77th Annual Meeting of the

AMERICAN THYROID ASSOCIATION
FOUNDED 1923

Sheraton Wild Horse Pass Resort & Spa
Phoenix, Arizona
October 11–15, 2006
Goals:
The aim of The American Thyroid Association is to draw the widest possible international community of thyroid specialists together at the annual meeting in order to share the newest concepts in diagnosis, clinical management and research findings in thyroid disease.

The American Thyroid Association Annual Meeting is designed for the worldwide community of endocrinologists, other physicians and health care professionals, and scientists who wish to broaden and update their knowledge of the thyroid gland and its disorders.

The ATA provides outstanding leadership in thyroidology by promoting excellence and innovation in clinical care, research, education, and public advocacy.

The 77th Annual Meeting of The American Thyroid Association is Jointly Sponsored by The American Thyroid Association and The University of Texas M.D. Anderson Cancer Center.

Accreditation/Credit Designation:
This activity has been planned and implemented in accordance with the Essentials and Standards of the Accreditation Council for Continuing Medical Education through the joint sponsorship of The University of Texas M. D. Anderson Cancer Center and The American Thyroid Association, Inc. The University of Texas M. D. Anderson Cancer Center is accredited by the ACCME to provide continuing medical education for physicians.

The University of Texas M. D. Anderson Cancer Center designates this educational activity for a maximum of 32.50 AMA PRA Category 1 Credits™ toward the AMA Physician’s Recognition Award. Each physician should claim only those credits that he/she actually spent in the activity.

The American Medical Association has determined that physicians not licensed in the US who participate in this CME activity are eligible for AMA PRA category 1 credit.

Evaluation:
A course evaluation form will provide participants with the opportunity to review each session and speaker, to identify future educational needs, and to comment on any perceived commercial bias in the presentations.

CME Notices:
The University of Texas M.D. Anderson Cancer Center has implemented a process whereby everyone who is in a position to control the content of an educational activity must disclose all relevant financial relationships with any commercial interest that could potentially affect the information presented. Agendas are subject to change because we are always striving to improve the quality of your educational experience. The American Thyroid Association and M.D. Anderson may as needed substitute faculty with comparable expertise in the event of illness, scheduling conflicts, or other such reasons. Audio taping or videotaping is prohibited.

Target Audience:
This meeting is designed for the worldwide community of thyroid specialists: endocrinologists, surgeons, basic scientists, nuclear medicine scientists, pathologists, endocrine nurses, and other health care professionals who wish to broaden and update their knowledge of the thyroid gland and its disorders.

Educational Design:
The ATA Annual Meeting features interactive sessions discussing oral and poster abstracts, innovative talks on cutting-edge topics, case studies, “meet the professor” workshops, panel discussions and a great balance between basic science and clinical topics. The Annual Meeting is known for its state-of-the-art information, unparalleled networking opportunities, and warm collegiality.

Educational Objectives:
1. Describe state-of-the art findings on the mechanisms, prevention, diagnosis, and management of thyroid disease and thyroid cancer
2. Recognize the impact of health policy, environmental factors, and non-thyroidal conditions on thyroid disease and thyroid cancer
3. Incorporate new treatment options for thyroid disease and thyroid cancer in patient care
4. Identify and increase your opportunities for networking and collaboration with other professionals in furthering research in the fields of thyroid disease, thyroid cancer and patient care.

Support of the Annual Meeting:
The University of Texas M.D. Anderson Cancer Center and the American Thyroid Association acknowledge educational grants and in-kind contributions from Abbott Laboratories, Genzyme, Inc., King Pharmaceuticals, Inc., Astra Zeneca, Amgen and Kronus, Inc., SmartSound, Shimadzu and Toshiba in support of this program.
77th Annual Meeting of the American Thyroid Association
Sheraton Wild Horse Pass Resort & Spa
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Wednesday, October 11, 2006

6:45 am – 8:00 am  Coyote/Buzzard/Eagle
Endocrine Fellows Day Breakfast

8:00 – 4:00 pm  Akimel O’otham 3
Endocrine Fellows Day
Chair: E. Chester Ridgway

7:30 am – 11:00 am  Pointe South Mountain Resort
3:00–5:00 pm  Wild Horse Resort & Spa
ATA Executive Council Meeting

