

10th



CNAPS

Circulating Nucleic Acids
in Plasma and Serum

CNAPS INTERNATIONAL SYMPOSIUM **RECENT ADVANCES IN CIRCULATING DNA & RNA**

September 20-22, 2017
MONTPELLIER, FRANCE

■ www.cnaps2017.com



Preliminary Program





□ **Organizing Committee**

Alain R. Thierry

Safia El Messaoudi

Peter Gahan

Institute of Oncology Research of Montpellier

*INSERM: National Institute of Health and Medical
Research*

Montpellier, France

□ **Scientific Committee**

Philippe Anker

Luis Diaz

Frank Diehl

Mickael Fleischhacker

Dennis Lo

Nitzan Rozenfeld

Heidi Schwarzenbach

Maurice Stroun

Welcome

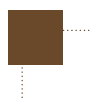
The organizing committee warmly welcomes you to the **10th international symposium on circulating nucleic acids in plasma and serum (CNAPS)** to be held at the **Corum, Montpellier**, on **20/22 September 2017**.

The first CNAPS meeting was organized in 1997 by circulating nucleic acid pioneers and was the first meeting dedicated to the circulating DNA and RNA field. Such meetings are organized every two years by scientists in either America, Asia or Europe.

CNAPS meetings are unique as they focus on and link together basic and applied research.

This event offers a unique opportunity for scientists and clinicians to interact, discuss with companies and share knowledge with colleagues in the broader CNAPS and liquid biopsy community.

*Alain Thierry
Safia El Messaoudi
Peter Gahan*



1.00pm OPENING AND REGISTRATION

2.00pm WELCOME ADDRESS / *The organizing committee*

2.10-3.45pm SESSION: STRUCTURES AND DETECTION OF CIRCULATING NUCLEIC ACIDS

○ Introductory remarks

AR. Thierry - Institute of Research on Cancer of Montpellier INSERM (Montpellier, France)

○ 4 flash presentations

Chairmen: S. Holdenrieder - University Hospital Bonn (Bonn, Germany), F. Mouliere - Cancer Research UK Cambridge Institute, University of Cambridge (Cambridge, UK)

- H. Underhill (Salt Lake City, USA)

Harnessing family size to reduce false positives and improve detection of very low frequency tumour-derived variants in cell-free DNA

- J. Moss (Jerusalem, Israel)

Identifying tissue origins of cell-free DNA by DNA methylation

- J. Tanaka (Tokyo, Japan)

New droplet digital PCR combining asymmetric PCR and melting curve assay for detecting KRAS mutation

- D. Semenov (Novosibirsk, Russia)

Human blood plasma circular RNAs

○ Industrial communication

- Mark Eccleston - Volition (Innes, Belgium)

Epigenetically Modified Circulating Nucleosomes: A Novel Immunoassay Platform for Detecting Cancer

3.45-4.15pm Coffee Break, Poster and Sponsorship Exhibition

4.15-6.15pm SESSION: ONCOLOGY 1

○ Keynote lecture

L. Diaz - Memorial Sloan Kettering Cancer Center (New York, USA)

Overview of the potential of CNAPS in oncology

4.35pm *N. Papadopoulos - Johns Hopkins University School of Medicine (Baltimore, USA)*
Liquid Biopsy for the early detection of cancer: applications in screening and minimal residual disease

4.50pm *A. Bardelli (Torino, Italy) - Candiolo Cancer Institute, University of Turin (Torino, Italy)*
Cancer evolution as a therapeutic target

○ Industrial communication

- M. Fleischhacker - Qiagen (Berlin, Germany)

A standardized approach for the quantification of cell-free methylated plasma DNA in lung cancer patients

○ 4 flash presentations

Chairman : L. Diaz - Memorial Sloan Kettering Cancer Center (New York, USA)

- S. Lin (Santa Monica, USA)

Identification of Tumor Heterogeneity in Early-Stage Regional Metastasis through Multigene Profiling of Cell-Free DNA (cfDNA) in Melanoma Patients

- D. Ganesamoorthy (Brisbane, Australia)

Detection of tumour specific signatures in cell-free DNA samples

- E. Moore (Cambridge, UK)

TP53 mutations in circulating tumour DNA as a diagnostic biomarker in high-grade serous ovarian cancer

- M.J. Heller (La Jolla, USA)

Rapid isolation and detection of cf-DNA and exosome biomarkers from brain, pancreatic, prostate and other cancer patients' blood, plasma and serum samples



8.00am OPENING AND REGISTRATION

8.30-10.15am SESSION: BIOLOGICAL FUNCTIONS OF CIRCULATING NUCLEIC ACIDS

○ Keynote lecture

E. Rykova - Institute of Chemical Biology and Fundamental Medicine (Moscow, Russia)
Cell-free DNA immune properties: driving force in disease and therapeutic power

