobiotecNews
@biotechweekEU • @AssobiotecNews
@storiadalfuturo

✓ **83 EVENTS**

Abruzzo

29/09

Le biotecnologie per svelare il lato buono del cattivo

Where: Campus universitario A. Saliceti - Polo didattico Silvio Spaventa – Sala delle lauree

Red biotech

More info: nbattista@unite.it

What do we know about viruses? Thanks to the support of experts, in this event we will present the two sides of the same coin, by evaluating the impact of viruses on human health and by highlighting their role in the field of biotechnology.

Organizer: Corso di Studio in Biotecnologie dell'Università degli Studi di Teramo

Campania

29/09

The eternal struggle between man and the virus

Where: Comune di Napoli, Sala dei Baroni, Maschio Angioino – Piazza Municipio Biotech

**More info: luce.s@libero.it; vicesindaco@comune.napoli.it
marcomatarese69@gmail.com**

The scientific-cultural training course that has lasted for 8 years starts again this year, involving prestigious speakers and young students.

The VIII Edition of the European Biotech Week will be held on September 29th, in collaboration with the University of Campania Luigi Vanvitelli, the ICB Institute of Biomolecular Chemistry of the CNR and the Ceinge Scrl and will also be an integral part of the Naples Shipping program Week.

The general objective of EBW is to bring young people closer, through science, research, innovation, to the defense of the environment and life. What are the remedies that science puts in place to defend our environment and our health? Together with researchers, young students will also field ideas and research.

Program

- ❖ ore 10,00: Welcome guests
- ❖ ore 10,15: Institutional greetings:
Gaetano Manfredi, Minister of University and Research
Luigi De Magistris, Mayor, Municipality of Naples
Enrico Panini, Deputy Mayor, Municipality of Naples
- ❖ ore 10,30: Introduction:
Angela Procaccini, Deputy Mayor Staff, Municipality of Naples
Leonardo Vingiani, Director, Assobiotec-Federchimica
Carlo Silva, President, Click Utility and co-organizer of Naples Shipping

Week

- ❖ ore 11,15: Francesca Menna, Councilor for Equal Opportunities, Civil Liberties and Health of the Municipality of Naples
- ❖ ore 11,30: Stefania Petrosino, Researcher, ICB-CNR
- ❖ ore 11,50: Nicola Coppola, Full Professor, University of Campania Luigi Vanvitelli
- ❖ ore 12,10: Massimo Zollo, Full Professor, University of Naples Federico II - Principal Investigator, CEINGE Scrl
- ❖ ore 12,20: Student workshop
Each participating school will have the opportunity to present at least one work related to the topic.

Organizer: Comune di Napoli in collaborazione con l'Università degli Studi della Campania Luigi Vanvitelli, l'ICB del CNR ed il Ceinge Scrl

1/10

Doing BIOTECH: the health that will come



Where: Napoli, CNR Area della Ricerca Napoli 1, Aula Conferenze, V. Pietro Castellino 111 o Digital event

Red biotech

More info: giuliana.catara@ibp.cnr.it; giuseppe.ruggiero@ibbc.cnr.it

Sanitary emergency caused by COVID-19 pandemic strongly points out the fundamental role played by Biotechnologies as powerful strategy to counteract the virus. The event, held at Institute of Biochemistry and Cell Biology (IBBC) of CNR, aims at promoting the understanding of “Biotechnologies”, with particular regard to those related to human health.

Several real/virtual workstations will be organized as mini-research areas, where students will have the chance to follow experiments. Participants, (students, teachers, families) will also attend short seminars and discussions on specific biotechnological aspects.

The event intends to promote the understanding of the achievements and the future challenges that biotechnological development aims to reach following the «ONE Health» initiative for implementation of a circular health programme, where human, animal and environmental health are interconnected. 4 webinars e 8 tutorials will be online on October 1 2020

Program

- ❖ 10.00 Welcome by Director of IBBC Alessandro Soluri:
- ❖ 10.15 Monoclonal antibodies: a biotechnological success for human health protection. Maria Rosaria Coscia
- ❖ 10.45 Bioinformatics in the precision medicine. Francesco Russo
- ❖ 11.15 World under microscope Marinella Pirozzi
- ❖ 11.45 Computer Aided Design of Novel Treatments for COVID-19. Andrea R. Beccari

Prof. Francesca Menna, Department of health of Naples, will attend the meeting

Tutorial online

- ❖ Polymerase chain reaction in the time of Coronavirus. Alessia Ametrano
- ❖ Recombinant DNA, bacteria and biotechnologies: from the bench to bedside Annunziata Corteggio e Miriam Lucariello
- ❖ Biosensors for monitoring human and environmental health. Ferdinando Febbraio
- ❖ Nanotechnology and microbiology: the great meeting in the world of the small Paola Italiani, Daniela Melillo, Nguyen Phuc
- ❖ Innovative multifunctional enzymes: from pesticide detoxification to biocontrol of bacterial pathogens. Elena Porzio, Teresa Maria Carusone, Giuseppe Manco

- ❖ Genetic engineering and genome: biotechnologies, medicine and ethic Daniela Spano, Nina Dathan
- ❖ Exploring immune system: vaccines and organism's defence strategies. Rossella Sartorius
- ❖ Anti-SARS-CoV-2 vaccine: ongoing trials. Maria Trovato

Organizer: Consiglio Nazionale delle Ricerche -Istituto di Biochimica e Biologia Cellulare (IBBC), Napoli e Monterotondo

3/10 e 4/10

Le Biotecnologie all'epoca del Covid-19

Where: Napoli, Città della Scienza, Via Coroglio 57/104

Red biotech

More info: animazione@cittadellascienza.it; maglio@cittadellascienza.it

March 11th, 2020 is a fact that we will hardly forget: the WHO declares the status of Pandemic from Co-vid-19". It is known: it is in the greatest difficulties that man is able to bring out the best in himself and this is how purchases all over the world are working, with passion and competence, to solve this huge problem. Their associates would be worthless if they were not supported by biotechnologies. From respirators and ventilators used in intensive care; to studies on possible vaccines in laboratories, even aids "within everyone's reach" such as masks are saving millions of lives in these days of fear. We reiterate then in this "biotechnology festival" worldwide, their important role in our daily lives.

