



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 · BUCHAREST (GMT+3)

Day 1 / September 20

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-naive stage II colon cancer**
Sara Lahoz, Institut D'Investigacions Biomèdiques August Pi i Sunyer, Barcelona, Spain

16:15-16:50 **Chromosomal instability and karyotype heterogeneity in colorectal cancer**
Geert Kops, Hubrecht Institute, Utrecht, The Netherlands (online)

16:50-17:10 COFFEE BREAK

17:10-17:45 **Microsatellite indels signatures in microsatellite stable and unstable tumors, and their utilities for cancer detection**
Yosef E. Maruvka, Technion, Haifa, Israel

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>Jaques Fieschi</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

9:00-9:40

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

SESSION 2: Tumor profiling towards precision medicine

Chair: Jordi Camps

9:40-10:15

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

10:15-10:30

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

10:30-10:45

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

10:45-11:00

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

11:00-11:20

COFFEE BREAK

11:20-11:55

To be announced
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 <i>Daniela Hirsch</i> , 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 <i>Olga Abián</i> , 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? <i>Petr Holý</i> , Charles University, Prague, Czech Republic (online)
15:20-15:35	Short talk: GRAIL E3 ubiquitin ligase in KRAS and BRAF mutant colorectal cancer <i>Ester Sánchez-Tilló</i> , 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 <i>Mutay Aslan</i> , Akdeniz University, Antalya, Turkey
15:50-16:10	COFFEE BREAK
16:10-16:25	Short talk: Smart biocomposites encapsulating methotrexate designed for cancer therapy <i>Liliana-Roxana Balahura</i> , University of Bucharest, Bucharest, Romania
16:25-16:40	Short talk: Mesoporous systems loaded with epicatechin and catechin for the treatment of colon cancer <i>Gabriela Petrisor</i> , University Politehnica of Bucharest, Bucharest, Romania
16:40-17:15	Transcriptomic heterogeneity of colorectal cancer and the extent to which it is genetically controlled <i>Jacob Househam</i> , Barts Cancer Institute, Queen Mary University of London, London, United Kingdom (online)

17:15	CLOSING REMARKS
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