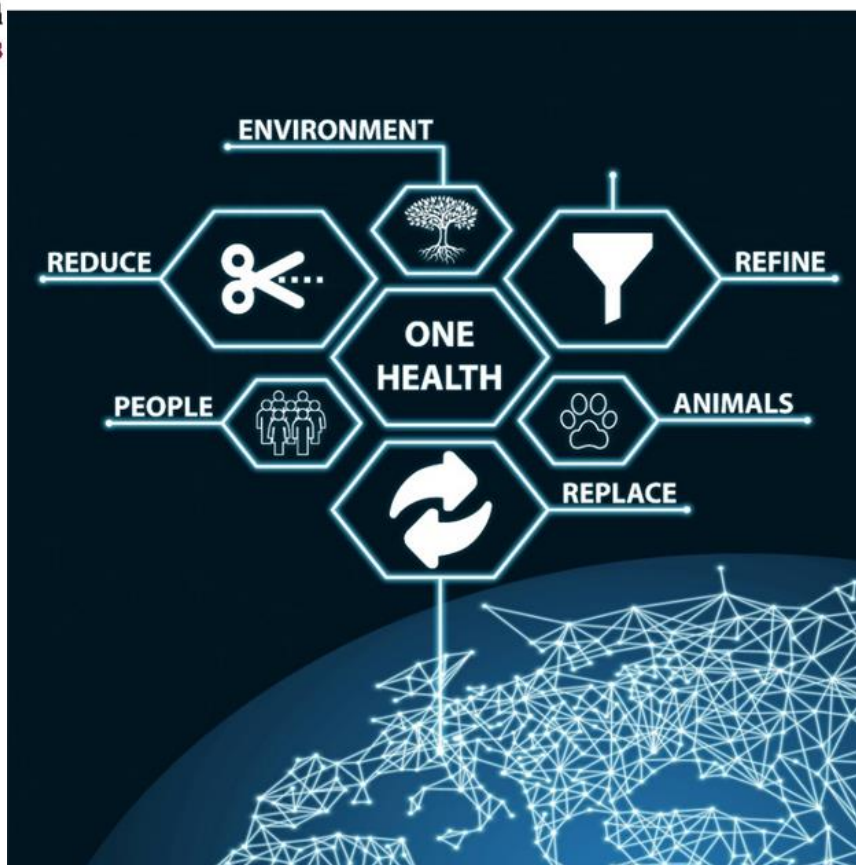


CENTRO 3R IV ANNUAL MEETING



The role of 3Rs in the age of One Health: *where we are and where we're going.*

September 13-15, 2023

Università degli Studi di Milano-Bicocca
Aula Sironi U4-08, Piazza della Scienza 4, 20126 Milano
Abstract deadline: July 1st, 2023



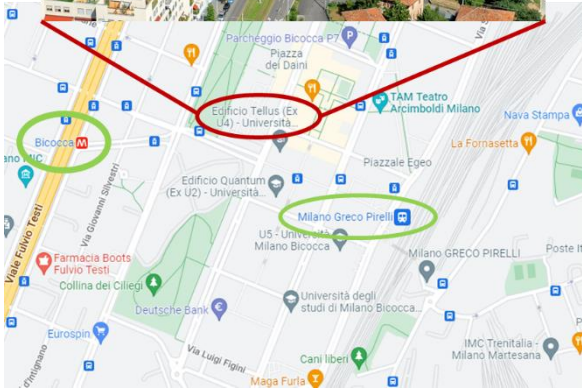
ORGANIZING COMMITTEE:

- ❑ Dip. Medicina e Chirurgia: Gabriella Nicolini, Cristina Crocamo, Elisabetta Donzelli
- ❑ Dip. Scienze dell'ambiente e della Terra: Paride Mantecca, Davide Ballabio, Rossella Bengalli, Sara Marchetti;
- ❑ Dip. Biotecnologie e Bioscienze: Ferdinando Chiaradonna, Virginia Brancato, Barbara Zerbato, Luisa Fiandra;
- ❑ Dip. Fisica: Giuseppe Chirico, Davide Panzeri, Laura D'Alfonso.