Organizer: Città della Scienza - Fondazione IDIS

Emilia-Romagna

28/09; 30/09 e 2/10

Open day del CRB

Where: Meldola (FC), Sala Tison e CRB, Via Piero Maroncelli, 40

Red biotech

More info: valentina.ancarani@irst.emr.it; stefania.pasa@irst.emr.it

CBR IRST organizes three 'open days' Monday, September 28, Wednesday, September 30 and Friday, October 2, 2020 from 9 a.m. to 1 p.m. for secondary school students with lectures, exhibits, hands-on experiments and visit to the facility.

Organizer: IRST IRCCS Centro Risorse Biologiche (CRB)

Lazio

01/10

DNA, the life's code

Where: Roma, Area della Ricerca Roma2 Tor Vergata, IFT; Consiglio Nazionale delle Ricerche (CNR), via del Fosso del Cavaliere, 100

Red biotech

More info: sandra.iurescia@ift.cnr.it; daniela.fioretti@ift.cnr.it

The Institute of Translational Pharmacology (IFT) joins the edition 2020 of the European Biotech

Week (EBW) with the event "DNA, the life's code". IFT organizes a scientific-training laboratory to tell middle and high school students how DNA is made and explain why DNA play a key role in biotech. In this laboratory experience the young students will be able to experiment how to extract DNA from fruit and see it appear in test tubes.

Organizer: Istituto di Farmacologia Traslazionale (IFT) del CNR

01 e 02/10

IFIB International Forum on Industrial Biotechnology and Bioeconomy

Where: Roma

White biotech

More info: m.bonaccorso@federchimica.it

IFIB aims at strengthening the bioeconomy network in the Euro-Mediterranean area and to promote partnerships. The focus of the Forum is biotechnology, as provider of new resources for industries.

It is organized into round-tables and sessions devoted to specific sub-sectors of industrial biotechnology: bio-based industries, agro-food, energy, environment policies on industrial biotech and bioeconomy, involving international speakers coming from key sector's players. The workshops will also include a session dedicated to investments and one dedicated to clusters.

For more info, program and registration: <https://ifibwebsite.com/>

Organizer: Assobiotec-Federchimica, SPRING and InnovHub. The edition 2020 is endorsed by ITA (Italian Trade Agency). Co-organizers Lazio Innova and Regione Lazio.

Lombardia

25 e 26/09

Meet Me Tonight

Where: Varese, Venerdì 25 settembre - Biologia e Biotecnologie in un banco: Università degli studi dell'Insubria, sede di BA, via Manara 7; sabato 26 settembre- Biologia e Biotecnologie in Piazza: piazza San Giovanni

Red biotech

More info: marzia.gariboldi@uninsubria.it; emanuela.marras@uninsubria.it

Within the framework of the European event Meet Me Tonight – la notte dei ricercatori, students will be driven along a path of scientific experiments carried out by the research groups working at DBSV, both at the University of via Manara 7 (Friday 25 September Morning and afternoon), and in piazza San Giovanni (Saturday afternoon).

Some example:

- ❖ Molecular biology applied to everyday things: DNA from fruits;
- ❖ Microcosm: What lives in water
- ❖ Miss Cell: eucariotic cells from models to microscope

Organizer: DBSV – Sede di Busto Arsizio in partnership con Comune di Busto Arsizio, Museo del Tessile di BA

30/09

We need biotechnology!



Where: se l'emergenza COVID-19 sarà rientrata l'evento si svolgerà a VARESE, Università dell'Insubria, Via J.H. Dunant 3, Aula Magna Granero Porati - In caso contrario l'incontro si svolgerà utilizzando risorse telematiche

Red, green and white biotech

More info: candida.vannini@uninsubria.it; marzia.gariboldi@uninsubria.it

The future of Biotechnology explained to the new generations (high school and university students). Speakers from academia, social partners and industry players (University, ANBI, Assobiotec, pharma biotech company, green biotech company) will illustrate their educational professional training. An overview of the university courses and professional challenges offered today in the Insubria region, in Italy and in Europe, will be also presented.

Organizer: Dipartimento di Biotecnologie e Scienze della Vita- Università dell'Insubria

Red, White & Green Biotech: the colors of veterinary biotechnology

Where: in presence in Lodi, University Campus, remotely digital event Zoom platform or streaming (speakers in presence in the multimedia classrooms of Lodi)

Red and green biotech

More info: gabriella.tedeschi@unimi.it; federica.cheli@unimi.it

The contribution of the Degree Course in Veterinary Biotechnological Sciences will be presented in the context of Red, White and Green Biotech. Speeches by speakers for the six areas of competence of the CdL: Techniques and models for research, One Health: diseases and diagnostics, Omics Sciences, Biotechnologies for reproduction, Feed/Food safety and security, Sustainable development and environment. In-depth flash on specific issues identified within the areas of competence.

Organizer: Corso di Laurea Scienze Biotecnologiche Veterinarie Università degli Studi di Milano in partnership con CRC Innovation for Well-being and Environment (I-WE) UNIMI

1/10

Video: Veterinary biotechnology: studying and doing research for a biotech future

Where: in presence in Lodi, University Campus, remote digital event

Red and green biotech

More info: gabriella.tedeschi@unimi.it; federica.cheli@unimi.it

Videos: interviews with teachers, students, stakeholders; virtual classroom and biotech lab visits; thematic videos; what work with veterinary biotechnology?; the biotech world and Italian biotech; biotech fake news; ...

If in presence: videos and open doors open at the biotech labs at Lodi University.

Organizer: Corso di Laurea Scienze Biotecnologiche Veterinarie Università degli Studi di Milano in partnership con CRC Innovation for Well-being and Environment (I-WE) UNIMI

Technology Forum Life Science 2020

Where: Milano, Human Technopole

Red biotech

More info: vera.scuderi@ambrosetti.eu

Life Sciences and in particular biotechnology and the pharmaceutical and medical device sectors, represent one of Italy's hi-tech sectors that gives most cause for hope, with high growth potential in the medium-to-long term. Several major results have been achieved in recent years, even if there remains a great deal of work still to be done to make this sector the real driver for Italy's economic growth and competitiveness.

