



Title: Challenges of tumor profiling in translational research

AGENDA

<https://www.transcoloncan.eu/events/14/management-committee-working-group-3-meeting>

SEPTEMBER 20-21, 2021

Faculty of Biology, University of Bucharest, Bucharest

Day 1 / September 20

([link](#) for online attendance)

13:00-15:00 ON-SITE REGISTRATION and LUNCH

15:00-15:10 WELCOME by the host institution

SESSION 1: Understanding tumor biology through single-cell genomic approaches

Chair: Beatriz Carvalho

15:10-15:45 **A Single-Cell Tumor Immune Atlas for precision oncology**
Paula Nieto, Centre for Genomic Regulation (CNAG-CRG), Barcelona, Spain

15:45-16:00 Short talk: **Immunoediting dynamics in metastatic tumors predict response to immunotherapy**
Luis Zapata, Institute of Cancer Research, London, United Kingdom

16:00-16:15 Short talk: **Copy-number intratumor heterogeneity predicts relapse in chemotherapy-naïve stage II colon cancer**
Sara Lahoz, Institut D'Investigacions Biomèdiques August Pi i Sunyer, Barcelona, Spain

16:15-16:50 **Microsatellite indels signatures in microsatellite stable and unstable tumors, and their utilities for cancer detection**
Yosef E. Maruvka, Technion, Haifa, Israel (online)

16:50-17:10 COFFEE BREAK

17:10-17:45	Chromosomal instability and karyotype heterogeneity in colorectal cancer <i>Geert Kops</i> , Hubrecht Institute, Utrecht, The Netherlands (online)
17:45-18:00	Short talk: The Tumor Immune-Cell Atlas web-app for automated single cell data annotation <i>Juan Nieto</i> , Centre for Genomic Regulation (CNAG-CRG), Barcelona, Spain
18:00-18:15	Short talk: Cancer Immunogram: combining multi-parameter approach and machine learning to capture the complexity of tumor immune contexture <i>Florence Monville</i> , Veracyte, Inc. (former HaliuDx), France
18:15-18:50	Quantifying tumor heterogeneity using single-cell and spatial sequencing technologies <i>Ben Raphael</i> , Princeton University, NJ, United States of America (online)
18:50	GROUP PHOTO
20:00	DINNER

Day 2 / September 21

([link for online attendance](#))

8:45-9:25

MC Meeting: UPDATES and FUTURE PERSPECTIVES from the Action-chair (Sergi Castellví-Bel & Richarda de Voer).

SESSION 2: Tumor profiling towards precision medicine

Chair: Jordi Camps

9:25-10:00

Translational disease biology into new diagnostic applications
Remond Fijneman, The Netherlands Cancer Institute (NKI), Amsterdam, The Netherlands

10:00-10:15

Short talk **Liquid biopsy: a powerful modern tool for managing colorectal cancer**
Bianca Galateanu, University of Bucharest, Bucharest, Romania

10:15-10:30

Short talk: **Differences between inherited and acquired polymerase proofreading deficiencies in cancer**
Laura Valle, Catalan Institute of Oncology, Barcelona, Spain

10:30-11:45

Short talk: **Expression of oncogenic signaling pathway proteins and their association with clinicopathological features and pathogens in colorectal cancer patients from South Tunisia**
Leila Ammar-Keskes, Sfax University, Sfax, Tunisia (online)

10:45-11:00

Short talk: **Colorectal cancer (CRC) survival profiling: finding prognostic biomarker signatures based on transcriptomic data**
Javier De Las Rivas, University of Salamanca, Salamanca, Spain (online)

11:00-11:20

COFFEE BREAK

11:20-11:55

Colorectal cancer heterogeneity: focus on peritoneal metastatic disease
Louis Vermeulen, AUMC, Amsterdam, The Netherlands (online)

11:55-12:10

Short talk: **A transcriptomic approach to assess association between clinical features and the immune microenvironment in a series of human colorectal cancer samples**
Sandra García-Mulero, Catalan Institute of Oncology, Barcelona, Spain