10:00 am – 9:00 pm  Pointe South Mountain—Registration desk, Lower Lobby
Meeting Registration Open

10:00 am – 7:00 pm  Thunder One Pre-function
Meeting Registration Open

11:00 am – 1:00 pm  Pointe South Mountain Resort
ATA Committee Meetings

1:00 am – 5:00 pm  Quail
Ruth Volpé Hospitality Suite – open daily throughout the meeting

1:00 – 5:00 pm  Akimel O’otham 1, 2
Advanced Ultrasound Symposium and Practicum
(ticket required)
Lymph node metastases: Does it matter?  Steven Sherman
US surveillance for detection of metastatic lymph nodes  Susan Mandel
Parathyroid ultrasound  Dan Duick
On site FNA cytology evaluation  Nicole Massoll

2:00 – 7:00 pm  Pipai Kave
Exhibit Hall Open
ATA website and members-only demonstration
All ATA meeting attendees: Check your email

4:30 pm – 6:00 pm  Ant
ATA Fellows Track Welcome and Introductions
Chairs: Michael McDermott and Stephanie Fish

6:30 pm  Roadrunner
Association of Clinical Thyroidologists (ACT) Meeting

ATA Welcome Receptions

5:00 pm – 6:00 pm  Coyote/Buzzard
Women in Thyroidology Welcome Reception and Meeting

6:00 – 7:00 pm  Coyote/Buzzard
Newcomers and Fellows Welcome Reception

7:00 – 8:30 pm  Grand Terrace (exit by Akimel Foyer to Mesquite Terrace)
Welcome Reception for all meeting attendees and guests. Music by ATA member, Joe DiStefano and company.
Thursday, October 12, 2006

6:00 am – 6:00 pm  Ant
ATA Fellows Track Room (See Fellows schedule posted daily)

6:00 am  Akimel O’otham 1, 2
Breakfast

6:30 – 7:45 am  Akimel O’otham 1, 2  Supported by an educational grant from Amgen
CME symposium
Frontiers in Thyroid Neoplasia: Identifying Novel Therapeutic Targets
Moderator: Steven Sherman
Insights from molecular pathways: potential pharmacologic therapy of benign nodules  Ralf Paschke
Targeting nuclear receptors: RAR, RXR and PPAR  Bryan Haugen
Lessons from Clinical Trials with Multikinase Inhibitors  Alan M. Gerwitz

8:00 – 8:15 am  Akimel O’otham 3, 4
Welcome and Introductions
Ernest L. Mazzaferri  ATA President
Gregory A. Brent  ATA Secretary
Susan J. Mandel  ATA Program Chair, Clinical Medicine
Antonio C. Bianco  ATA Program Chair, Basic Science

8:15 – 9:00 am  Akimel O’otham 3, 4
Keynote
“Genetic Defects Leading to Abnormal Thyroid Hormone Metabolism”
Samuel Refetoff, MD
Professor of Medicine, Pediatrics and Genetics
University of Chicago
Chicago, Illinois

9:00 am – 4:30 pm  Pipai Kave
Exhibit Hall Open
  ATA website and members-only demonstration
  All ATA meeting attendees: Check your email

9:00 – 10:00 am  Akimel O’otham 3, 4
Plenary Session - Oral abstracts
Chairs: Antonio Bianco and Susan Mandel

Program Number 1  Thyroid Hormone Action Thursday Oral Basic 9:00 am
Clinical Implications of the Crystal Structure of Thyroxine–Binding Globulin
A. Zhou, B. B. Du, R. Carrell
Cambridge Institute for Medical Research, University of Cambridge, Cambridge, United Kingdom

