

IV 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

PROGRAMME

h 9.00 Welcome

Gaetano Manfredi
 Rettore Università degli studi di Napoli Federico II
Maria Triassi
 Direttore Dipartimento Sanità Pubblica
Gaetano De Rosa
 Presidente SIAPEC-IAP

h 9.20 Meeting overview

Giancarlo Troncone (Napoli)
Next Generation Cytopathology

I Session: Update on Molecular cytopathology

Chairmen:
Pio Zeppa (Salerno)
Franco Fulcinitti (Locarno)

h 9.30-9.50

Philippe Vielh (Paris)
Molecular cytopathology as a diagnostic tool

h 9.50-10.10

Fernando Schmitt (Luxemburg)
Molecular cytopathology as a predictive tool

h 10.10-10.30

Spasineha Savic (Basel)
FISH role in molecular cytopathology

h 10.30-10.50

Massimo Barberis (Milano)
Molecular Testing and EBUS

h 10.50-11.10

Ambrogio Fassina (Padova)
Novel approach in effusions cytopathology

h 11.10-11.20

Discussion

Co ee Break

II Session: NGS analysis on cytology

Chairmen:
Oscar Nappi (Napoli)
Gerardo Botti (Napoli)

h 12.00-12.20

Umberto Malapelle (Napoli)
How to make NGS working on cytology

h 12.20-12.40

Gabriella Fontanini (Pisa)
Multitarget assay on cytology: not only NGS

h 12.40-13.00

Dario de Biase (Bologna)
High sensitive assays on pancreatic cytology

h 13.00-13.20

Manuel Salto Tellez (Belfast)
How to validate NGS on cytology

h 13.20-13.30

Discussion

h 13.30-14.30 Lunch

Until recently, cytological samples were only tested by sequential single-gene mutational tests. Next generation sequencing, matched with multiplex capture of targeted gene regions and analysed by sophisticated bioinformatics tools, enables the simultaneous detection of multiple mutations in multiple genes. By the development of miniaturized technology and of benchtop sequencers it is not unlikely that NGS will soon be adopted for routine molecular diagnostics, including cytological samples.

A number of experts will discuss the opportunities that NGS offers in different fields of cytopathology, to increase mutation detection sensitivity in paucicellular smears and to extend the analysis to a larger number of gene regions.

III Session

Chairmen:
Antonio Vetrani (Napoli)

h 14.30-14.50

Magistral lecture
Carlos Bedrossian (Chicago)
Pleuro-Pulmonary Cytopathology in the Era of Translational Medicine: Changes, Challenges and Opportunities

IV Session: Liquid Biopsy

Chairmen: **Juan Carlos Martinez Montero** (Madrid)
Pietro Micheli (Napoli)

h 14.50-15.10

Miguel Angel Molina (Barcellona)
EGFR mutations in circulating tumour DNA

h 15.10-15.30

Antonio Marchetti (Chieti)
Quantification of EGFR mutations in plasma samples of NSCLC patients: clinical implications

h 15.30-15.40

Discussion

V Session: Thyroid Molecular Cytopathology

Chairmen: **Bernardette Biondi** (Napoli) **Domenico Salvatore** (Napoli)

h 15.40-16.00

Guido Fadda (Roma)
Italian consensus on Thyroid cytology

h 16.00-16.20

Giovanni Tallini (Bologna)
ATA guidelines and molecular testing

h 16.20-16.40

Anna Crescenzi (Roma)
Thyroid core needle biopsy: taking stock of the situation

h 16.40-17.00

Ester Diana Rossi (Roma)
Cytological changes and BRAF mutations

h 17.00-17.20

Markus Eszlinger (Leipzig)
Development of molecular assay on thyroid routine smears

h 17.20-17.40

Claudio Bellevicine (Napoli)
How NGS can refine the risk of malignancy of indeterminate thyroid FNA

h 17.40-17.50

Discussion

h 17.50-18.00 General discussion and take home messages

Napoli, Friday 4
December 2015

Meeting Director
Giancarlo Troncone

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Via Partenope 36
80121 Napoli

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.siapec.it) ed inviarla entro il **30 novembre** 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**



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