
ATA Schedule of the Full Program

Wednesday, October 29, 2014

Thursday, October 30, 2014

Friday, October 31, 2014

Saturday, November 1, 2014

Sunday, November 2, 2014

84th Annual Meeting of the American Thyroid Association
Wednesday, October 29, 2014



8:00 a.m. – 4:00 p.m.
Empress Hall, Grande Hall Building

E. Chester Ridgway (Ridgway) Trainee Conference
(Pre-registration required; full agenda available in trainees section of program book)

The ATA Trainee Conference is named to memorialize Dr. E. Chester “Chip” Ridgway, for his large contributions to the field of thyroidology, his great devotion to education of fellows over many years, and especially to continue honoring his creation and establishment of a full day seminar led by thyroid experts teaching the full breadth of thyroid-related endocrine subjects that is now expanded to include the ATA trainees track throughout the annual meeting. This fund, supported by colleagues, fellows and friends of Dr. E. Chester Ridgway is to be of continuing support to the ATA Ridgway Trainee Conference.

7:00 a.m. – 5:00 p.m.
Regent Hall, Grande Hall Building

ATA/AACE Endocrine Neck Ultrasound Workshop and Practicum (Satellite program, separate registration required)

8:30 a.m. – 2:00 p.m.
Garden Room, Victorian Building

ATA Board of Directors’ Meeting

2:00 p.m. – 8:30 p.m.
Windsor Complex, Victoria Building

Registration Open

5:30 p.m. – 5:45 p.m.
Crown Room, Victorian Building

Welcome to the 84th Annual Meeting of the ATA
Hossein Gharib, ATA President
John C. Morris, ATA Secretary/COO
R. Michael Tuttle, ATA Program Committee Co-Chair
Fredric E. Wondisford, ATA Program Committee Co-Chair

5:45 p.m. – 7:30 p.m.
Crown Room, Victorian Building

Opening Session: Recent Developments and Future Challenges in Thyroidology
Chairs: R. Michael Tuttle and Fredric E. Wondisford

Basic Review
Clinical Endocrine Review
Surgical Review

Peter A. Kopp
Douglas S. Ross
Herbert Chen

7:30 p.m. – 9:00 p.m.
Windsor Lawn

ATA Welcome Reception
(Meeting registration/badge required for entry)
Join us for a relaxed time with old friends and a chance to greet new ATA members.
(*Note: ATA Exhibit Hall is the inclement weather alternate location*)

8:30 p.m. – 9:30 p.m.
Sun Deck

ATA Trainees’ Welcome Reception
(Open to all trainees; meeting registration/badge required for entry)

84th Annual Meeting of the American Thyroid Association
Thursday, October 30, 2014



6:30 a.m. – 5:30 p.m.
Windsor Complex, Victorian Building

Registration Open

6:30 a.m. – 7:30 a.m.
Carousel Room, Victorian Building

Early Riser Symposium Continental Breakfast

6:45 a.m. – 8:00 a.m.
Crown Room, Victorian Building

Early Riser Symposium: Medullary Thyroid Cancer

Chair: Jennifer A. Sipos

Prophylactic Thyroidectomy in MEN2: When and Why?
Management of Persistent/Recurrent Disease in the Neck
Management of Persistent/Recurrent Disease in Distant Sites

*Steven G. Waguespack
Jeffrey F. Moley
Manisha H. Shah*

8:05 a.m. – 8:10 a.m.
Crown Room, Victorian Building

Welcome and Announcements

*Hossein Gharib, John C. Morris, R. Michael Tuttle and
Fredric E. Wondisford*

8:10 a.m. – 8:55 a.m.
Crown Room, Victorian Building

**Plenary Lecture: Clinical, Ethical and Legal Implications
of Incidental Germ Line Findings Discovered as Part of
Sequencing Studies**

Introduction: R. Michael Tuttle

Mark E. Robson

9:00 a.m. – 10:00 a.m.
Crown Room, Victorian Building

Highlighted Oral Abstract Session (4 total)

Chairs: R. Michael Tuttle and Fredric E. Wondisford

Highlighted Oral 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

P. Laurberg, D.C. Berman, I.B. Pedersen, S. Andersen, A. Carlé

Highlighted Oral 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

C.R. Chen, P. Hubbard, S.M. McLachlan, R. Murali, B. Rapoport

Highlighted Oral 3, Autoimmunity, Translational

DEVELOPMENT OF A UNIQUE MOUSE MODEL FOR GRAVES' DISEASE THAT
SPONTANEOUSLY DEVELOPS PATHOGENIC TSH RECEPTOR ANTIBODIES

S.M. McLachlan, H. Aliesky, B. Banuelos, B. Rapoport

Highlighted Oral 4, Thyroid & Development, Basic

DIFFERENTIATION OF HUMAN EMBRYONIC STEM (HES) CELLS INTO THYROID
CELLS

R. Ma, R. Latif, T.F. Davies

9:00 a.m. – 10:30 a.m.
Empress Hall, Grande Hall Building

**Ridgway Trainee Conference: Case Discussions–Thyroid
Nodules** (Open to all trainees; cases submitted by trainees
for discussion)

*Erik K. Alexander
Stephanie L. Lee*

10:00 a.m. – 4:30 p.m.
Ballroom & Coronet, Victorian Bldg.

Exhibit Hall Open

10:00 a.m. – 11:00 a.m.

Poster Review Session and Break in the Exhibit Hall

Ballroom & Coronet, Victorian Bldg.

- Poster 17 *Autoimmunity* *Basic*
DISSECTING THE ROLE OF THE FOXP3 GENE IN THE JOINT GENETIC SUSCEPTIBILITY TO AUTOIMMUNE THYROIDITIS AND DIABETES
C. Li, E. Concepcion, Y. Tomer
- Poster 18 *Autoimmunity* *Clinical*
SERUM VITAMIN D3 LEVEL IN PATIENTS WITH AUTOIMMUNE THYROID DISEASES
G. Chen, P. Chen, S. Xu, X. Mao, C. Liu
- Poster 19 *Autoimmunity* *Clinical*
HASHIMOTO'S THYROIDITIS AND VITAMIN D INSUFFICIENCY: STUDY OF PREVALENCE AND RELATIONSHIP WITH THYROID AUTOIMMUNITY MARKERS
I.M. Botelho, A. Moura Neto, C. Aparecida da Silva, S. Monte Alegre, D.E. zantut-Wittmann
- Poster 20 *Autoimmunity* *Clinical*
RECURRENT HYPER- AND HYPOTHYROIDISM OVER A PERIOD OF 5 YEARS
D. Bellabarba, N. van Rossum
- Poster 21 *Thyroid Cancer* *Case Report*
AN UNUSUAL CASE OF OVARIAN RADIOIODINE UPTAKE IN A MATURE TERATOMA WITHOUT THYROID TISSUE
N. van Rossum, D. Bellabarba
- Poster 22 *Autoimmunity* *Translational*
THYROID STIMULATING BUT NOT BLOCKING AUTOANTIBODIES ARE HIGHLY PREVALENT IN ACTIVE/SEVERE THYROID-ASSOCIATED ORBITOPATHY - A PROSPECTIVE STUDY
E. Kampmann, T. Diana, M. Kanitz, G.J. Kahaly
- Poster 23 *Disorders of Thyroid Function* *Basic*
ALPHA LIPOIC ACID ATTENUATES RADIATION-INDUCED THYROID INJURY IN RATS
J. Jung, S. Woo, J. Kim, K. Kang, B. Jeong, J. Hahm, S. Kim
- Poster 24 *Disorders of Thyroid Function* *Clinical*
BENEFIT OF IODINE THERAPY FOR THE TREATMENT OF GRAVES' DISEASE DURING THE FIRST TRIMESTER OF PREGNANCY
A. Yoshihara, J. Noh, N. Watanabe, K. Mukasa, H. Ohye, M. Suzuki, M. Matsumoto, Y. Kunii, N. Suzuki, T. Kameda, K. Iwaku, S. Kobayashi, K. Sugino, K. Ito
- Poster 25 *Disorders of Thyroid Function* *Clinical*
WHY MEASURE FREE T4? TSH ALONE IS SUFFICIENT TO DIAGNOSE AND MANAGE PRIMARY HYPER- AND HYPOTHYROIDISM
J. Ehrenkranz, A. Schneider, P. Bach
- Poster 26 *Disorders of Thyroid Function* *Clinical*
QUALITY OF LIFE (QOL) IN GRAVES' DISEASE (GD) PATIENTS: A COMPARATIVE STUDY OF PATIENTS REFERRED FOR SURGERY AND RADIOIODINE THERAPY
A. Mishra, C. Kumar, P.K. Pradhan, G. Agarwal, A. Agarwal, A.K. Verma, S.K. Mishra
- Poster 27 *Disorders of Thyroid Function* *Clinical*
THYROID FUNCTION AND METABOLIC SYNDROME IN OBESE AND OVERWEIGHT PATIENTS: A CROSS-SECTIONAL STUDY
S. Kommareddy, S.Y. Lee, L.E. Braverman, E.N. Pearce
- Poster 28 *Disorders of Thyroid Function* *Clinical*
ORAL LIQUID THYROXINE ASSUMED AT BREAKFAST: PRELIMINARY RESULTS OF THE TICO STUDY
C. Cappelli, I. Pirola, L. Daffini, E. Gandossi, M. Castellano

- Poster 29 *Disorders of Thyroid Function* *Clinical*
 EVALUATION OF THE APPROPRIATE USE AND SAFETY OF INTRAVENOUS LEVOTHYROXINE AT AN ACADEMIC MEDICAL CENTER
 K. Mizokami-Stout, P.M. Reynolds, G. Barber, L.K. Golightly, M. McDermott
- Poster 30 *Disorders of Thyroid Function* *Clinical*
 ASSESSMENT FOR CONCOMITANT THYROID NODULES AND PRIMARY HYPERPARATHYROIDISM IN PATIENTS UNDERGOING PARA THYROIDECTOMY OR THYROIDECTOMY
 N. Alsaleh, A. Deniwar, M. Wright, A. Gregory, K. Jensen, C. Drake, E. Kandil
- Poster 31 *Withdrawn*
- Poster 32 *Withdrawn*
- Poster 33 *Thyroid & Development* *Clinical*
 INVESTIGATION OF THE RECURRENT LARYNGEAL NERVE AFTER TRACTION INJURY WITH CONTINUOUS INTRAOPERATIVE NEUROMONITORING IN THYROIDECTOMY: A SWINE MODEL
 H. Kim, H. Kwak, H. Lee, S. Jung, G. Son, J. Lee, J. Bae
- Poster 34 *Thyroid Cancer* *Basic*
 GENETIC EXPRESSIONS ALTERATION AFFECTS ON LATERAL NECK NODE METASTASIS OF THYROID PAPILLARY MICROCARCINOMA
 S. Lee, Y. Jeon, Y. Suh, J. Bae, W. Chung
- Poster 35 *Thyroid Cancer* *Basic*
 AUTOPHAGY IS IMPLICATED IN MEDULLARY THYROID CANCER CELLS RESPONSE TO TREATMENT WITH NELFINAVIR
 Y. Kushchayeva, K. Jensen, J. Costello, A. Patel, K. Burman, V. Vasko
- Poster 36 *Thyroid Cancer* *Basic*
 THE ROLE OF NOTCH3 IN THYROID CANCER
 Y. Somnay, X. Yu, S. Miyamoto, H. Chen
- Poster 37 *Thyroid Cancer* *Basic*
 ACUTE EFFECTS OF ULTRASONIC SHEARS AND MONOPOLAR ELECTROSURGERY ON SCIATIC NERVE ELECTROPHYSIOLOGY
 C. Chen, J.M. Cavanaugh, S. Kallakuri, D. Broughton, J.W. Clymer, T.V. Widenhouse, J.F. Amaral
- Poster 38 *Thyroid Cancer* *Basic*
 EXPRESSION OF LAMININ-5 IN PAPILLARY THYROID CARCINOMA ; AS A BIOMARKER OF LYMPH NODE METASTASIS
 S. HONG, S. Baek, J. Woo, J. Cho, K. Jung, S. Kwon
- Poster 39 *Thyroid Cancer* *Clinical*
 PERFORMANCE OF THE AFIRMA[®] GENE EXPRESSION CLASSIFIER ON INDETERMINATE THYROID FINE NEEDLE ASPIRATES (FNAS) FROM LARGE NODULES
 J.R. Mize, R.J. Monroe
- Poster 40 *Thyroid Cancer* *Clinical*
 GREATER UNDERSTANDING OF ANTI-THYROGLOBULIN (TG) ANTIBODY INTERFERENCE IN TG IMMUNOASSAYS: A SYSTEMATIC EVALUATION OF SIX TG IMMUNOASSAYS AGAINST A TG MASS SPECTROMETRY ASSAY
 A. Algeciras-Schimmich, B. Netzel, M. Castro, A.F. Turcu, B. Carranza Leon, C. Spencer, P. Clark, S.K. Grebe
- Poster 41 *Thyroid Cancer* *Clinical*
 UTILITY OF RADIOACTIVE IODINE IN THE TREATMENT OF WELL DIFFERENTIATED THYROID CANCER: ANALYSIS OF 85,740 PATIENTS
 R.K. Orosco, T. Hussain, K. Brumund, D. Oh, C.K. Hoh, D.C. Chang, M. Bouvet
- Poster 42 *Thyroid Cancer* *Clinical*
 AN ANALYSIS OF AGE AND DISEASE STATUS AS PREDICTORS OF THYROID CANCER-SPECIFIC MORTALITY USING THE SURVEILLANCE, EPIDEMIOLOGY, AND END RESULTS (SEER) DATABASE
 R.K. Orosco, T. Hussain, K. Brumund, D. Oh, D.C. Chang, M. Bouvet