The Life Sciences Technology Forum brings together the key stakeholders in government and institutions, business, finance and research involved, in a variety of ways, in research and innovation in Life Sciences. Their goal is to provide a contribution that enriches the discussion, as well as concrete proposals for the growth of the ecosystem.

Organizer: The European House Ambrosetti

2/10

Biotechnology: a tool for the improvement of human life!

Where: se l'emergenza COVID-19 sarà rientrata l'evento si svolgerà a VARESE, Università dell'Insubria, Via O. Rossi , didattico padiglione Morselli – In caso contrario l'incontro si svolgerà utilizzando risorse telematiche

Red, green and white biotech

More info: candida.vannini@uninsubria.it; marzia.gariboldi@uninsubria.it

At the beginning of the first year courses of the Biotechnology Diploma, speakers from the academia and from industry will introduce the students to the fascinating world of research, reporting their activity in the different fields (white, green and red biotechnology). In the

afternoon a guided tour to research laboratories of the Biotechnology and Life Science Department of University of Insubria will be also possible for students.

Organizer: Dipartimento di Biotecnologie e Scienze della Vita- Università dell'Insubria

Tbd

OpenZone Talk

Where: Bresso (Milano), OpenZone, Via Meucci 3

Red biotech

More info: antonio.modola@zambongroup.com

The OpenZone scientific campus will host a talk on the subject of biotechnologies and their role in the Italian innovation ecosystem. Biotech will be a flywheel for economic recovery and a sector of excellence to position Italy among the countries most able to attract investments.

The OpenZone Talks are periodic meetings with the protagonists of innovation and with international experts in the scientific, economic, and institutional fields. The underlying topic of this series of events, which began in 2018, is innovation understood in all its forms: from science to workplaces of the future, from information to the evolution of the doctor-patient relationship. The event will be aimed at stakeholders from the scientific, political, institutional, and media sectors.

Organizer: OpenZone

Puglia

28/09

Lievitiamo nella ricerca

Where: Bari, Campus Universitario, Via Orabona

Red, green and white biotech

More info: nicoletta.guaragnella@uniba.it

Short lectures on the use of yeast for biomedical research and industrial application. I will be also carried out a visit of the laboratories with the active participation of the student to the experiments

Organizer: Dipartimento di Bioscienze, Biotecnologie e Biofarmaceutica Università degli Studi di Bari Aldo Moro in partnership con Istituto di Biomembrane, Bioenergie e Biotecnologie

28/09

LEbiotech: invito a Lecce biotecnologica

Where: Lecce, Capus ECOTEKNE, Aula D12

Red, green and white biotech

More info: tiziano.verri@unisalento.it

On the first day, presumably on 28th/09 an event structured as a scientific conference will be held throughout the day. Master students, graduate students and young doctors will present their research and present their career experiences.

Two external speakers will complete the program. It will be open to all and organized to have an important role of incoming university orientation for high school students and “in itinere” orientation for Unisalento’s students. On 2nd/10 the activity will continue with an event including scientific seminars, presentation of startups and biotechnology companies closed by a round table with biotechnology-related stakeholders.

Organizer: Organizzatore: Consiglio didattico dei corsi di laurea in Biotecnologie e Biotecnologie Mediche e Nanobiotecnologie UNISALENTO, CNR-IFC, CNR-ISPA, CNR-Nanotec e CBN-IIT (Center for Biomolecular Nanotechnologies dell'IIT)

29/09

Stay Biotech. Racconti biotecnologici

Where: Bari, Dipartimento di Bioscienze, Biotecnologie e Biofarmaceutica

White biotech

More info: isabella.pisano@uniba.it

Stay biotech is a reading project in field of biotechnology in everyday life and aimed at students aged 9-12. Each module of the project will be articulated in 3 sessions of about 20 minutes for each one.

- Reading session of a story in a biotech topic in field of environment, agri food or health
- Session of open or guided questions
- di domande aperte e/o guidate al fine di creare la massima partecipazione
- Sessione di attività di gruppo in cui i partecipanti realizzeranno un cartellone nel quale riassumere le proprie conclusioni con disegni, parole, # o slogan

Organizer: Dipartimento di Bioscienze, Biotecnologie e Biofarmaceutica Università degli Studi di Bari Aldo Moro

1/10

Biotech Cafè. Caffè scientifici

Where: Bari, Dipartimento di Bioscienze, Biotecnologie e Biofarmaceutica, Aula Magna, Via Orabona 4

Red, green and white biotech

More info: isabella.pisano@uniba.it

The department of Bioscience, biotechnology and biopharmaceutics show up at the citizen community through a cycle of seminars illustrating educational and research activities characterized by a strong multidisciplinary. By reviewing different scenarios in field of biotechnology for health, agri-food biotechnology and industrial biotechnology a virtual laboratory based on scientific and technological knowledge and innovation of the valorization, management and sustainability of biological system will be created

Organizer: Dipartimento di Bioscienze, Biotecnologie e Biofarmaceutica Università degli Studi di Bari Aldo Moro

2/10

B-FACTOR: alla scoperta del fattore X nel mondo delle biotecnologie

Where: Bari, Dipartimento di Bioscienze, Biotecnologie e Biofarmaceutica, Labobiotec, Via Fanelli

Red, green and white biotech

More info: isabella.pisano@uniba.it

According to the Oxford English Dictionary, X-factor is a variable that in a given context can influence the outcome. B-factor propose a day of meetings and debates aimed at showing the different X-factors of biotechnology describing the qualities that make them special in everyday life as well as in the emergencies of recent years. During the day several session will be organised for different target groups: students, families, universities and social partners. The tools of the day will be interviews, surveys and exhibitions, all presented by the students of biotechnology of the different biotech degreecourses of University of Bari.