SCIENTIFIC COMMITTEE:

- ❑ Università degli Studi di Milano-Bicocca
Dip. Medicina e Chirurgia: Giulio Sancini
Dip. Biotecnologie e Bioscienze: Marcella Rocchetti
Dip. Scienze dell'Ambiente e della Terra: Chiara Urani
Dip. Fisica: Laura Sironi
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- ❑ Politecnico di Torino: Valeria Chiono
- ❑ Campus Biomedico Roma: Alberto Rainer
- ❑ Università Politecnica delle Marche: Monica Mattioli Belmonte

SEDE: UNIMIB



SEDE: SALA SIRONI, U4, Piazza della Scienza



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PRELIMINARY PROGRAM

WEDNESDAY 13 SEPTEMBER 2023

12.00-13.00 Registration

13.00-13.30 Opening (GIOVANNA IANNANTUONI, GUIDO CAVALETTI, University of Milano-Bicocca)

13.30-15.15 SESSION: 3Rs and COSMETIC EUROPEAN DIRECTIVE

13.30-14.00 Invited Speaker: ANNA MARIA BASSI (Department of Experimental Medicine, University of Genoa; Centro3R ad honorem member)

“NEW ANIMAL-FREE APPROACH METHODOLOGIES INTO REGULATORY SAFETY ASSESSMENT FOR RISK HAZARDOUS: A LESSON FROM THE BANNING ANIMALS IN COSMETIC TESTING”

14.00-15.00 4X Selected Talk

15.00-15.15 Sponsor Talk: ALERTOX

15.15-15.45 Coffee Break

15.45-17.30 SESSION: BIOMATERIALS AND TISSUE ENGINEERING

15.45-16.15 Invited Speaker: PAOLO NETTI (Department of Chemical, Materials, and Industrial Production Engineering, University of Naples Federico II; Center for Advanced Biomaterials for Healthcare, Istituto Italiano di Tecnologia (IIT@CRIB); Interdisciplinary Research Center on Biomaterials (CRIB), University of Naples Federico II)

“ON-CHIP CAPTURING TIME AND SPACE EVOLUTION OF SOLID TUMOUR MICROENVIRONMENT TO ASSESS CANCER STAGE AND PROGRESSION”

16.15-17.15 4X Selected Talk

17.15-17.30 Sponsor Talk: CYTOSENS

17.30-18.30: Welcome drink

THURSDAY 14 SEPTEMBER 2023

9.00-10.30 SESSION: 3Rs IN SEVERAL PERSPECTIVES

9.00-9.30 Invited Speaker: SANDRA COECKE (European Commission, Joint Research Centre, Inspira)

“KNOWLEDGE FROM HUMAN CELL–BASED METHODS FOR BETTER PREPAREDNESS AND RESPONSE TO COVID-19 HEALTH THREATS (BREATH)”

9.30-10.00 Invited Speaker: VALENTINA CALDERAI (Department of Law, University of Pisa)

“NEW PERSPECTIVES ON REPLACEMENT. A CRITICAL REVIEW OF THE ITALIAN LEGAL FRAMEWORK ON HUMAN BRAIN TISSUES RESEARCH AND BIOBANKING”

10.00-10.30 Invited Speaker: ANNAMARIE LANG (Department of Orthopaedic Surgery, University of Pennsylvania, PA, USA; Centre for Translational Bone, Joint and Soft Tissue Research, Faculty of Medicine Carl Gustav Carus, TU Dresden, Dresden, Germany)

“THE RETHINK3R CONCEPT - EDUCATING THE NEXT GENERATION OF 3R-AWARE SCIENTISTS”

10.30-11.00 Coffee Break

11.00-12.30 SESSION: BIOREACTORS and MICROFLUIDIC DEVICES

11.00-11.30 Invited Speaker: MANUELA TERESA RAIMONDI (Department of Chemistry, Materials and Chemical Engineering “G. Natta”, Politecnico di Milano)

“CELL MODELING IN THE 3R DIMENSION”

11.30-12.30 4X Selected Talk

12.30-14.00 Lunch and POSTER SESSION and TATABOX CHALLENGE (sign up and test yourself!)