- Poster 43 *Thyroid Cancer* *Clinical*
 LOW-DOSE RADIOIODINE ABLATION IN DIFFERENTIATED THYROID CANCER WITH MACROSCOPIC EXTRA-THYROIDAL EXTENSION AND LOW LEVEL OF PREABLATIVE STIMULATED THYROGLOBULIN:ABLATION EFFICACY AND ONE-YEAR FOLLOW UP
 Y. Zhang, Y. Lin, J. Liang
- Poster 44 *Thyroid Cancer* *Clinical*
 BRAF^{V600E} MUTATION ASSOCIATED WITH NON-RADIOIODINE-AVID STATUS IN DISTANT METASTATIC PAPILLARY THYROID CARCINOMA
 K. Yang, Y. Lin, Z. Liang
- Poster 45 *Thyroid Cancer* *Clinical*
 CLINICAL APPLICATION OF RECURRENT LARYNGEAL NERVE PROTECTION AND MONITORING DURING THYROIDECTOMY
 X. Liu, Q. Fu, T. Wang, Y. Zhao, H. Sun
- Poster 46 *Thyroid Cancer* *Clinical*
 FREQUENT VISUALIZATION OF THYROID GLAND REMNANT ON POST-ABLATION 131I RADIONUCLIDE IMAGES IN PATIENTS WITH TOTAL THYROIDECTOMY FOR DIFFERENTIATED THYROID CARCINOMA BY 131I-SPECT/CT
 M. Lee, Y. Lee, T. Jeon, H. Chang, B. Kim, Y. Lee, C. Park, Y. Ryu
- Poster 47 *Thyroid Cancer* *Clinical*
 RELATIONSHIP BETWEEN ACTUAL I-131 RETENTION AND THE SUCCESS RATE OF I-131 ABLATION IN DIFFERENTIATED THYROID CARCINOMA
 M.H. Sayed, B.M. Aljuneidi, M.A. Yasir
- Poster 48 *Thyroid Cancer* *Clinical*
 USEFULNESS OF COMBINED THERAPY WITH 131I AND LITHIUM IN PATIENTS WITH METASTATIC RADIOIODINE-REFRACTORY THYROID CANCER
 I. Lim, J. Park, H. Kim, B. Byun, B. Kim, C. Choi, S. Lim
- Poster 49 *Thyroid Cancer* *Clinical*
 EFFICACY OF THYROGLOBULIN WASHOUT AS AN ADJUNCT TO FINE NEEDLE ASPIRATION CYTOLOGY IN DIAGNOSING RECURRENT PAPILLARY THYROID CANCER
 A. Deniwar, H. Mohamed, A. Khan, T. Thethi, A. Sholl, E. Kandil
- Poster 50 *Withdrawn*
- Poster 51 *Thyroid Cancer* *Clinical*
 SATISFACTION WITH DECISIONS ON RADIOACTIVE IODINE USE IN LOW RISK PAPILLARY THYROID CANCER SURVIVORS
 A. Sawka, S. Straus, G. Rodin, J. Brierley, R.W. Tsang, L. Rotstein, S. Ezzat, D. Goldstein
- Poster 52 *Thyroid Cancer* *Clinical*
 BILATERALITY IN PAPILLARY THYROID CARCINOMA: AN UPDATE WITH MORE THAN 2,000 CONSECUTIVE PATIENTS FROM A SINGLE INSTITUTE
 W. Wang, Y. Zhao, L. Teng, T. Fahey
- Poster 53 *Thyroid Cancer* *Clinical*
 COMPARING EFFICACY OF ELASTOGRAPHY AND ULTRASOUND IN DETERMINATION OF BENIGN AND MALIGNANT THYROID NODULES: A POOLED ANALYSIS
 P. BHATIA, A. Deniwar, M. Lahlouh, J. Belmont, Z.H. Al-Qurayshi, E. Kandil
- Poster 54 *Thyroid Cancer* *Clinical*
 CORRELATION BETWEEN NECK ULTRASONOGRAPHIC FINDINGS AND CLINICO-PATHOLOGICAL FEATURES IN FOLLICULAR VARIANT OF PAPILLARY THYROID CARCINOMA
 E. Jang, W. Kim, J. Baek, J. Lee, T. Kim, Y. Shong, D. Song, W. Kim
- Poster 55 *Thyroid Cancer* *Clinical*
 TREATMENT PATTERNS IN ANAPLASTIC THYROID CANCER
 R. Chagpar, J. Shin, J. Jin, E. Berber, J. Mitchell, R. Metzger, A. Siperstein

- Poster 56 *Thyroid Cancer* *Clinical*
 STAGING THE CENTRAL NECK FOR PAPILLARY THYROID CANCER: PREDICTORS OF RECURRENCE
 R. Chagpar, T. Wei, X. Feng, E. Berber, J. Mitchell, J. Shin, J. Jin, R. Metzger, A. Siperstein
- Poster 57 *Thyroid Cancer* *Clinical*
 RECENT RISE IN THYROID CANCER INCIDENCE RELATED TO DISCOVERY OF A RESERVOIR OF PREVIOUSLY UNRECOGNIZED SUBCLINICAL DISEASE: A POPULATION-BASED STUDY IN OLMSTED COUNTY, MINNESOTA DURING 1990 THROUGH 2012
 J.P. Brito, A. Al Nofal, Z. Wang, I.D. Hay, J.C. Morris
- Poster 58 *Thyroid Nodules & Goiter* *Clinical*
 IMPACT OF A CALCIUM MANAGEMENT PROTOCOL ON RE-ADMISSIONS DUE TO POST THYROIDECTOMY HYPOCALCEMIA
 K. Desai, A. Chindris, V. Bernet, R.C. Smallridge, G. Young, J. Casler
- Poster 59 *Thyroid Cancer* *Clinical*
 IS THE PROPHYLACTIC LATERAL NECK DISSECTION SUITABLE FOR PTMC ?
 L. Zhang, Q. Shen, N. Qu, Q. Ji
- Poster 60 *Thyroid Cancer* *Clinical*
 RISK FACTORS FOR CENTRAL COMPARTMENT LYMPH NODE METASTASIS IN PAPILLARY THYROID MICROCARCINOMA
 L. Zhang, N. Qu, Q. Ji
- Poster 61 *Thyroid Cancer* *Clinical*
 ULTRASONOGRAPHIC TUMOR RATIO IS A SIGNIFICANT PREDICTOR FOR GROWTH PATTERNS OF TUMOR IN PATIENTS WITH PAPILLARY THYROID CARCINOMA
 Y.S. LIM, B. Kim, S. Choi, E. Kim
- Poster 62 *Thyroid Cancer* *Clinical*
 SURGICAL OUTCOMES OF EXTREMELY OLD PATIENTS WITH PAPILLARY THYROID CARCINOMA : A RETROSPECTIVE SINGLE INSTITUTION STUDY
 J. Jeong, S. Jung, C. Lee, S. Kang, J. Lee, J. Jung, K. Nam, W. Chung, C. Park
- Poster 63 *Thyroid Cancer* *Clinical*
 GENETIC VARIABILITY IN 43 PEDIATRIC THYROID CANCER CASES AND CORRELATION WITH THEIR CLINICAL PRESENTATION UP TO 6 MONTHS POST-DIAGNOSIS
 M. Nikita, W. Jiang, R.O. Newbury, S.A. Phillips, R.E. Reitz, F.M. Waldman, F.M. Hantash, R.S. Newfield
- Poster 64 *Thyroid Cancer* *Clinical*
 CANCER RISK AND CLINICOPATHOLOGICAL CORRELATIONS IN THYROID NODULES HARBORING TSH RECEPTOR MUTATIONS
 S. Mon, S. Hodak, M. Nikiforova, S.O. LeBeau, Y. Nikiforov
- Poster 65 *Thyroid Cancer* *Clinical*
 POST DIAGNOSIS IMAGING IN THYROID CANCER
 J.L. Wiebel, M. Banerjee, D. Muenz, F. Worden, M. Haymart
- Poster 66 *Thyroid Cancer* *Clinical*
 INFLUENCE OF NITRATE IN OPEN WELL WATER ON THE PREVALENCE OF CHILDHOOD THYROID CANCER IN BELARUS AFTER THE CHERNOBYL ACCIDENT
 V. Drozd, V. Pashkevich, A. Kudelsky, Y. Demidchik, I. Branovan, N. Shiglik, V. Saenko, T. Rogounovitch, S. Yamashita, J. Biko, C. Reiners
- Poster 67 *Thyroid Cancer* *Clinical*
 IMPROVING HEALTH CARE FOR THYROID CANCER PATIENTS - A PATIENT PARTNERSHIP APPROACH
 L. Salgado, J.T. Martineau, C. Derval, D. Lambert, G. Rondeau, S. Rochefort, J. Bérubé, L. Bédard, A. Mercier, A. Boucher
- Poster 68 *Thyroid Cancer* *Clinical*
 THE INFLUENCE OF BODY TYPE ON OPERATIVE OUTCOMES OF BILATERAL AXILLO-BREAST APPROACH ROBOTIC TOTAL THYROIDECTOMY IN PAPILLARY THYROID CARCINOMA PATIENTS
 L. Heeseung, K. Lee, J. Choi

- Poster 69 *Thyroid Cancer* *Clinical*
CLINICOPATHOLOGICAL FEATURES AND PROGNOSIS OF PAPILLARY THYROID CANCER: EXPERIENCE FROM A SINGLE INSTITUTION FOR 15 YEARS
H. Wang, W. Wang, H. Wang, Z. Ma, L. Teng
- Poster 70 *Thyroid Cancer* *Clinical*
ASSOCIATION BETHESDA CATEGORIES AND POOR CLINICAL AND PATHOLOGICAL PROGNOSTIC FACTORS OF CONVENTIONAL PAPILLARY THYROID CARCINOMA
G. Kim, E. Kim, J. Kwak, J. Yoon, H. Moon
- Poster 71 *Thyroid Imaging* *Clinical*
EVALUATION OF UNDERLYING LYMPHOCYTIC THYROIDITIS WITH HISTOGRAM ANALYSIS USING GRAY SCALE ULTRASOUND IMAGES
G. Kim, E. Kim, J. Yoon, H. Moon, J. Kwak
- Poster 72 *Thyroid Cancer* *Clinical*
IMPROVING PREDICTION OF THE CANCER-SPECIFIC SURVIVAL USING NEW CUT-OFF VALUE OF AGE IN DIFFERENTIATED THYROID CANCER
S. Kim, H. Kwon, Y. Chai, J. Lee, R. Song, H. Yu, J. Jung, J. Choi, K. Kim, K. Lee, Y. Youn
- Poster 73 *Thyroid Cancer* *Clinical*
HASHIMOTO THYROIDITIS IS ASSOCIATED WITH THE EFFICACY OF LOW-DOSE (30MCI) RADIOIODINE ABLATION IN PAPILLARY THYROID CARCINOMA
H. Kwon, H. Yu, R. Song, J. Lee, K. Kim, J. Choi, K. Lee, Y. Youn
- Poster 74 *Thyroid Cancer* *Clinical*
RECOVERY OF PARATHYROID FUNCTION IN IMMEDIATE HYPOPARATHYROIDISM AFTER TOTAL THYROIDECTOMY
J. Cho, S. Jin, Y. Choi, D. Yoo
- Poster 75 *Thyroid Cancer* *Clinical*
THE VALUE OF PREOPERATIVE SERUM THYROGLOBULIN IN PREDICTING METASTATIC THYROID CANCER
P. Tripathy, A.B. Ergin, J. Bena, E. Berber, M. Gupta, C. Nasr
- Poster 76 *Thyroid Cancer* *Clinical*
CYTOLOGY VS. THYROGLOBULIN FROM CERVICAL LYMPH NODES FOR THE DIAGNOSIS OF METASTASES FROM DIFFERENTIATED THYROID CARCINOMA: ARE BOTH NEEDED?
C. Nasr, F. Karabashova, J. Bena, M. Gupta, J. Brainard, E. Berber
- Poster 77 *Thyroid Cancer* *Clinical*
PREDICTIVE ROLE OF STIMULATED THYROGLOBULIN FOR BOTH MALIGNANT POTENTIAL OF CERVICAL LYMPH NODES WITH F-18 FLUORODEOXYGLUCOSE UPTAKE AND THEIR RESPONSIVENESS TO I-131 ABLATION THERAPY IN PAPILLARY THYROID CANCER PATIENTS
S. Kwon, J. Kim, S. Jung, S. Kang, S. Jeon, H. Song, H. Bom, J. Min
- Poster 78 *Thyroid Cancer* *Clinical*
POTENTIAL VALUE OF PREOPERATIVE F-18 FLUORODEOXYGLUCOSE PET/CT IN PAPILLARY THYROID CANCER PATIENTS WITH HIGH METASTATIC LYMPH NODE RATIO
S. Kwon, J. Kim, S. Kang, S. Jeon, H. Song, H. Bom, J. Min
- Poster 79 *Thyroid Cancer* *Clinical*
TOTAL TUMOR DIAMETER PREDICT CENTRAL NECK LYMPH NODE METASTASES IN PAPILLARY THYROID MICROCARCINOMA
Z. Liu
- Poster 80 *Thyroid Cancer* *Clinical*
EXTRA-THYROIDAL INVASION IS NOT RARE IN JAPANESE WOMEN WITH PAPILLARY THYROID MICROCANCER
T. Michigishi, K. Yokoyama, S. TSuji, T. Tsukatani, M. Akimoto, T. Nagano, H. Takeda, Y. Mizukami, Y. Imamura

