<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:00AM – 5:00PM</td>
<td>Full-day Ultrasound Course with Practicum  Co-Chairs: Susan Mandel and Kevin Brumund</td>
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<tr>
<td>8:50AM – 2:15PM</td>
<td>Iodine Global Network Satellite Program</td>
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<tr>
<td>5:15PM – 5:45PM</td>
<td>ITC Welcome  Introduction by ATA leadership, acknowledgement to all participating societies, acknowledgement to POC  John Armstrong, Surgeon General and Secretary, Florida Department of Health</td>
</tr>
<tr>
<td>5:45PM – 7:30PM</td>
<td>ITC Opening Session – Progress in Thyroid Research: Highlights from the Last Decade  Chair: Rebecca Bahn  Autoimmunity – Sandra M. McLachlan  Thyroid Cancer Neoplasm – Martin Schlumberger  Thyroid Hormone Action – Douglas Forrest  Clinical – David S. Cooper</td>
</tr>
<tr>
<td>7:30PM – 9:00PM</td>
<td>ITC Welcome Reception</td>
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</tbody>
</table>
Early Riser Symposium: New Modalities to Treat Medullary Thyroid Cancer (7:00AM – 8:20AM)

- Molecular Mechanisms of MTC – Rui M.B. Maciel
- Targeted Therapeutic Agents for MTC – Rossella Elisei
- Management of Side Effects of Long-Term TKI Treatment – Barbara Jarzab
- Update on MTC Guidelines – Samuel Neumann

Opening Plenary Session: Advancing Individualized Medicine with Public-Private Partnerships (8:35AM – 9:20AM)

- Bill Chin (Introduction by Robert S. Smallridge)

Poster Session and Break in the Exhibit Hall (9:20AM – 9:45AM)

Symposium: Nontraditional TSHR Signaling (9:45AM – 11:00AM)

- Selective TSHR signaling by TSHR antibodies – Terry F. Davies
- TSHR-Arrestin-1 Mediated Pathways – Susanne E. Neumann
- TSHR-IGF-1 Interactions – Terry J. Smith

Symposium: TR Alpha Mutations - Bench to Bedside (9:45AM – 11:00AM)

- Animal Models – Sheue-yann Cheng
- Treatment of Animal Models – J.H. Duncan Bassett
- Human Mutations – Carla Moran
- Treatment of Patients – Robin Peeters

Symposium: Benign Thyroid Nodules (9:45AM – 11:00AM)

- Epidemiology of Benign Nodules – Shuang Xu
- Risks/Benefits of Screening for Thyroid Nodules: Who Should Be Screened? – Arthur B. Schneider
- Follow-Up of Benign Nodules – Susan J. Mandel

Symposium: Thyroid Cancer – Translating Basic Science Discoveries to the Clinic (9:45AM – 11:00AM)

- Redifferentiation of RAI-Refractory Thyroid Cancer – James A. Fagin
- Somatic Mutations Analysis for Molecular Diagnosis – Yuri Nikiforov
- Targeted Therapy – Sophie Lebouleux

TSHR-Arrestin-1 Mediated Pathways – Susanne E. Neumann

Selective TSHR signaling by TSHR antibodies – Terry F. Davies

TSHR-IGF-1 Interactions – Terry J. Smith

TSHR-Arrestin-1 Mediated Pathways – Susanne E. Neumann

Selective TSHR signaling by TSHR antibodies – Terry F. Davies

TSHR-IGF-1 Interactions – Terry J. Smith

Symposium: Clinical Utility of Thyroid Antibody Measurements (1:50PM – 3:05PM)

- Pregnancy – Alex Stagnaro-Green
- Hashimoto’s Thyroiditis – Mario Rotondi
- Graves’ Disease – Eijun Nishihara

Symposium: TH Transport (1:50PM – 3:05PM)

