<table>
<thead>
<tr>
<th>Time</th>
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| 13:00 - 14:45 | **OPENING CEREMONY**  
Laszlo Hegedüs (Denmark) & Leonidas Duntas (Greece) |
| A YEAR IN... CLINICAL THYROIDOLOGY | Simon Pearce (United Kingdom) |
| **TOPIC HIGHLIGHTS** | CHAIRS: Laszlo Hegedüs (Denmark) & Leonidas Duntas (Greece) |
| The presence of a whole tumor capsule identifies a subgroup of indolent cases not only among the follicular variant but also in classical variant of papillary thyroid cancer | Carlotta Giani (Italy) |
| Characterization of the cellular heterogeneity of human thyroid tissue by single cell transcriptomics | Robert Opitz (Germany) |
| Statins for Graves’ Orbitopathy (STAGO): preliminary results of a phase II randomized clinical trial | Giulia Lanzolla (Italy) |
| Illuminating thyroid development and growth using the zebrafish model system | Sumeet Singh (Belgium) |
| 14:45 - 15:00 | **Time to visit the Exhibition and Poster Hall** |
| 15:00 - 16:00 | Industry-sponsored  
**SATELLITE SYMPOSIUM 1** |
### CHANNEL 1

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<tr>
<td>16:00 - 16:30</td>
<td><strong>HISTORICAL VIGNETTE:</strong> Celebrating 50 years of TRH?</td>
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<td>CHAIR: Graham Williams (United Kingdom)</td>
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<td>SPEAKER: Anthony Hollenberg (USA)</td>
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<td>16:30 - 17:00</td>
<td><strong>ETJ Lecture</strong></td>
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<td>CHAIR: Simon Pearce (United Kingdom)</td>
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<td>The structure of human thyroglobulin: implications in thyroid physiopathology</td>
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<td>Francesca Coscia (Italy)</td>
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<td>17:00 - 17:15</td>
<td>Time to visit the Exhibition and Poster Hall</td>
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<td>17:15 - 18:15</td>
<td><strong>SCIENTIFIC SYMPOSIUM 1</strong></td>
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<td><strong>THYROID AND PREGNANCY</strong></td>
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<td></td>
<td>CHAIRS: Bijay Vaidya (United Kingdom) &amp; Corin Badiu (Romania)</td>
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<td>Thyroid hormone reference range in pregnancy and ethnicity</td>
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<td>Kris Poppe (Belgium)</td>
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<td>Autoimmunity in subfertility and miscarriage</td>
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<td>Camilla Virili (Italy)</td>
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<td>The effects of gestational exposure to thyroid disruptors</td>
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<td>Tim Korevaar (The Netherlands)</td>
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<td>18:30 - 19:30</td>
<td>Industry-sponsored</td>
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<td>SATELLITE SYMPOSIUM 2</td>
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### CHANNEL 2

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<tr>
<td>17:15 - 18:15</td>
<td><strong>SCIENTIFIC SYMPOSIUM 2</strong></td>
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<tr>
<td></td>
<td><strong>A TRANSLATIONAL APPROACH TO THYROID CANCER</strong></td>
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<td>CHAIRS: Laurence Leenhardt (France) &amp; Clara Alvarez (Spain)</td>
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<td>GWAS of thyroid stimulating hormone and inverse association with thyroid cancer</td>
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<td>Bjørn Olav Åsvold (Norway)</td>
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<td>Novel mechanisms for thyroid cancer progression</td>
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<td>Alessia Ciarrocchi (Italy)</td>
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<td>Potentiating Radioiodine Therapy</td>
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<td>Chris McCabe (United Kingdom)</td>
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3

ETAs European Thyroid Association

econference

CHANNEL 1

12:45 - 13:45 ETA CANCER GROUP
as part of a new European “PROJECT”,
the EUROPEAN THYROID CANCER WORKSHOP (EuThyCan)

INTRODUCTION
Clara Alvarez (Spain)

The EuThyCan: description of the project
Jan Smit (The Netherlands)