- Poster 81 *Thyroid Cancer* *Clinical*
 CHANGES IN BIOCHEMICAL PARAMETERS IN THE PREPARATION FOR RADIOIODINE ABLATION IN PATIENTS
 TOTALLY THYROIDECTOMIZED FOR THYROID CANCER
 H. Park, E. Choi, S.Y. Park, S. Kim
- Poster 82 *Thyroid Cancer* *Clinical*
 INCIDENTAL PARATHYROIDECTOMY IN THYROID SURGERY; HISTOPATHOLOGICAL CHARACTERISTICS
 J. Jung, D. Ko, J. Cho, S. Baek, S. Kwon, K. Jung, J. Woo
- Poster 83 *Thyroid Cancer* *Clinical*
 THE IMPORTANT ROLE OF PREOPERATIVE ULTRASOUND AND CT FINDINGS OF THE PRIMARY TUMOR IN
 PREDICTING THE CERVICAL LYMPH NODE METASTASES OF PAPILLARY THYROID CARCINOMAS
 J. Woo, D. Ko, J. Cho, S. Baek, S. Kwon, K. Jung
- Poster 84 *Thyroid Cancer* *Clinical*
 PULMONARY CRYPTOCOCCAL INFECTION IN A PATIENT WITH METASTATIC THYROID CANCER
 S. Challagulla, G. Chune
- Poster 85 *Thyroid Cancer* *Translational*
 COPY NUMBER VARIATION IN ONE MONOZYGOTIC TWIN PAIR AFFECTED WITH MEDULLARY THYROID
 CARCINOMA AND DISCORDANT AGE OF ONSET
 A.N. Araujo, R. Pellegrino, R. Maciel, D. Mazzotti, J.M. Cerutti
- Poster 86 *Thyroid Cancer* *Translational*
 CARFILZOMIB TREATMENT HAS POTENT ANTI-CANCER EFFECTS IN DIFFERENTIATED THYROID CANCER CELL
 LINES
 R.D. Aufforth, A. Mehta, L. Zhang, M. Boufraquech, N. nilubol, E. Kebebew
- Poster 87 *Thyroid Cancer* *Translational*
 MOLECULAR TESTING OF THYROID FINE NEEDLE ASPIRATIONS IMPROVES PRE-SURGICAL DIAGNOSIS AND
 SUPPORTS THE HISTOLOGICAL IDENTIFICATION OF MINIMALLY INVASIVE FOLLICULAR THYROID CARCINOMAS
 M. Eszlinger, S. Piana, A. Moll, E. Boesenberg, R. Paschke
- Poster 88 *Thyroid Cancer* *Translational*
 DTC DISTANT METASTASIS AND LOCAL-REGIONAL RECURRENCE ARE DIFFERENTIALLY ASSOCIATED WITH
 TERT PROMOTER AND BRAFV600E MUTATIONS
 L. Yip, S.E. Carty, S.O. LeBeau, R.L. Ferris, U. Duvvuri, R.R. Seethala, S.I. Chiosea, M. Nikiforova, Y. Nikiforov
- Poster 89 *Thyroid Cancer* *Translational*
 EXPRESSION OF ORGANIC CATION TRANSPORTER 1 (OCT1) IN MEDULLARY THYROID CANCER
 A. Bikas, K. Jensen, J. Costello, A. Patel, K. Burman, V. Vasko
- Poster 90 *Thyroid Hormone Action* *Basic*
 THYROID HORMONE RECEPTORS (TRS) AND CARDIAC METABOLISM: TR BETA MODULATES EXPRESSION OF KEY
 PROTEINS OF GLUCOSE AND FATTY ACID METABOLISM IN THE HEART
 J. Suarez, M. Torres-Gonzalez, B.T. Scott, W.H. Dillmann
- Poster 91 *Thyroid Hormone Action* *Basic*
 TRBETA AGONIST, GC-24, PREVENTS STEATO-HEPATITIS IN A MOUSE MODEL OF NONALCOHOLIC FATTY LIVER
 DISEASE
 C.M. Pimenta, B. Nascimento, T.S. Scanlan, A. Bianco, M.O. Ribeiro
- Poster 92 *Thyroid Hormone Action* *Clinical*
 THE RELATIONSHIP BETWEEN THYROID-STIMULATING HORMONE AND LONGITUDINAL BONE MASS CHANGES
 AT THE LUMBAR SPINE IN KOREAN HEALTHY WOMEN OVER THE AGE OF 40
 S. Kim, J. Hahm, J. Jung, S. Kim
- Poster 93 *Thyroid Hormone Action* *Translational*
 INFLUENCE OF THYROID HORMONES T3 AND T4 ON THE HYPOXIA RESPONSE NETWORK
 K.A. Schmohl, A. Mueller, N. Salb, K. Knoop, A. Wechselberger, N. Schwenk, P.J. Nelson, C. Spitzweg

- Poster 94 *Thyroid Hormone Metabolism & Regulation* *Clinical*
 NON-THYROIDAL ILLNESS SYNDROME AND OUTCOMES IN PATIENTS HOSPITALIZED WITH CONGESTIVE HEART FAILURE
 G. Rothberger, S. Gadhvi, D. Sionit, A. Kumar, N. Michelakis, R. Calixte, N. Bonelli, L.E. Shapiro
- Poster 95 *Thyroid Imaging* *Clinical*
 SPINAL ACCESSORY NERVE: ULTRASOUND FINDINGS AND CORRELATIONS WITH NECK LYMPH NODE LEVELS
 M. Hong, J. Baek
- Poster 96 *Thyroid Imaging* *Clinical*
 THE PRESENTATION OF LYMPH NODES IN HASHIMOTO'S THYROIDITIS ON ULTRASOUND
 M.R. Jones, N. Alsaleh, J. Catlin, S. Linnemann, Z.H. Al-Qurayshi, H. Mohamed, E. Kandil
- Poster 97 *Thyroid Nodules & Goiter* *Clinical*
 ASSESSMENT OF INDETERMINATE CYTOLOGY THYROID NODULES: RETROSPECTIVE REVIEW OF ULTRASOUND-GUIDED FINE NEEDLE ASPIRATION BIOPSIES PERFORMED AT A SINGLE ACADEMIC CENTER
 A. Alok, R. Girdhar, S. Ali, W. Cance, A. Makkissi
- Poster 98 *Thyroid Nodules & Goiter* *Clinical*
 IMPACT OF HYPERMETABOLISM ON 18-FLUORODEOXYGLUCOSE PET SCAN IMAGING ON THE RISK OF MALIGNANCY OF THYROID NODULE CYTOLOGY: A LARGE RETROSPECTIVE STUDY IN A SPECIALTY CANCER CENTER
 P. Valderrabano, M. Mifsud, J. Montilla-Soler, M.E. Leon, T. McCaffrey, B. McIver, K. Otto
- Poster 99 *Thyroid Nodules & Goiter* *Clinical*
 APPLICATION OF A COMMERCIALLY AVAILABLE ONCOGENE PANEL IN THE EVALUATION OF INDETERMINATE THYROID CYTOLOGY IN AN ACADEMIC CANCER CENTER
 P. Valderrabano, M.E. Leon, B.A. Centeno, D. Coppola, T. Padhya, H. Lilienfeld, J. Russell, B. McIver
- Poster 100 *Thyroid Nodules & Goiter* *Clinical*
 RATES OF MALIGNANCY IN BETHESDA CLASSIFICATION OF THYROID FNA BIOPSY AT A SPECIALTY CANCER CENTER; IMPLICATIONS FOR THE APPLICATION OF MOLECULAR MARKERS
 P. Valderrabano, M.E. Leon, B.A. Centeno, D. Coppola, J. McCaffrey, J. Tourtelot, B. McIver
- Poster 101 *Thyroid Nodules & Goiter* *Clinical*
 EFFICACY OF DIFFERENT MODELS FOR EXPLAINING THE ENDOCRINE SURGERY OPERATIVE PROCEDURE-HEMITHYROIDECTOMY
 S. Mayilvaganan
- Poster 102 *Thyroid Cancer* *Clinical*
 UTILITY OF NODULE WASH-OUT TIROGLOBULIN LEVELS FOR UNDETERMINE OR UNDIAGNOSED RESULTS
 M. Navdar Basaran, M. Tuna, E. Karakilic, H. Doğan, D. Berker, M. Ünal, S. Güler
- Poster 103 *Thyroid Nodules & Goiter* *Clinical*
 CORE-NEEDLE BIOPSY FOR RECURRENT UNDIAGNOSED THYROID NODULES: EXPERIENCE OF AN ENDOCRINOLOGIST
 E. Karakilic, D. Berker, G. Guler, A. Kilic Yazgan, M. Navdar Basaran, M. Tuna
- Poster 104 *Thyroid Nodules & Goiter* *Clinical*
 CENTRAL LYMPH NODES METASTASIS IN THE PROGNOSIS OF PAPILLARY THYROID CANCER
 Q. Ji, N. Qu
- Poster 105 *Thyroid Nodules & Goiter* *Clinical*
 THE RELATIONSHIP BETWEEN TSH LEVEL AND THE RECURRENCE RATE OF BENIGN THYROID NODULES AFTER NON-TOTAL THYROIDECTOMY IN CHINA---- A RETROSPECTIVE STUDY
 W. Shi, Y. Xin, F. Dong, S. Ruan, T. Huang
- Poster 106 *Autoimmunity* *Case Report*
 THE THYROID AND BLOOD: A RARE CASE OF PANCYTOPENIA CAUSED BY GRAVES' DISEASE WHICH IMPROVED WITH ANTI THYROID TREATMENT
 P.H. Buddhadev, M. Varma, M.R. Vora, E. Sinsheimer

- Poster 107 *Disorders of Thyroid Function* *Case Report*
 MANAGEMENT DILEMMA IN GRAVES DISEASE : RECTAL THIONAMIDES
 K. Mehta, M. Schwarcz
- Poster 108 *Disorders of Thyroid Function* *Case Report*
 A CASE OF SEVERE THYROTOXICOSIS FOLLOWED BY HYPOTHYROIDISM SECONDARY TO ACUTE BACTERIAL
 SUPPURATIVE THYROIDITIS IN A TYPE 1 DIABETIC PATIENT
 A. Carreau, M. Massicotte, C. Pelletier, M. Belzile, N. van Rossum
- Poster 109 *Disorders of Thyroid Function* *Case Report*
 SEVERE HASHIMOTO HYPOTHYROIDISM PRESENTING AS RHABDOMYOLYSIS INDUCED ACUTE RENAL FAILURE:
 AN UNUSUAL ASSOCIATION
 S. AfsharImani, S. Dowlatshahi, E. Sinsheimer
- Poster 110 *Disorders of Thyroid Function* *Case Report*
 A UNIQUE CASE REPORT OF MEDICALLY TREATED HYPERTHYROIDISM WITH HYPERPARATHYROIDISM
 P. Kachur, C.V. Villabona
- Poster 111 *Thyroid Cancer* *Case Report*
 SYNCHRONOUS WELL-DIFFERENTIATED THYROID CARCINOMA ORIGINATING IN STRUMA OVARIUM AND
 CERVICAL WELL-DIFFERENTIATED THYROID CARCINOMA: A CASE REPORT AND REVIEW OF THE LITERATURE
 A. Day, J. Gross, J. Moley
- Poster 112 *Thyroid Cancer* *Case Report*
 AN ELDERLY FEMALE WITH METASTATIC HURTHLE CELL THYROID CANCER (HCC) PRODUCING T3 TOXICOSIS
 L.A. Bischoff, J. Curry, R. Axelrod, J.L. Miller
- Poster 113 *Thyroid Cancer* *Case Report*
 DIAGNOSTIC AND SURGICAL TREATMENT OF PARATHYROID CARCINOMA IN PATIENTS LIVING IN THE
 DOMINICAN REPUBLIC
 S.J. Batista Lemaire, M. Hache Marliere, M. Abreu, M. Santana, L. Martinez
- Poster 114 *Thyroid Nodules & Goiter* *Case Report*
 HYALINIZING TRABECULAR TUMOR OF THE THYROID IN A PATIENT WITH METASTATIC MELANOMA
 S. Ilyas, H. Wang, T. Condarco, N. Klemen, S.T. Sharma, A. Filie, M.M. Quezado, G.Q. Phan
- Short Call Poster 7 *Disorders of Thyroid Function* *Translational*
 PLACENTAL ANGIOGENIC FACTORS SFLT1 AND PLGF ARE NOVEL DETERMINANTS OF GESTATIONAL THYROID
 (DYS)FUNCTION AND AFFECT THE SENSITIVITY OF THE MATERNAL THYROID TO HCG STIMULATION
 T. Korevaar, E. Steegers, M. Medici, H. Tiemeier, T.J. Visser, R. Peeters
- Short Call Poster 8 *Thyroid Hormone Action* *Basic*
 THYROID HORMONE ACTIVATION BY TYPE-2 DEIODINASE MEDIATES EXERCISE-INDUCED PGC1A EXPRESSION IN
 SKELETAL MUSCLE
 J.S. Werneck-de-Castro, R.A. Louzada, D.L. Ignacio, B. Bocco, M.S. Santos, I.F. Rangel, M.B. Ribeiro, T.L. Fonseca, A.C. Ferreira,
 B. Gereben, M.O. Ribeiro, D.P. Carvalho, A. Bianco

11:00 a.m. – 12:00 p.m.

Meet the Professor Workshops
 (Pre-registered selections available with mailing badge)

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|--------------------------------------|--|---|
| Garden Room, Victorian Building | Thyroid Disease and Pregnancy | <i>Robin P. Peeters</i> |
| Crown Room, Victorian Building | Management of Persistent/Recurrent Differentiated Thyroid Cancer: When to Treat, When to Watch? | <i>Mona M. Sabra
Gary L. Clayman</i> |
| Edison Complex, Grande Hall Bldg. | TSH Suppression in Thyroid Cancer: Optimizing Risks vs. Benefits | <i>Anne R. Cappola
Irwin L. Klein</i> |
| Spreckels Complex, Grande Hall Bldg. | Fukushima Daiichi Accident and Thyroid Cancer | <i>Shigenobu Nagataki</i> |
| Hanover Room, Victorian Building | Genome Wide Analysis of Signaling | <i>Laurent Sachs</i> |

Wilder Complex, Grande Hall Bldg.	In Vivo Modulation of Thyroid Hormone Action by Cofactors	<i>Anthony N. Hollenberg</i>
12:00 p.m. – 12:55 p.m.	Poster Review and Lunch on your Own	
12:00 p.m. – 12:55 p.m. Viceroy Hall, Grande Hall Building	ATA Committee Meetings/Luncheon (For Active 2014 ATA Committee Members only)	
12:00 p.m. – 12:55 p.m. Wilder Complex, Grande Hall Bldg.	Ridgway Trainee Conference Lunch Session: Career Tracks (Designed for basic trainees; open to all trainees – lunch ticket required for meal)	
	Editor Laboratory Director Professor Research Director	<i>Jennifer Sargent Honey V. Reddi Frances E. Carr Laurent Sachs</i>
12:00 p.m. – 12:55 p.m. Empress Hall, Grande Hall Building	Ridgway Trainee Conference Lunch Session: Trainees' Corner Review (Open to all trainees - lunch ticket required for meal)	<i>Jacqueline Kung</i>
12:00 p.m. – 12:55 p.m. Carousel Room, Victorian Building	ATA Expo Theater Presentation with Bayer Healthcare/ Onyx Pharmaceuticals – 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)	<i>Ezra Cohen</i>
1:00 p.m. – 1:45 p.m. Crown Room, Victorian Building	Sidney H. Ingbar Award Lecture Role of Thyroid Hormones in Skeletal Development and Bone Maintenance <i>Introduction: Sheue-yann Cheng</i>	<i>Graham R. Williams</i>
	Endowed by contributions to honor the memory of Sidney H. Ingbar, the Sidney H. Ingbar Distinguished Lectureship Award recognizes outstanding academic achievements in thyroidology, in keeping with the innovation and vision that epitomized Dr. Ingbar's brilliant investigative career. The Ingbar award is conferred upon an established investigator who has made major contributions to thyroid-related research over many years.	
1:00 p.m. – 5:00 p.m. Empress Hall, Grande Hall Building	Ridgway Trainee Conference: Thyroid Ultrasound Course (For Clinical Trainees' Grant participants only, space limited)	
	Introduction to Thyroid Ultrasound Advanced Thyroid Ultrasound Thyroid Cytology Practicum <i>Victor J. Bernet, James V. Hennessey, Joshua P. Klopper, Jennifer A. Sips, Jacqueline Kung, Stephanie A. Fish and Andrew G. Gianoukakis</i>	<i>Andrew G. Gianoukakis Stephanie A. Fish Nicole A. Massoll</i>
1:50 p.m. – 3:20 p.m. Garden Room, Victorian Building	Basic Oral Abstract Session <i>Chairs: Ronald J. Koenig and Yun-Bo Shi</i>	
	Oral 5, <i>Thyroid Cancer, Basic</i> KRASG12D MEDIATED ONCOGENIC TRANSFORMATION OF THYROID FOLLICULAR CELLS REQUIRES LONG-TERM TSH STIMULATION AND IS REGULATED BY SPRY1 Y. Shi, M. Zou, E. Baitei, R. Al-Rijjal, R. Parhar, F. Al-Mohanna, S. Kimura, C. Pritchard, A. Alzahrani, A. Assiri, B. Meyer	