Organizer: Dipartimento di Bioscienze, Biotecnologie e Biofarmaceutica Università degli Studi di Bari Aldo Moro

Biotecnologie in zootecnia; se non ora quando?

Where: Valenzano (Bari), Dipartimento di Medicina Veterinaria. SP 62 per Casamassima km 3

Green biotech

More info: vincenzo.landi@uniba.it

Everyone knows the saying “arms stolen from agriculture” what if we sad that our agro-farm sector lacks intelligence and skill and not arms? We want to stimulate the discussion between professional (breeders, contractors, researchers, prducers but also consumers) on the role of biotechnology in Italian livestock as an instrument of innovation but also a bearer of sustainability. We will talk about how biotechnology can bring young people closer to this sector, not yet socially accepted. Finally, we will try to refute the negative myths related to the combination of science and animal husbandry.

Organizer: Dipartimento di Medicina Veterinaria Università degli Studi di Bari Aldo Moro

Sardegna

Dal 28/09 al 2/10

Il mondo delle Biotecnologie: viaggio dentro i laboratori biotech

Where: Oristano – Centro Laboratori Consorzio UNO, viale Diaz 30

Red, green and white biotech

More info: l'evento è aperto a un numero massimo di 250 studenti. Per partecipare è necessaria la registrazione gratuita. Iscrizioni: orientamento@consorziouno.it

Several fields of our lives have been changed by Biotechnologies. Do we know all of them? Let's discover how biotech can be used to get useful products.

During this event, biotech sectors will be unraveled, and then three laboratory experiences will lead the students from theory to practice:

1. DNA extraction (red biotech)
2. Yeast and fermentations (green biotech)
3. Delactosated milk production (white biotech)

Organizer: Consorzio UNO di Oristano (Promozione Studi Universitari) in partnership con Università di Cagliari – Corso di Biotecnologie

Le Biotecnologie per la Diagnosi ed il Trattamento del COVID-19

Where: Palermo, Area della Ricerca, Aula Cocchiara, via Ugo La Malfa 153

Red biotech

More info: marta.dicarlo@irib.cnr.it

Diagnostic tests during and after Coronavirus infection

Dr. Alessandra Longo Ricercatore IRIB-CNR

The COVID 19 pandemic, caused by the new Coronavirus SARS-CoV-2, resulted in the need for diagnostic tests during and after infection. During the seminar, we will describe both the most important test for the determination of an ongoing infection, such as the nasopharyngeal swab, based on Real-time RT-PCR assays, and the serological test, for the research in the blood of specific antibodies against SARS-CoV-2, useful to estimate the immunization in subjects who have contracted the virus.

Trials for the treatment of COVID-19: development of a vaccine against COVID-19

Dr. Valeria Longo Ricercatore IRIB-CNR

The COVID-19 disease, caused by the SARS-CoV-2 has spread rapidly around the globe. Through biotechnologies many research groups are developing vaccines against the SARS-CoV-2. Here we describe the different molecular strategies that lead to the production of safe vaccines inducing "immunological memory" and the different phases of the clinical trial necessary to evaluate the effects of the new vaccine on populations.

And....as special guest the "Viruloso " muppet, a fanny way to explain SARS-CoV-2 transmission mode, preventive measures and diagnostic tests.

By Luca Caruana IRIB-CNR

Organizer: IRIB Sede Palermo

Toscana

28/09

Le biotecnologie al servizio dell'ambiente e del risanamento dei suoli

Where: Pisa, Dipartimento di Biologia UniPI c/o giardino botanico sede DND Via S.Cannizzaro 5

White biotech

More info: cosimo@dndbiotech.it

L'evento presso la sede di DND vedrà l'apertura e presentazione del nostro impianto pilota (Robonova), ovvero un drone di terra per la decontaminazione di matrici inquinate + presentazione di un prototipo (barriera permeabile bio reattiva) per il trattamento degli acquiferi

L'evento presso il dipartimento di biologia vedrà l'apertura dei laboratori e la presentazione dei tool di metagenomica utilizzati

Organizer: DND srl in partnership con Università di Pisa, dipartimento di Biologia

2/10

I fumetti per spiegare la scienza

Where: Siena, presso Toscana Life Sciences, Sala Auditorium, Strada del Petriccio e Belriguardo 35

Red biotech

More info: l.sensini@toscanalifesciences.org

The Toscana Life Sciences Foundation presents a scientific communication project focused Coronavirus Sars – Cov-2 (in particular on human monoclonal antibody discovery against the virus). The project will be developed in collaboration with a high in Siena and the students' group will be supported by the research team at TLS Foundation regarding the editorial contents.

Organizer: Toscana Life Sciences Foundation

tbd

Porte aperte in biobanca

Where: Siena, U.O.C. Genetica Medica, Policlinico S. Maria alle Scotte, Via Bracci 1

When: mattina

Red biotech



Tipologia di evento: porte aperte

Evento per: scuole secondarie di 1° e 2° grado, Università, Istituzioni, Addetti ai lavori, Pazienti, Famiglie, Giornalisti

More info: biobancasiena@gmail.com

Illustration of laboratories that host the Biobank with description of the steps involving the biological sample from the arrival to the storage in the biobank. Description of the type of stored samples and their use in research

Organizer: Genetic and Covid-19 Biobanca di Siena

Biotecnologi per un giorno

Where: Polo scientifico di Sesto Fiorentino (FI), Università degli studi di Firenze o evento virtuale

White biotech

More info: paola.turano@unifi.it

The Scientific Campus of University of Florence open the doors to reveal the various shades of the biotech world: proteins, drugs, nanoparticles and more...During the day the students will be guided through different labs, experiencing the biotech research reality and will meet professors and young researchers asking question about opportunities and difficulties of studying biotechnology.

Organizer: Corso di Laurea Magistrale in Biotecnologie Molecolari Università degli Studi di Firenze

Eventi digitali

Dal 28/09

Biobanche digitali - Esperienza virtuale alla BCU Imaging Biobank

Where: Digital event

Red biotech

More info: info@biocheckup.net

This virtual event consists in a presentation of BCU Imaging Biobank (BCU-IB), a service unit repository of medical images and clinical data. BCU-IB will offer interactive and digital contents, in order to let users discover the biobank and meet this technology. To deal with the COVID-19 emergency, the event will be held virtually.