Program Number 2  Thyroid Cancer Thursday Oral Clinical 9:15 am
Bortezomib in patients with metastatic differentiated thyroid cancer: preliminary results of a multicenter phase II study
J. D. Brierley1, R. W. Tsang1, B. S. Glisson2, M. S. Kies2, M. A. Kane3, B. R. Haugen4, D. R. Litofsky5, S. I. Sherman for the National Thyroid Cancer Treatment Coop Study Group5
1Dept. of Radiation Oncology, University of Toronto, Toronto, ON, Canada; 2Dept. of Thoracic, Head and Neck Medical Oncology, University of Texas M.D. Anderson Cancer Center, Houston, TX, USA; 3Dept. of Medicine, Div. of Hematology and Oncology, University of Colorado Health Sciences Center and the Denver Veterans Affairs Medical Center, Denver, CO, USA; 4Dept of Medicine, Div. of Endocrinology, Metabolism and Diabetes, University of Colorado at Denver and Health Sciences Center, Aurora, CO, USA; 5Dept. of Endocrine Neoplasia and Hormonal Disorders, University of Texas M.D. Anderson Cancer Center, Houston, TX, USA
Program Number 3 Thyroid Hormone Metabolism and Regulation Thursday Oral Basic 9:30 am
Abnormal thyroid hormone metabolism in mice lacking the monocarboxylate transporter 8
1Neuroendocrinology, Leibniz Institute for Age Research - Fritz Lipmann Institute, Jena, Germany; 2Department of Internal Medicine, Erasmus Medical Center, Rotterdam, Netherlands; 3Neuroendocrinology, Max Planck Institute for Experimental Endocrinology, Hannover, Germany

Program Number 4 Thyroid Nodules and Goiter Thursday Oral Clinical 9:45 am
High-intensity focused ultrasound (HIFU) treatment for thyroid nodules: first clinical study
1Department of ENT and maxillofacial surgery, Saint Louis Hospital, Paris, France; 2Department of Pathology, Ambroise Paré Hospital, Boulogne Billancourt, France; 3Department of General and Endocrine Surgery, Pitié Salpêtrière Hospital, Paris, France; 4Department of Nuclear Medicine, Pitié Salpétrière Hospital, Paris, France; 5Department of Radiology, Saint Louis Hospital, Paris, France; 6Research on therapeutic applications of ultrasound, INSERM U 556, Lyon, France

10:00 – 10:30 am Pipai Kave
Poster Session and Break Akimel O’otham Foyer

Program Number 5 WITHDRAWN

Program Number 6 Autoimmunity Thursday Poster Basic
Expanding the HLA-DRB1-DQA1 association with Graves’ disease
Division of Medical Sciences, University of Birmingham, Birmingham, United Kingdom

Program Number 7 Autoimmunity Thursday Poster Basic
Regenerative potentials of the murine thyroid: accelerated recovery in the absence of CD24
Y. C. Chen, P. Caturegli
Department of Pathology, The Johns Hopkins Medical Institutions, Baltimore, MD, USA

Program Number 8 Autoimmunity Thursday Poster Basic
Parvovirus B19 Infection is Associated with Hashimoto’s Thyroiditis
1Department of Pathology, Fourth Military Medical University, Xi’an, China; 2Department of Histopathology, Addenbrooke’s Hospital, Cambridge, United Kingdom

Program Number 9 Autoimmunity Thursday Poster Basic
Adipogenesis is Stimulated by Thyrotropin Receptor Autoantibodies and TSH in Graves’ Orbital Preadipocytes
M. N. Stan, M. J. Coenen, R. S. Bahn
Division of Endocrinology, Diabetes, Metabolism and Nutrition, Mayo Clinic, Rochester, MN, USA

Program Number 10 Autoimmunity Thursday Poster Clinical
Comparison of different methods to determine DNase activity in thyroid autoimmunity
G. Kahaly
Endocrine Research Laboratory, Department of Medicine, Gutenberg University Hospital, Mainz, Germany

Program Number 11 WITHDRAWN

Program Number 12 Autoimmunity Thursday Poster Basic
Helicobacter Pylori Proteins and Thyroid Autoantigens Share Amino Acid Sequence Homology That Includes Motifs of Recognition for HLA Molecules and T-Cell Receptors
F. Guarneri, A. Alessi, F. Trimarchi, S. Benvenga
1Dipartimento di Medicina Sociale del Territorio, Istituto di Dermatologia, Messina, Italy; 2Dipartimento Clinico Sperimentale di Medicina e Farmacologia, Sezione di Endocrinologia, Messina, Italy; 3Dipartimento Clinico Sperimentale di Medicina e Farmacologia & Progr. di Endocrinologia Molecolare Clinica, Sezione di Endocrinologia, Messina, Italy
LMP2, a subunit of the immunoproteasome, mediates the Hürthle cell phenotype and hypothyroidism in interferon-gamma transgenic mice. A novel therapeutic target
H. Kimura, P. Caturegli
Department of Pathology, The Johns Hopkins Medical Institutions, Baltimore, MD, USA