Oral 6, *Thyroid Cancer, Basic*

SEX HORMONES REGULATE THYROID CANCER INITIATION AND PROGRESSION BY MODIFYING TUMOR SUPPRESSOR GENE EXPRESSION AND TUMOR IMMUNITY

L.J. Zhang, Y. Xiong, N. Nilubol, M. He, S. Bommareddi, X. Zhu, L. Jia, Z. Xiao, J. Park, X. Xu, D. Patel, M.C. Willingham, S. Cheng, E. Kebebew

Oral 7, *Thyroid Cancer, Basic*

COOPERATIVE ACTIVATION OF *TERT* BY *BRAF* V600E AND *TERT* PROMOTER MUTATIONS: A NOVEL MOLECULAR MECHANISM IN THYROID TUMORIGENESIS

R. Liu, M. Xing

Oral 8, *Iodine Uptake & Metabolism, Basic*

EFFECTIVE ¹³¹I THERAPY OF METASTATIC COLON CANCER AFTER MESENCHYMAL STEM CELL-MEDIATED TUMOR STROMA TARGETING OF THE SODIUM IODIDE SYMPORTER

K. Knoop, N. Schwenk, K.A. Schmohl, A. Mueller, C. Zach, C. Cyran, J. Carlsen, G. Böning, P. Bartenstein, B. Göke, E. Wagner, P.J. Nelson, C. Spitzweg

Oral 9, *Thyroid Cancer, Basic*

BRAF ACTIVATES AND PHYSICALLY INTERACTS WITH PAK TO REGULATE CELL MOTILITY

S.K. McCarty, M. Saji, X. Zhang, L.S. Kirschner, S. Fernandez, M.D. Ringel

Oral 10, *Thyroid Cancer, Basic*

BRAF^{V600E}-DRIVEN MURINE ANAPLASTIC THYROID CANCERS RECUR AFTER WITHDRAWAL OF THE ONCOPROTEIN, AND REACTIVATE MAPK SIGNALING IN A BRAF^{V600E}-INDEPENDENT MANNER

J.A. Knauf, K. Chen, R.A. Ghossein, J. Fagin

1:50 p.m. – 3:20 p.m.

Crown Room, Victorian Building

Clinical Oral Abstract Session

Chairs: Naifa L. Busaidy and Wendy Sacks

Oral 11, *Thyroid Cancer, Clinical*

LONG-TERM MODERATE THYROID HORMONE SUPPRESSION THERAPY IS ASSOCIATED WITH IMPROVED OUTCOMES IN DIFFERENTIATED THYROID CARCINOMA: NATIONAL THYROID CANCER TREATMENT COOPERATIVE STUDY GROUP REGISTRY ANALYSIS 1987-2012

A. Carhill, D.R. Litofsky, K. Ain, J. Brierley, D.S. Cooper, H. Fein, B. Haugen, J. Jonklaas, P. Ladenson, J. Magner, D. Ross, M. Skarulis, D. Steward, M. Xing, H. Maxon, S.I. Sherman

Oral 12, *Autoimmunity, Clinical*

INDUCTION OF PAINLESS THYROIDITIS IN PATIENTS RECEIVING PROGRAMMED DEATH 1 RECEPTOR IMMUNOTHERAPY FOR METASTATIC MALIGNANCIES

S. Orlov, F. Salari, L. Kashat, J. Alfaifi, P.G. Walfish

Oral 13, *Thyroid Cancer, Clinical*

PROGNOSTIC AND PREDICTIVE FACTORS CORRELATED WITH TREATMENT OUTCOMES FOR RADIOACTIVE IODINE-REFRACTORY DIFFERENTIATED THYROID CANCER (RAI-RDTC) PATIENTS RECEIVING SORAFENIB OR PLACEBO ON THE PHASE III DECISION TRIAL

M. Schlumberger, R. Elisei, F. Pacini, B. Jarzab, L. Giannetta, L. Bastholt, C. De la Fouchardiere, R. Paschke, F. Worden, Y. Shong, J. Smit, C. Kappeler, I. Molnar, M.S. Brose

Oral 14, *Thyroid Cancer, Clinical*

IS PREOPERATIVE VITAMIN D DEFICIENCY A RISK FACTOR FOR POSTOPERATIVE SYMPTOMATIC HYPOCALCEMIA IN THYROID CANCER PATIENTS UNDERGOING TOTAL THYROIDECTOMY PLUS CENTRAL COMPARTMENT NECK DISSECTION?

W. Kim, J. Jeong, S. Jung, C. Lee, S. Kang, J. Lee, J. Jung, K.H. Nam, W. Chung, C. Park

Oral 15, *Thyroid Cancer, Clinical*
IMPACT OF RADIOACTIVE IODINE ON SURVIVAL IN PAPILLARY THYROID
CARCINOMA
D. Boone, P. Suman, R. Prinz, T. Moo-Young, D.J. Winchester

Oral 16, *Thyroid Cancer, Clinical*
POSTOPERATIVE NOMOGRAM FOR PREDICTING CANCER-SPECIFIC MORTALITY
IN MEDULLARY THYROID CANCER
A.S. Ho, L. Wang, F.L. Palmer, C. Yu, A. Toset, S.G. Patel, M.W. Kattan, M.R. Tuttle, I.
Ganly

3:20 p.m. – 3:50 p.m.
Ballroom & Coronet, Victorian Bldg.

Poster Review Session and Break in the Exhibit Hall

3:50 p.m. – 5:05 p.m.
Crown Room, Victorian Building

Clinical: Voice Symposium, Surgically Related

Chair: Amy Y. Chen

Getting the Most Out of the New Guidelines (ATA & AAO-HNSF) *David J. Terris*
Novel Ways to Image Vocal Cord Function *Denise Carneiro-Pla*
State of the Science: Use of Intraoperative Nerve Monitoring and *Quan-Yang Duh*
Prediction of Long Term Outcomes

3:50 p.m. – 5:05 p.m.
Garden Room, Victorian Building

Basic: Thyroid Cell Biology

Dedicated to the Memory of Paul Kim

Chair: Fredric E. Wondisford

To Be or Not to Be: How Thyroglobulin Mutations and Folding *Peter Arvan*
Affect Thyroid Survival and Growth
Unraveling the Mysteries of the Sodium Iodide Symporter (NIS) *Nancy Carrasco*
Physiology and Pathophysiology of the Dual Oxidases DUOX1 *Xavier De Deken*
and 2

5:10 p.m. – 6:25 p.m.
Crown Room, Victorian Building

**Symposium: Intersecting Autoimmunity, Immuno-Modulators
and Thyroid Dysfunction – Updates and Emerging Themes**

Chair: Terry F. Davies

Thyroid Dysfunction as a Component of Autoimmune *George J. Kahaly*
Polyendocrinopathy Syndrome
Thyroid Dysfunction Associated with Other Autoimmune *Kristien Boelaert*
Diseases
Thyroid Dysfunction Associated with Immune Modulating *Mabel M. Ryder*
Therapies

6:30 p.m. – 7:30 p.m.
Garden Room, Victorian Building

ATA Annual Business Meeting

(For Active and senior ATA members only)

The annual business meeting will feature election results, committee reports, revised bylaws vote and discussion of important member issues.

84th Annual Meeting of the American Thyroid Association
Friday, October 31, 2014



6:30 a.m. – 5:30 p.m.
Windsor Complex, Victorian Building

Registration Open

6:30 a.m. – 7:30 a.m.
Carousel Room, Victorian Building

Early Riser Symposium Continental Breakfast

6:45 a.m. – 8:00 a.m.
Crown Room, Victorian Building

Early Riser Symposium: Radioactive Iodine Remnant Ablation: Selecting the Proper Patients, Preparation Method and Administered Activity

Chair: Laura Boucai

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

*Fabian Pitoia
Leonard Wartofsky
Ujjal Mallick*

8:05 a.m. – 8:10 a.m.
Crown Room, Victorian Building

Announcements

Program Chairs R. Michael Tuttle and Fredric E. Wondisford

8:10 a.m. – 8:55 a.m.
Crown Room, Victorian Building

Van Meter Lecture (announced onsite at time of lecture)

Established in 1930, the Van Meter Award Lecture recognizes outstanding contributions to research on the thyroid gland or related subjects. The award is given each year to an investigator who is not older than the age of 45 in the year of the award. The Van Meter award winner is kept secret until the time of the award lecture during the annual meeting. Funded by support from Mary Ann Liebert, Inc., Publishers; and a Van Meter endowment in memory of Jacob (Jack) Robbins created by Jean Robbins in 2014.

9:00 a.m. – 10:15 a.m.
Crown Room, Victorian Building

Clinical: ICCIDD Iodine Deficiency Symposium

Dedicated to the Memory of Gerard "Jerry" Burrow

Chairs: Elizabeth N. Pearce and Angela M. Leung

Iodine in Veterinary Populations
David Marine and the Elimination of Endemic Goiter in the
United States

*Charlene H. Edinboro
J. Woody Sistrunk*

9:00 a.m. – 10:15 a.m.
Garden Room, Victorian Building

Basic: Thyroid Hormone Regulation of Growth and Development

Chair: Anthony N. Hollenberg

Thyroid Hormone and the Auditory System
The Role of Thyroid Hormone on Cerebral Cortex Development
Roles of Thyroid Hormone Receptors in the Regulation of Thyroid
Growth

*Douglas Forrest
Beatriz Morte Molina
Sheue-yann Cheng*

9:00 a.m. – 10:30 a.m.
Empress Hall, Grande Hall Building

Ridgway Trainee Conference: Case Discussions–Thyroid Function (Open to all trainees; cases submitted by trainees for discussion)

*Mary H. Samuels
Peter A. Singer*

10:00 a.m. – 4:30 p.m.
Ballroom & Coronet, Victorian Bldg.

Exhibit Hall Open

10:15 a.m. – 11:15 a.m.
Ballroom & Coronet, Victorian Bldg.

Poster Review Session and Break in the Exhibit Hall

Poster 127

Autoimmunity

Clinical

THYROID-STIMULATING AUTOANTIBODIES ARE PREVALENT IN PATIENTS WITH HASHIMOTO'S THYROIDITIS AND ASSOCIATED ORBITOPATHY - A CONTROLLED STUDY

T. Diana, M. Kanitz, M. Cronau, G.J. Kahaly

- Poster 128 *Autoimmunity* *Clinical*
 THE EXPRESSION OF FC γ RECEPTORS IN HASHIMOTO'S THYROIDITIS
 Y. Zhang, Y. Liu, Y. Gao, X. Guo
- Poster 129 *Autoimmunity* *Clinical*
 HYPOTHYROID PATIENT WITH WEIGHT LOSS AND VOMITING -A DIAGNOSIS NOT TO BE MISSED!
 C.C. Ganta, J. Schaeffer
- Poster 130 *Autoimmunity* *Translational*
 IMMUNOREGULATORY T CELLS IN GRAVES' DISEASE AND THE IMMUNE EFFECTS OF RADIOIODINE THERAPY
 S. Cote-Bigras, J. Verreault, D. ROTTEMBOURG
- Poster 131 *Disorders of Thyroid Function* *Basic*
 ISOFLAVIN-BETA MODIFIES MUSCLE OXIDATIVE STRESS IN A MODEL OF EXPERIMENTAL THYROTOXICOSIS
 P.C. Marinello, S.S. Bernardes, F.A. Guarnier, A. Armani, R. Cecchini, A.L. Cecchini
- Poster 132 *Disorders of Thyroid Function* *Clinical*
 PHARMACOKINETICS OF T₃ AND INDICES OF THYROID HORMONE ACTION DURING LIOTHYRONINE
 WITHDRAWAL
 F.S. Celi, J.D. Linderman, S. Smith, F. Pucino
- Poster 133 *Disorders of Thyroid Function* *Clinical*
 PERIODIC MEASURING OF GRANULOCYTE COUNTS IS VERY USEFUL TO DETECT AGRANULOCYTOSIS OR
 GRANULOCYTOPENIA IN PATIENTS WITH GRAVES' DISEASE DURING ANTITHYROID DRUG THERAPY
 H. Nakamura, A. Ide, T. Kudo, E. Nishihara, M. Itoh, N. Amino, A. Miyauchi
- Poster 134 *Disorders of Thyroid Function* *Clinical*
 AN EVALUATION OF THE CLINICAL AND LABORATORY CHANGES ASSOCIATED WITH TREATMENT WITH 500MCG
 IV L-THYROXINE OF 45 PATIENTS WITH MYXEDEMA COMA
 C.T. Nguyen, T.E. Angell, K.C. Wu, J.S. LoPresti
- Poster 135 *Iodine Uptake & Metabolism* *Case Report*
 HYPOTHYROIDISM SECONDARY TO IODINE DEFICIENCY FROM A DIET OF ONLY WHITE RICE
 C.T. Nguyen, X. He, L.E. Braverman, P.A. Singer
- Poster 136 *Disorders of Thyroid Function* *Clinical*
 PREDICTING PHYSIOLOGICAL EFFECTS OF NONPRESCRIPTION (OTC) THYROID SUPPLEMENTS: CAVEAT EMPTOR
 J. DiStefano, S. Han, M. Eisenberg, P. Larsen
- Poster 137 *Disorders of Thyroid Function* *Clinical*
 MUCORMYCOSIS THYROIDITIS- A RARE CAUSE OF THYROIDITIS AND HYPERTHYROIDISM IN PATIENTS WITH
 HEMATOLOGICAL MALIGNANCIES
 S. Mallesara Sudhakar, M.I. Hu, D. Kontoyiannis, M.D. Williams, A.K. Ying, M.A. Habra
- Poster 138 *Disorders of Thyroid Function* *Clinical*
 THYROID FUNCTION IS MORE RELATED TO MISCARRIAGE THAN THE PRESENCE OF THYROID PEROXIDASE
 ANTIBODIES OR THYROGLOBULIN ANTIBODIES FOR PREGNANT WOMEN WITH HASHIMOTO'S THYROIDITIS
 Y. Kosuga, J. Yoshimura Noh, A. Yoshihara, N. Watanabe, K. Mukasa, H. Ohye, Y. Kunii, M. Suzuki, M. Matsumoto, K. Ito
- Poster 139 *Disorders of Thyroid Function* *Clinical*
 T₃ TOXICOSIS OF GRAVES' DISEASE INDUCED THYROTOXIC PERIODIC PARALYSIS: A CASE SERIES REPORT
 Y. Jiang, H. Steinberg, H. Wynn
- Poster 140 *Disorders of Thyroid Function* *Clinical*
 CAN WE PREDICT THE NEED FOR CALCIUM SUPPLEMENTATION ON THE DAY OF SURGERY IN TOTAL
 THYROIDECTOMY PATIENTS?
 M. White, S. Nagar, B. James, C. Nocon, E.L. Kaplan, P. Angelos, R. Grogan
- Poster 141 *Disorders of Thyroid Function* *Clinical*
 PARADIGM™: OBSERVATIONAL REGISTRY OF PATIENTS WITH CHRONIC HYPOPARATHYROIDISM
 S.J. Bowlin, T. Sadowski, T.J. Vokes, J.P. Bilezikian, B. Clarke, M. Mannstadt, M. Levine, D.M. Shoback, H. Lagast