Discussion

Results of the European survey on anaplastic thyroid cancer
Laura Fugazzola (Italy)

Discussion

Report from the treasurer
Markus Luster (Germany)

Final Discussion and suggestions
for the next ETA CG meeting

14:00 - 15:30 A YEAR IN...
TRANSLATIONAL THYROIDOLOGY
CHAIR: Lars Möller (Germany)

SPEAKER: Peter Kopp (Switzerland)

Harington-de Visscher Prize LECTURE
CHAIR: Laszlo Hegedüs (Denmark)

Turning to thyroid disease in pregnant women
Stine Linding Andersen (Denmark)

NN
Edward Visser (The Netherlands)

15:30 - 15:45 Time to visit the Exhibition and Poster Hall

CHANNEL 2

12:45 - 13:50 ETA - IODINE GLOBAL NETWORK
SCIENTIFIC SYMPOSIUM
CHAIRS: R. Moreno-Reyes (Belgium) & JH Lazarus (United Kingdom)

INTRODUCTION
R. Moreno-Reyes (IGN Regional Coordinator),
J. H. Lazarus (past IGN Regional Coordinator)

Update on thyroid iodine metabolism:
consequences of deficiency and excess
Elisabeth Pearce (USA)

Iodized salt a vehicle for iron fortification?
Michael Zimmermann (Switzerland)

Prevention of iodine deficiency disorders in Europe:
effectiveness, cost-effectiveness, barriers and solutions
Ursula Rochau (Austria)
15:45 - 16:45  Industry-sponsored
SATELLITE SYMPOSIUM 3

16:45 - 17:00  Time to visit the Exhibition and Poster Hall

17:00 - 18:00  SCIENTIFIC SYMPOSIUM 4
THYROID DEVELOPMENT
CHAIRS: Robert Opitz (Germany) & Luca Persani (Italy)

Iron nutritional status and Thyroid Function
Margaret Rayman (United Kingdom)

Some new aspects of the paramount role of iodine in thyroid disease
Mario Rotondi (Italy)

Pleiotropic roles of the Keap1/Nrf2 antioxidant response system in thyroid pathophysiology
Gerasimos Sykiotis (Switzerland)
ORAL SESSION 1
CHAIRS: Carla Moran (Ireland) & Joao De Castro (Portugal)

The effect of thyroid peroxidase antibodies and thyroglobulin antibodies on thyroid function in pregnant women – an individual participant data meta-analysis
Sofie Bliddal (Denmark)

Adiposity and smoking show opposite associations with maternal TSH in early pregnancy, but similarly increase the T3/T4-ratio: evidence from 5,529 Danish pregnant women
Stine Linding Andersen (Denmark)

Association of per- and polyfluoroalkyl substances with thyroid system parameters during pregnancy
Arash Derakhshan (The Netherlands)

Pre- and post-operative calcitonin value as a predictive factor of disease specific mortality in sporadic medullary thyroid carcinoma
Antonio Matrone (Italy)

Ultrasound features and role of risk stratification systems in identifying medullary thyroid carcinoma
Carla Gambale Italy)

ORAL SESSION 2
CHAIRS: Balazs Gereben (Hungary) & Anita Boelen (The Netherlands)

Thyroid hormone transport impacts multiple stages of GABAergic interneuron development
Steffen Mayerl (Germany)

Long-term efficacy of triiodothyronine analogue Triac in children and adults with monocarboxylate transporter 8 deficiency: an international, real-life cohort study
Ferdy van Geest (The Netherlands)

Novel thyroid hormone transporters in the solute carrier 22 family
Zhongli Chen (The Netherlands)

The effect of thyroid hormone receptor truncating mutants on gene transcription in neuronal cells
Karn Wejaphikul (Thailand)

A combining thyroid risk score (TRS) for nodules with indeterminate cytology
Guia Vannucchi (Italy)
11:00 - 12:00  Industry-sponsored SATELLITE SYMPOSIUM 4

12:00 - 13:00  POSTER ROOM - Come and view the posters. You can send questions directly to the poster submitter in the poster hall or use the chat function to connect.