12:10-12:25

Short talk: **Transcriptomics and an integrated pan-cancer oncology enrichment next-generation sequencing assay in colorectal cancer and adenoma tissues**
Antonio Francavilla, Italian Institute for Genomic Medicine, Torino, Italy

12:25-12:40

Short talk: **Expression pattern and prognostic potential of tumoral and circulating miR-93-5p in patients with colorectal cancer liver metastases**
Jovana Despotović, University of Belgrade, Belgrade, Serbia

12:40-12:55 Short talk: **MethCORR modelling of methylomes from formalin-fixed paraffin-embedded tissue enables characterization and prognostication of colorectal cancer**
Jesper B. Bramsen, Aarhus University Hospital, Aarhus, Denmark (online)

13:00-14:15 LUNCH

SESSION 3: Biomarker discovery and validation

Chair: Remond Fijneman

14:15-14:50 **Biomarker analysis in personalized medicine**
Daniela Hirsch, University Medical Center Mannheim, Heidelberg University, Mannheim, Germany (online)

14:50-15:05 Short talk: **Nanoparticles based on cationic dendronized hyperbranched polymer enhanced serum features biomarkers in cancer patients analyzed by fluorescence liquid biopsy**
Olga Abián, University of Zaragoza, Zaragoza, Spain

15:05-15:20 Short talk: **Markers of gut barrier damage/inflammation and pathogenic gut bacteria – possible biomarkers in colorectal cancer?**
Petr Holý, Charles University, Prague, Czech Republic (online)

15:20-15:35 Short talk: **GRAIL E3 ubiquitin ligase in KRAS and BRAF mutant colorectal cancer**
Ester Sánchez-Tilló, Institut D'investigacions Biomèdiques August Pi i Sunyer, Barcelona, Spain (online)

15:35-15:50 Short talk: **Diclofenac down-Regulates COX-2 induced expression of CD44 and ICAM-1 in human HT29 colorectal cancer cells**
Mutay Aslan, Akdeniz University, Antalya, Turkey

15:50-16:10 COFFEE BREAK

16:10-16:25 Short talk: **Smart biocomposites encapsulating methotrexate designed for cancer therapy**
Liliana-Roxana Balahura, University of Bucharest, Bucharest, Romania

16:25-16:40 Short talk: **Profiling the response to neoadjuvant chemoradiotherapy in locally advanced rectal cancer**
Aleksandra Stefanović, Institute for Oncology and Radiology of Serbia, Belgrade, Serbia

16:40-16:55 Short talk: **Mesoporous systems loaded with epicatechin and catechin for the treatment of colon cancer**
Gabriela Petrisor, University Politehnica of Bucharest, Bucharest, Romania

16:55-17:30 **Transcriptomic heterogeneity of colorectal cancer and the extent to which it is genetically controlled**
Jacob Househam, Barts Cancer Institute, Queen Mary University of London, London, United Kingdom (online)

17:30 CLOSING REMARKS

For anyone interested in attending the Workshop online, here are the Zoom links:

Topic: **Bucharest meeting - day 1**

Time: Sep 20, 2021 01:00 PM Bucharest (GMT+3)

Join Zoom Meeting

<https://us06web.zoom.us/j/84774103042?pwd=d1oreUp0ZFIZRk1KSIIKOVBHekRiQT09>

Meeting ID: 847 7410 3042

Passcode: 946973

Topic: **Bucharest meeting - day 2**

Time: Sep 21, 2021 09:00 AM Bucharest (GMT+3)

Join Zoom Meeting

<https://us06web.zoom.us/j/89100939449?pwd=MDNHTW5YS0pLTURuQUUvTENBRFRKdz09>

Meeting ID: 891 0093 9449

Passcode: 834951

In addition, the Workshop can also be watched in our Facebook live at

<https://www.facebook.com/transcoloncan>