- Poster 142 *Disorders of Thyroid Function* *Clinical*
 AMIODARONE INDUCED THYROTOXIC THYROIDITIS: A DIAGNOSTIC AND THERAPEUTIC CHALLENGE
 U. Barvalia, B. Amlani, S. Ittaman, R. Pathak
- Poster 143 *Iodine Uptake & Metabolism* *Clinical*
 IODINE STATUS IN KOREAN HEALTHY PREGNANT WOMEN: A FIRST REPORT
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11:15 a.m. – 12:30 p.m. Crown Room, Victorian Building	Arthur Bauman Clinical Symposium: Behind the Scenes – Difficult Decisions, Controversies and Logic in Developing ATA Guidelines <i>Chair: Glenn D. Braunstein</i>	
	Thyroid Nodules and Differentiated Thyroid Cancer Guidelines Medullary Thyroid Cancer Guidelines Hypothyroidism Guidelines: To T3 or Not to T3 and Other Questions about the Treatment of Hypothyroidism	<i>Bryan R. Haugen Samuel A. Wells Jacqueline Jonklaas</i>
11:15 a.m. – 12:30 p.m. Garden Room, Victorian Building	Basic: The Journey of Thyroid Hormone into the Cell Nucleus <i>Chair: Sheue-yann Cheng</i>	
	Cell Membrane Transporter Cellular Deiodinase Regulation Role of Transthyretin in Placental Thyroid Hormone Transport	<i>Heike Heuer Elizabeth McAninch Kerry Richard</i>
12:30 p.m. – 1:25 p.m.	Poster Review and Lunch on your Own	
12:30 p.m. – 1:25 p.m. Viceroy Hall, Grande Hall Building	Women in Thyroidology: Communicating and Networking (Pre-registration required; ticket required for entry) <i>Women in Thyroidology of the Year Awardee: Rebecca S. Bahn</i>	<i>Mary H. Samuels</i>
12:30 p.m. – 1:25 p.m. Empress Hall, Grande Hall Building	Ridgway Trainee Conference Lunch Session: How to Get Your Work Published (Open to all trainees – lunch ticket required for meal)	<i>Peter A. Kopp</i>
12:30 p.m. – 1:25 p.m. Carousel Room, Victorian Building	ATA Expo Theater Presentation with Veracyte, Inc. – The Scientific Story Behind Afirma® Thyroid FNA Analysis to all attendees; space limited – first come, first served)	<i>Giulia C. Kennedy Richard T. Kloos (Open</i>
1:30 p.m. – 2:15 p.m. Crown Room, Victorian Building	Lewis E. Braverman Award Lecture A Tale of Two Iodines – And the Braverman/Wartofsky Intersection <i>Introduction: Elizabeth N. Pearce</i>	<i>Leonard Wartofsky</i>
	The Lewis E. Braverman Lectureship Award recognizes an individual who has demonstrated excellence and passion for mentoring fellows, students and junior faculty; has a long history of productive thyroid research; and is devoted to the ATA. The award is endowed by contributions to honor Dr. Lewis E. Braverman.	
2:20 p.m. – 3:20 p.m.	Meet the Professor Workshops (Pre-registered selections available with mailing badge)	
Crown Room, Victorian Building	Serum Thyroglobulin in the Management of Differentiated Thyroid Cancer: An Update in 2014	<i>Carole A. Spencer Robert C. Smallridge</i>
Garden Room, Victorian Building	Evaluation of Thyroid Nodules: What is the Role of Molecular Markers?	<i>Julie Ann Sosa Anna M. Sawka</i>
Spreckels Complex, Grande Hall Bldg.	Evaluation and Management of Thyroid Nodules and Thyroid Cancer in the Pediatric Population	<i>Stephen Huang</i>
Hanover Room, Victorian Building	ATA Basic Research Guidelines: How to Manipulate Thyroid Status in Animal Models	<i>Tania Ortiga-Carvalho</i>
Edison Complex, Grande Hall Bldg.	Role of TRs in Cell Differentiation and Senescence	<i>Ana Aranda</i>

3:25 p.m. – 3:50 p.m.
Crown Room, Victorian Building

Clark T. Sawin Historical Vignette
Theodor Kocher (1841-1917) – A Lasting Legacy
Introduction: Jeffrey R. Garber

Peter A. Kopp

The Clark T. Sawin History Resource Center supports this historical lecture and memorializes the work of Dr. Sawin, who served as chair of the history and archives committee for many years; and as the presenter of the historical vignette at ATA annual meetings from 1993 – 2003; and as president of the ATA 2003-2004.

3:30 p.m. – 5:00 p.m.
Empress Hall, Grande Hall Building

Ridgway Trainee Conference: Setting Up a Thyroid Practice
(Open to all trainees)

General

*Brittany Bohinc/
J. Woody Sistrunk*

Nuclear Medicine

J. Woody Sistrunk

Ultrasound

Brittany Bohinc

3:50 p.m. – 4:20 p.m.
Ballroom & Coronet, Victorian Bldg.

Poster Review Session and Break in the Exhibit Hall

4:20 p.m. – 5:05 p.m.
Crown Room, Victorian Building

Research Grants Symposium
Chair: Mingzhao Xing

An Investigation of the LDLR-Independent Serum Lipid Modulation by Thyroid Hormone

Stephen Ayers

Type 3 Deiodinase in Dilated Heart Failure

Ari J. Wassner

Sorafenib and Quinacrine as Potential Combination for Anaplastic Thyroid Carcinoma

Niklas K. Finnberg

5:10 p.m. – 6:40 p.m.
Garden Room, Victorian Building

Basic Oral Abstract Session

Chairs: Terry F. Davies and Theo J. Visser

Oral 115, *Thyroid Cancer, Basic*

MICRORNA-339-5P MODULATES Na^+/I^- SYMPORTER-MEDIATED RADIOIODIDE UPTAKE

A. Lakshmanan, A. Wojcicka, M. Kotlarek, K. Jazdzewski, S.M. Jhiang

Oral 116, *Thyroid Cancer, Basic*

TARGETED DELIVERY OF A NOVEL HISTONE DEACETYLASE INHIBITOR, AB3, USING UNIMOLECULAR MICELLES TO IMPROVE ANTITUMOR EFFECT IN MEDULLARY THYROID CANCER

R. Jaskula-Sztul, G. Chen, A.D. Harrison, A. Dammalapati, R. Nair, G. Winston-McPherson, C. Scheinebeck, W. Tang, S. Gong, H. Chen

Oral 117, *Autoimmunity, Basic*

STANDARDIZATION OF A FDA-CLEARED BIOASSAY CONVERTS THYROID-STIMULATING ANTIBODY LEVELS INTO INTERNATIONAL UNITS ENABLING COMPARISON AMONG LABORATORIES

T. Diana, M. Kanitz, M. Lehmann, J. Franken, G.J. Kahaly

Oral 118, *Thyroid Hormone Action, Basic*

THYROID HORMONE INTERACTS WITH ALPHA2C ADRENERGIC RECEPTOR SIGNALING TO REGULATE THE EPIPHYSIAL GROWTH PLATE MORPHOLOGY AND BONE GROWTH

M.M. Rodrigues, M.V. Silva, P.C. Brum, C.H. Gouveia

Oral 119, *Disorders of Thyroid Function, Basic*

TSH RECEPTOR ENDOCYTIC CARGO DETERMINES THYROID CELL FATE

S. A. Morshed, R. Ma, R. Latif, T.F. Davies

Oral 120, *Thyroid Hormone Metabolism & Regulation, Basic*
PHARMACOLOGICAL ACTIVATION OF THYROID HORMONE RECEPTORS ELICITS
A FUNCTIONAL CONVERSION OF WHITE TO BROWN FAT
K. Phillips, J.Z. Lin, A.J. Martagón, S.L. Cimini, D.D. Gonzalez, S.M. Hartig, A. Biter, N.
Zhang, J.D. Baxter, P. Webb, J. Gustafsson

5:10 p.m. – 6:40 p.m.
Crown Room, Victorian Building

Clinical Oral Abstract Session

Chairs: Kenneth B. Ain and Brian W. Kim

Oral 121, *Thyroid Cancer, Translational*
TUMOR SUPPRESSOR MIR-30A-5P INHIBITS LOX EXPRESSION AND CANCER
PROGRESSION IN THYROID CANCER
M. Boufraquech, N. Nilubol, L. Zhang, S. Gara, S. Sadowski, A. Mehta, M. He, S. Davis, J.
Dreiling, J.A. Copland, R.C. Smallridge, M. Quezado, E. Kebebew

Oral 122, *Thyroid Cancer, Translational*
DETECTION OF CIRCULATING BRAFV600E IN PATIENTS WITH PAPILLARY
THYROID CARCINOMA
C.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

Oral 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
Y. Nikiforov, S.E. Carty, S.I. Chiosea, C. Coyne, U. Duvvuri, R.L. Ferris, S. Hodak, S.O.
LeBeau, N. Ohori, R.R. Seethala, M.E. Tublin, L. Yip, M. Nikiforova

Oral 124, *Thyroid Cancer, Translational*
MUTATIONAL ANALYSIS OF KINOME IN DIFFERENTIATED THYROID CANCER
T.H. Kim, J. Park, D. Park, K. Lee, J. Moon, K. Kim, K. Yi, D. Park, Y. Park

Oral 125, *Thyroid Cancer, Clinical*
DEVELOPMENT OF A CLINICAL TARGETED NEXT-GENERATION SEQUENCING
TEST FOR INDETERMINATE THYROID NODULES
S.M. Cheng, D. Lew, C. Barlan, F.M. Hantash, J.J. Catanese, A. Grupe, D. Ross, R.E. Reitz,
F.M. Waldman

Oral 126, *Thyroid Cancer, Translational*
IDENTIFICATION OF IODINE METABOLISM-ASSOCIATED LARGE NON-CODING
RNA (LINC RNA) DIFFERENTIALLY EXPRESSED IN BRAFV600E-POSITIVE
PAPILLARY THYROID CANCER VERSUS NORMAL THYROID TISSUE
M. Duquette, A. Fischer, E. Puxeddu, J. Lawler, P. Pandolfi, C. Nucera

7:30 p.m. – 11:00 p.m.
Viceroy/Regent Halls
Grande Hall Building

ATA Annual Reception and Banquet – Halloween Style!

(Admission by ticket only; Bring your costume and your festive
spirit as this year's event will be a scream!)

ATA Distinguished Service Award

In recognition and honor of a member who has made important
and continuing contributions to the Association.

2014 Awardee:
Alan P. Farwell

John B. Stanbury Thyroid Pathophysiology Medal

In recognition of outstanding research contributions,
either conceptual or technical, to the understanding of thyroid
physiology or the pathophysiology of thyroid disease, as evidenced
by having a major impact on research or clinical practice related to
thyroid diseases.

2014 Awardee:
Valerie Ann Galton

84th Annual Meeting of the American Thyroid Association
Saturday, November 1, 2014



6:30 a.m. – 5:30 p.m.
Group Registration Desk
Victorian Building

Registration Open

6:30 a.m. – 7:30 a.m.
Carousel Room, Victorian Building

Early Riser Symposium Continental Breakfast

6:45 a.m. – 8:00 a.m.
Crown Room, Victorian Building

Early Riser Symposium: Management of Advanced Radioactive Iodine Refractory Thyroid Cancer

Chair: Maria E. Cabanillas

What is the Definition of Radioactive Iodine Refractory?
Opportunities for the Use of Locoregional/Directed Therapies
in Radioiodine-Refractory Thyroid Cancers
Initiation of Systemic Therapy: Which Agents and When?

Stephanie L. Lee

Keith C. Bible

Rossella Elisei

8:05 a.m. – 8:10 a.m.
Crown Room, Victorian Building

Announcements

Program Chairs R. Michael Tuttle and Fredric E. Wondisford

8:10 a.m. – 8:55 a.m.
Crown Room, Victorian Building

Plenary Lecture: Excess Thyroid Hormone and Thyrotroph Cell Death

Introduction: Yun-Bo Shi

Rolf Karlstrom

9:00 a.m. – 10:00 a.m.
Empress Hall, Grande Hall Building

Ridgway Trainee Conference: How to Communicate About the Thyroid (Open to all trainees)

Surgeon's Perspective
Pathologist's Perspective
Endocrinologist's Perspective

Gerard M. Doherty

Sylvia L. Asa

Stephanie A. Fish

9:00 a.m. – 10:30 a.m.
Crown Room, Victorian Building

Short Call Oral Abstracts

Chairs: Elizabeth N. Pearce and Antonio C. Bianco

Short Call Oral 1, *Thyroid Cancer, Translational*

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

Short Call Oral 2, *Thyroid Cancer, Basic*

NF2/MERLIN IS A NOVEL THYROID TUMOR SUPPRESSOR GENE WHOSE LOSS
PROMOTES ONCOGENIC RAS-INDUCED THYROID CANCERS VIA YAP-
DEPENDENT TRANSACTIVATION OF MUTANT RAS AND SENSITIZES THEM TO
MEK INHIBITION

M.E. Garcia-Rendueles, J. Ricarte Filho, B.R. Untch, J.A. Knauf, V. Smith, E. Lundsmith, B.
Taylor, G. Oler, S.C. Jhanwar, A. Viale, F. Giancotti, Y. Fang, A. Heguy, K.H. Huberman, M.
Ryder, R.A. Ghossein, J. Fagin

Short Call Oral 3, *Thyroid Cancer, Translational*

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

Short Call Oral 4, *Autoimmunity, Translational*

MUTATIONS IN NOX3 AS GENETIC CAUSE OF FAMILIAL AGRANULOCYTOSIS
DURING THYROSTATIC TREATMENT OF GRAVES' DISEASE

T.S. Plantinga, P. Arts, G.H. Knarren, A.H. Mulder, I.M. Wakelkamp, A. Hoischen, M. Netea,
J. Smit, R.T. Netea-Maier

Short Call Oral 5, *Thyroid Cancer, Translational*
IDENTIFICATION OF NOVEL GENE FUSIONS BY TARGETED NEXT-GEN
SEQUENCING IN THYROID FNA SAMPLES
M. 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)
M.D. Hartley, T. Banerji, T.S. Scanlan

9:30 a.m. – 1:30 p.m.
Ballroom & Coronet, Victorian Bldg.