Synergistic stimulation of the human PDS/SLC26A4 promoter by PAX8 and TTF1
J. C. Solis-Si, S. Schnyerd, L. Chen, P. Kopp
1Division of Endocrinology, Metabolism and Molecular Medicine, Tarry 15, 303 East Chicago Avenue, Northwestern University, Chicago, IL, USA; 2Division of Endocrinology, Metabolism and Molecular Medicine, Northwestern University, Chicago, IL, USA

Is the red blood cell a new target of TSH action? Evidence for the presence of a TSH effect on human erythrocytes Na/K-ATPase
S. Balzan, G. Nicolin, F. Forini, L. Sabatino, G. Iervasi
1Cardiovascular Endocrinology, CNR Institute of Clinical Physiology, Pisa, Italy; 2Cardiovascular Endocrinology, CNR Institute of Clinical Physiology, Pisa, Italy

Repression of the human NIS upstream enhancer (hNUE) by PTTG and PBF
1Division of Medical Sciences, University of Birmingham, Birmingham, United Kingdom; 2Division of Reproductive and Child Health, University of Birmingham, Birmingham, United Kingdom; 3Endocrinology and Diabetes Division, University of California-Los Angeles School of Medicine, Los Angeles, CA, USA

MEK Signaling Modulates Sodium Iodide Symporter at Multiple Levels and in a Paradoxical Manner
D. D. Vadysirisack, A. Venkateswaran, Z. Zhang, S. M. Jhiang
1Integrated Biomedical Science Graduate Program, The Ohio State University, Columbus, OH, USA; 2Ohio State Biochemistry Program, The Ohio State University, Columbus, OH, USA; 3Department of Physiology and Cell Biology, The Ohio State University, Columbus, OH, USA

Placental Iodine as a possible Reserve in Inadequate Dietary Iodine Intake
R. A. Burns, M. Higgins, D. Smith, P. Kelehan, C. O’Herlihy, P. Smyth
1UCD Conway Institute, University College Dublin, Dublin 4, Ireland; 2National Maternity Hospital, Dublin 2, Ireland

Unusually Intense Breast Uptake of Radioiodine in a Non-Lactating Woman
M. I. Hu, S. G. Waguespack, N. J. Sarlis
Department of Endocrine Neoplasia and Hormonal Disorders, University of Texas M.D. Anderson Cancer Center, Houston, TX, USA

Monocarboxylate transporter 8 (MCT8) represses proliferation of fetal embryonal NT2 and placental JEG-3 cells in vitro
S. R. James, C. J. McCabe, B. J. Reaves, V. E. Smith, S. Y. Chan, T. G. Barrett, M. D. Kilby, J. A. Franklyn
1Division of Reproductive and Child Health, University of Birmingham, Birmingham, United Kingdom; 2Division of Medical Sciences, University of Birmingham, Birmingham, United Kingdom; 3Department of Biology and Biochemistry, University of Bath, Bath, United Kingdom
Program Number 22 Thyroid and Development Thursday Poster
Use of rainbow trout to study thyroid hormone receptor gene expression in very early stages of embryogenesis
J. F. Leatherland, J. C. Raine, M. Li
Department of Biomedical Sciences, University of Guelph, Guelph, ON, Canada

Program Number 23 Thyroid Cancer Thursday Poster Basic
MAPK and BRCA1 are activated by peroxisome proliferators-activated receptor gamma (PPARγ) agonists in anaplastic thyroid cancer cell lines
T. Uruno1, M. Wong1, E. Kebebew1, Q. Y. Duh2, O. H. Clark1
1Department of Surgery, Endocrine Surgery Laboratory, University of California San Francisco / Mt. Zion Medical Center, San Francisco, CA, USA; 2Surgical Service, University of California San Francisco / Veterans Affairs Medical Center, San Francisco, CA, USA

Program Number 24 Thyroid Cancer Thursday Poster Basic
Detection of circulating papillary thyroid carcinoma cells containing the BRAF V600E mutation
K. W. Cradic1, D. Milosevic1, J. L. Bates2, A. Rosenberg3, B. McIver2, S. K. G. Grebe1
1Laboratory Medicine and Pathology, Mayo Clinic, Rochester, MN, USA; 2Endocrinology, Mayo Clinic, Rochester, MN, USA

