### MEETING PROGRAM (as of 10/20/2014)

*Information subject to change*

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>2:00 PM – 8:30 PM</td>
<td>Registration Open</td>
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<tr>
<td>7:30 PM – 9:00 PM</td>
<td>Exhibit Hall Open</td>
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<tr>
<td>7:00 AM – 5:00 PM</td>
<td><strong>ATA/AACE Advanced Endocrine Neck Ultrasound Course</strong></td>
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<td>Chairs: Susan Mandel and Robert Levine</td>
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<tr>
<td>7:00 AM – 5:00 PM</td>
<td><strong>E. Chester Ridgway Trainee Conference</strong></td>
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<td>Chairs: Andrew Gianoukakis and Stephanie Fish</td>
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<tr>
<td>5:30 PM – 5:45 PM</td>
<td><strong>Welcome/Opening Remarks</strong></td>
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<tr>
<td></td>
<td>Hossein Gharib, ATA President</td>
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<td>John C. Morris, III, Secretary/COO</td>
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<td></td>
<td>R. Michael Tuttle, Program Co-Chair</td>
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<td>Fredric Wondisford, Program Co-Chair</td>
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<tr>
<td>5:45 PM – 7:30 PM</td>
<td><strong>Opening Session: Recent Developments and Future Challenges in Thyroidology</strong></td>
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<td>Chairs: R. Michael Tuttle and Fredric Wondisford</td>
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<td>Basic: Peter Kopp</td>
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<td>Clinical: Douglas Ross</td>
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<td>Surgical: Herb Chen</td>
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<tr>
<td>7:30 PM – 9:00 PM</td>
<td><strong>ATA Welcome Reception</strong></td>
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## 84th Annual Meeting of the ATA
Thursday, October 30, 2014
Registration Open 6:30 AM – 5:30 PM

### Early Riser Symposium: Medullary Thyroid Cancer
6:45 AM – 8:00 AM

*Chair: Jennifer Sipos*

- Prophylactic Thyroidectomy in MEN2: When and Why? Steven Waguespack
- Management of Persistent/Recurrent Disease in the Neck  Jeffrey Moley
- Management of Persistent/Recurrent Disease in Distant Sites  Manisha Shah

### Plenary Lecture: Clinical, Ethical and Legal Implications of Incidental Germ Line Findings Discovered as Part of Sequencing Studies
8:10 AM – 8:55 AM

*Introduction: R. Michael Tuttle*

#### Highlighted Oral Abstract Session (4 total)
9:00 AM – 10:00 AM

*Chairs: R. Michael Tuttle and Fredric Wondisford*

- **Highlighted Oral Abstract 1, Autoimmunity, Clinical**
  DOUBLE VISION IS THE MOST COMMON INDICATION FOR THERAPY IN MODERATE TO SEVERE GRAVES' ORBITOPATHY BUT IT CORRELATES NEGATIVELY WITH INFLAMMATORY SIGNS AND PROPTOSIS. A SINGLE CENTER PROSPECTIVE COHORT STUDY (N=215) WITH OBJECTIVE QUANTITATION OF DIPLOPIA
  **Peter Lauberg, D.C. Berman, I.B. Pedersen, S. Andersen, A. Carlé**

- **Highlighted Oral Abstract 2, Autoimmunity, Translational**
  CRYSTAL STRUCTURE OF A TSH RECEPTOR MONOCLONAL ANTIBODY PROVIDES EVIDENCE THAT A TRIMER OF THE SHED RECEPTOR A-SUBUNIT IS THE CRITICAL IMMUNOGEN IN GRAVES' DISEASE
  **Chun-Rong Chen, P. Hubbard, S.M. McLachlan, R. Murali, B. Rapoport**

- **Highlighted Oral Abstract 3, Autoimmunity, Translational**
  DEVELOPMENT OF A UNIQUE MOUSE MODEL FOR GRAVES' DISEASE THAT SPONTANEOUSLY DEVELOPS PATHOGENIC TSH RECEPTOR ANTIBODIES
  **Sandra M. McLachlan, H. Aliisky, B. Banuelos, B. Rapoport**

- **Highlighted Oral Abstract 4, Thyroid & Development, Basic**
  DIFFERENTIATION OF HUMAN EMBRYONIC STEM (HES) CELLS INTO THYROID CELLS
  **Risheng Ma, R. Latif, T.F. Davies**

