

# V Molecular Cytopathology

## Focus on Next Generation Sequencing in Cytopathology

Cytology is undergoing a change. The focus of this one-day meeting is on the need of cytologists to embrace such change and to integrate molecular cytopathology into practice

### ISCRIZIONI

Quota di partecipazione: **euro 30,00** (iva inclusa). La quota d'iscrizione dà diritto alla partecipazione ai lavori, al kit congressuale, al coffee break e all'attestato di partecipazione. Per iscriversi è necessario compilare la scheda d'iscrizione (scaricabile dal sito [www.concertosrl.net](http://www.concertosrl.net)) ed inviarla entro il **14 ottobre** per e-mail o a mezzo fax, alla Segreteria Concerto Srl assieme alla copia del bonifico bancario effettuato sul conto corrente intestato a Concerto Srl codice **IBAN: IT34V0103003400000063157340**

### Razionale

This congress aims to update the field of molecular predictive pathology focusing on diagnostic tests performed on histology, cytopathology and on blood samples. While until recently, pathological samples were only tested by sequential single-gene hotspot mutational tests, today, with the better understanding of the molecular events involved in malignancy and the mechanisms of pharmacotherapy, larger gene panels are more informative than a single biomarker detection. A rapidly evolving field is also represented by the liquid biopsy and its application to guide treatment selection and follow-up of oncological patients. In addition predictive tests in the field of immunotherapy need also to be discussed in order to standardize assays and biomarkers.

This congress addresses:

1. the most relevant methodological and technical aspects of NGS analysis workflow and the diverse platforms available;
2. the issues related to liquid biopsy daily practice implementation, namely, the pre-analytical sample requirement and the validation procedures;
3. the opportunities that novel predictive biomarkers offers, to extend the analysis to a larger number of oncological patients. Pathologists' involvement and coordination in this rapidly evolving field is crucial for the effective implementation of predictive pathology in the present and future clinical practice.



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## Focus on Next Generation Sequencing in Cytopathology

Napoli  
Tuesday 18 October 2016

Meeting Director  
Giancarlo Troncone

Università degli Studi  
di Napoli Federico II  
Dipartimento di Sanità  
Pubblica

Centro Congressi  
Federico II  
Via Partenope 36  
80121 Napoli

### h 9.00 Welcome

**Gaetano Manfredi**  
 Rettore Università degli studi  
 di Napoli Federico II  
**Maria Triassi**  
 Direttore Dipartimento  
 Sanità Pubblica  
**Lucio Palombini**  
 Professore Emerito  
**Gaetano De Rosa**  
 Presidente SIAPEC-IAP  
**Mauro Truini**  
 Presidente Eletto SIAPEC-IAP

### I session

**Next generation sequencing (NGS):  
an overview**  
Chairmen: **Ambrogio Fassina** (Padova)  
**Leonardo Resta** (Bari)

### 9:00-9:20

**Lucio Palombini** (Napoli)  
Cytological Preparations: the method

### 9:20-9:40

**Matteo Fassan** (Padova)  
NGS overview: technologies

### 9:40-10:00

**David Hwang** (Boston)  
Cytologic Preparations for Next  
Generation Sequencing: An Analysis  
of Quality Indicators

### 10:00-10:20

**Sinchita Roy-Chowdhuri** (Houston)  
Factors affecting the success of  
next-generation sequencing in cytology  
specimens

### 10:20-10:30 Discussion

### 10:30-11:00 Coffee Break

**II Session : Next generation  
technologies on lung cytology**  
Chairmen: **Oscar Nappi** (Napoli)  
**Antonio Vetrani** (Napoli)

### 11:00-11:20

**Maria Lozano** (Pamplona)  
Is EGFR FISH feasible on stained  
cytological sample?

### 11:20 -11:40

**Umberto Malapelle** (Napoli)  
Development of the SiRe (NSCLC, GIST,  
CRC and Melanoma) NGS panel

### 11:40 -12:00

**Miguel Angel Molina** (Barcellona)  
Multitarget assay on cytology: not only  
NGS

### 12:00-12:20

**Marina Nikiforova** (Pittsburgh)  
A Multiplexed Amplicon Approach for  
Detecting Gene Fusions by  
Next-Generation Sequencing

### 12:20-12:30 Discussion

### 12:30-13:30 Lunch

### 13:30-14:00 Lecture

Chairmen: **Massimo Santoro** (Napoli)  
**Alfredo Fusco** (Napoli)

**THYROSEQ2 on thyroid cytology:  
the ideal rule-in rule-out test.**  
**Yuri Nikiforov** (Pittsburgh)

### III Session: Next generation technologies on thyroid cytology

Chairmen: **Guido Fadda** (Roma),  
**Giovanni Tallini** (Bologna)

### 14:00-14:20

**Fulvio Basolo** (Pisa)  
Role of gene expression profiling  
in defining indeterminate thyroid

### 14:20-14:40

**Dario de Biase** (Bologna)  
Molecular analysis in the pre-operative  
diagnosis of small sized thyroid nodules

### 14:40-15:00

**Claudio Bellevicine** (Napoli)  
Molecular cytopathology in the diagnosis  
of undetermined thyroid FNAs:  
the Napoli Experience

### 15:00-15:20

**Michita Nishino** (Boston)  
Molecular cytopathology for thyroid  
nodules: rule-out tests

### 15:20- 15:30 Discussion

### 15:30-16:00 Coffee Break

### IV Session : Future prospective: focus on immunotherapy

Chairmen: **Gerardo Botti** (Napoli)  
**Pio Zeppa** (Salerno)

### 16:00-16:20

**Daniilo Rocco** (Napoli)  
Immunotherapy: a new weapon

### 16:20-16:40

**Massimo Barberis** (Milano)  
Immunohistochemistry for PDL1  
evaluation

### 16:40-17:00

**Gabriella Fontanini** (Pisa)  
Incorporation of PDL1 testing in clinical  
practice

### 17:00-17:20 Discussion and meeting conclusion

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**Centro Congressi Federico II - Via Partenope 36 - 80121 Napoli**

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