

## RATIONALE

Pituitary neuroendocrine tumour (Pit-NET) represents a complex disease. The clinical manifestations of Pit-NETs are multiple and heterogeneous, according to the ability of secreting different hormones or pro-hormones and of invading the neighbouring anatomical structures, such as the same pituitary gland, the optical chiasm, the cavernous sinus, the bone, the third ventricle and the ventricular system.

In the most recent years, a better definition of these neoplasia was researched in order to identify biomarkers able to predict the natural history of Pit-NET and their responsiveness to the different treatments.

Until now, the classifications of the neoplasms arising from adeno-hypophysial cells have been misleading because of their poor reproducibility and their weak ability in predicting the aggressiveness, the prognosis, and the outcome of these neoplasia. The 2004 WHO classification distinguished pituitary adenoma in typical and atypical ones according to the detection of mitoses and according to the expression of Ki-67 or p53. The 2004 WHO classification however failed in identifying pituitary tumours refractory to medical, surgical or radiation therapies or able to regrowth or to metastasize. Similarly, the new 2017 WHO classification lacks in defining the prognosis of pituitary neoplasia. Invasive, recurrent and proliferative pituitary neoplasia cause significant morbidity, in particular in cases of persistence hormonal hyper-secretion. Both long term hormonal hyper-secretion and hypopituitarism, in absence of an adequate hormonal replacement therapy, are associated to increased morbidity and mortality for their systemic complications.

Therefore, recently, pituitary adenomas were recognised as neuroendocrine tumors (NETs). This new terminology of pituitary neuroendocrine tumor (PitNET) reflects better the potential for aggressiveness and malignant behaviour and of these neoplasia.

On this basis, in the recent years, a wide number of research investigated the genetic, molecular and biological features of PitNETs, in order to predict the clinical behaviour of these neoplasia. The current event has the aim of update participants on the last year biological, genetic and clinical acquisitions on PitNET and on their impact in the management of PitNET affected patients according to the new knowledge, that requires a close clinical collaboration between pathologists, neurosurgeries and endocrinologists.

The meeting is part of the teaching activities of the Master Degree in Diagnosis and Treatment of pituitary disease (2020) - Faculty of Medicine, Università Cattolica del Sacro Cuore, Rome.

DIRECTOR Prof. ALFREDO PONTECORVI  
*Professor of Endocrinology*  
Fondazione Policlinico Universitario A. Gemelli  
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## RESPONSABILE SCIENTIFICO

Prof.ssa Laura De Marinis

Coordinatore Scientifico del Master Universitario di II Livello in diagnosi e terapia delle patologie ipotalamo ipofisarie Policlinico Universitario A. Gemelli, Roma

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## ECM 680 - 309094

L'evento è accreditato per n° 80 partecipanti per le seguenti figure professionali:

- **Medico-Chirurgo:** Anatomia Patologica, Chirurgia Generale, Endocrinologia, Gastroenterologia, Genetica Medica, Malattie Metaboliche e Diabetologia, Medicina Interna, Medicina Nucleare, Neurochirurgia, Neuroradiologia, Oftalmologia, Otorinolaringoiatria, Patologia Clinica (Laboratorio di Analisi Chimico-Cliniche e Microbiologia), Radiodiagnostica, Radioterapia.
- **Infermiere**

## Assegnati n. 15 Crediti Formativi ECM

## OBIETTIVO FORMATIVO

Documentazione clinica. Percorsi clinico assistenziali diagnostici e riabilitativi, profili di assistenza-profilo di cura.

## PRE-ISCRIZIONE

L'iscrizione è gratuita fino a esaurimento posti (n. 80 partecipanti) e potrà essere effettuata cliccando su:  
<https://bit.ly/2IsE1lm>

Si ricorda che l'attestazione dei crediti formativi ECM è subordinata alla partecipazione del 90% della durata dei lavori, alla compilazione della scheda di valutazione dell'evento e al superamento della prova di apprendimento (questionario, almeno 75% risposte esatte).