Organizer: Bio Check Up Srl and BBMRI.it

La Biobanca del CRESM al servizio della ricerca scientifica di qualità sulla Sclerosi Multipla ed altre patologie neurologiche ed autoimmuni.

Where: Digital event

Red biotech

More info: biobanca.cresm@sanluigi.piemonte.it

This Webinar aims at describing the organization and the activities of the BB-CRESM and is presented by Dr Bertolotto and by the staff of the Biobank. The method of participation and access policy of the Biobank will be described as well. The Webinar will also explain to the audience (patients, scientists and other community bodies) the importance of Biobanking in clinical research.

Organizer: Biobanca del CRESM (Centro di Riferimento Regionale per la Sclerosi Multipla), AOU San Luigi Gonzaga di Orbassano, Torino in collaborazione con BBMRI.it

Presentazione delle Biobanche del Centro di Risorse Biologiche

Where: Digital event

Red biotech

More info: domenicocoviello@gaslini.org

During the "European Biotech week" an event will be available online which provides the virtual presentation of the Biobanks of the Biological Resources Center of the IRCCS Pediatric Institute Giannina Gaslini. In this historical period in which research increasingly needs biological samples to study the genetic component of diseases, it is important that the population and health professionals are informed about the existence of biobanks and their usefulness. A video will be produced through which it will be possible to understand what the main stages of biobanking are and their use by researchers.

Organizer: Centro di Risorse Biologiche IRCCS Istituto Pediatrico Giannina Gaslini

Il workflow e I punti di forza della biobanca BBIRE

Where: Digital event

Red biotech

More info: simona.dimartino@ifo.gov.it

The event includes a virtual and interactive activity during which users will have the opportunity to understand the most critical moments of biobanking activity. To deal with the uncertainties caused by the recent COVID 19 pandemic, the Biobank has decided to open its doors, virtually, to all those who want to learn better how the biosamples have to be managed

Organizer: IRCCS- Istituto Nazionale Tumori Regina Elena – Biobanca BBIRE (Roma) and BBMRI.it

Neuromed Biotech Week 2020

Where: Digital event

Red biotech

More info: mbdonati@moli-sani.org

The event includes a virtual and interactive webinar during which users will have the opportunity to understand the critical steps of biobanking for biomedical research.

*Organizer: Centro Ricerche I.R.C.C.S. Neuromed, Via dell'Elettronica, 86077 Pozzilli (IS)
Neuromed Biobanking Center and BBMRI.it e altre biobanche del territorio*

Visita virtuale alla biobanca

Where: Digital event

Red biotech

More info: biobanca.ricerca@opbg.net

During the European Biotech week, it will be possible to have a virtual visit into the Biobank of the Bambino Gesù Pediatric Hospital. The Biobank has decided to host a virtual tour of the facility using an interactive and engaging tool, through which it will be possible to see the main phases of the biobanking activity.

Organizer: Biobanca di ricerca dell'Ospedale Pediatrico Bambino Gesù (Roma)

Visita virtuale alla biobanca

Where: Digital event

Hours: all the day

Red biotech

More info: biobanknetwork@telethon.it

During the European Biotech week, it will be possible to learn more about rare disease biobanks and the informed consent for storing the biological material into a biobank with a particular focus on returning results to biobank participants.

The virtual event will consist of a video presentation of the topic shared on network website and social media channels. Interactive participation will be possible through instant messaging and/or comments.

Organizer: Telethon Network of Genetic Biobanks

Visita virtuale alla biobanca

Where: Digital event

Red biotech

More info: daveb@csavri.unifi.it

During the European Biotech week, it will be possible to have a virtual visit into the daVEB Biobank. The Biobank has decided to host a virtual tour of the facility using an interactive and engaging tool.

Organizer: da Vinci European Biobank – daVEB (Università degli Studi di Firenze) and BBMRI.it

FUTURE LABS: Malattie Rare

Where: Digital event

Red biotech

More info: segreteria@uniamo.org

3 E-workshops to figure out together the next developments in rare diseases regarding some of the hottest issues at stake (Extended Newborn Screening, HTA, Advanced Therapies). The outputs of the e-workshops will be shared in order to help the stakeholders to mutually compare the scenarios for the future and to shape the path to collectively and successfully reach the target.

Step 1: making the issue crystal clear: let's nail down the issue and think through its implications.

Step 2: which idea of future? Together the participants will write down using key words and a few lines their own idea of the developments of the issue in the next future. The host will constructively highlight the potentials and contradictions implied by the different scenarios emerged.

Step 3: cast your vote for best scenario: participants will be asked to take a poll in order to make one scenario stand out, the one that will likely gain the majority of votes.

Step 4: wrap up. Let's understand the best scenario and analyze it by the composition of its voting basis.

Organizer: UNIAMO FEDERAZIONE ITALIANA MALATTIE RARE ONLUS

Dal 28/09 al 2/10

Bio Pharma Day

Where: Digital event

Red and white biotech

More info: g.corbetta@jobadvisor.it

Bio Pharma Day is the exclusive career day organized by Jobadvisor in Milan, Florence and Rome, entirely dedicated to companies, research institutions, recruitment agencies and educational institutions in the medical, biomedical, healthcare, pharmaceutical and biotechnological sectors. Bio Pharma Day is addressed to students, graduates and young professionals with a biomedical, biotechnological, pharmaceutical, medical and healthcare, medical and biomedical engineering background coming from the main Italian universities.

Organizer: Jobadvisor

Discovery Lab: VII edizione

Where: Digital event

Red biotech

**More info: a.kisslinger@ieos.cnr.it; antonella.zannetti@ibb.cnr.it;
barbara.salvatore@ibb.cnr.it**

Discovery Lab is an initiative to promote the dissemination of scientific knowledge and bring students closer to scientific research. The program includes interesting seminars on results and the most advanced technologies in biomedical research.