- Animal Models of Human Disease – Heike Heuer
- Therapeutic Studies using Animal Models – Alexandra Dumitrescu
- Human Transporter Mutations – Theo J. Visser
- Clinical Trials in Allan Herndon Dudley Syndrome – Edward Visser

Symposium: T4/T3 Therapy (1:50PM – 3:05PM)

- Why Do Patients Prefer T4/T3 Therapy? Colin M. Dayan
- Weight Loss: What is the Mechanism for Enhanced Weight Loss with T3? – Francesco Celi
- Risks/Benefits of Combination Therapy – Anne R. Cappola

Symposium: Prognostic Assessment of Thyroid Cancer (1:50PM – 3:05PM)

- Functional Imaging – Byeong-Cheol Ahn
- Clinical Risk Stratification – Furio Pacini
- Real Time Prognostication – R. Michael Tuttle

International Hypothyroidism Guidelines – Jacqueline Jonklaas, Glauca Mazeto and Salman Razvi

Discussion: Targeted Therapy for Thyroid Cancer—When And What? – Steven I. Sherman and Johannes W.A. Smit

Panel Case Discussion: Unusual Thyroid Function Tests – Mark Vanderpump (moderator), Carle Allan; Brian W. Kim; Shu Wang; and Helton Estrela Ramos

Management of Thyroid Storm – Henry B. Burch and Tetsuro Satoh

Is There a Role for Long-Term Anti-Thyroid Drug Therapy? – Stig Andersen and Douglas S. Ross

Discussion/Debates (11:00AM – 11:50AM) (Clinical)

- International Hypothyroidism Guidelines – Jacqueline Jonklaas, Glauca Mazeto and Salman Razvi
- Discussion: Targeted Therapy for Thyroid Cancer—When And What? – Steven I. Sherman and Johannes W.A. Smit
- Panel Case Discussion: Unusual Thyroid Function Tests – Mark Vanderpump (moderator), Carle Allan; Brian W. Kim; Shu Wang; and Helton Estrela Ramos
- Management of Thyroid Storm – Henry B. Burch and Tetsuro Satoh
- Is There a Role for Long-Term Anti-Thyroid Drug Therapy? – Stig Andersen and Douglas S. Ross

Discussion/Debates (11:00AM – 11:50AM) (Basic/Translational)

- TSH Reception Activation and Its Impact on Body Composition and Graves’ Orbitopathy – Marian Ludgate and Lei Zhang
- Oxidative Stress – Denise Pires de Carvalho and Xavier De Deken
- Immunity and Thyroid Cancer: Prospects for Immune Therapy – Lisa Zhang and Mabel Ryder
- Interactions with Other Pituitary Dysfunction – Ulla Feldt-Rasmussen and TBD
- Vertebrate Models for Study of TH Action – Luca Persiani and Yun-Bo Shi

Poster Session/Expo Theater/Lunch Break in the Exhibit Hall (12:00PM – 1:00PM)

ATA Prize Lecture (1:00PM – 1:45PM) Introduction: TBD

Highlighted Oral Abstract Session (4 total) (4:30PM – 5:30PM)

- Animal Models of Human Disease – Heike Heuer
- Therapeutic Studies using Animal Models – Alexandra Dumitrescu
- Human Transporter Mutations – Theo J. Visser
- Clinical Trials in Allan Herndon Dudley Syndrome – Edward Visser

- Why Do Patients Prefer T4/T3 Therapy? Colin M. Dayan
- Weight Loss: What is the Mechanism for Enhanced Weight Loss with T3? – Francesco Celi
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- Real Time Prognostication – R. Michael Tuttle

- Pregnancy – Alex Stagnaro-Green
- Hashimoto’s Thyroiditis – Mario Rotondi
- Graves’ Disease – Eijun Nishihara

ATA Business Meeting (5:30PM – 7:00PM)

AOTA Business Meeting (5:30PM – 7:00PM)

LATS Business Meeting (5:30PM – 7:00PM)