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# The biological and molecular mechanisms in pitnet and their relationship with the personalized therapy

## LAST YEAR UPDATE

Responsabile Scientifico  
**Laura De Marinis**

Con il patrocinio di

**Gemelli**

Fondazione Policlinico Universitario Agostino Gemelli IRCCS  
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26<sup>th</sup> 27<sup>th</sup>  
November 2020



## 1st DAY | Thursday, 26th November 2020

13.30 Introduction: **L. De Marinis**

Welcome Speech: **L. Festa, A. Pontecorvi, A. Olivi, A. Scoppola**

14.00 Botticelli's Venus and its pituitary adenoma - **P. Pozzilli**

### I SESSION: New genetic knowledge and acquisitions on PitNETs: an update

Chairmen: **M. L. Jaffrain-Rea, M. Zollino**

14.10 ACTH secreting pituitary tumors: from adenoma to carcinoma - **S. Cannavò**

14.30 Somatic and germline changes in pituitary neuroendocrine tumours, PitNETs  
**M. Korbonits**

14.50 The genetic basis of Pit-NETs among the endocrine syndromes - **E. D. Capoluongo**

15.10 New potential treatments for PitNETs: from bench to bedside - **M. C. Zatelli**

15.30 Discussion

16.00 Conclusions

## 2nd DAY | Friday, 27th November 2020

### LECTURE

Chairmen: **V. Toscano, P. Zuppi**

08.30 New knowledges on hormonal replacement therapy of growth hormone deficit in PitNET - **A. Giampietro**

### LECTURE

Chairmen: **A. Pontecorvi, C. Scaroni**

09.00 Novel guidelines for the multidisciplinary management of acromegaly - **A. Giustina**

### II SESSION: New pathological knowledges and acquisitions on PitNETs

Chairman: **A. Farsetti**

09.30 Criteria and controversies of the microscopic classification of pituitary neuroendocrine tumours: are transcription factors the answer? - **C. Villa**

10.00 How the new biological and molecular knowledges may impact on the medical management of PitNET? - **E. Peverelli**

10.30 Discussion

10.45 Break

### LECTURE

Chairmen: **L. De Marinis, A. Olivi**

11.00 How the new biological and molecular knowledges may impact on the neuro-surgical management of PitNET? - **F. Doglietto**

### III SESSION: New genetic and molecular knowledges in the multidisciplinary approach of PitNET in Pituitary Tumor Centers of Excellence: an update

Chairmen: **A. Bianchi, A. Scoppola**

11.30 Role of the expert in osteoporosis - **S. Frara, A. Spada**

11.50 Role of the expert in neuroradiology - **T. Tartaglione**

12.10 Role of the expert in translational medicine - **F. Gatto**

12.30 Role of the expert in pituitary pathology - **M. Gessi**

12.50 Discussion

13.10 Lunch

Chairmen: **C. Anile, A. Olivi**

14.10 - The expert in neurosurgery - **F. Doglietto**

14.30 - The expert in otorinolaringoiatry - **M. Rigante**

14.50 Role of the experts in radiotherapy - **F. Beghella Bartoli, G. Minniti**

15.10 Discussion

### LECTURE

Chairman: **A. Giordano**

15.30 Molecular mechanism and new radio-metabolic treatment in neuroendocrine neoplasia (NEN) - **L. Zagaria**

### IV SESSION: How the new biological and molecular knowledges may impact on the medical therapies of PitNET: an update

Chairmen: **R. Baldelli**

16.00 ACTH secreting PitNET - **M. C. De Martino**

16.20 GH secreting PitNET - **A. Bianchi**

16.40 Not secreting PitNET - **P. Maffei**

17.00 Prolactin secreting PitNET - **S. Chiloiro**

17.20 Discussion

## FACULTY

Carmelo Anile, Roma

Roberto Baldelli, Roma

Francesco Beghella Bartoli, Roma

Antonio Bianchi, Roma

Salvatore Cannavò, Messina

Ettore Domenico Capoluongo, Roma

Sabrina Chiloiro, Roma

Laura De Marinis, Roma

Maria Cristina De Martino, Napoli

Francesco Doglietto, Brescia

Lucia Festa, Roma

Antonella Farsetti, Roma

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Mario Gessi, Roma

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Carla Scaroni, Padova

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Paolo Pozzilli, Roma

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Carla Scaroni, Padova

Alessandro Scoppola, Roma

Antonio Spada, Roma

Chiara Villa, Parigi

Luca Zagaria, Roma

Paolo Zuppi, Roma