13:00 - 14:00  A YEAR IN... BASIC THYROIDOLOGY
CHAIRS: Josef Köhrle (Germany) & Philippe Caron (France)
SPEAKER: Barbara Demeneix (France)

Covid Research Grant:
Interaction of the SARS-CoV-2 Spike Protein with Thyroid Epithelial Cells
Klaudia Brix (Germany)

Deiodinase Project:
Measuring deiodinase activity: results of a multi center study
Anita Boelen (The Netherlands)

14:00 - 15:00  SCIENTIFIC SYMPOSIUM 5
LESS IS MORE: A CONSERVATIVE APPROACH TO THYROID CANCER
CHAIRS: Francesco Frasca (Italy) & Barbara Jarzab (Poland)

Active surveillance
Akira Miyauchi (Japan)
Lobo-isthmectomy: development of a common protocol
Jolanta Krzewska (Poland)
2021 ETA - CIRSE Clinical Practice Guideline for the use of minimally invasive treatments in malignant thyroid lesions
Enrico Papini (Italy)

15:00 - 15:15  Time to visit the Exhibition and Poster Hall

14:00 - 15:00  SCIENTIFIC SYMPOSIUM 6
TRANSLATIONAL ASPECTS OF THYROID HORMONE METABOLISM
CHAIRS: Monica Dentice (Italy) & Duncan Bassett (United Kingdom)

Inherited defects in DIO1 and SBP2 in humans
Alexandra M Dumitrescu (USA)

Alteration of renal thyroid hormone signaling in diabetes
Xinaris Christodoulou (Italy)

A Novel Biomarker for Integrated Hepatic Thyroid Hormone Action
Jens Mittag (Germany)
15:15 - 16:15 RESEARCH GRANT 2018 & 2019 WINNER PRESENTATIONS
CHAIRS: Domenico Salvatore (Italy) & Heike Heuer (Germany)

The integrity of tumoral capsule identifies a subgroup of indolent cases not only among the follicular but also classical variant of papillary thyroid cancer
Carlotta Giani (Italy)

MiR-181a-5p regulates NIS expression in papillary thyroid carcinoma
Wojciech Gierlikowski (Poland)

A Knowledge-Driven Machine Learning Approach for Thyroid Nodule Classification
Giorgio Grani (Italy)

Impact of thyroid hormone and endocrine disruptors on neural stem cell fate
Pieter Vancamp (France)

Study of TARget tissue-resident immune cells in Graves’ disease and Orbitopathy (STAR-GO)
Ilaria Muller (Italy)

Functional characterization of the novel thyroid hormone transporter SLC17A4
Stefan Groeneweg (The Netherlands)

16:15 - 16:30 Time to visit the Exhibition and Poster Hall

16:30 - 17:00 PINCHERA PRIZE
CHAIR: Leonidas Duntas (Greece)

From superfluous to indispensable? Four decades of sound turning into images. The story of ultrasound in the management of Thyroid disease
Laszlo Hegedüs (Denmark)

17:15 - 18:15 GENERAL ASSEMBLY
13:00 - 13:30 A YEAR IN...
THYROID CANCER
CHAIR: Paula Soares (Portugal)
SPEAKER: Christine Spitzweg (Germany)

13:30 - 14:00 SHORT CALL ABSTRACTS
CHAIRS:
Robin Peeters (The Netherlands) & Ulla Feldt-Rasmussen (Denmark)

14:00 - 15:00 YOUNG INVESTIGATOR SESSION
CHAIRS: Simone De Leo (Italy) & Sofie Bliddal (Denmark)
Variation in the classification of maternal thyroid function in early pregnancy with repeated blood sampling: a study of 1,466 individual cases in the North Denmark Region Pregnancy Cohort
Louise Knøsgaard (Denmark)

New proposal for a histological grading of medullary thyroid carcinoma: insights from a large series of sporadic cases
Alessandro Prete (Italy)

Association of maternal thyroid function during pregnancy with offspring respiratory function and asthma in childhood
Marina Feyz (The Netherlands)