28th September

Introduction

Maria Romano

Viruses and Bacteria: friends or foes?

Flavia Squeglia

Biotechnologies lead the fight against Coronavirus.

Haritha Asha

A journey from thiruvananthapuram to napoli

29th September

Introduction

Maria Grazia Caprio

New Frontiers in Diagnostic Imaging.

Ferruccio Bonino

The non-invasive measure of intrahepatic fat, a *mirror of health*

Maria Agnese Pirozzi

Biomedical signals. How can we read inside us?

30th September

Introduction

Annachiara Sarnella

Adapt to survive: as a cancer cell evolves

James Green

Quantum mechanics calculations in real life

Adriano Tramontano

Software & Hardware architectures for remote monitoring

1st October

Introduction

Monica Fedele

From mice to human: a round trip

Ilaria Cimmino

Environments and human health

Paola Ungaro

Epigenetic modifications and obesity outcomes

2nd October

Introduction

Vittoria D'Esposito

Stem cells: past, present and future

Mario Galgani

The intricate world of the immune system

Organizer: Istituto per l'Endocrinologia ed Oncologia Sperimentale "G. Salvatore" (IEOS) e Istituto di Biostrutture e Bioimmagini (IBB) del Consiglio Nazionale delle Ricerche (CNR)

Get your plasmid: experience an interactive virtual lab!

Where: Digital event

More information and reservations: scuola@fondazionegolinelli.it Tel. 0510923208

Bacterial transformation is a molecular biology technique used to introduce genetic material into bacterial cells. Plasmids are generally used: they are circular, double-stranded DNA molecules in which genes of interest are inserted through recombinant DNA techniques. Transformed cells express new features if compared to the initial population: they can produce large quantities of a protein product or resist the action of antibiotics, which would normally cause their death, and even become fluorescent. This technique is used to study how complex gene systems work in simple models such as bacteria. After an introduction on bacterial transformation a practical activity follows. Participants will experiment a complex procedure for plasmids extraction known as MINIPREP using an interactive virtual laboratory. As in a real lab students will take solutions with micropipettes, choose the right option to complete each step and get the plasmid DNA to the right purity used for bacterial transformation. At the end of the activity, further research material on biotechnological applications of bacterial transformation and a final self-assessment test will be provided.

Organizer: Fondazione Golinelli

28/09

Programmable Medicines and Digital Biotechnology

Where: Digital event

Red biotech

More info: giuseppe.recchia@davincidtx.com;

massimo.vergnao@maverickconsulting.com

What is a medicine? The meaning and role of "medicine" in medical therapy has changed over time, in a constant updating with the development of knowledge and technology. Today medical therapy is in a rapidly evolving phase. After the eras of chemical and biotechnological drugs, with advanced therapies and digital therapies we have now entered the new era of programmable medicine. These are medicines that despite having a different active ingredient (genes, cells, software) share the fundamental characteristic of being designed and programmed for specific patients, providing advanced personalization of therapy. Digital Therapeutics (DTx) are therapeutic interventions, indicated for a specific disease, designed to modify the behavior of a patient in order to improve the outcome of her / his disease.

In particular, they are developed through randomized controlled clinical trials, authorized for use in clinical practice by regulatory bodies, submitted when necessary for reimbursement to HTA bodies, reimbursable by public or private health services, prescribed by the doctor. The evolution of technology in support of medical therapy is associated with an evolution of the interaction with the patient and of the company that develops it. With advanced therapies and digital therapies, the role of the patient is becoming more and more active, both in the preparation and monitoring phase of the therapy and the "expert patient" represents the most advanced expression of this role. Participatory development represents the reference

for the development of programmable medicines, where the patient is no longer a "user" of already developed therapies or a prototype "tester" in an advanced stage of development, but becomes a "partner" involved in the same way as researchers and developers from the early stages of the research and development process.

Today more and more companies involved in the research and development of programmable medicines, advanced therapies and digital therapies, are Startups, founded in close connection with academia, researchers and patients to develop specific therapies in response to emerging or mature needs.

With the development of Digital Health and the entry of software into medical therapy, today we are witnessing the development of Digital Biotechnology Companies, which use biotechnology research methods for the development of algorithm-based medicines.

The Startup needs a close collaboration with the biotechnology and pharmaceutical company, often the therapy is based on the combination of several therapeutic methods and the combination of drug and digital therapy is the most advanced expression of that. Such collaboration is possible only through new collaborative models, able to overcome the traditional ways between supplier and client and allow the development of a new partnership, with the exclusive aim of bringing to the patient - also through programmable medicines - the health solutions to his/her illness.

Program

- ❖ 15.00 European Biotech Week 2020 – - The era of Digital Biotechnology Companies is beginning ... G Recchia; M Vergnano
- ❖ 15.10 What is a medicine? The Programmable Medicines G Recchia
- ❖ 15.30 Advanced Therapies - Where are we? Where could we go? What does Italy do? F Ceradini
- ❖ 15.50 Programmable Medicines - What are Digital Therapeutics? M Beccaria
- ❖ 16.10 Which collaborative models between startup and companies for the development of digital health technologies? B Mandolini; F Modugno
- ❖ 16.30 Expert Patient in Digital Health Technologies and Participatory Development of Programmable Medicines S Grigolo
- ❖ 16.50 Digital Biotechnology Companies and Programmable Medicine... Who's investing? How does Italy invest? P Barbanti
- ❖ 17.10 Round Table and Discussion
- ❖ 18.00 Conclusions G Recchia; M Vergnano

Faculty

- ❖ Paolo Barbanti - Pharma & Biotech Advisors, Milan - Italy
- ❖ Massimo Beccaria - daVinci Digital Therapeutics, Milan - Italy
- ❖ Francesca Ceradini - Osservatorio Terapie Avanzate, Rome - Italy
- ❖ Sabrina Grigolo - EUPATI, Turin - Italy
- ❖ Bhima Mandolini - Politecnico, Milan - Italy

- ❖ Filippo Modugno - Politecnico, Milan - Italy
- ❖ Giuseppe Recchia - daVinci Digital Therapeutics, Milan - Italy
- ❖ Massimo Vergnano – Argon Global Healthcare, London - UK

Organizer: Da Vinci Digital Therapeutics e Argon Global Healthcare

28 e 29/09

L'emergenza: cosa fanno le biotecnologie (prima, durante e dopo)

Where: Digital event

Red and white biotech

More info: laura.cipolla@unimib.it

Health emergency due to Coronavirus is highlighting the key role of biotechnology on several aspects of our society, including human health.