ETA Business Meeting (5:30PM – 7:00PM)

卫星传输 TBD（必须在7:00PM之后）
<table>
<thead>
<tr>
<th>Session Time</th>
<th>Session Title</th>
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<tr>
<td>7:00 AM – 8:20 AM</td>
<td>Early Riser Symposium: Pediatric and Adult Differentiated Thyroid Cancer – Are They Different?</td>
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<tr>
<td>8:35 AM – 9:20 AM</td>
<td>Plenary Lecture: Choice of Therapy for Graves’ Hyperthyroidism</td>
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<tr>
<td>9:45 AM – 11:00 AM</td>
<td>Oral Abstract Session (5 total)</td>
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<tr>
<td>11:00 AM – 11:50 AM</td>
<td>Discussion/Debates (11:00AM – 11:50AM) (Clinical)</td>
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<tr>
<td>12:00 PM – 1:00 PM</td>
<td>Poster Session/Expo Theater/Lunch Break in the Exhibit Hall</td>
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<tr>
<td>1:00 PM – 1:30 PM</td>
<td>Short Oral (Poster) Communications (40 total)</td>
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<tr>
<td>1:30 PM – 2:15 PM</td>
<td>AOTA Prize Lecture: Toward Best Management of Thyroid Cancer</td>
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<tr>
<td>2:20 PM – 3:35 PM</td>
<td>Symposium: Clark T. Sawin Historical Vignettes</td>
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<td>2:20 PM – 3:35 PM</td>
<td>Symposium: TH Metabolism –Translational Physiology</td>
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<tr>
<td>2:20 PM – 3:35 PM</td>
<td>Symposium: Fetal Thyroid/Pituitary/ Hypothalamic Programming in Maternal Thyroid Disease</td>
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<tr>
<td>2:20 PM – 3:35 PM</td>
<td>Symposium: Thyroid Cancer: Molecular Genetics and Environment</td>
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<tr>
<td>2:20 PM – 3:35 PM</td>
<td>History of the ITC – Lewis E. Braverman</td>
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<td>2:20 PM – 3:35 PM</td>
<td>Genetic and Functional Variation in Deiodinases – Elizabeth A. McAninch</td>
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<tr>
<td>2:20 PM – 3:35 PM</td>
<td>Animal Models of NTI – Emmely de Vries</td>
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<tr>
<td>2:20 PM – 3:35 PM</td>
<td>Metabolism in Human NTI – Greet van den Berghe</td>
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<tr>
<td>2:20 PM – 3:35 PM</td>
<td>Thyroid Hormone and Brain Development – Juan Bernal</td>
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<tr>
<td>2:20 PM – 3:35 PM</td>
<td>Brain Morphological Changes in Children Born to Mothers with Hypothyroidism – Georg Brabant</td>
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<tr>
<td>2:20 PM – 3:35 PM</td>
<td>Neurodevelopmental Disorders in Children Born to Mothers with Thyroid Dysfunction: Clinical Follow-up Studies in Support of Fetal Programming – Stine Linding Andersen</td>
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<tr>
<td>2:20 PM – 3:35 PM</td>
<td>Radiation Risk Factors for Thyroid Cancer – Dillwyn Williams</td>
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<tr>
<td>2:20 PM – 3:35 PM</td>
<td>Molecular Genetics – Paula Soares</td>
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<tr>
<td>2:20 PM – 3:35 PM</td>
<td>Genetics of Radiation-Associated Thyroid Cancer – Horst Zitzelsberger</td>
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**FREE AFTERNOON**
(alternative for attendees to explore; park discounts start after 4:00 PM – ATA planned event at dusk)