Clinicopathological characteristics of a cohort of patients with radioiodine-refractory thyroid cancer (RAIR-TC): who are the patients that we choose to treat with tyrosine kinase inhibitors (TKI)?
Elisa Minaldi (Italy)

14:00 - 15:00 YOUNG INVESTIGATOR SESSION
CHAIRS: Edward Visser (The Netherlands) & Nadia Schoenmakers (United Kingdom)

Transcriptome analysis of the developing rat thyroid gland from fetal life to prepuberty
Louise Ramhøj (Denmark)

Bone development in mice requires canonical TRα action
Ann-Kathrin Schörding (Germany)

3-iodothyronamine (T1AM), a thyroid hormone metabolite, works as a pro-oxidant in brown adipocytes
Annunziatina Laurino (Italy)

Lack of canonical thyroid hormone receptor alpha signaling is cardioprotective
Janina Gassen (Germany)

15:00 - 15:15 Time to visit the Exhibition and Poster Hall
15:15 - 16:15  Industry-sponsored
SATELLITE SYMPOSIUM 5

16:15 - 17:15  ORAL SESSION 3
CHAIRS: Laura Fugazzola (Italy) & Endre Nagy (Hungary)

Cabozantinib versus placebo in patients with radioiodine (RAI)-
refractory differentiated thyroid cancer (DTC) who have
progressed after prior VEGFR-targeted therapy: results from the
phase 3 COSMIC-311 trial
Marcia S. Brose (USA)

First results of a systematic population-based approach to identify
patients with NTRK gene fusion and RET gene fusion/mutation-
positive thyroid cancers who could benefit from treatment with
TRK and RET inhibitors
Markus Eszlinger (Canada)

Advanced Differentiated Thyroid Cancer, clinical presentation,
treatment, and prognostic factors (ERUDIT Study)
Juan Antonio Vallejo (Spain)

Efficacy of [18F]FDG-PET/CT in evaluation of cytological
indeterminate thyroid nodules prior to surgery (EFFECTS):
a randomised-controlled multicentre trial
Elizabeth J. de Koster (The Netherlands)

Tumor Volume Doubling Time in Active Surveillance of Papillary
Thyroid Microcarcinoma: A Multicenter Cohort Study in Korea
Meihua Jin (Korea)

16:15 - 17:15  ORAL SESSION 4
CHAIRS: Anne van der Spek (The Netherlands) &
Garcilaso Riesco-Eizaguirre (Spain)

Canonical thyroid hormone and TRβ action stimulates
hepatocyte proliferation
G. Sebastian (Germany)

Hypothyroidism affects expression of tumor suppressive and
oncogenic microRNAs involved in breast cancer development
and progression
Karolina Hanusek (Poland)

An early wave of macrophage infiltration followed by CD3+ T-cells
characterizes the onset of orbital inflammation in preclinical
mouse model of Graves' orbitopathy
Svenja Philipp (Germany)

Oncogenic mutations in PI3K/AKT/mTOR pathway effectors
associate with worse prognosis in BRAFV600E-driven papillary
thyroid cancer patients
Iñigo Landa (USA)

Combined mutational and clonality analyses support the
existence of intra-tumor heterogeneity in papillary thyroid cancer
Marina Muzza (Italy)
OVERSEA SYMPOSIUM

17:30 - 18:30

**ETA/ATA Symposium on Graves’ Orbitopathy**
CHAIRS: Tomasz Bednarczuk (Poland) & Milos Zarkovic (Serbia)

- Insights into the pathogenesis of Graves’ Orbitopathy from studies of the microbiome
  Marian Ludgate (United Kingdom)

- Joint ETA-ATA questionnaire on medical treatment of Graves’ Orbitopathy
  Juan Brito (USA)

- Joint ETA-ATA Guideline on medical management of Graves’ Orbitopathy
  Mario Salvi (Italy)

18:30 - 18:45

**PRIZE CEREMONY and closure**
CHAIRS: Leonidas Duntas (Greece) & Graham Williams (United Kingdom)