Conference Program

11th Annual ENETS Conference for the Diagnosis and Treatment of Neuroendocrine Tumor Disease

5 - 7 March 2014
Barcelona
<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>05.03.2014</td>
<td></td>
<td>Postgraduate course</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Welcome Reception</td>
</tr>
<tr>
<td>06.03.2014</td>
<td></td>
<td>Interactive Workshops</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Welcome and Introduction</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Session 1: Challenges in NET diagnosis</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Coffee break and poster viewing</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Session 2a: Clinical Abstracts</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Session 2b: Basic Science Abstracts</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Symposium I + Lunch</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Session 3a: Clinical Abstracts</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Session 3b: Basic Science Abstracts</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Nurses Symposium</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Interactive Case Discussion I</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ENETS General Assembly</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Symposium II</td>
</tr>
<tr>
<td>07.03.2014</td>
<td></td>
<td>Interactive Workshops</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ENETS-NANETS Young Investigator Symposium</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Session 4: Problems in managing patients with carcinoid syndrome</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Interactive Workshops</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Interactive Case Discussion II</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Coffee break and poster viewing</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Keynote Lecture: Present and future state of PRRT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2013 ENETS-Ipsen fellowship overview</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2014 ENETS Centers of Excellence Certification Ceremony</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Young Investigator Awards</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Session 5a: Genomic Sequencing</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Session 5b: NETs and the GI endoscopist</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Symposium III + Lunch</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Session 6: Pro and Con - Apparently resectable liver METs: Should the surgeon go upfront?</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Best abstracts of 2014 (Poster synthesis and overview)</td>
</tr>
</tbody>
</table>
Session 7: What's new in my field? ................................................................. 14
Concluding Remarks .................................................................................. 14
Wednesday, 05.03.2014

Postgraduate course

Time: Wednesday 08:15 - 17:15
Room: Meeting room 112

The postgraduate program is designed for clinicians and researchers new to NET diagnosis and therapy. The course is a ticketed event with limited seats which costs €100 (€ 150 - registration fee after Feb 16, 2014 and on-site) per participant.

08:15 - 09:15 Registration and coffee

09:15 - 09:40 Introduction and overview
    Martyn Caplin, GBR

09:40 - 10:00 Histology for NETs
    Aurel Perren, SUI

10:00 - 10:20 Familial NET syndromes
    Dermot O'Toole, IRL

10:20 - 10:30 Panel Questions

10:30 - 11:00 Familial NET case presentation
    Ulrich-Frank Pape, GER

11:00 - 11:30 Coffee break

11:30 - 11:50 Bronchial NET investigation and management
    Piero Ferolla, ITA

11:50 - 12:10 Bronchial NET case presentation
    Christos Toumpanakis, GBR

12:10 - 12:20 Panel Questions

12:20 - 12:45 The role of Somatostatin analogues in functional and non-functional GEP-NETs
    Marianne Pavel, GER

12:45 - 13:45 Lunch

13:45 - 14:15 Midgut NET case presentation
    Bertram Wiedenmann, GER

14:15 - 14:40 Gastrinoma
    Robert Jensen, USA

14:40 - 15:05 Insulinoma
    Beata Kos-Kudla, POL

15:05 - 15:25 VIPoma and PTHrPoma
    Kjell Öberg, SWE

15:25 - 15:35 Panel Questions

15:35 - 16:00 Coffee break

16:00 - 16:30 Liver transplant case presentation
    Philippe Ruszniewski, FRA

16:30 - 17:00 Molecular targeted therapies: Now and the future
    Matthew Kulke, USA

17:00 - 17:10 Summary and closing comments
    Martyn Caplin, GBR

Welcome Reception
Time: Wednesday 18:00 - 20:00
Room: Exhibition area
Thursday, 06.03.2014

**Interactive Workshops**

**Time:** Thursday 07:30 - 08:30

**Meeting room 123**  
**Biology of NETs in rare locations**  
(Sponsored by Industry)  
*Marco Volante, ITA*

**Meeting room 124**  
**Lung NET**  
(Sponsored by Industry)  
*Eric Baudin, FRA / Jean-Yves Scoazec, FRA / Joel Guigay, FRA*

**Meeting room 125**  
**Paraganglioma and malignant pheochromocytoma**  
(Sponsored by Industry)  
*Jacques Lenders, NED*

**Meeting room 127**  
**Radioembolization**  
(Sponsored by Industry)  
*Heinz-Josef Klümpen, NED*

**Meeting room 128**  
**Small non-functioning pNETs**  
(Sponsored by Industry)  
*Alain Sauvanet, FRA*

**Welcome and Introduction**

**Time:** Thursday 08:30 - 08:45  
**Room:** Meeting room 113-116 (Plenary)

08:30 - 08:45  
**Welcome and Introduction**  
*Jaume Capdevila, ESP / Kjell Öberg, SWE*