We propose two interrelated webinars focussed on the role of biotechnologies in solving the current health emergency and the need to integrate the technical aspects with societal challenges such as economic sustainability, society and health institute engagement and big data management.

In particular, the two webinars will be focussed on:

1. Biotechnology and vaccines: innovation, development, quality and security compliances, market access.
2. Biotechnology, diagnostics, institutional, economical and societal challenges, data management.

During the event, the award ceremony of the contest "BiotechJob "Health emergencies: Biotechnologists job (before, during and after) will take place promoted by the Italian National Association of Biotechnologists (Associazione Nazionale Italiana Biotecnologi (<http://www.biotecnologi.org/tag/biotechjob/>)).

Organizer: Università degli Studi di Milano - Bicocca, Dipartimento di Biotecnologie e Bioscienze, Università degli Studi di Milano - Bicocca, Dipartimento di Scienze Economico-Aziendali e Diritto per l'Economia Di.SEA.DE, BioPharma Network, Associazione Nazionale Biotecnologi Italiani (ANBI)

29/09

The crime of misinformation: at dinner with GMOs

Where: Digital event

Green biotech

More info: indiscienza.collegioghislieri@gmail.com; rettorato@ghislieri.it

Speakers: Profs. Alma Balestrazzi and Anca Macovei, Plant Biotechnology professors at the Biology and Biotechnology Department of University of Pavia

Organizer: Associazione Ghislieri Scienza in partnership con Collegio Ghislieri

Il ruolo della biobanca dell'Istituto dei tumori di Bari per la ricerca relativa al COVID-19

Where: Digital event

Red biotech

More info: biobanca@oncologico.bari.it

The event has the aim to illustrate the important role of the biobank in the management and the storage of biological sample collected from individuals with high risk exposure to COVID-19 for future studies

Organizer: Biobanca Istituzionale IRCCS Istituto Tumori Giovanni Paolo II Bari

30/09

Food Sustainability: sustainable use of agricultural resources

Where: Digital event

Green biotech

More info: indiscienza.collegioghislieri@gmail.com; rettorato@ghislieri.it

Speaker: Dr. Enrico Doria, researchers at the Pharmacology Laboratory of Biology and Biotechnology Department, University of Pavia

Organizer: Associazione Ghislieri Scienza in partnership con Collegio Ghislieri

Fake news: we learn to recognize them to avoid them

Where: Digital event

Biotechnology

More information and reservations: scuola@fondazionegolinelli.it Tel. 0510923208

Information is one of the central themes of the contemporary world, just distinguishing a true news from a fake one is increasingly difficult and at the same time increasingly important. The network and social networks have made false news an increasingly frequent, dangerous phenomenon with a greater social impact than in the past. The recent experience limited to the Covid-19 emergency has shown us even more clearly that we need to acquire skills and tools to orient ourselves in the complicated world of the image, especially online. The webinar, through interactive activities and brainstorming moments, to receive participants to become familiar with the news, especially with the scientific ones. The analysis of some representative examples of false news released during the Covid-19 emergency, will provide participants with many food for thought to learn how to recognize it.

Organizer: Fondazione Golinelli

A walk in your genome

Where: Digital event

Red biotech

More info: teresa.colombo@cnr.it

The activity proposes a virtual tour of the human genome by using the UCSC Genome Browser (<https://genome.ucsc.edu/>). We will walk around on our chromosomes, in sort of a google Maps of our genome. We will pick up some gene recently covered in newspapers or tv shows, and will see where they are located and what they look like. We will have chance to disclose many curiosities about our genome. In a video-guided lab (max 50, by reservation), participants will extract their own DNA.

Organizer: CNR - Istituto di Biologia e Patologia Molecolari (IBPM-CNR)

ELIXIR-IT infrastructure for biological data and bioinformatics, and its services in support of COVID-19 emergency

Where: Digital event

Red and white biotech

More info: f,deleo@ibiom.cnr.it; angelo.facchiano@isa.cnr.it

The event is an opportunity for ELIXIR-IT to present its platforms and skills, made available for the study and characterization of the viral genome and its evolution, fundamental for supporting epidemiological studies on Covid-19 and for drug therapies designed to combat effectively Sars-CoV-2. The Italian node of the European infrastructure, ELIXIR-IT, includes 23 partners as research institutes, universities and technological institutions, and is coordinated by the National Research Council. ELIXIR-IT played an important role in the Covid-19 emergency having contributed with its technological platforms to the comparative analysis of

viral genomes isolated in Italy, in their classification and characterization to obtain a detailed mapping of the contagions in the territory, necessary to establish future containment strategies and policies. The program of the proposed activity, which will be carried out in virtual mode, includes a half-day event, with lectures given by researchers associated with ELIXIR who will present the services offered for the COVID emergency.

Organizer: CNR and research infrastructure ELIXIR - IT

30/09 e 1/10

Evento Bio[tecn]ologico

Where: Digital event

Red biotech e green biotech

More info: evento.biotechnologico@gmail.com

Progetto BioTecnologico is a scientific dissemination initiative organized by students of the Biotechnology, Biology and Medicine courses of the three Pisan universities. The goal is to tell in a simple and understandable way the themes that we study every day at the University and that are of great importance for our community.

In this event, entirely in digital format, students and professors play their part to involve in the debate on biotechnologies, which play an increasingly important role in our life, but of which we often know little or nothing. The event will consist of 4 webinars, two for each topic, spread over 30 September and 1 October.

The topics will be:

- genetic engineering in the agro-food industry;
- the covid19 experience and vaccines.

The importance of communication is the logical thread that connects all the interventions.