Exhibit Hall Open

10:00 a.m. – 11:30 a.m.
Empress Hall, Grande Hall Building

**Ridgway Trainee Conference: Case Discussions–Thyroid
Cancer** (Open to all trainees; cases submitted by trainees
for discussion)

*R. Michael Tuttle
Ian D. Hay
James D. Brierley*

10:30 a.m. – 11:30 a.m.
Ballroom & Coronet, Victorian Bldg.

Poster Review Session and Break in the Exhibit Hall

Poster 224 *Autoimmunity* *Basic*
SPECIFIC HAPLOTYPES OF A MICROSATELLITE MARKERS INTERNAL TO THE HIPK2 GENE IN HASHIMOTO
THYROIDITIS
R.M. Ruggeri, T.M. Vicchio, S. Giovinazzo, L. Lavra, A. Olivieri, F. Trimarchi, S. Sciacchitano, S. Benvenega, M.C. Trovato

Poster 225 *Autoimmunity* *Basic*
SINGLE NUCLEOTIDE POLYMORPHISMS (SNPS) IN EXON 4 OF P53 AS GENETIC MARKERS OF SUSCEPTIBILITY FOR
HASHIMOTO'S THYROIDITIS (HT)
R.M. Ruggeri, T.M. Vicchio, S. Giovinazzo, R. Certo, F. Trimarchi, S. Benvenega, M.C. Trovato

Poster 226 *Thyroid Nodules & Goiter* *Basic*
EXPRESSIONS OF Δ 133 ISOFORMS OF P53 IN MULTINODULAR THYROID: THE IMMUNOREACTIONS IN BENIGN
LESIONS ARE CORRELATING WITH SUBCELLULAR PHENOTYPES OF ELECTRON MICROSCOPY
M.C. Trovato, R.M. Ruggeri, M. Scardigno, G. Sturniolo, E. Vitarelli, G. Arena, O. Gambadoro, G. Sturniolo, S. Benvenega, F.
Trimarchi, V. Cavallari

Poster 227 *Withdrawn*

Poster 228 *Autoimmunity* *Clinical*
CAN THYROID AUTOANTIBODY LEVELS AID IN TREATMENT DECISION-MAKING FOR GRAVES' DISEASE?
D. Elfenbein, R. Sippel, H. Chen, D. Schneider

Poster 229 *Autoimmunity* *Clinical*
LONG-TERM COURSE OF THE THYROID FUNCTION AND THYROID ASSOCIATED OPHTHALMOPATHY OF
EUTHYROID GRAVES' DISEASE PATIENTS
N. Suzuki, A. Yoshihara, T. Kameda, S. Kobayashi, K. Iwaku, H. Ohye, M. Matsumoto, M. Suzuki, Y. Kunii, N. Watanabe, K.
Mukasa, J.Y. Noh, S. Nagataki, A. Kozaki, T. Inoue, K. Ito

Poster 230 *Autoimmunity* *Clinical*
FREQUENCY AND DEGREE OF SEVERITY OF HASHIMOTO'S THYROIDITIS IN PATIENTS WITH WELL-
DIFFERENTIATED THYROID CARCINOMA
H. Vargas-Uricoechea, I. Meza-cabrera, V. Agredo-Delgado, D. Bolaños-Ñañez

Poster 231 *Thyroid & Development* *Case Report*
ECTOPIC THYROID TISSUE IN THE ADRENAL GLAND: A RARE ENTITY, POORLY UNDERSTOOD
H. Vargas-Uricoechea, I. Meza-cabrera, A. Romero-Rojas

Poster 232 *Thyroid Nodules & Goiter* *Clinical*
CYTOLOGICAL CHARACTERISTICS AND FREQUENCY OF AUTOANTIBODIES IN THYROID NODULES IN CHILDREN
H. Vargas-Uricoechea, I. Meza-Cabrera, V. Agredo-Delgado, D. Bolaños-Ñañez

- Poster 233 *Autoimmunity* *Clinical*
A CASE OF ASSOCIATION OF AUTOIMMUNE THYROIDITIS WITH HYPOTHYROIDISM AND ADDISON'S DISEASE
N.H. Martirosyan
- Poster 234 *Autoimmunity* *Translational*
THE EFFECTS OF IGF-I AND IGF-I RECEPTOR KINASE INHIBITOR ON CYTOKINE PRODUCTION INDUCED BY LPS
AND CYCLIC AMP ANALOGUE IN FIBROBLASTS FROM GRAVES' OPHTHALMOPATHY
O. Isozaki, R. Inoue, Y. Nozoe, Y. Okubo, Y. Inoue, A. Ichihara
- Poster 235 *Disorders of Thyroid Function* *Basic*
URINARY SELENIUM LEVELS IN HEALTHY TURKISH WOMEN
E. Kilinc, C. Akin, A. Coskun, F. Kelestimur, A. OZPINAR
- Poster 236 *Disorders of Thyroid Function* *Clinical*
DIAGNOSIS, MANAGEMENT, AND DEVELOPMENTAL OUTCOMES OF PATIENTS WITH PRIMARY CONGENITAL
HYPOTHYROIDISM IN CALIFORNIA AND HAWAII
N.A. Rosenthal, E. Bezar, S. Mann, S. Banerjee, M. Geffner, M. Gottschalk, L. Jelliffe-Pawlowski, M. Rutherford, L. Hasegawa, L.
Feuchtbaum
- Poster 237 *Disorders of Thyroid Function* *Clinical*
PREDICTORS OF DIAGNOSIS AND HOSPITAL OUTCOMES IN THYROID STORM: A RETROSPECTIVE COHORT STUDY
M.G. Lechner, T.E. Angell, C.T. Nguyen, V.L. Salvato, J.T. Nicoloff, J.S. LoPresti
- Poster 238 *Withdrawn*
- Poster 239 *Disorders of Thyroid Function* *Clinical*
PREFERABLE TREATMENT WITH METHIMAZOLE (MMI) FOR GRAVES' DISEASE AFTER THE FIRST TRIMESTER
N. Momotani, S. Iwama
- Poster 240 *Disorders of Thyroid Function* *Clinical*
THYROID DISEASE AS A STROKE RISK FACTOR IN PATIENTS WITH COGNITIVE COMPLAINTS
H. Pretorius, D. Menke, M.M. Bowling, N.M. Bodnar
- Poster 241 *Disorders of Thyroid Function* *Clinical*
PSYCHOLOGICAL PERFORMANCE AND BRAIN FUNCTIONAL CONNECTIVITY IN THE PATIENTS WITH
DIFFERENTIATED THYROID CARCINOMA DURING THYROID HORMONE WITHDRAWAL
Y. Choi, Y. Shin, E. Jang, M. Jeon, T. Kim, J. Hong, Y. Shong, W. Kim
- Poster 242 *Disorders of Thyroid Function* *Clinical*
THYROID FUNCTION AND 6-YEAR MORTALITY IN THE ELDERLY POPULATION LIVING IN A IODINE SUFFICIENT
AREA: A RESULT FROM KOREAN LONGITUDINAL STUDY ON HEALTH AND AGING (KLOSHA)
J. Moon, K. Kim, S. Choi, S. Lim, H. Jang
- Poster 243 *Disorders of Thyroid Function* *Clinical*
PROPOSAL FOR THE TENTATIVE RANGE OF INAPPROPRIATE TSH ELEVATION
K. Ohba, S. Sasaki, H. Nakamura
- Poster 244 *Withdrawn*
- Poster 245 *Iodine Uptake & Metabolism* *Clinical*
URINARY IODINE EXCRETION AND SERUM THYROID FUNCTION IN HEALTHY ADULTS AFTER IODINATED
CONTRAST ADMINISTRATION
S.Y. Lee, D.L. Chang, X. He, E.N. Pearce, L.E. Braverman, A.M. Leung
- Poster 246 *Thyroid Cancer* *Basic*
NOTCH1 INTRACELLULAR DOMAIN REGULATES THYROID CANCER CELL MIGRATION AND TUMOR METASTASIS
VIA INHIBITION OF SERPINE1
X. Yu, A.D. Harrison, R. Jaskula-Sztul, R.V. Lloyd, H. Chen

- Poster 247 *Thyroid Cancer* *Basic*
 SOMATIC MUTATIONS OF FOXE1 IN PAPILLARY THYROID CANCER
 M. Mond, M. Bullock, Y. Yao, R.J. Clifton-Bligh, P.J. Fuller, C. Gilfillan
- Poster 248 *Thyroid Cancer* *Basic*
 ANTINEOPLASTIC ACTIVITY OF TWO TYROSINE KINASE INHIBITORS IN PRIMARY CULTURES FROM ANAPLASTIC THYROID CANCER OBTAINED FROM FINE NEEDLE ASPIRATION: CLM29 AND CLM3
 A. Di Domenicantonio, S. Ferrari, P. Fallahi, C. La Motta, G. Materazzi, A. Corrado, I. Ruffilli, U. Politti, F. Da Settimo, P. Miccoli, A. Antonelli
- Poster 249 *Thyroid Hormone Metabolism & Regulation* *Clinical*
 ORAL LIQUID L-THYROXINE (L-T4) MAY BE BETTER ABSORBED COMPARED TO L-T4 TABLETS IN PATIENTS WITH LACTOSE INTOLERANCE
 A. Corrado, P. Fallahi, S. Ferrari, A. Di Domenicantonio, I. Ruffilli, A. Antonelli
- Poster 250 *Thyroid Cancer* *Basic*
 THE CAPABILITY OF CANINES TO PROSPECTIVELY DETECT THYROID CANCER
 A.M. Hinson, A.A. Ferrando, B. Wilkerson, D. Waugh, S.A. Abid, B.C. Stack, D.L. Bodenner
- Poster 251 *Thyroid Cancer* *Basic*
 THE EFFECTS OF THE HIV PROTEASE INHIBITOR NELFINAVIR ON EXPRESSION OF MITOCHONDRIAL MOLECULES IN MEDULLARY THYROID CANCER CELLS
 K. Jensen, A. Patel, J. Costello, Y. Kushchayeva, K. Burman, V. Vasko
- Poster 252 *Thyroid Cancer* *Basic*
 MICROTUBULE-ASSOCIATED PROTEIN-2 (MAP-2) EXPRESSION IN MEDULLARY CARCINOMA OF THYROID
 A. Shtabsky, A. Aizic, F. Misonzhnik Bedny, L. Leider-Trejo, I. Solar
- Poster 253 *Thyroid Cancer* *Clinical*
 INTER-OBSERVER VARIATION IN THE PATHOLOGIC IDENTIFICATION OF EXTRANODAL EXTENSION IN NODAL METASTASES FROM PAPILLARY THYROID CARCINOMA
 E. Du, B.M. Wenig, R.A. Ghossein, R.V. Lloyd, T.J. Giordano, L.D. Thompson, W. Faquin, S.L. Asa, O. Mete, S.M. Suster, H.K. Su, E.H. Alpert, E.H. Dewey, L. Dos Reis, H. Husaini, M.L. Urken
- Poster 254 *Thyroid Cancer* *Clinical*
 INTER-OBSERVER VARIATION IN THE PATHOLOGIC IDENTIFICATION OF MINIMAL EXTRATHYROIDAL EXTENSION IN PAPILLARY THYROID CARCINOMA
 H.K. Su, B.M. Wenig, R.A. Ghossein, R.V. Lloyd, T.J. Giordano, L.D. Thompson, W. Faquin, S.L. Asa, O. Mete, S.M. Suster, E. Du, E.H. Alpert, E.H. Dewey, L. Dos Reis, H. Husaini, M.L. Urken
- Poster 255 *Thyroid Cancer* *Clinical*
 UTILITY OF THE ASURAGEN MIRINFORM® THYROID ONCOGENE PANEL IN PATIENTS ≤ 18 YEARS OF AGE
 L. Sullivan, S. Mostoufi-Moab, B. Pawel, Z. Baloch, V. LiVolsi, A. Szafranska-Schwarzbach, S. Beaudenon-Huibregtse, K. Kazahaya, N. Adzick, G. Krishnamurthy, A. Bauer
- Poster 256 *Thyroid Cancer* *Clinical*
 PHASE 3 STUDY OF (E7080) LENVATINIB IN DIFFERENTIATED CANCER OF THE THYROID (SELECT): RESULTS AND SUBGROUP ANALYSIS OF PATIENTS FROM NORTH AMERICA
 M.A. Habra, M. Schlumberger, L. Wirth, B. Robinson, M.S. Brose, M.H. Taylor, A.G. Gianoukakis, M.K. Krzyzanowska, C.E. Dutcus, B. de las Heras, J. Zhu, S.I. Sherman, M.H. Shah
- Poster 257 *Thyroid Cancer* *Clinical*
 INCREASED THYROID CANCER INCIDENCE CORRESPONDS TO INCREASED UTILIZATION OF THYROID ULTRASOUND AND FINE NEEDLE ASPIRATION: A POPULATION-BASED STUDY IN THE VETERANS AFFAIRS HEALTHCARE SYSTEM
 J.P. Zevallos, C.M. Hartman, J.R. Kramer, E.M. Sturgis, E.Y. Chiao
- Poster 258 *Thyroid Cancer* *Clinical*
 MYELOID SUPPRESSOR CELL MEASUREMENT FOR PREOPERATIVE DIAGNOSIS AND RISK STRATIFICATION OF DIFFERENTIATED THYROID CANCER
 T.E. Angell, M.G. Lechner, S.E. Martin, P.A. Singer, D.R. Maceri, A.L. Epstein