**Session 1: Challenges in NET diagnosis**

**Time:** Thursday 08:45 - 10:45  
**Room:** Meeting room 113-116 (Plenary)  
M. Pavel, Berlin, Germany; P. Ruszniewski, Clichy, France

08:45 - 09:15  
**Should we change the Ki-67 thresholds?**  
*Jean-Yves Scoazec, FRA*

09:15 - 09:45  
**Chromogranin A: How useful is it?**  
*Margot Tesselaar, NED*

09:45 - 10:15  
**Liver metastases are not so easy**  
*Dominic Yu, GBR*

10:15 - 10:45  
**The future of nuclear medicine diagnosis**  
*Lisa Bodei, ITA*

**Coffee break and poster viewing**

**Time:** Thursday 10:45 - 11:30  
**Room:** Exhibition area

---

**Parallel Sessions**

**Session 2a: Clinical Abstracts**

**Time:** Thursday 11:30 - 12:30

**Session 2b: Basic Science Abstracts**

**Time:** Thursday 11:30 - 12:30
Room: Meeting room 113-116 (Plenary)
Chairs: P. Ferolla, Perugia, Italy; D. Gross, Jerusalem, Israel
11:30 - 11:45
High Grade (G3) Neuroendocrine Neoplasms Should be Further Classified According to Morphological Differentiation
Dalvinder Mandair, GBR

11:45 - 12:00
A Molecular Multi-Transcript Gene Blood Signature Significantly Outperforms Chromogranin A (CgA) in the Detection of Gut Neuroendocrine Tumors (NETs)
Irvin Modlin, USA

12:00 - 12:15
Usefulness of the WHO Classification and of the ENETS TNM Staging System to Predict Prognosis in Patients with Rectal NENs
Lorenzo Pescatori, ITA

12:15 - 12:30
A Three Tier Grading System Based on Ki-67 Index, Mitotic Count and Necrosis With Cut-Offs Specifically Generated for Lung Neuroendocrine Tumors is Prognostically Effective and Accurate
Guido Rindi, ITA

Room: Meeting room 111
Chairs: D. Ferone, Genoa, Italy; T. Ito, Fukuoka, Japan
11:30 - 11:45
Identification of Hypoxia Induced Epigenetic Changes in the Development of Pancreatic Neuroendocrine Tumors
Harpreet Dibra, GBR

11:45 - 12:00
ACTG2 Inhibits Growth and is Epigenetically Repressed in Small Intestinal Neuroendocrine Tumors
Katarina Edfeldt, SWE

12:00 - 12:15
DAXX and ATRX Loss Defines Chromosomal Instability and Poor Outcome in Pancreatic NET
Ilaria Marinoni, SUI

12:15 - 12:30
Interference of Nutrient/Oxygen Availability with mTOR Activation and Inhibition in Lung Carcinoids: A Tissue and Cellular Study
Marco Volante, ITA

Symposium I + Lunch
Time: Thursday 13:00 - 14:30
Room: Meeting room 112
(Sponsored by Industry)
### Session 3a: Clinical Abstracts

**Time:** Thursday 14:30 - 15:30  
**Room:** Meeting room 113-116 (Plenary)  
Chairs: B. Eriksson, Uppsala, Sweden; B. Niederle, Vienna, Austria

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:30 - 14:45</td>
<td>Overall Survival (OS) as a Function of the Number of Therapeutic Lines in Patients with Well-Differentiated Pancreatic Neuroendocrine Tumors (WDPN)</td>
<td>Amandine Berdelou, FRA</td>
</tr>
<tr>
<td>14:45 - 15:00</td>
<td>Progression-Free Survival (PFS) and Tumor Growth with Lanreotide Autogel (LAN) in Patients (Pts) with Enteropancreatic NETs: Results from CLARINET, a Randomized, Double-Blind, Placebo (Pbo)-Controlled Study</td>
<td>Martyn Caplin, GBR</td>
</tr>
<tr>
<td>15:00 - 15:15</td>
<td>The Role of Primary Resection and Hepatic Resection in the Management of Metastatic Pancreatic Neuroendocrine Tumors with Irresectable Liver Metastases</td>
<td>Logan Mills, GBR</td>
</tr>
<tr>
<td>15:15 - 15:30</td>
<td>Telotristat Etiprate (TE) in a Cohort of Carcinoid Heart Disease Patients in Two Phase 2 Trials</td>
<td>Darren Wheeler, USA</td>
</tr>
</tbody>
</table>

### Session 3b: Basic Science Abstracts

**Time:** Thursday 14:30 - 15:30  
**Room:** Meeting room 111  
Chairs: R. Thakker, Oxford, United Kingdom; A. Couvelard, Clichy, France

