

**2ND**

# INTERNATIONAL NTNU SYMPOS UM

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INTERNATIONAL NTNU  
SYMPOSIUM ON

## CURRENT AND FUTURE CLINICAL BIOMARKERS OF CANCER

From diagnosis to immunotherapy - why is precision medicine so difficult?

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**THURSDAY-FRIDAY**  
**JUNE 14-15**  
(08:00-17:30)

### PROGRAM

#### DAY ONE - 14TH JUNE

IMMUNOTHERAPY IN CANCER - A REAL BREAKTHROUGH - BUT FOR THE FEW? 07.00 • 12.00  
REGISTRATION/POSTER HANGING

##### WELCOME

8.0- 8.05 CULTURAL EVENT  
08.5- 08.10 PAL ROMUNDSTAD, DEAN OF RESEARCH, MEDICAL FACULTY, NTNU, NORWAY  
08.10- 08.15 OLUF DIMITRI ROE, SYMPOSIUM CHAIRMAN CHAIRS: MADHAV V. DODAPHKAR, JOHANNA OLWEUS

##### KEYNOTE

8.15-8.45 NATURAL KILLER T CELLS IN CANCER IMMUNOTHERAPY - RECENT PROGRESS AND CHALLENGES/ MADHAV V. DODAPHKAR, EMORY UNIVERSITY SCHOOL OF MEDICINE, ATLANTA, USA

##### T-CELL AND OTHER IMMUNOTHERAPIES IN CANCER - FUTURE PROSPECTIVE

8.45- 9.05 PENDING FAST CARs FOR CANCER  
9.5- 9.25 TCR-BASED CANCER IMMUNOTHERAPY - HOW CAN WE MOVE FORWARD/ JOHANNA OLWEUS, OSLO UNIVERSITY HOSPITAL, OSLO, NORWAY  
9.25-9.45 CANCER IMMUNOTHERAPY USING A NOVEL NANOPARTICLE MRNA DELIVERY PLATFORM/ OLE AUDUN WERNER HAABETH (RONALD LEVY GROUP) STANFORD UNIVERSITY, STANFORD, USA

9.45- 10.00 COFFEE BREAK - POSTER EXHIBITION

##### IMMUNE CHECK-POINT THERAPY - IT WORKS WHEN IT WORKS, BUT WHY ARE SO MANY RESISTANT? CHAIRS:

ROBERT ANDERS, ANDREW MELLOR, CONRAD REUBER  
10.0- 10.30 PATHOLOGY'S ROLE IN THE DEVELOPMENT OF IMMUNE THERAPY CLINICAL TRIALS/ ROBERT ANDERS (SUSAN TOPALIAN GROUP) JOHNS HOPKINS, BALTIMORE, USA  
10.30- 11.00 OVERCOMING IMMUNOTHERAPY RESISTANCE: IMMUNOTHERAPY, IDO AND TRYPTOPHAN, A NEW CONCEPT IN CANCER TREATMENT/ ANDREW MELLOR, NEWCASTLE UNIVERSITY, UK

##### KEYNOTE II

11.0- 11.30 GUT MICROBIOME IN CONTROL OF CANCER IMMUNOTHERAPY/ CONRAD RAUBER, (LAURENCE ZITVOGELS GROUP) INSTITUTE GUSTAVE ROUSSY, FRANCE

12.0- 13.30 LUNCH/POSTER EXHIBITION. GOLD SPONSOR LECTURE

##### CLINICAL PROBLEMS IN IMMUNOTHERAPY

CHAIRS: KAVITA DHODAPKAR, ASLAUG HELLAND, OLUF DIMITRI ROE  
13.30- 14.00 PENDING  
14.0- 14.20 B CELLS AND AUTOIMMUNITY FOLLOWING CHECKPOINT BLOCKADE THERAPY/ KAVITA DHODAPKAR EMORY UNIVERSITY SCHOOL OF MEDICINE, ATLANTA, USA  
14.20- 14.40 CLINICAL SIGNS OF IMMUNOTHERAPY TOXICITIES IN LUNG CANCER AND THEIR MANAGEMENT/ ASLAUG HELLAND, OSLO UNIVERSITY HOSPITAL, OSLO, NORWAY  
14.40- 15.00 THE COST OF NEW CANCER DRUGS, ETHICS AND HEALTH DISPARITIES/ OLUF DIMITRI ROE, LEVANGER GER HOSPITAL/NTNU, NORWAY

15.0- 15.30 COFFEE BREAK - POSTER EXHIBITION

15.30- 15.50 INFLAMMATION, MICROENVIRONMENT AND CANCER INVASIVENESS/ NADRA NILSEN, CEMIR, NTNU, TRONDHEIM, NORWAY

##### ORAL PRESENTATIONS

16.0- 16.10  
16.10- 16.20  
16.20- 16.30

##### CLOSING KEYNOTE

16.30- 17.00 PD1-DISCOVERY SAVES LIVES, BUT WHAT ABOUT THE RESISTANT CANCERS? RECENT PROGRESS AND VISIONS/ KENJICHAMOTO, (TASUKU HONJO GROUP), KYOTO UNIVERSITY, JAPAN  
17.0- 17.30 CLOSING DISCUSSION AND SUMMARY  
19.00 ONWARDS CONFERENCE DINNER WITH CULTURAL EVENTS (TICKETED EVENT, EXCEPT INVITED SPEAKERS)