- Poster 259 *Thyroid Cancer* *Clinical*
CAPSULAR INVASION AT MORE THAN FIVE PLACES IS A SIGNIFICANT PROGNOSTIC FACTOR IN FOLLICULAR THYROID CARCINOMA
C. Kumar, A. Mishra, N. Kumari, N. krishnani, G. Chand, G. Agarwal, A. Agarwal, A.K. Verma, S.K. Mishra
- Poster 260 *Thyroid Cancer* *Clinical*
PEDIATRIC THYROID MALIGNANCIES: A SEVERE BURDEN OF DISEASE
S. Liao, M. Milas, M. Shindo
- Poster 261 *Thyroid Cancer* *Clinical*
UTILIZATION OF INTRAOPERATIVE ULTRASOUND-GUIDED LOCALIZATION AND METHYLENE BLUE INJECTION TO IMPROVE SURGICAL MANAGEMENT OF METASTATIC LYMPHADENOPATHY IN PEDIATRIC PATIENTS WITH PAPILLARY THYROID CANCER
R.C. Borek, P. Mudd, G. Krishnamurthy, A. Bauer, S. Mostoufi-Moab, K. Kazahaya
- Poster 262 *Thyroid Cancer* *Clinical*
RESPONSIVENESS OF GENERIC UTILITIES INDICES FOR PATIENTS UNDERGOING SURGERY FOR THYROID CANCER
K.P. Economopoulos, L. Benitez, G. Gazelle, E.F. Halpern, K. Donelan, J. Swan, C.C. Lubitz
- Poster 263 *Thyroid Cancer* *Clinical*
AN ANALYSIS 14,045 CASES OF PAPILLARY THYROID MICROCARCINOMA :1986-2013 SEVERANCE HOSPITAL EXPERIENCE
C. Lee, J. Jeong, S. Jung, S. Kang, J. Lee, J. Jung, K. Nam, W. Chung, C. Park
- Poster 264 *Thyroid Cancer* *Clinical*
CHANGES OF DIAGNOSIS, TREATMENT AND PROGNOSIS OF ANAPLASTIC THYROID CARCINOMA: 33 YEARS EXPERIENCES IN SEOUL NATIONAL UNIVERSITY HOSPITAL
D. Lee, J. Won, Y. Park, M. Sung, H. Wu, J. Hah
- Poster 265 *Thyroid Cancer* *Clinical*
ULTRASOUND SCORE AND NUCLEAR GROOVE PREDICT MALIGNANCY IN THYROID NODULES WITH INDETERMINATE CYTOLOGY
P. Suman, D. Boone, T. Moo-Young, D.J. Winchester, R. Prinz, R. Silvers
- Poster 266 *Thyroid Cancer* *Clinical*
FROZEN SECTION HISTOLOGICAL ANALYSIS AS AN INDICATOR FOR TREATMENT OF HEMI OR TOTAL THYROIDECTOMIES: A PILOT STUDY
E.H. Dewey, H.K. Su, E.H. Alpert, L. Dos Reis, B.M. Wenig, M.L. Urken
- Poster 267 *Thyroid Cancer* *Clinical*
METHOD OF DETECTION OF WELL DIFFERENTIATED THYROID CANCERS IN OBESE AND NON-OBESE PATIENTS
J. Zagzag, M.K. Malone, M.A. Lopresti, J.B. Ogilvie, K.N. Patel, K.S. Heller
- Poster 268 *Thyroid Cancer* *Clinical*
INITIAL MANAGEMENT OF PEDIATRIC AND ADOLESCENT PAPILLARY THYROID CANCER: AN EVIDENCE-BASED OPINION FROM A LARGE SERIES IN SOUTHERN CHINA
N. Qu, Q. Ji
- Poster 269 *Thyroid Cancer* *Clinical*
LONG TERM CLINICAL AND IMAGING FOLLOWUP OF AN OFFICE BASED GENE EXPRESSION CLASSIFIER USED TO MANGE THYROID NODULES
B.E. Michael
- Poster 270 *Thyroid Cancer* *Clinical*
RISK FACTORS OF FDG-AVID LYMPH NODE METASTASIS BEFORE RADIOIODINE THERAPY IN PAPILLARY THYROID CANCER
S. Cho, K. Park, S. Kang, J. Kim, G. Jeong, H. Park, J. Min, H. Bom, S. Kwon, H. Song

- Poster 271 *Thyroid Cancer* *Clinical*
 THE ASSOCIATION BETWEEN GENETIC ALTERATIONS AND CLINICAL CHARACTERISTICS IN DIFFUSE
 SCLEROSING VARIANT OF PAPILLARY THYROID CARCINOMA
 J. Joung, D. Jeong, Y. Cho, S. Park, S. Sohn, J. Chung, J. Jun, S. Kim
- Poster 272 *Withdrawn*
- Poster 273 *Thyroid Cancer* *Clinical*
 CLINICAL UTILITY OF FINE NEEDLE ASPIRATION WASHOUT THYROGLOBULIN LEVELS IN SUSPICIOUS LYMPH
 NODE OF THYROID CANCER PATIENTS: A LARGE-SCALE HOSPITAL-COHORT STUDY
 K. Jo, M. Kim, J. Bae, C. Jung, S. Jung, M. Kang, B. Cha, D. Lim
- Poster 274 *Thyroid Cancer* *Clinical*
 FACTORS AFFECTING OUTCOMES IN LOCALLY INVASIVE DIFFERENTIATED THYROID CARCINOMA: THE
 UNIVERSITY OF PITTSBURGH EXPERIENCE FROM 1987-2013
 M.C. Grimes, D. Winger, S.I. Chiosea, S. Kim, J. Johnson, H. Rao, R.L. Ferris, U. Duvvuri
- Poster 275 *Thyroid Cancer* *Clinical*
 THE VALUE OF ULTRASONOGRAPHIC CALCIFICATIONS AS A PROGNOSTIC FACTOR IN PAPILLARY THYROID
 CARCINOMA
 B. Kim, J. Kim, Y. Kim, S. Kwon, Y. Choi, Y. Park
- Poster 276 *Thyroid Cancer* *Clinical*
 THE FREQUENCY OF LYMPH NODE INVOLVEMENT IN PARATHYROID CARCINOMA. A SEER DATABASE ANALYSIS
 H.A. Deshpande, R. Udelsman, T. Carling, C. Quinn, E. Holt, S. Inzucchi, B. Burtness, D. Morgensztern, G. Callender
- Poster 277 *Thyroid Cancer* *Clinical*
 CLINICO-PATHOLOGICAL RISK FACTORS AND BIOCHEMICAL PREDICTORS OF SAFE DISCHARGE AFTER TOTAL
 THYROIDECTOMY AND CENTRAL COMPARTMENT NODE DISSECTION FOR THYROID CANCER: A PROSPECTIVE
 STUDY
 Y. Lee, J. Yoon
- Poster 278 *Thyroid Cancer* *Clinical*
 DISTANT METASTASIS AS THE INITIAL PRESENTATION OF THYROID CARCINOMA - A 12-YEAR EXPERIENCE IN AN
 ASIAN CANCER CENTER
 A.X. See, C. Teo, J. Ng, N. Iyer, N. Tan, H. Tan
- Poster 279 *Thyroid Cancer* *Clinical*
 UNUSUAL FEATURES IN A SUBSET OF PATIENTS WITH WELL DIFFERENTIATED THYROID CARCINOMA
 PRESENTING TO A TERTIARY REFERRAL CENTRE IN SOUTH AFRICA
 I.L. Ross, T. Kotze, B. Robertson, E. Panieri, R. Steyn
- Poster 280 *Thyroid Cancer* *Clinical*
 THE PREDICTION OF MALIGNANT RISK OF THYROID NODULES AS ATYPIA AND FOLLICULAR LESIONS OF
 UNDETERMINED SIGNIFICANCE IN THYROID FINE-NEEDLE ASPIRATION CYTOLOGY
 D. Kim, J. Lee, J. Jeon, Y. Choi, S. Han, Y. Chung
- Poster 281 *Thyroid Cancer* *Clinical*
 A RARE CASE OF PAPILLARY THYROID CANCER ARISING IN A THYROGLOSSAL DUCT CYST
 S.W. Urban McCarthy, M. Policarpio-Nicolas, N. Riddle, F.R. Miller, S. Ahmadi
- Poster 282 *Thyroid Cancer* *Translational*
 OVEREXPRESSION OF LGR5 IN HUMAN THYROID CANCER PROMOTES WNT/ B-CATENIN SIGNALING AND IS
 ASSOCIATED WITH TUMOR AGGRESSIVENESS
 G. Michelotti, J. Sosa, X. Jiang, A. Diehl, B. Bohinc
- Poster 283 *Thyroid Cancer* *Translational*
 BRAF TESTING IN MUTIFOCAL PAPILLARY THYROID CARCINOMA
 H.Z. Kimbrell, S. Ratnayaka, P. Bhatia, S. Japa, A. Sholl, G.R. Carpio, A. Khan, E. Kandil

- Poster 284 *Thyroid Cancer* *Translational*
MICRORNAS AS A POWERFUL DIAGNOSTIC TOOL FOR THYROID NODULE CLASSIFICATION IN PRE-OPERATIVE SAMPLES
H. Benjamin, G. Lithwick Yanai, M. Kushnir, A. Shtabsky, A. Zubkov, Y. Strenov, S. Morgenstern, M. Feinmesser, X. Zhang, Z. Barnett-Itzhaki, D. Lebanony, D. Bar
- Poster 285 *Thyroid Cancer* *Translational*
ABI3 EXPRESSION IN THYROID CARCINOMAS IS REGULATED BY DNA METHYLATION AND NKX2-1 TRANSCRIPTION FACTOR
L. Moraes, A.R. Galrão, I.S. Rubió, J.M. Cerutti
- Poster 286 *Thyroid Hormone Action* *Basic*
OPPOSITE ROLES OF JAB1 WITH L-TR β 1+T2 AND S-TR β 1+T3 COMPLEXES
G. Hernandez-Puga, A. Mendoza, P. Villalobos, A. Orozco
- Poster 287 *Thyroid Hormone Metabolism & Regulation* *Basic*
DEVELOPMENT OF THE TSH SET POINT IN ZEBRAFISH
K.N. Tonyushkina, S. Krug, R.O. Karlstrom
- Poster 288 *Thyroid Hormone Action* *Basic*
CROSS-REGULATION OF 3,5-T2 AND CORTISOL SIGNALLING PATHWAYS IN TILAPIA
P. Navarrete-Ramírez, P. Villalobos, A. Orozco
- Poster 289 *Thyroid Hormone Action* *Translational*
VARIABLE BROWN ADIPOSE TISSUE RESPONSE TO THE THYROID HORMONE STATUS
A. Gavriila, P. Hasselgren, A. Glasgow, A. Doyle, A. Lee, S. Gautam, J.V. Hennessey, G. Kolodny, A. Cypess
- Poster 290 *Thyroid Hormone Metabolism & Regulation* *Basic*
GHRELIN INHIBITS IN VITRO THYROID CELL FUNCTION
M. Moeller Brorson, B. Holst, J. Hofman-Bang, M. Hartoft-Nielsen, .K. Rasmussen, U. Feldt-Rasmussen
- Poster 291 *Thyroid Hormone Metabolism & Regulation* *Clinical*
HYPOTHYROIDISM IN AN INFANT WITH A FIBROSARCOMA EXPRESSING TYPE 3 DEIODINASE (D3)
K.J. Connelly, S. Huang, A.L. Krol, R. Jugo, S.H. LaFranchi
- Poster 292 *Thyroid Hormone Metabolism & Regulation* *Clinical*
TABLET L-T4 FORMULATION VS. ORAL LIQUID FORMULATION IN ATROPHIC GASTRITIS PATIENTS: REVERSIBLE NORMALISATION OF SERUM TSH LEVELS
I. Ruffilli, P. Fallahi, S. Ferrari, A. Di Domenicantonio, A. Corrado, A. Antonelli
- Poster 293 *Thyroid Hormone Metabolism & Regulation* *Clinical*
NORMALIZATION OF SERUM TSH LEVELS IN PATIENTS WITH BARIATRIC SURGERY WHO RECEIVED L-T4 IN TABLET FORM AFTER SWITCHING TO AN ORAL LIQUID FORMULATION
P. Fallahi, R. Vita, S. Camastra, S. Ferrari, S. Benvenga, A. Antonelli
- Poster 294 *Autoimmunity* *Basic*
IFNS MODULATE THE SECRETION OF CXCL8 IN PRIMARY CULTURES OF THYROCYTES IN GRAVES' DISEASE AND IN PRIMARY FIBROBLASTS OR PREADIPOCYTES FROM GRAVES' OPHTHALMOPATHY
S. Ferrari, P. Fallahi, A. Corrado, I. Ruffilli, A. Di Domenicantonio, M. Nardi, S. Sellari Franceschini, A. Antonelli
- Poster 295 *Thyroid Hormone Metabolism & Regulation* *Clinical*
METFORMIN EFFECT ON THYROID PROFILE IN WOMEN WITH POLYCYSTIC OVARY SYNDROME FROM HOSPITAL UNIVERSITARIO DE CARACAS
R. Cano, M. Agostini, L. Zavala, R. Anez, G. Corzo, L. Figueroa
- Poster 296 *Thyroid Imaging* *Clinical*
ULTRASOUND-BASED DIAGNOSIS FOR CONTRALATERAL MALIGNANCY IN PREOPERATIVE PAPILLARY THYROID MICROCARCINOMA PATIENTS
D. Kim, D. Kim, T. Ha, H. Park, S. Kim, S. Jung