**ITC optional Social Event at EPCOT**
(8:30 PM – 10:00 PM)
<table>
<thead>
<tr>
<th>Symposium: Treatment of Graves' Orbitopathy (9:45AM – 11:00AM)</th>
<th>Symposium: TH Action and Physiology (9:45AM – 11:00AM)</th>
<th>Symposium: Universal Pregnancy Screening Update (9:45AM – 11:00AM)</th>
<th>Symposium: Genetics and Biomarkers of Thyroid Cancer (9:45AM – 11:00AM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intravenous Steroids – George J. Kahaly</td>
<td>TH Control of HPT Axis - Tania Ortiga</td>
<td>NIH Pregnancy Study – Brian M. Casey</td>
<td>Elevated TSH as a Risk Factor for DTC – Gisah A. Carvalho</td>
</tr>
<tr>
<td>Surgery – Peter Dolman</td>
<td>TH Action in Control of Cardiovascular Function – Jens Mittag</td>
<td>Chinese Screening Study (SHEP) – Weiping Teng</td>
<td>Molecular Profiling of Thyroid Neoplasms – Carine Maenhaut</td>
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<tr>
<td>Selenium – Claudio Marcocci</td>
<td>TH Action Control of Hepatic Cholesterol and Lipid Metabolism - Paul Yen</td>
<td>Similarities/Differences in International Recommendations – John H. Lazarus</td>
<td>Genetic Models of Thyroid Cancer – Antonio Di Cristofano</td>
</tr>
</tbody>
</table>

**Discussion/Debates (Clinical) (11:00AM – 11:50AM)**

- Debate: Core and Fine Needle Biopsy: Pros and Cons – Jung Hwan Baek and Teresa Cristina Santos Cavalcanti
- Discussion: Technical and Clinical Implications in Thyroglobulin Assays – Carole Spencer and Cosimo Durante
- Hypothyroidism: Drug-induced Thyroid Dysfunction – Leonidas Duntas and Sahzene Yavuz
- Discussion: Thyroid Remnant Ablation in Thyroid Cancer - Approaches and Results – Sebastiano Filleti and TBD
- Hyperthyroidism: Long-Term Consequences of Subclinical Hyperthyroidism – Christian Selmer and Bernadette Biondi

**Discussion/Debates (Basic/Translational) (11:00AM – 11:50AM)**

- Thyroid Function and Cognition Across the Life Span – Fabio Monzani and Jacoba Bongers-Schocking
- Central Control of TH Availability – Balázs Gereben and TBD
- Thyronamines and TH Metabolites – Carolin S. Höfig and Pieter De Lange
- Central vs Peripheral Control of Energy Expenditure by TH – Eric Fliers and TBD
- Discussion: Molecular Testing in Clinical Practice – Ralf Paschke and Janete M. Cerutti

**Poster Review and Poster Session with Break (3:05PM – 4:00PM)**

**Ethical Issues in the World of Thyroidology (3:15PM – 4:30PM)**
Moderator: Valéria Guimarães

- How to Manage Anaplastic Thyroid Cancer in Oregon and The Netherlands – Johannes WA Smit
- Thyroid Cancer Pre-Vivors: A New Global Patient Population – Peter Angelos

**Congress Banquet (7:30PM – 11:00PM)**
### Early Riser Symposium: Update on Differentiated Thyroid Cancer – Molecular Mechanisms and Treatment (7:00AM – 8:20AM)

- Altered Signal Transduction Pathway – Haixia Guan
- Targeting Thyroid Cancer Microenvironment – Laura Ward
- Single vs Combination Therapy – Marcia Brose
- Update on Differentiated Thyroid Cancer Guidelines – Matthew Ringel

### Plenary Lecture: Congenital Thyroid Disorders (8:35AM – 9:20AM)

- Samuel Refetoff (Introduction by Roy Weiss)

### Case-Based Symposium: International Perspectives on Treatment of Graves’ Disease (10:20AM – 11:35AM)

- Moderator: David S. Cooper
  - AOTA – Won Bae Kim
  - LAT5 – Ana Luisa Maia
  - ETA – Helena Filipsson Nystrom
  - ATA – M. Regina Castro