○ 4 flash presentations

Chairman: P. Anker (Beaumont, France)

- *A. Bronkhorst (Potchefstroom, South Africa)*

A new perspective on the origin and function of actively released cell-free DNA in cancer

- *M. Korabecna (Prague, Czech Republic)*

Cell-free DNA from human plasma and serum differs in content of telomeric sequences

- *S. Kirolikar (Mumbai, India)*

Prevention of radiation-induced by-stander effects by agents that neutralize/degrade cell-free chromatin released from irradiated dying cells

- *P. Ulz (Graz, Austria)*

Nucleosome occupancy of cfDNA informs about gene expression

10.15-10.45am Coffee Break, Poster and Sponsorship Exhibition

10.45-12.30am SESSION: PRENATAL DIAGNOSIS

○ Keynote lecture

D. Lo, Future Science Prize Sept. 15, 2016 - The Chinese University of Hong Kong (Hong Kong, China)

Pushing forward the limit of non-invasive prenatal testing

11.15am *L. Hui - Mercy Hospital for Women (Melbourne, Australia)*

Non-invasive prenatal testing for fetal aneuploidy – a success story

11.40am *S. Hamamah - University Hospital Center Montpellier (Montpellier, France)*

Applications of cell free DNA in pre-implantation and pre-implant diagnostics

○ 2 flash presentations

Chairmen: D. Lo - Future Science Prize Sept. 15, 2016 - The Chinese University of Hong Kong (Hong Kong, China), L. Hui - Mercy Hospital for Women (Melbourne, Australia)

- *M. Parks (Birmingham, UK)*

A direct “from plasma” approach from non-invasive prenatal foetal sex determination and Rhesus D genotyping by quantitative PCR

- *W. Hofmann (Konstanz, Germany)*

NIPT study – detection of foetal trisomy 21 based on methylation-specific quantitative real-time PCR (qNIPT)

12.30-2.00pm Lunch, Poster Session and Sponsorship Exhibition

2.00pm

○ Industrial communication

- *J. Jackson (BioRad)*

Ultra-sensitive Rare Event Detection and Quantification: Utilizing Digital PCR for Liquid Biopsy

2.25-4.00pm SESSION: cirRNA IN ONCOLOGY

○ Keynote lecture

H. Schwartzenbach - University Medical Center Hamburg-Eppendorf (Hamburg, Germany)
Clinical significance of circulating, cell-free and exosomal microRNAs in gynecological carcinomas

○ 4 flash presentations

Chairman: H. Schwartzenbach - University Medical Center Hamburg-Eppendorf (Hamburg, Germany)

- *M. Tewari (Ann Arbor, USA)*

A multi-institution, multi-protocol study of the accuracy, reproducibility and bias of quantitative small RNAseq for circulating cell-free RNA profiling

- *P. Laktionov (Novosibirsk, Russia)*

Screening for miRNA markers of prostate cancer in urine: micro-array, data analysis, verification and development of diagnostic algorithm

- *V. Gezer (Istanbul, Turkey)*

Circulating H4K20me3 and SUV420H2 mRNA in plasma of patients with colorectal cancer

- *D. Garcia-Olmo (Torrelameu, Spain)*

Potential clinical significance of peri-operative levels of mRNA in plasma from patients with cancer of the larynx or hypopharynx



Thursday
■ 21 September

■ CNAPS INTERNATIONAL SYMPOSIUM
Preliminary Program

4.00-4.30pm Coffee Break, Poster and Sponsorship Exhibition

4.30-6.00pm WORKSHOP 1: SOP FOR PRE-ANALYTICAL PROCEDURES

Chairmen : M. Fleischhacker - Qiagen (Berlin, Germany), S. EL Messaoudi - Institute of Oncology Research of Montpellier (Montpellier, France), D.Tsui - Memorial Sloan Kettering Cancer Center (New York, USA)

○ 1 flash presentation

- H. Markus (Phoenix, USA)

Evaluation of pre-analytical factors affecting plasma DNA analysis

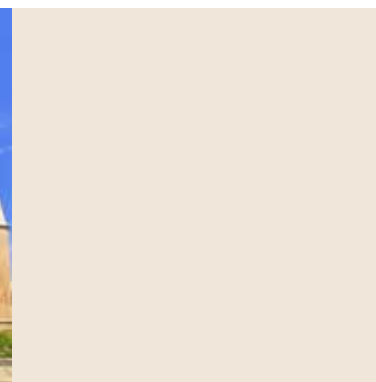
○ Workshop organized by the chairmen

Necessity, update and discussion with the attendance on SOP

6.30pm GALA DINNER AT A BEACH RESTAURANT

Departure by bus at 6.30pm from the Corum

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Welcome to
Montpellier



Friday
■ 22 September

■ CNAPS INTERNATIONAL SYMPOSIUM
Preliminary Program

8.00am OPENING AND REGISTRATION & SPONSORSHIP EXHIBITION

8.30-10.15am SESSION: ONCOLOGY 2

○ Keynote lecture

N. Rosenfeld - Cancer Research UK Cambridge Institute (Cambridge, UK)
Mining cell-free DNA by deep sequencing of cancer mutations across the genome