Within each day, there will therefore be two webinars:

- 10.00-11.00: thematic lesson for high school students, managed by students of Progetto BioTecnologico
- 17.30-19.30: online round table for university students and families, with the participation of professors, communicators and prominent personalities in the Italian panorama of biotechnological research and scientific communication.

BioTecnologico event is a moment of confrontation, a space to ask questions, to reflect on the importance that biotechnology applications play in everyday life: what we buy at the supermarket, what we eat, the vaccines that protect us and medicines that cure us ... The knowledge and the opinion that everyone has on these issues can change society.

Science is made up of 3 fundamental gears: research, application, communication. Let's find them out together!

Organizer: Università di Pisa, Scuola Superiore Sant'Anna, Scuola Normale Superiore

1/10

Epigenomics and correct lifestyles; the new omic sciences and artificial intelligence

Where: Digital event

Red biotech

Maggiori informazioni: e.sturchio@inail.it

During the workshop, primary emphasis is given to transferring the new knowledge of the Biotech sector through innovative methodologies as an update for the professors involved in teaching specialized scientific subjects. The principal aim of the seminar is raising awareness of teachers and students of secondary schools on major topics of specific relevance, considered as "emerging", which require professors and students to pay particular attention, individual responsibility and opportunity awareness to the new risks that biotech techniques could present.

Program

- ❖ The omic sciences, epigenetics and correct lifestyles - Inail, dit (E. Sturchio, M. Zanellato, P. Boccia)
- ❖ Circadian regulation of genes - La Sapienza University (Mary Anna Venneri)
- ❖ Biosafety on the plate - more technology and less risk (Aldo Ceriotti)
- ❖ Application of artificial intelligence technologies for the automation of research activities – IBM Watson (Luca Di Piramo)

Organizer: INAIL-Dipartimento Innovazioni Tecnologiche

Green is the new black: discovering Plant Biotechnology

Where: Digital event

Green biotech

More info: indiscienza.collegioghislieri@gmail.com; rettorato@ghislieri.it

Speaker: Dr. Stefano Bertacchi, industrial biotechnologist, PhD student at the University of Milan Bicocca, science communicator and writer

Organizer: Associazione Ghislieri Scienza in partnership con Collegio Ghislieri

2/10

Safety and Biotech: from the Laboratory to Clinical Trials, at the time of the pandemic

Where: Digital event

Red biotech

More info: e.sturchio@inail.it

During the workshop, primary emphasis is given to transferring the new knowledge of the Biotech sector through innovative methodologies as an update for the professors involved in teaching specialized scientific subjects. The principal aim of the seminar is raising awareness of teachers and students of secondary schools on major topics of specific relevance, considered as "emerging", which require professors and students to pay particular attention, individual responsibility and opportunity awareness to the new risks that biotech techniques could present.

Program

- ❖ Safety in biotechnology laboratories - Inail, dit (Elena Sturchio) ISS (Laura Nicolini)
- ❖ Neuroscience and safety - CNR, Milan (Aldo Luperini)
- ❖ The new Biotech techniques - Santa Lucia Foundation, Rome (Paola Bonsi)
- ❖ Biotechnology in the development of anti-Covid-19 vaccines - SPERA le ragioni della ricerca, Takisbiotech (Luigi Aurisicchio)

Organizer: *INAIL-Dipartimento Innovazioni Tecnologiche*

Biotech week school contest – the hackaton

Where: Digital event

Green biotech

More info: teodoro.cardi@crea.gov.it; mariafrancesca.cardone@crea.gov.it;

luigi.cattivelli@crea.gov.it

What do our students really know about how much science there is in the food they eat? Between bad information and too much information, what idea have biotechnologies been made of? And their impact on agriculture?

CREA and the other partners, in the frame of the Biotech week, organizes an entirely event to raise awareness among the students, the citizens (farmers and consumers) of the future. A didactic path to bring the students towards a more aware and knowledge-based understanding of the impact of plant biotechnology in our society. The classes that will join the initiative, with their teachers, will be invited to participate (if possible) to the Food&Science Festival in Mantova. In the morning, the theme of the contest will be presented to the classes, with the involvement of scientists and influencers. The classes will have half-day to prepare a short video about the contest theme. At the end of the day, there will be the award ceremony of the class that made the best video. All the material will then be shared on the CREA Ricerca youtube channel and on the social platforms of the other members. The event is organized as part of the activities of the national project for agriculture biotechnology (BIOTECH) funded by Ministry of agriculture.

Organizer: Consiglio per la ricerca in agricoltura e l'analisi dell'economia agraria (CREA) in collaborazione con Associazione Nazionale Biotecnologi Italiani (ANBI), Food&Science Festival

Tbd

Dall'atomo al DNA: come la comprensione del mondo microscopico ci aiuta a comprendere i meccanismi di malattia

Where: Digital event

Red biotech

More info: gloria.bertoli@ibfm.cnr.it; direzione@ibfm.cnr.it

Our proposal is based on the needs of the schools in the Coronavirus pandemic times. Some schools in September will have to make the students recover part of the program not addressed in the previous year, making difficult to participate to live events in our Institute. In the days of the European Biotech Week, an online infrastructure will be made available for the schools, on which various multimedia contents created by dedicated IBFM staff will be loaded, illustrating some aspects of the research and technologies of the IBFM for the assessment of disease mechanisms in oncological and non oncological field. These contents will be created and adapted differently for the different grades of the school (from primary to secondary schools of second grade). The opportunity to make multimedia contributions, accessible to the general public, will be evaluated. During the days dedicated to EBW 2020, IBFM researchers will be achievable on appointment by schools, to deepen some of the topics covered in the videos, at school site or via web connection.

Organizer: Istituto di Bioimmagini e Fisiologia Molecolare (IBFM) del Consiglio Nazionale delle Ricerche (CNR)

Evento Sanofi Genzyme

Where: Digital event

Red biotech

More info: giuseppe.secchi@sanofi.com

Dialogo con le principali funzioni aziendali per comprendere le opportunità offerte dalle biotecnologie in un'azienda farmaceutica

Organizer: Sanofi Genzyme