### Meet the Professor Workshops (5 total)
11:00 AM – 12:00 PM

- **Clinical**
  - Thyroid Disease and Pregnancy  Robin Peeters
  - Management of Persistent/Recurrent Differentiated Thyroid Cancer: When to Treat, When to Watch?  Mona Sabra and Gary Clayman
  - TSH Suppression in Thyroid Cancer: Optimizing Risks vs. Benefits  Irwin Klein and Anne Cappola
  - Fukushima Daiichi Accident and Thyroid Cancer  Shigenobu Nagataki

- **Basic/Translational**
  - Genome Wide Analysis of Signaling  Laurent Sachs
  - In Vivo Modulation of Thyroid Hormone Action by Cofactors  Anthony Hollenberg

### Lunch and Poster Review on Your Own
12:00 PM – 12:55 PM

### ATA Committee Meetings Luncheon (for 2014 ATA Committee members)
12:00 PM – 12:55 PM

### ATA Expo Theater with Bayer Healthcare/Onyx Pharmaceuticals
12:00 PM – 12:55 PM

**NEXAVAR® (sorafenib) in Patients with Locally Recurrent or Metastatic, Progressive, Differentiated Thyroid Cancer Refractory to Radioactive Iodine Treatment: The Phase 3 DECISION Trial**

*Open to all attendees; space limited – first come, first served*

**Speaker: Ezra Cohen, MD**

### Sidney H. Ingbar Award Lecture: Role of Thyroid Hormones in Skeletal Development and Bone Maintenance
1:00 PM – 1:45 PM

*Introduction: Sheue-yann Cheng*

**Speaker: Graham Williams**
Oral Abstracts:

**Clinical (6 total)**

**Chair:** Naifa Buxaidy and Wendy Sacks

- Thyroid Dysfunction as a Component of Autoimmune Polyendocrinopathy Syndrome  
  George Kahaly

- Thyroid Dysfunction Associated with Other Autoimmune Diseases  
  Kristien Boelaert

- Thyroid Dysfunction Associated with Immune Modulating Therapies  
  Mabel Ryder

**Basic/Translational Research Awards (6 total)**

**Chair:** Ronald Koening and Yun-Bo Shi

- Thyroid Dysfunction Associated with Immune Modulating Therapies  
  Mabel Ryder

- Thyroid Dysfunction as a Component of Autoimmune Polyendocrinopathy Syndrome  
  George Kahaly

- Thyroid Dysfunction Associated with Other Autoimmune Diseases  
  Kristien Boelaert

- Thyroid Dysfunction Associated with Immune Modulating Therapies  
  Mabel Ryder
### 84th Annual Meeting of the ATA

**Registration Open 6:30 AM – 5:30 PM**

**Early Riser Symposium: Radioactive Iodine Remnant Ablation: Selecting the Proper Patients, Preparation Method and Administered Activity 6:45 AM – 8:00 AM**

*Chair: Laura Boucai*

Risk Stratification in Differentiated Thyroid Cancer  Fabian Pitoia
Guidelines for Patient Selection for Radioactive Iodine Ablation  Leonard Wartofsky
ESTIMBL and Hi-Lo: What Did We Learn, What Is Next?  Ujjal Mallick

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**Van Meter Lecture** 8:10 AM – 8:55 AM

*Introduction: To be announced onsite*

**Speaker: To be announced onsite**

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**Simultaneous Symposia** 9:00 AM – 10:15 AM

| Clinical: ICCIDD Iodine Deficiency Symposium  
(Dedicated to the Memory of Gerard "Gerry" Burrow)  
*Chairs: Elizabeth Pearce and Angela Leung*  
Iodine in Veterinary Populations  Charlene Edinboro  
David Marine and the Elimination of Endemic Goiter in the United States  J. Woody Sistrunk |
|---|
| Basic: Thyroid Hormone Regulation of Growth and Development  
*Chair: Anthony Hollenberg*  
Thyroid Hormone and the Auditory System  Douglas Forrest  
The Role of Thyroid Hormone on Cerebral Cortex  Beatriz Morte Molina  
Roles of Thyroid Hormone Receptors in the Regulation of Thyroid Growth  Sheue-yann Cheng |

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**Exhibit Hall Open** 10:00 AM – 4:30 PM