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:30 - 14:45</td>
<td>Evaluation of Tumor Response to Targeted Therapies in Precision-Cut Slices of Human Pancreatic Neuroendocrine Tumors</td>
<td>Margot Bucau, FRA</td>
</tr>
<tr>
<td>14:45 - 15:00</td>
<td>The Effect of Autophagy Inhibitors Alone or in Combination with mTOR Inhibitors in a Neuroendocrine Tumor Cell Model</td>
<td>Simona Glasberg, ISR</td>
</tr>
<tr>
<td>15:00 - 15:15</td>
<td>Expression of IGF/mTOR pathway components in human pheochromocytomas and in vitro inhibition of PC12 rat pheochromocytoma cell growth by mTOR inhibitors alone and in combination with the dual IGFI-R/I</td>
<td>Maria Cristina De Martino, ITA</td>
</tr>
<tr>
<td>15:15 - 15:30</td>
<td>Inducing, Understanding and Overcoming Resistance to Everolimus in Pancreatic Neuroendocrine Tumors</td>
<td>Timon Vandamme, NED</td>
</tr>
</tbody>
</table>

### Nurses Symposium

**Time:** Thursday 14:30 - 15:30  
**Room:** Meeting room 131 & 132

Registration for the nurses symposium is free of charge.

### Interactive Case Discussion I

**Time:** Thursday 15:40 - 16:40  
**Room:** Meeting room 113-116 (Plenary)  
Chairs: P. Ruszniewski, Clichy, France; J. Capdevila, Barcelona, Spain

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>15:40 - 16:00</td>
<td>Appendix NET</td>
<td>Alexandre Teule, ESP</td>
</tr>
<tr>
<td>16:00 - 16:40</td>
<td>Gastric NET</td>
<td>Louis De Mestier, FRA</td>
</tr>
</tbody>
</table>

### ENETS General Assembly

**Time:** Thursday 17:00 - 18:00  
**Room:** Meeting room 131 & 132
Members only! Entry is free of charge.

### Symposium II

**Time:** Thursday 18:15 - 19:15  
**Room:** Meeting room 112  
(Sponsored by Industry)
Friday, 07.03.2014

**Interactive Workshops**

**Time:** Friday 07:30 - 08:30

**Meeting room 123**  
**Biology of NETs in rare locations**  
(Sponsored by Industry)  
*Marco Volante, ITA*

**Meeting room 124**  
**Lung NET**  
(Sponsored by Industry)  
*Eric Baudin, FRA / Jean-Yves Scoazec, FRA / Joel Guigay, FRA*

**Meeting room 125**  
**Paraganglioma and malignant pheocromocytoma**  
(Sponsored by Industry)  
*Jacques Lenders, NED*

**Meeting room 127**  
**Radioembolization**  
(Sponsored by Industry)  
*Heinz-Josef Klümpen, NED*

**Meeting room 128**  
**Small non-functioning pNETs**  
(Sponsored by Industry)  
*Alain Sauvanet, FRA*

---

**ENETS-NANETS Young Investigator Symposium**

**Time:** Friday 07:30 - 08:30  
**Room:** Meeting room 111

*Chairs: M. Kulke, Boston, MA, USA; J. Yao, Houston, TX, USA; M. Caplin, London, United Kingdom*

Registration for the ENETS-NANETS Young Investigator Symposium is free of charge.

07:30 - 07:40  
**Succinate Dehydrogenase Subunit B (SDHB) Immunohistochemistry Should Not Replace Clinical Genetic Testing for SDHx Mutations in Patients with Pheochromocytoma and Paraganglioma**  
*Lauren Fishbein, USA*

07:40 - 07:50  
**Association Between Tumor Expression of VEGFA, VEGFR1 (FLT1), VEGFR2 (KDR), and Clinical Outcomes in Neuroendocrine Tumors**  
*Zhirong Qian, USA*

07:50 - 08:00  
**Comparison of Manual and Automatic Methods of Ki-67 Proliferation Index For Neuroendocrine Tumors: The Development and Validation of a Novel Digital Pathology Tool (Ki-67Counter)**  
*Lin Yang, USA*
Session 4: Problems in managing patients with carcinoid syndrome

Time: Friday 08:30 - 09:45
Room: Meeting room 113-116 (Plenary)
Chairs: A. Grossman, London, United Kingdom; C. Verslype, Leuven, Belgium

08:30 - 08:45 Refractory carcinoid syndrome
Ivan Borbath, BEL

08:45 - 09:00 Carcinoid heart disease
Joseph Davar, GBR

09:00 - 09:15 Resection of mesenteric disease - how far should the surgeon go?
Göran Åkerström, SWE

