



# Summer School 2022: Exploring the emerging role of the host microbiome in tumour heterogeneity

July 11-16th 2022 - Hybrid | University of Bucharest





# CIVIS

A European Civic University

Alliance of 10 European Universities



## SCIENTIFIC PROGRAM

**Research lecture**

**Theoretical course**

**Practical workshop / Student presentation**

**Announcement / Social**

### Monday, July 11

11:00-14:00	<b><i>Registration and Orientation - Rectorate</i></b>
13:00-14:00	<b>Lunch</b>
<b>Microbiota in Health and disease</b>	
14:30-15:00	<b>Summer School Kick-off</b> <i>Carmen Chifiriuc (ICUB, Romania), Sorin Costreie</i>
15:00-16:00	<b>Microbiome and Colorectal cancer</b> <i>David Hughes (UCD, Ireland)</i>
16:00-16:40	<b>Targeting the microbiome in cancer</b> <i>Iulia Balas (MICROBIOTICA, UK)</i>
16:40-17:00	<b>Break</b>
17:00-18:00	<b>Posters from PhD and MSc students</b>

## Tuesday, July 12

Biology meets technology	
09:00-10:00	<b>Introduction to bioinformatics of microbiome analysis</b> <i>Larisa Sarghie (The Bioinformatics Institute, Romania)</i>
10:00-10:45	<b>Tumor microenvironment and tertiary lymphoid structures</b> <i>Karen Willard Gallo (ULB, Belgium)</i>
10:45-10:11	<b>Break</b>
11:00-12:00	<b>Predictive model for CRC based on shot-gun gut microbiome</b> <i>Victor Moreno (Catalan Institute of Oncology, Spain)</i>
12:00-12:30	<b>Microbiota analysis tools</b> <i>Gratiela Gradisteanu ICUB</i>
12:45-13:30	<b>Lunch</b>
Practical workshop - Group 1 & 2	
13:30-15:30	<b>Microbiota analysis workflow</b> <i>Cristian Butnaru (Antisel, Romania)</i>
Practical workshop – Bioinformatics	
15:30-18:00	<b>Bioinformatics of chemical structures wth biological activity</b> <i>Speranta Avram &amp; Marius Surleac (ICUB)</i>

## Wednesday, July 13

Microbiome and big data analytics	
09:00-09:30	<b>Transcriptomics in cancer</b> <i>Sorina Dinescu (University of Bucharest)</i>
09:45-10:30	<b>Cancer and exosomes as particles key in tumor progression</b> <i>Gemma Dominguez (UAM, Spain)</i>
10:00-10:15	<b>Break</b>
10:30-11:15	<b>Targeting the gut and tumor microbiota in cancer</b> <i>Laurence Zitvogel (AMU, France)</i>
11:15-12:00	<b>Analyze and Sort up to 40 color Immuno oncology panels with Cytek spectral technology</b> <i>Riccardo Pasculli (Accela, Prague)</i>
12:00-12:45	<b>Microbiome differences between healthy tissue and adenoma of CRC</b> <i>Ainhoa Garcia (Catalan Institute of Oncology, Spain)</i>
12:45-13:45	<b>Lunch</b>
Microbiome and big data analytics	
14:00-15:00	<b>Bioinformatics of microbiome data analysis</b> <i>Ozan Gundogdu (LSHTM, UK)</i>
15:00-16:00	<b>Metabolomics and the microbiome</b> <i>Stefano Cacciatore (ICGEB, South Africa)</i>
Practical workshop	
17:00-18:15	<b>Multidimensional data analysis of cytometry data: a Business Intelligence approach</b> <i>Antonio Cosma, (Institute of Health, Luxembourg)</i>

## Thursday, July 14

Cancer-host-microbiome interplay	
09:00-09:40	<b>Microbiome Inflammatory Biomarkers and Colorectal Cancer Patients' Stratification</b> <i>Elena Ionica (UB, Romania)</i>
09:45-10:45	<b>The tumor microenvironment</b> <i>Florina Bojin (OncoGen, Romania)</i>
10:45-11:00	<b>Break</b>
11:00-11:30	<b>Flow cytometry potential applications in characterization of solid tumors</b> <i>Claude Lambert (FRE-CNRS, France)</i>
11:30-11:50	<b>TBA</b> <i>Horia Bumbea (UMF Carol Davila)</i>
11:50-12:30	<b>NOVEL CO-DRIVERS IN MELANOMA PROGRESSION AND HETEROGENEITY</b> <i>Gabriela Negroiu (Institute of Biochemistry, Romania)</i>
12:30-12:45	<b>Switching from biological to biosimilar drugs in oncological diseases: Clinical evidence - Horia Bumbea (UMF Carol Davila)</b>
12:45-13:30	<b>Lunch</b>
Practical workshop - Group 1	
13:30-15:30	<b>Analysis of check points receptors by flow cytometry</b> <i>Claude Lambert (FRE-CNRS, France)</i>
Practical workshop - Group 2	
13:30-15:30	<b>Aurora 3L- Immuno-oncology training</b> <i>Marta Brewinska (Accela, Olchowik)</i>

*\*The 2 workshops will take place simultaneously; students will switch classes at 15.30*

Friday, July 15

**A translation of omic data into the clinic**

09:00-10:00	<b>Basics of nutrigenomics</b> <i>Cosmin Arsene (Genetic Centre, Romania)</i>
10:00-10:45	<b>Mechanism of resistance of immunotherapy in solid cancer</b> <i>Andrea Botticelli (SUR, Italy)</i>
10:45-11:00	<b>Break</b>
11:00-11:45	<b>Gut metagenome associations with health data in Estonian Microbiome cohort</b> <i>Elin Org (Institute of Genomics, University of Tartu)</i>
11:45-12:30	<b>Nutrition, microbiome-Immunotherapy</b> <i>Aristidis Iliopoulos (NKUA, Grece)</i>
12:30-13:30	<b>Microbiota and cancer therapy. fact or fiction?</b> <i>Aristotelis Bamias (NKUA, Greece)</i>
13:30-14:30	<b>Lunch</b>
<b>Student Workshop-'Elevator pitch'</b>	
14:30-17:00	<b>Student presentations - Innovative research ideas</b>
17:00-17:15	<b>Closing - Luminita Marutescu (ICUB, Romania)</b>

**Saturday, July 16**

**Visit to the Peleş Castle, Sinaia, Romania**



**Departure time: 9.00 am**

**Departure location: ICUB, University of Bucharest, Strada Doctor Dimitrie Brândză 1, Bucharest**

# THANKS TO OUR PARTNERS

ASOCIATIA DE CITOMETRIE DIN ROMANIA



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