**Poster Review Session and Break in the Exhibit Hall** 10:15 AM – 11:15 AM

**Simultaneous Symposia** 11:15 AM – 12:30 PM

| Arthur Bauman Clinical Symposium:  
Behind the Scenes - Difficult Decisions, Controversies and Logic in Developing ATA Guidelines  
*Chair: Glenn Braunstein*  
Thyroid Nodules and Differentiated Thyroid Cancer Guidelines  Bryan Haugen  
Medullary Thyroid Cancer Guidelines  Samuel Wells  
Hypothyroidism Guidelines: To T3 or Not to T3 and Other Questions About the Treatment of Hypothyroidism  Jacqueline Jonklaas |
|---|
| Basic: The Journey of Thyroid Hormone into the Cell Nucleus  
*Chair: Sheue-yann Cheng*  
Cell Membrane Transporter  Heike Heuer  
Cellular Deiodinase Regulation  Elizabeth McNinch  
Role of Transthyretin in Placental Thyroid Hormone Transport  Kerry Richard |

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**Lunch and Poster Review on Your Own** 12:30 PM – 1:25 PM

**ATA Women in Thyroidology Networking Meeting** 12:30 PM – 1:25 PM

**ATA Expo Theater with Veracyte, Inc** 12:30 PM – 1:25 PM

*The Scientific Story Behind Afirma Thyroid FNA Analysis*  
*Open to all attendees; space limited – first come, first served*

*Speakers: Giulia C. Kennedy and Richard T. Kloos*

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**Lewis E. Braverman Award Lecture: A Tale of Two Iodines: And the Braverman/Wartofsky Intersection** 1:30 PM – 2:15 PM

*Introduction: Elizabeth Pearce*  
*Speaker: Leonard Wartofsky*

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**Meet the Professor Workshops (5 total)** 2:20 PM – 3:20 PM

<table>
<thead>
<tr>
<th>Clinical</th>
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<tbody>
<tr>
<td>• Serum Thyroglobulin in the Management of Differentiated Thyroid Cancer: An Update in 2014  Carole Spencer and Robert Smallridge</td>
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<tr>
<td>• Evaluation of Thyroid Nodules: What is the Role of Molecular Markers?  Julie Ann Sosa and Anna Sawka</td>
</tr>
<tr>
<td>• Evaluation and Management of Thyroid Nodules and Thyroid Cancer in the Pediatric Population  Stephen Huang</td>
</tr>
</tbody>
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<thead>
<tr>
<th>Translational/Basic</th>
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<tbody>
<tr>
<td>• ATA Basic Research Guidelines: How to Manipulate Thyroid Status in Animal Models  Tania Ortiga-Carvalho</td>
</tr>
<tr>
<td>• Role of TRs in Cell Differentiation and Senescence  Ana Aranda</td>
</tr>
</tbody>
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**Clark T. Sawin Historical Vignette: Theodor Kocher (1841-1917) – A Lasting Legacy** 3:25 PM – 3:50 PM

*Introduction: Jeffrey Garber*  
*Speaker: Peter Kopp*

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**Poster Review and Break** 3:50 PM – 4:20 PM
### Oral Abstract Sessions 5:10 PM – 6:40 PM

#### Clinical (6 total)

**Chairs:** Kenneth Ain and Brian Kim

1. **Oral Abstract 121, Thyroid Cancer, Translational**
   - Tumor Suppressor MIR-30A-5P Inhibits LOX Expression and Cancer Progression in Thyroid Cancer

2. **Oral Abstract 122, Thyroid Cancer, Translational**
   - Detection of Circulating BRAFV600E in Patients with Papillary Thyroid Carcinoma
   - **Carrie C. Lubitz, S. Parangi, M. Bernasconi, A.P. Schalck, D.T. Frederick, H. Suh, S.E. Donovan, L. Wirth, R.J. Sullivan, D.J. Panka**

3. **Oral Abstract 123, Thyroid Cancer, Clinical**
   - Highly Accurate Diagnosis of Cancer in Thyroid Nodules with Follicular Neoplasm/Suspicious for a Follicular Neoplasm Cytology by Thyroseq V2 NEXT Generation Sequencing Assay

4. **Oral Abstract 124, Thyroid Cancer, Translational**
   - Mutational Analysis of Kinome in Differentiated Thyroid Cancer