### Symposium: Target Tissue Responses to Thyroid Hormone (10:20AM – 11:35AM)

- Role of Co-Factors in TR and Tissue-Selective Thyroid Hormone Action – Anthony Hollenberg
- Pancreas – Tatiana L. Fonseca

### Symposium: Thyroid Hormone Axis – A Target for Endocrine Disrupting Compounds (EDC) (10:20AM – 11:35AM)

- Novel Fast Non-Radioactive Screening Assays for Testing EDC Action on Thyroid Target Proteins – Josef Kührle
- EDC Effects on Hypothalamic and Brain Progenitor Cells in Xenobus Model – Barbara Anne Demeneix
- Perchlorate and the Thyroid Axis in Human Pregnancy – Angela Leung

### Discussion/Debates (Clinical) (11:40AM – 12:30PM)

- Goiter and Nodules: Pharmacologic and Destructive Therapy for Benign Nodules – Laszlo Hegedus and Jeong Hyun Lee
- Controversies in Treatment of Graves’ Disease in Children – Scott Rivkees and Juliane Leger
- Discussion: Optimal Imaging for Thyroid Cancer – Ultrasound: Jin Young Kwak and Scintigraphy: Markus Luster
- Birth Defects after Use of Anti-thyroid Drugs in Pregnancy: How Should We Manage This? – Jorge H. Mestman and Bijay Vaidya
- Thyroid Surgery: Technique and Extent of Lymph Node Dissection – Zvonimir Luka Milas and Ashok Shaha

### Symposium: Approach to Papillary Microcarcinoma (10:20AM – 11:35AM)

- Epidemiology of Papillary Microcarcinoma – Anna M. Sawka
- Results of Observation Without Surgery – Yasuhiro Itô
- Risk of Persistent and Recurrent Thyroid Cancer – Fabian Pitoia

### Discussion/Debates (Basic/Translational) (11:40AM – 12:30PM)

- Discussion: New Molecular Drivers in Thyroid Cancer – Mingzhao Xing and Minho Shong
- Negative Regulation of Target Genes by TH – Fredrick Wondisford
- Genetics of Thyroid Development – Roberto di Lauro
- Goiter and Nodules: Interaction between Autoimmunity and Thyroid Nodules – Bingyin Shi and TBD
- Key Steps in Thyroglobulin Iodination and Thyroid Hormonogenesis – Juan Pablo Nicola and Peter Arvan

### Poster Review and Break in the Exhibit Hall (9:20AM – 10:20AM)

### ETA Prize Lecture (1:30PM – 2:15PM) Introduction: TBD

### Symposium: Novel Therapies for Thyroid Autoimmune Disease (2:20PM – 3:35PM)

- Small Molecule TSHR Antagonists – Marvin C. Gershengorn
- Blocking Antigen Presentation – Yaron Tomer
- Future Therapeutic Targets in Graves’ Orbitopathy – Wilmar M. Wiersinga

### Short Call Clinical Oral Abstract Session (6 total) 3:40PM – 5:10PM

### Fun Session/Technology Session TBD (5:15PM – 6:00PM)

### Satellite Symposia TBD (must start after 6:00PM)

### FREE EVENING
<table>
<thead>
<tr>
<th>Time</th>
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| 8:30AM – 9:15AM | Plenary Lecture: Progress in the Surgical Management of Neoplasia and Hyperthyroidism  
Sally E. Carty  
Introduction by Julie Ann Sosa |
| 9:15AM – 11:00AM | Thyroid Cancer Tumor Board  
Moderator: Bryan R. Haugen  
Surgeon – Celso Friguglietti  
Nuclear Medicine – Douglas Van Nostrand  
Endocrinologist – Jen-Der Lin  
Pathology – Virginia A. LiVolsi  
Radiation Oncology – James Brierley  
Medical Oncology – Kate Newbold |
| 11:00AM       | 15th International Thyroid Congress Ends                             |