#### DAY TWO - 15TH JUNE

BIOMARKERS IN PRECISION DIAGNOSIS AND TREATMENT - NOVEL DEVELOPMENTS

08.0- 08.05 CULTURAL AWAKENING  
08.5- 08.10 WELCOME  
CHAIRS: FRED HIRSCH, KLAAS MAX, SHOUYU WANG, SOFIA AGELAKI

##### KEYNOTE

08.10- 08.40 LUNG CANCER- FROM BEST SUPPORTIVE CARE TO IMMUNOTHERAPY. THE BIOMARKERS TALE/ FRED HIRSCH, UNIVERSITY OF COLORADO, AURORA, USA

##### FROM MicroRNA AND METABOLITES TO CELLS, WHAT BIOMARKERS TO CHOOSE?

8.40- 9.00 HUMAN PLASMA AND SERUM EXTRACELLULAR SMALL RNA REFERENCE PROFILES AND THEIR CLINICAL UTILITY/ KLAAS MAX, (THOMAS TUSCHL LAB) ROCKEFELLER UNIVERSITY, NY, USA  
9.0- 9.20 LONG NON-CODING RNA ROLE IN BREAST CANCER IN BONE AND BRAIN METASTASIS/ SHOUYU WANG, NANJING MEDICAL UNIVERSITY, NANJING, CHINA  
9.20- 9.40 CIRCULATING TUMOR CELLS AND MicroRNAs IN BREAST CANCER PATIENTS/ SOFIA AGELAKI, UNIVERSITY OF CRETE, HERAKLION, GREECE

9.40- 10.00 COFFEE BREAK - POSTER EXHIBITION

CHAIRS: ANA ROBLES, MAY-BRITT TESSEM, ALEX LESOKHIN, DUAN CHEN, HAINING YANG, HEDY KINDLER  
10.0- 10.20 LUNG CANCER BIOMARKERS: BEYOND GENOMICS/ ANA ROBLES (CURTIS HARRIS GROUP), NCI, WASHINGTON, USA  
10.20- 10.40 EX VIVO METABOLIC FINGERPRINTING IDENTIFIES BIOMARKERS PREDICTIVE OF PROSTATE CANCER RECURRENCE FOLLOWING RADICAL PROSTATECTOMY/ MAY-BRITT TESSEM, NTNU, NORWAY  
10.40- 11.00 IMMUNOTHERAPY IN MYELOMATOSIS: THE PROMISE AND THE PROBLEMS/ ALEX LESOKHIN, MEMORIAL SLOAN KETTERING CANCER CENTER, NEW YORK, USA

11.0- 11.20 A NEW APPROACH FOR PANCREATIC CANCER BIOMARKER DISCOVERY USING PEPTIDOME/ DUAN CHEN, NTNU, TRONDHEIM, NORWAY

11.20- 11.40 DISCOVERY OF HYPERACETYLATED HMGB1 AS A BLOOD DIAGNOSTIC IN MESOTHELIOMA/ HAINING YANG, UNIVERSITY OF HAWAII, HONOLULU, USA

11.40- 12.00 MOLECULARLY STRATIFIED TREATMENT FOR MESOTHELIOMA/ HEDY KINDLER, UNIVERSITY OF CHICAGO, USA

12.0- 13.30 LUNCH/POSTER EXHIBITION. GOLD SPONSOR LECTURE

##### BIG DATA IN BIOMARKER DISCOVERY AND PRECISION MEDICINE

CHAIRS: JEAN CLAUDE ZENKLUSEN, KRISTIAN HVEEM, NIKI KARACHALIOU, APOSTOLIA-MARIA TSMBERIDOU  
13.30- 14.00 OPEN ACCESS TO HUMAN GENE, PROTEOMICS AND METABOLOMICS DATA (TCGA); ESCALATING BIOMARKER RESEARCH OR NOT?/ JEAN CLAUDE ZENKLUSEN (CONFIRMED), THE CANCER GENOME ATLAS, CENTER FOR CANCER GENOMICS, NCI, NIH, WASHINGTON, USA  
14.0- 14.20 THE HUNT BIOBANK, A GOLD MINE FOR PROSPECTIVE BIOMARKER STUDIES/ KRISTIAN HVEEM, HUNT RESEARCH CENTER, LEVANGER, NORWAY  
14.20- 14.40 SWARM INTELLIGENCE-ENHANCED DETECTION OF NON-SMALL-CELL LUNG CANCER USING TUMOR-EDUCATED PLATELETS/ NIKI KARACHALIOU, QUIRON DEXEUS UNIVERSITY HOSPITAL, BARCELONA, SPAIN  
14.40- 15.00 INITIATIVE FOR MOLECULAR PROFILING AND ADVANCED CANCER THERAPY AND CHALLENGES IN THE IMPLEMENTATION OF PRECISION MEDICINE/ APOSTOLIA-MARIA TSMBERIDOU, MD ANDERSON, HOUSTON, USA

15.0- 15.30 COFFEE BREAK - POSTER EXHIBITION

##### ORAL PRESENTATIONS

15.30- 16.30 TEN-MINUTE SESSIONS FOR SELECTED ORAL PRESENTATIONS

##### CLOSING KEYNOTE

16.30-17.00 DISCOVERY OF THE FIRST "MAGIC BULLET" AND ITS TARGET: THE CML STORY/ ROBERT GALE, IMPERIAL COLLEGE, LONDON, UK

**17.00-17.30 CLOSING DISCUSSION AND CONCLUSION OF THE DAY**

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