5. **Oral Abstract 125, Thyroid Cancer, Clinical**
   - Development of a Clinical Targeted Next-Generation Sequencing Test for Indeterminate Thyroid Nodules
   - **Shih-Min Cheng, D. Lev, C. Barlan, F.M. Hantash, J.J. Catanese, A. Grupe, D. Ross, R.E. Reitz, F.M. Waldman**

6. **Oral Abstract 126, Thyroid Cancer, Translational**
   - Identification of Iodine Metabolism-Associated Large Non-Coding RNA (LincRNA) Differentially Expressed in BRAFV600E-Positive Papillary Thyroid Cancer Versus Normal Thyroid Tissue
   - **M. Duquette, A. Fischer, E. Puxeddu, J. Lawler, P. Pandolfi, Carmelo Nucera**

#### Basic/Translational (6 total)

**Chairs:** Terry Davies and Theo Visser

1. **Oral Abstract 115, Thyroid Cancer, Basic**
   - MicroRNA-339-5P Modulates Na+/I- Symporter-Mediated Radioiodide Uptake
   - **Aparna Lakshmanan, A. Wojcicka, M. Kotlarek, K. Jadzewski, S.M. Jhiang**

2. **Oral Abstract 116, Thyroid Cancer, Basic**
   - Targeted Delivery of a Novel Histone Deacetylase Inhibitor, AB3, Using Unimolecular Micelles to Improve Antitumor Effect in Medullary Thyroid Cancer

3. **Oral Abstract 117, Autoimmunity, Basic**
   - Standardization of a FDA-CLEARED BIAOSSAY Converts Thyroid-Stimulating Antibody Levels into International Units Enabling Comparison Among Laboratories
   - **Tanja Diana, M. Kanitz, M. Lehmann, J. Franken, G.J. Kahaly**

4. **Oral Abstract 118, Thyroid Hormone Action, Basic**
   - Thyroid Hormone Interacts with Alph2c Adrenergic Receptor Signaling to Regulate the Epiphysial Growth Plate Morphology and Bone Growth
   - **Manuela M. Rodrigues, M.V. Silva, P.C. Brum, C.H. Gouveia**

5. **Oral Abstract 119, Disorders of Thyroid Function, Basic**
   - TSH Receptor Endocytic Cargo Determines Thyrocyte Cell Fate
   - **Syed A. Marshed, R. Ma, R. Latif, T.F. Davies**

6. **Oral Abstract 120, Thyroid Hormone Metabolism & Regulation, Basic**
   - Pharmacological Activation of Thyroid Hormone Receptors Elicits a Functional Conversion of White to Brown Fat

### ATA Annual Banquet 7:30 PM – 11:00 PM (Admission with ticket only)
<table>
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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>6:45 AM – 8:00 AM</td>
<td><strong>Early Riser Symposium: Management of Advanced Radioactive Iodine Refractory Thyroid Cancer</strong>&lt;br&gt;Chair: Maria E. Cabanillas&lt;br&gt;What is the Definition of Radioactive Iodine Refractory? Stephanie Lee&lt;br&gt;Opportunities for the Use of Locoregional/Directed Therapies in Radioiodine-Refractory Thyroid Cancers Keith Bible&lt;br&gt;Initiation of Systemic Therapy: Which Agents and When? Rossella Elisei</td>
</tr>
<tr>
<td>8:10 AM – 8:55 AM</td>
<td><strong>Plenary Lecture: Excess Thyroid Hormone and Thyrotop Cell Death</strong>&lt;br&gt;Introduction: Yun-Bo Shi&lt;br&gt;Speaker: Rolf Karlstrom</td>
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</table>

**Short Call Oral Abstracts** (6 total) 9:00 AM – 10:30 AM<br>**Chairs: Elizabeth Pearce and Antonio Bianco**

**Short Call Oral 1, Thyroid Cancer, Translational**

TERT PROMOTER AND BRAF MUTATIONS COOPERATIVELY PROMOTE PAPILLARY THYROID CANCER-RELATED MORTALITY  **Mingzhao Xing**, R. Liu, J. Bishop

**Short Call Oral 2, Thyroid Cancer, Basic**


**Short Call Oral 3, Thyroid Cancer, Translational**

TARGETING OF ONCOGENIC HRAS IN MURINE AGGRESSIVE THYROID CANCERS WITH MEK AND FARNESYLTRANSFERASE INHIBITION  **Brian R. Untch**, J.A. Knauf, M.E. Garcia-Rendueles, R.A. Ghossein, A.L. Ho, J. Fagin