- Poster 297 *Thyroid Imaging* *Clinical*
 MINIMALLY INVASIVE PARATHYROIDECTOMY WITHOUT THE USE OF INTRAOPERATIVE PARATHYROID HORMONE MEASUREMENTS
 J.D. Pasternak, J. Oliveria, P. Nguyen, J.M. Young
- Poster 298 *Thyroid Imaging* *Clinical*
 THE USEFULNESS OF PREOPERATIVE LOCALIZATION WITH MULTIDETECTOR COMPUTED TOMOGRAPHY AND SESTAMIBI SCINTIGRAPHY IN PRIMARY HYPERPARATHYROIDISM
 J.D. Pasternak, J. Oliveria, P. Nguyen, J.M. Young
- Poster 299 *Thyroid Imaging* *Translational*
 COMPARISON BETWEEN 99MTC-TR1401 AND 99MTC-TR1402 HUMAN TSH SUPERAGONIST ANALOGUES FOR IN VIVO IMAGING OF POORLY DIFFERENTIATED THYROID CANCER SHOWING UP-REGULATION OF THE TSH RECEPTOR
 F. Galli, I. Manni, G. Piaggio, L. Balogh, B.D. Weintraub, M.W. Szkudlinski, R.A. Dierckx, A. Signore
- Poster 300 *Thyroid Nodules & Goiter* *Clinical*
 DOES OPTIMAL TIMING EXIST FOR A REPEAT FNA BIOPSY FOLLOWING AN INITIAL NON-DIAGNOSTIC FNA?
 A. Deniwar, N. Alsaleh, A. Khan, T. Thethi, A. Sholl, E. Kandil
- Poster 301 *Thyroid Nodules & Goiter* *Clinical*
 ACCURACY AND RELIABILITY OF BETHESDA CRITERIA RISK STRATIFICATION OF THYROID NODULES IN SURGERY PLANNING
 A. Deniwar, H. Khadra, T. Thethi, K. Moroz, E. Kandil
- Poster 302 *Withdrawn*
- Poster 303 *Thyroid Nodules & Goiter* *Clinical*
 MORPHOLOGICAL EVALUATION OF THE EFFECTIVENESS OF BIPOLAR RADIOFREQUENCY ABLATION FOR NODULAR THYROID DISEASES
 I. Branovan, M. Fridman, L. Zurnadzhy, M. Lushchik, T. Platonova, V. Drozd, A. Kovalenko, N. Shiglik, L. Danilova, Y. Demidchik
- Poster 304 *Thyroid Nodules & Goiter* *Clinical*
 ASSOCIATION BETWEEN WORSE METABOLIC CONTROL AND THYROID NODULAR DISEASE IN ELDERLY PEOPLE WITH METABOLIC SYNDROME
 E. Blanc, C. Ponce, D. Brodschi, M. Nepote, A. Barreto, M. Schnitman, P. Fossati, M. Gurfinkel, P. Salgado, C. Cejas, M. Faingold, C. Musso, G. Brenta
- Poster 305 *Thyroid Nodules & Goiter* *Clinical*
 RARE CASES OF PRIMARY HYPERPARATHYROIDISM INCLUDING: CARCINOMA, CYST IN MEN I SYNDROME, LIPOADENOMA AND ONCOCYTIC ADENOMA
 N. Al-Brahim, I. Al-Kandari, A. Al-Mutairi, M. Al-Kandari
- Poster 306 *Thyroid Cancer* *Clinical*
 WELL DIFFERENTIATED THYROID CARCINOMA (WDTC): CLINICO-PATHOLOGICAL ANALYSIS OF 76 CASES FROM FARWANIYA REGION IN KUWAIT
 N. Al-Brahim, I. Al-Kandari, A. Al-Mutairi, T. Abou Ali, A. Al-Abdallah
- Poster 307 *Disorders of Thyroid Function* *Case Report*
 SEVERE THYROTOXICOSIS IN A CHRONIC LYMPHOCYTIC LEUKEMIA PATIENT
 C. choudhary, J. Jonklaas
- Poster 308 *Disorders of Thyroid Function* *Case Report*
 THYROTOXIC HYPOKALEMIC PERIODIC PARALYSIS - TWO CASES WITH DIFFERENT ETIOLOGIES AND PRECIPITANTS
 V. Baskar, V.J. Sonawane, T.P. Quek
- Poster 309 *Disorders of Thyroid Function* *Case Report*
 EXTRAORDINARILY HIGH LEVELS OF RADIOIODINE IN A CASE OF GRAVES' DISEASE
 S.A. Abid, B.C. Stack, A.M. Hinson, D.L. Bodenner

Poster 310	<i>Thyroid & Development</i>	<i>Case Report</i>
A RARE CASE OF ECTOPIC THYROID TISSUE IN ANTERIOR MEDIASTINUM WITH THE NORMAL CERVICAL THYROID		
R.M. Patel, C. Puckett, B. Panunti		
Poster 311	<i>Thyroid Cancer</i>	<i>Case Report</i>
VERTEBRAL HEMANGIOMA AND FALSE POSITIVE I-131 UPTAKE IN WELL-DIFFERENTIATED THYROID CARCINOMA		
A.M. Robertson, S. Smooke-Praw		
Poster 312	<i>Thyroid Cancer</i>	<i>Case Report</i>
ADULT MEDULLOBLASTOMA AND THYROID CANCER		
L. chertman, M. Chertman		
Poster 313	<i>Thyroid Cancer</i>	<i>Case Report</i>
CONCOMITANT RENAL CELL CARCINOMA METASTASIS TO THYROID GLAND AND THYROID ONCOCYTIC FOLLICULAR ADENOMA		
R. Buzzola, M. Page, C. Manrique, A. Thiessen		
Poster 314	<i>Thyroid Hormone Action</i>	<i>Case Report</i>
THYROID HORMONE RESISTANCE: A CASE REPORT		
S. Dowlatshahi, S. AfsharImani, E. Sinsheimer		
Poster 315	<i>Thyroid Nodules & Goiter</i>	<i>Case Report</i>
DEVELOPMENT OF GOITER AS DIAGNOSTIC CLUE IN LANGERHANS CELL HISTIOCYTOSIS		
A.P. Kuker, J.R. Furst, T. Giordadze, A. Saqi, J. Ausiello, S. Ebner		
Poster 316	<i>Thyroid Nodules & Goiter</i>	<i>Case Report</i>
ROLE OF RADIOIODINE UPTAKE SCAN IN IDENTIFYING COLD NODULE IN PATIENT WITH MULTINODULAR GOITER		
A. Balasingham, D. Ponnusamy, G. Chune		
Short Call Poster 12	<i>Thyroid Cancer</i>	<i>Clinical</i>
RETROSPECTIVE STUDY OF SIROLIMUS AND CYCLOPHOSPHAMIDE IN PATIENTS WITH ADVANCED THYROID CANCER		
P. Manohar, F. Worden, L. Beesley, J. Taylor		
Short Call Poster 13	<i>Thyroid Nodules & Goiter</i>	<i>Clinical</i>
SURVEY OF THYROID HORMONES AND GOITER INCIDENCE IN ADULTS PATIENTS USING NUCLEAR MEDICINE TECHNIQUE		
K. Alzimami, M. Yousef, A. Sulieman		
Short Call Poster 14	<i>Thyroid Cancer</i>	<i>Clinical</i>
INTRAOPERATIVE MONITORING OF THE SUPERIOR LARYNGEAL NERVE DURING THYROIDECTOMY: A PROSPECTIVE STUDY OF 40 PATIENTS		
N.C. Schmitt, B.L. Hodnett, J. Balzer, P. Thirumala, U. Duvvuri		
11:30 a.m. – 12:30 p.m.	Meet the Professor Workshops (Pre-registered selections available with mailing badge)	
Spreckels Complex, Grande Hall Bldg.	Radioactive Iodine Therapy in Benign Goiter	<i>Laszlo Hegedus</i>
Garden Room, Victorian Building	Correlating Outcomes with the Histological Description of Follicular Cell Derived Thyroid Cancers: What Is the Clinical Relevance?	<i>Ronald A. Ghossein Victor J. Bernet</i>
Crown Room, Victorian Building	Should BRAF Status Influence Initial Management Decisions In Differentiated Thyroid Cancer?	<i>Sally E. Carty Kepal Patel</i>
Edison Complex, Grande Hall Bldg.	What is New for Thyroid Hormone Transporters	<i>Theo J. Visser</i>
Hanover Room, Victorian Building	ATA Basic Science Handbook	<i>Antonio C. Bianco</i>

12:30 p.m. – 1:25 p.m.	Poster Review and Lunch on your Own	
12:30 p.m. – 1:25 p.m. Wilder Complex, Grande Hall Bldg.	Ridgway Trainee Conference Lunch Session: Enhancing Your CV (Designed for basic trainees; open to all trainees – lunch ticket required for meal)	
	Vice President for Research Chief Scientific Officer Deputy Editor	<i>Donald St. Germain Giulia C. Kennedy Sarah Linklater</i>
12:30 p.m. – 1:25 p.m. Empress Hall, Grande Hall Building	Ridgway Trainee Conference Lunch Session: Clinical Career Tracks (Open to all trainees – lunch ticket required for meal)	
	Private Practice Managed Care Academic (Clinical) Industry	<i>Susan A. Sherman Shireen Fatemi Elizabeth N. Pearce James A. Magner</i>
12:30 p.m. – 1:25 p.m. Carousel Room, Victorian Building	ATA Expo Theater Presentation with MedImmune, Specialty Care Division of AstraZeneca- Clinical Considerations in Advanced Medullary Thyroid Cancer (MTC) Patient Management (Only U.S. health care professionals are permitted to attend this program; space limited – first come, first served; lunch included)	<i>Kate Newbold</i>
1:00 p.m. – 3:00 p.m. Regent Hall, Grande Hall Building	ATA Alliance for Patient Education Public Forum (Open to the general public and all meeting attendees)	
	<i>Sponsored by the ATA Alliance members: American Thyroid Association, Bite Me Cancer, Graves' Disease and Thyroid Foundation, Light of Life Foundation, ThyCa: Thyroid Cancer Survivors' Association, Inc., Thyroid Cancer Canada and Thyroid Federation International</i>	
1:30 p.m.	Exhibit Hall Closes	
1:30 p.m. – 2:15 p.m. Crown Room, Victorian Building	Paul Starr Award Lecture What Can a Clinician Contribute? <i>Introduction: Gregory W. Randolph</i>	<i>Gilbert H. Daniels</i>
	The Paul Starr Lectureship Award is in recognition of an outstanding contributor to clinical thyroidology.	
2:20 p.m. – 3:20 p.m. Garden Room, Victorian Building	Basic Oral Abstract Session <i>Chairs: Sandra M. McLachlan and Yaron Tomer</i>	
	Oral 215, <i>Thyroid Hormone Action, Basic</i> ROLES OF THYROID HORMONE-TARGET GENE HISTONE H3K79 METHYLTRANSFERASE DOT1L DURING EMBRYOGENESIS AND ADULT STEM CELL DEVELOPMENT Y.B. Shi	
	Oral 216, <i>Thyroid & Development, Basic</i> THYROID HORMONE DRIVING LARVAL CELLS MAD: THE ROLE OF C-MYC GENE FAMILY IN THYROID HORMONE-DEPENDENT INTESTINAL STEM CELL DEVELOPMENT T.C. Miller, M. Okada, Y. Shi	
	Oral 217, <i>Thyroid & Development, Basic</i> THE HISTONE METHYLTRANSFERASE PRMT1 REGULATES ADULT INTESTINAL STEM CELL DEVELOPMENT IN MICE J. Rodiger, Y. Zhang, Y. Shi	

Oral 218, *Disorders of Thyroid Function, Basic*
XB130 DEFICIENCY RESULTS IN MOUSE THYROID HORMONE SYNTHESIS
DISORDER
H. Shimizu, Y. Wang, H. Toba, H. Cho, X. Bai, S.L. Asa, X. Liao, S. Refetoff, M. Liu

2:20 p.m. – 3:20 p.m.
Crown Room, Victorian Building

Clinical Oral Abstract Session
Chairs: Giuseppe Barbesino and Rebecca Leboeuf

Oral 219, *Thyroid & Development, Clinical*
PREGNANCY OUTCOMES OF EXPOSURE TO METHIMAZOLE (POEM) STUDY: AN
INTERIM REPORT
N. Arata, A. Murashima, S. Ito, Y. Ohashi, H. Onose, K. Kosaki, R. Kosaki, J. Tajiri, N.
Hamada, Y. Hidaka, S. Fukata, N. Momotani, S. Kubota, H. Yoshikawa

Oral Abstract 220, *Thyroid & Development, Translational*
IS SEVERITY OF HYPOTHYROIDISM AT BIRTH ASSOCIATED WITH ABNORMAL
CORTICAL DEVELOPMENT IN CHILDREN WITH CONGENITAL
HYPOTHYROIDISM?
J.F. Rovet, H. Clairman, J. Lischinsky, J. Skocic

Oral Abstract 221, *Disorders of Thyroid Function, Clinical*
MYXEDEMA COMA DIAGNOSIS AND TREATMENT: A CASE SERIES OF 45
PATIENTS FROM 2004-2014 TREATED WITH 500MCG OF IV L-THYROXINE
K.C. Wu, C.T. Nguyen, J.S. LoPresti, D.A. Cohen

Oral Abstract 222, *Disorders of Thyroid Function, Clinical*
HYPERTHYROIDISM INCIDENCE VARIATION IN AND AROUND FIRST AND
SUBSEQUENT PREGNANCIES: A DANISH POPULATION-BASED STUDY
S.L. Andersen, A. Carlé, J. Olsen, P. Laurberg

3:25 p.m. – 4:40 p.m.
Crown Room, Victorian Building

Clinical: Evolution of Imaging Modalities in Thyroid Cancer
Chairs: Anni Morsing and Ronald J. Koenig

Update on Sonography in Thyroid Cancer Surveillance and Novel
Therapeutic Strategies for Nodal Metastases *Robert A. Lee*
FDG and Beyond: Evolution of Positron-Emission Tomography
Tracers in Advanced Thyroid Cancers Personalized Approaches *Trond Velde Bogsrud*
in Thyroid Cancer Imaging – The Future *Anni Morsing*

3:25 p.m. – 4:40 p.m.
Garden Room, Victorian Building

Basic: Thyroid Hormone Receptors: Insights from Disease Models
Chair: Graham R. Williams

Prereceptor Defects in Humans *Alexandra Dumitrescu*
THRA Human Mutations *Carla Moran*
THRB Human Mutations *Samuel Refetoff*

4:40 p.m. – 4:55 p.m.
Carousel Room, Victorian Building

Coffee Break

4:55 p.m. – 6:10 p.m.
Crown Room, Victorian Building

**Symposium: More Everyday Ethical Dilemmas for Thyroid
Practitioners 2014**

Moderator: Cheryl Ann Fassler

Thyroidology and the Public Trust *Loren Wissner Greene*
Informed Consent for Non-Standard or Innovative Therapies in *M. Sara Rosenthal*
Thyroidology Mandatory Return of Results for the RET Mutations: *Peter Angelos*
New Ethical Dilemmas for the Thyroid World

84th Annual Meeting of the American Thyroid Association
Sunday, November 2, 2014



7:30 a.m. – 8:30 a.m.
Crown Room, Victorian Building

Continental Breakfast

8:00 a.m. – 11:30 a.m.
Group Registration Desk
Victorian Building

Registration Open

8:00 a.m. – 9:15 a.m.
Crown Room, Victorian Building

**Symposium: Contemporary Evaluation and Management
of Thyroid Nodules**

Chair: Melanie Goldfarb

Using Ultrasound to Risk Stratify Thyroid Nodules and Guide
Selection for FNA

Andrew G. Gianoukakis

Rationale Follow-up of Cytologically Benign Thyroid Nodules
Minimally Invasive Therapy for Benign and Malignant Nodules

*Ralf Paschke
Enrico Papini*

9:30 a.m. – 11:00 a.m.
Crown Room, Victorian Building

Thyroid Cancer Tumor Board Session

Moderator: Steven I. Sherman

Endocrinology
Surgery
Nuclear Medicine
Radiation Oncology
Oncology
Pathology

*Douglas W. Ball
Ralph P. Tufano
Daniel A. Pryma
James D. Brierley
Marcia S. Brose
Yuri Nikiforov*

11:00 a.m.

84th Annual Meeting of the ATA Ends