08.55am *S. Kopetz - MD Anderson Cancer Center (Houston, USA)*
Immediate Opportunities for Integration of ctDNA in Clinical Practice

09.20am *P. Laurent-Puig - Université Paris Descartes, Hôpital Européen Georges Pompidou (Paris, France)*
ctDNA in clinical practice different example of application

○ 2 flash presentations

Chairman: N. Rosenfeld - Cancer Research UK Cambridge Institute (Cambridge, UK)

- *S. Bhide (Sutton, UK)*
Predicting response to radical (chemo) radiotherapy with circulating HPV DNA locally-advanced head and neck squamous carcinoma

- *E. Heitzer (Graz, Austria)*
Untargeted monitoring of treatment response in metastatic breast cancer patients undergoing systemic and/or HER2- targeting treatment

10.30-11.00am Coffee Break, Poster and Sponsorship Exhibition

11.00-12.30am SESSION: HEALTHY, TRANSPLANT
AND OTHER PHYSIO-PATHOLOGICAL CONDITIONS

○ Keynote lecture

I. Mitra - Tata Memorial Centre (Mumbai, India)
DNA outside the cell: a new paradigm in biology

○ 5 flash presentations

Chairman: I. Mitra - Tata Memorial Centre (Mumbai, India)

- *M. Hackl (Vienna, Austria)*

Circulating microRNAs as biomarkers for patient stratification in osteoporosis and cardiovascular disease

- *S.K. Goh (Melbourne, Australia)*

Non-invasive surveillance of organ health after liver transplantation using donor-specific cell-free DNA

- *M. Murtazza (Phoenix, USA)*

Identification of pathogens in patients with sepsis using whole genome plasma DNA sequencing

- *K. Sohn (Stuttgart, Germany)*

Sepsis diagnostics by next generation sequencing of cfDNA

- *S. Perikles (Mainz, Germany)*

Exercise as a model to study cell-free DNA biology

12.30-2.00pm Lunch, Poster Session and Sponsorship Exhibition

2.00-2.30pm SESSION: REGULATION & QUALITY ASSURANCE

○ Keynote lecture

A. Ritzhaupt (EMA, Berlin, Germany)
To be announced

2:30-2:45pm ANNOUNCEMENT OF POSTER PRIZE WINNERS AND
PRESENTATIONS ANNOUNCEMENT OF VENUE FOR CNAPS XI

2.45-4.15pm WORKSHOP 2: NOMENCLATURE

Chairmen: All the members of the scientific committee

A vote from all the participants will be organized at the start of the meeting and results will be discussed and validated at the workshop.

4.15pm CLOSURE OF X CNAPS MEETING





Eventime Montpellier
Palais des Congrès Le Corum
Esplanade Charles de Gaulle
34000 Montpellier - France
www.eventime-group.com

> *Partners contact*

Djamila KERROUZI

djamila.kerrouzi@eventime-group.com

Tel : +33 (0)4 91 94 54 72

> *Secretariat & registration*

Valérie Elma

valerie.elma@eventime-group.com

Tel : +33 (0)4 67 61 66 65

□ **Venue**

> *The Corum Conference Centre*

Montpellier Downtown

How to get there?

The Corum

Esplanade Charles De Gaulle

BP 2220 - 34000 Montpellier

www.montpellier-events.com

> *Getting to the Corum by car*

Follow signs for Montpellier - Centre Historique - Le Corum
Underground car park (charge): 2 entrances – 500 spaces

Set-down on the west side near the bus stops

> *Pedestrian access*

Office entrance via Esplanade Charles de Gaulle - south side

Level 0 entrance: west side by the bus stop/access via Crowne Plaza

Level 1 entrance: east side

> *Getting to the Corum by tram*

Lines 1 – 2 – 4 – Le Corum stop

Tram lines 2 and 4 (2 stops)

10 minutes' walk

> *Getting to the Corum from the airport*

Airport shuttle – line 120 – get off at the 'Place de l'Europe' (www.herault-transport.fr)

- Taxi call kiosk at airport

Tel.: +33 (0)4 67 20 65 29

- Méditerranée airport taxi group

Tel.: +33 (0)4 30 96 60 00

- Other Montpellier airport taxi group

Tel.: +33 (0)7 81 46 58 77





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- Abstract submission closed.

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› *Registration fees:*

Industry



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