**Short Call Oral 4, Autoimmunity, Translational**


**Short Call Oral 5, Thyroid Cancer, Translational**

IDENTIFICATION OF NOVEL GENE FUSIONS BY TARGETED NEXT-GEN SEQUENCING IN THYROID FNA SAMPLES  **Marina Nikiforova**, S. Zhong, A. Wald, L. Kelly, Y. Nikiforov

**Short Call Oral 6, Thyroid Hormone Action, Basic**

A ROLE FOR THYROID HORMONE ACTIVATION IN THE TREATMENT OF X-LINKED ADRENOLEUKODYSTROPHY (X-ALD)  **Meredith D. Hartley**, T. Banerji, T.S. Scanlan

**Exhibit Hall Open** 9:30 AM – 1:30 PM

**Poster Review Session and Break in the Exhibit Hall** 10:30 AM – 11:30 AM

**Meet the Professor Workshops** (5 total) 11:30 AM – 12:30 PM

- **Clinical**
  - Radioactive Iodine Therapy in Benign Goiter Laszlo Hegedus
  - Correlating Outcomes with the Histological Description of Follicular Cell Derived Thyroid Cancers: What Is The Clinical Relevance? Ronald Ghossein and Victor Bernet
  - Should BRAF Status Influence Initial Management Decisions in Differentiated Thyroid Cancer? Sally Carty and Kepal Patel

- **Basic/Translational**
  - What is New for Thyroid Hormone Transporters  **Theo Visser**
  - ATA Basic Science Handbook  **Antonio Bianco**

**Lunch and Poster Review on Your Own** 12:30 PM – 1:25 PM

**ATA Expo Theater with MedImmune, Specialty Care Division of AstraZeneca** 12:30 PM – 1:25 PM

Clinical Considerations in Advanced Medullary Thyroid Cancer (MTC) Patient Management<br>(Only U.S. health care professionals are permitted to attend this program; space limited – first come, first served; lunch served)<br>Speaker: Kate Newbold