09:15 - 09:30 Peritoneal disease: how best to manage it?
Reza Kianmanesh, FRA

09:30 - 09:45 DISCUSSION

Interactive Workshops

Time: Friday 09:30 - 10:30
Meeting room 129  IPSEN Meeting

Interactive Case Discussion II

Time: Friday 09:45 - 10:45
Room: Meeting room 113-116 (Plenary)
Chairs: M. Caplin, London, United Kingdom; M. Falconi, Torrette-Ancona, Italy

09:45 - 10:05 Rectal NET
Dalvinder Mandair, GBR

10:05 - 10:45 Pancreatic NET
Stefano Partelli, ITA

Coffee break and poster viewing
Keynote Lecture: Present and future state of PRRT

Time: Friday 11:15 - 11:45
Room: Meeting room 113-116 (Plenary)
E. Krenning, Rotterdam, The Netherlands
(Recipient of 2014 ENETS Life Achievement Award)
Dedication: D. Kwekkeboom, Rotterdam, The Netherlands
Chair: K. Öberg, ENETS Chairman, Uppsala, Sweden

2013 ENETS-Ipsen fellowship overview

Time: Friday 11:45 - 11:50
Room: Meeting room 113-116 (Plenary)
T. Vandamme, Antwerp, Belgium

2014 ENETS Centers of Excellence Certification Ceremony

Time: Friday 11:50 - 12:00
Room: Meeting room 113-116 (Plenary)
Chair: D. O'Toole, Dublin, Ireland

Young Investigator Awards

Time: Friday 12:00 - 12:15
Room: Meeting room 113-116 (Plenary)
Chair: K. Öberg, ENETS Chairman, Uppsala, Sweden
First, second and third prizes will be awarded to the respective abstract authors in the two categories of basic science and clinical research.

Session 5a: Genomic Sequencing

Time: Friday 12:15 - 13:30
Room: Meeting room 113-116 (Plenary)
Chairs: G. Rindi, Rome, Italy; D. Sidransky, Baltimore, MD, USA

12:15 - 12:30
Towards personalized medicine in NETs
Aldo Scarpa, ITA

12:30 - 12:45
Is it prime time for next generation sequencing in the clinic?
David Sidransky, USA

12:45 - 13:00
Targeting signal transduct - is it enough?
Yosef Yarden, ISR

13:00 - 13:15
Ribosome biogenesis as a new hot target
George Thomas, ESP

13:15 - 13:30
DISCUSSION

Session 5b: NETs and the GI endoscopist

Time: Friday 12:15 - 13:30
Room: Meeting room 111
Chairs: D. O'Toole, Dublin, Ireland; U.-F. Pape, Berlin, Germany

12:15 - 12:35
Standard endoscopy and EUS in the diagnostic setting
Laurent Palazzo, FRA

12:35 - 12:55
Therapeutic endoscopy in managing GEP-NETs
Dermot O'Toole, IRL

12:55 - 13:15
The future of extra luminal tumor treatment
Paolo Georgio Arcidiacono, ITA

13:15 - 13:30
DISCUSSION
Symposium III + Lunch

Time: Friday 13:30 - 14:30
Room: Meeting room 112
(Sponsored by Industry)
Session 6: Pro and Con - Apparently resectable liver METs: Should the surgeon go upfront?

**Time:** Friday 14:30 - 15:15  
**Room:** Meeting room 113-116 (Plenary)  
Chair: B. Wiedenmann, Berlin, Germany  
Invited discussants: L. Bodei, Milan, Italy; C. Verbeke, Stockholm, Sweden

**PRO**
- D. Bartsch, Marburg, Germany  
- G. Delle Fave, Rome, Italy

**CON**
- M. Falconi, Ancona, Italy  
- T. Meyer, London, United Kingdom

Best abstracts of 2014 (Poster synthesis and overview)

**Time:** Friday 15:15 - 15:30  
**Room:** Meeting room 113-116 (Plenary)  
R. Jensen, Bethesda, MD, USA

Session 7: What's new in my field?

**Time:** Friday 15:30 - 16:30  
**Room:** Meeting room 113-116 (Plenary)  
Chairs: B. Kos-Kudla, Katowice, Poland; J. O'Connor, Buenos Aires, Argentina

15:30 - 15:45 **Pathology**  
Aurel Perren, SUI

15:45 - 16:00 **Surgery**  
Thomas Steinmüller, GER

16:00 - 16:15 **Medical oncology**  
Rocio Garcia-Carbonero, ESP

16:15 - 16:30 **Imaging**  
Marie-Pierre Vullierme, FRA

Concluding Remarks

**Time:** Friday 16:30 - 16:45  
**Room:** Meeting room 113-116 (Plenary)  
ENETS Chairman