14.00-15.30 SESSION: NEW ALTERNATIVES FOR *IN VIVO* VALIDATION, Supporting Project H2020-In2Sight

14.00-14.20 Invited speaker: MARTA RAYO LUNAR (Asphalion, Barcellona,E)

“REGULATORY ASPECTS OF 3Rs”

14.20-14.40 Invited Speaker: URI NEVO (Department of Physics, University of Tel Aviv - TAU)

“TOWARDS IN SILICO PLATFORMS FOR VALIDATION OF BIOMATERIALS”

14.40-15.00 Invited Speaker MADDALENA COLLINI (Department of Physics "Giuseppe Occhialini" University of Milano-Bicocca)

“IMPLANTABLE MICRODEVICES AS POSSIBLE TOLLS FOR NEW VALIDATION PROTOCOL OF BIOMATERIAL”

15.00-15.20 invited Speaker: PAOLO PESCIO (Eurofins Italia; UNI, Ente Nazionale di Normazione)

“STANDARDISATION FOR BIOCOMPATIBILITY: WHERE WE ARE IN ISO 10993, EUROFINS, UNI”

15.20-15.35 Sponsor Talk: NIKON

15.35-16.05 Coffee Break

16.05-17.35 SESSION: NEW APPROACH METHODOLOGIES (NAMS) FOR SAFE AND SUSTAINABLE CHEMICALS AND (NANO)MATERIALS, Supporting Project: H2020-ASINA

16.05-16.35 Invited Speaker: IRANTZU GARENDIA AGUIRRE (European Commission, General Joint Research Centre, Inspra)

“SSBD FRAMEWORK AND THE IMPORTANCE OF NAMS IN ITS IMPLEMENTATION”

16.35-16.50 Invited Speaker: IRINI FURXHI (Transgero Ltd, Ireland)

“DATA DRIVEN APPLICATIONS FOR THE QUANTITATIVE HAZARD CRITERIA EXTRACTION”

16.50-17.05 Invited Speaker: MARIE CARRIERE (Commissariat à l’Energie Atomique et aux Energies Alternatives, CEA, France)

“AOPS BASED STRATEGIES FOR SAFETY ASSESSMENT: A CASE STUDY ON SILVER NANOPARTICLES”

17.05-17.20 Invited Speaker: MAURIZIO GUALTIERI (Department of Earth and Environmental Science, University of Milano Bicocca)

“ON AN INNOVATIVE METHODOLOGY TO ASSESS THE IN VITRO HAZARD OF NANOMATERIALS ON IN VITRO LUNG MODELS”

17.20-17.35 Sponsor Talk: MATTEK

17.35-18.30: Centro 3R Board meeting

FRIDAY 15 SEPTEMBER 2023

9.00-10.30 SESSION: 3D CELL CULTURES and ORGANOIDs

9.00-9.30 Invited Speaker: VERONICA KRENN (Human Technopole Early Career Laboratory of Developmental Neuroimmunobiology, Department of Biotechnology and Bioscience, University of Milano-Bicocca)

“CEREBRAL ORGANOIDs - EMERGING 3D EXPERIMENTAL MODELS FOR NEUROLOGY RESEARCH”

9.30-10.15 3X Selected Talk

10.15-10.30 Sponsor Talk: CYANAGEN

10.30-11.00 Coffee Break

11.00-12.30 SESSION: R of REFINEMENT

11.00-11.30 Invited Speaker: ANGELO GAZZANO (Department of Veterinary Science, University of Pisa)

“REFINEMENT: HOW, WHEN AND WHY”

11.30-12.15 3X Selected Talk

12.15-12.30 Sponsor Talk:

12.30-14.00 Lunch and POSTER SESSION

14.00-15.30 SESSION: *IN SILICO* APPROACHES

14.00-14.30 Invited Speaker: EMILIO BENFENATI (Laboratory of Environmental Chemistry and Toxicology, Mario Negri Institute, Milano)

“IN SILICO MODELS MEETING ONE HEALTH: A COMMUNITY PERSPECTIVE”

14.30-15.30 4X Selected Talk

15.30-16.00 Coffee Break

16.00-17.30 SESSION: ROBUST ALTERNATIVE ANIMAL MODELS

16.00-16.30 Invited Speaker: THOMAS VACCARI (Department of Bioscience, University of Milano)

“DROSOPHILA AS AN ANIMAL MODEL FOR BIOMEDICAL RESEARCH”

16.30-17.30 4X Selected Talk

17.30-18.00 Awards presentation and closing remarks