**Exhibit Hall Closes** 1:30 PM
**Paul Starr Award Lecture: What Can a Clinician Contribute?**
1:30 PM – 2:15 PM

**Speaker:** Gilbert Daniels

**Introduction:** Gregory Randolph

**Oral Abstract Sessions**
2:20 PM – 3:20 PM

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<thead>
<tr>
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<th>Basic/Translational (4 total)</th>
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<tbody>
<tr>
<td><strong>Chairs:</strong> Giuseppe Barbesino and Rebecca Leboeuf</td>
<td><strong>Chairs:</strong> Sandra McLachlan and Yaron Tomer</td>
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<tr>
<td>Oral Abstract 219, Thyroid &amp; Development, Clinical</td>
<td>Oral Abstract 215, Thyroid Hormone Action, Basic</td>
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<tr>
<td>PREGNANCY OUTCOMES OF EXPOSURE TO METHIMAZOLE (POEM) STUDY: AN INTERIM REPORT</td>
<td>ROLES OF THYROID HORMONE-TARGET GENE HISTONE</td>
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<tr>
<td>IS SEVERITY OF HYPOTHYROIDISM AT BIRTH ASSOCIATED WITH ABNORMAL CORTICAL DEVELOPMENT IN CHILDREN</td>
<td>EMBRYOGENESIS AND ADULT STEM CELL DEVELOPMENT</td>
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<td>WITH CONGENITAL HYPOTHYROIDISM?</td>
<td>Yun-Bo Shi</td>
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<tr>
<td>Joanne Rovet, H. Clairman, J. Lischinsky, J. Skocic</td>
<td>Oral Abstract 216, Thyroid &amp; Development, Basic</td>
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<tr>
<td>Oral Abstract 220, Thyroid &amp; Development, Translational</td>
<td>THYROID HORMONE DRIVING LARVAL CELLS MAD: THE</td>
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<tr>
<td>MYXEDEMA COMA DIAGNOSIS AND TREATMENT: A CASE SERIES OF 45 PATIENTS FROM 2004-2014 TREATED WITH</td>
<td>ROLE OF C-MYC GENE FAMILY IN THYROID HORMONE-</td>
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<td>500MCG OF IV L-THYROXINE</td>
<td>DEPENDENT INTESTINAL STEM CELL DEVELOPMENT</td>
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<tr>
<td>K.C. Wu, Caroline T, Nguyen, J.S. LoPresti, D.A. Cohen</td>
<td>Thomas C. Miller, M. Okada, Y. Shi</td>
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<tr>
<td>Oral Abstract 221, Disorders of Thyroid Function, Clinical</td>
<td>Oral Abstract 217, Thyroid &amp; Development, Basic</td>
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<td>HYPERTHYROIDISM INCIDENCE VARIATION IN AND</td>
<td>THE HISTONE METHYLTRANSFERASE PRMT1 REGULATES</td>
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<td>AROUND FIRST AND SUBSEQUENT PREGNANCIES: A DANISH POPULATION-BASED STUDY</td>
<td>ADULT INTESTINAL STEM CELL DEVELOPMENT IN MICE</td>
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<td>S.L. Andersen, A. Carlé, J. Olsen</td>
<td>Julia Rodiger, Y. Zhang, Y. Shi</td>
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<tr>
<td>Oral Abstract 222, Disorders of Thyroid Function, Clinical</td>
<td>Oral Abstract 218, Disorders of Thyroid Function, Basic</td>
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<tr>
<td>Update on Sonography in Thyroid Cancer Surveillance and</td>
<td>XB130 DEFICIENCY RESULTS IN MOUSE THYROID</td>
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<td>Robert Lee</td>
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<td>FDG and Beyond: Evolution of Positron-Emission</td>
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<td>Tomography Tracers in Advanced Thyroid Cancers</td>
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<td>Trond Velde Bogsrud</td>
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<td>Personalized Approaches in Thyroid Cancer Imaging - The Future</td>
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<td>Anni Morsing</td>
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<tr>
<td><strong>Simultaneous Symposia</strong> 3:25 PM – 4:40 PM</td>
<td><strong>Basic: Thyroid Hormone Receptors:</strong></td>
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<tr>
<td><strong>Clinical: Evolution of Imaging Modalities in Thyroid Cancer</strong></td>
<td><strong>Insights from Disease Models</strong></td>
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<tr>
<td><strong>Chairs:</strong> Anni Morsing and Ron Koenig</td>
<td><strong>Chair:</strong> Graham Williams</td>
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<tr>
<td>Update on Sonography in Thyroid Cancer Surveillance and</td>
<td>Prereceptor Defects in Humans</td>
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<tr>
<td>Novel Therapeutic Strategies for Nodal Metastases</td>
<td>Alexandra Dumitrescu</td>
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<td>Robert Lee</td>
<td>THRA Human Mutations  Carla Moran</td>
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<td>FDG and Beyond: Evolution of Positron-Emission</td>
<td>THRB Human Mutations  Samuel Refetoff</td>
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<td>Personalized Approaches in Thyroid Cancer Imaging - The Future</td>
<td>Anni Morsing</td>
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<tr>
<td><strong>Symposium: More Everyday Ethical Dilemmas for Thyroid Practitioners 2014</strong> 4.55 PM – 6:10 PM</td>
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<tr>
<td><strong>Moderator:</strong> Cheryl Fassler</td>
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<tr>
<td>Thyroidology and the Public Trust  Loren Wissner Greene</td>
<td>Thyroidology and the Public Trust  Loren Wissner Greene</td>
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<tr>
<td>Mandatory Return of Results for the RET Mutations: New Ethical Dilemmas for the Thyroid World  Peter Angelos</td>
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<tr>
<td><strong>FREE EVENING</strong></td>
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</table>
### Symposium: Contemporary Evaluation and Management of Thyroid Nodules

**8:00 AM – 9:15 AM**

*Chair: Melanie Goldfarb*

- Using Ultrasound to Risk Stratify Thyroid Nodules and Guide Selection for FNA  
  Andrew Gianoukakis
- Rationale Follow-up of Cytologically Benign Thyroid Nodules  
  Ralf Paschke
- Minimally Invasive Therapy for Benign and Malignant Nodules  
  Enrico Papini

### Thyroid Cancer Tumor Board

**9:30 AM – 11:00 AM**

*Moderator: Steven I. Sherman*

- Endocrinology: Douglas Ball
- Surgery: Ralph Tufano
- Nuclear Medicine: Daniel A. Pryma
- Radiation Oncology: James Brierley
- Oncology: Marcia Brose
- Pathology: Yuri Nikiforov

### 84th Annual Meeting Ends

**11:00 AM**