Program Number 25 Thyroid Cancer Thursday Poster Clinical
Outdated and Missing: A Review of the Quality of Thyroid Cancer Information on the Internet
M. Air1, S. Roman2, H. Yeo3, C. Maser2, T. Trapasso2, B. Kinder2, J. A. Sosa2
1Yale University School of Medicine, New Haven, CT, USA; 2Surgery, Yale University School of Medicine, New Haven, CT, USA

Program Number 26 Thyroid Cancer Thursday Poster Basic
Treatment with DNA Methylation Inhibitors Induce Differentiation but May Also Induce Expression of Genes Involved in Epithelial-Mesenchymal Transition
K. E. Jensen1, A. Patel1, M. Saji2, A. Bauer1, V. Vasko1
1Pediatrics, Uniformed Services University of the Health Sciences, Bethesda, MD, USA; 2Divisions of Endocrinology, Oncology, and Human Cancer Genetics, Ohio State University, Columbus, OH, USA

Program Number 27 Thyroid Cancer Thursday Poster
A clinical study of 191 cases of malignant lymphoma of the thyroid gland
N. Watanabe1, J. Y. Noh1, Y. Kunii1, K. Kameyama2, T. Shimizu1, K. Mukasa1, F. Otsuka1, A. Miyara1, K. Tsuboi3, G. Yoshino3, A. Kubo4, K. Ito5, K. Ito5
1Internal Medicine, Ito Hospital, Tokyo, Japan; 2Pathology, Keio University, Tokyo, Japan; 3Division of Endocrinology, Metabolism and Endocrinology, Toho University School of Medicine, Tokyo, Japan; 4Radiology, Keio University, Tokyo, Japan; 5Surgery, Ito Hospital, Tokyo, Japan

Program Number 28 Thyroid Cancer Thursday Poster Clinical
The role of postoperative radioiodine remnant ablation in the combined treatment of differentiated thyroid cancer (DTC)
J. Krajewska1, A. Czarniecka2, M. Jarzab3, J. Roskosz1, A. Kukulska1, D. Handkiewicz-Junak1, B. Jurecka-Lubieniecka1, E. Gubah1, B. Jarzab1
1Nuclear Medicine and Endocrine Oncology Department, M.Sklodowska-Curie Memorial Cancer Center and Institute of Oncology, Gliwice Branch, Gliwice, Poland; 2Oncologic Surgery Clinic, M.Sklodowska-Curie Memorial Cancer Center and Institute of Oncology, Gliwice Branch, Gliwice, Poland; 3Tumor Biology Department, M.Sklodowska-Curie Memorial Cancer Center and Institute of Oncology, Gliwice Branch, Gliwice, Poland

Program Number 29 Thyroid Cancer Thursday Poster Clinical
Long term outcome of 444 patients with distant metastases from papillary and follicular thyroid carcinoma: benefits and limits of radioiodine therapy
1Departement of Clinical Sciences, University of Rome “La Sapienza”, Rome, Italy; 2Inserm U605, Institut Gustave Roussy, Villejuif, France; 3Institut Gustave Roussy, Villejuif, France

Program Number 30 Thyroid Cancer Thursday Poster Basic
Microsatellite Instability in Thyroid Neoplasms
E. J. Mitmaker1, C. Alvarado2, L. R. Bégin3, M. Trifiro4
1Dept. of General Surgery, McGill University, Montreal, QC, Canada; 2Lady Davis Institute, Jewish General Hospital, Montreal, QC, Canada; 3Dept. of Pathology, Sacré-Coeur Hospital, Montreal, QC, Canada; 4Dept. of Endocrinology, McGill University, Montreal, QC, Canada
Evaluation of Selective Embolization of Thyroid Arteries (SETA) in treatment of selected thyroid tumors – own experience and perspectives
M. Dedecjus1, J. Tazbir2, Z. Kaurzel3, M. Naze1, G. Strozyk1, A. Lewinski4, J. Brzezinski1
1Department of Endocrine Surgery, Chair of Endocrinology and Metabolic Diseases, Medical University of Lodz, Polish Mother’s Memorial Hospital, Poland, Lodz, Poland; 2Department of Emergency Medicine, Medical University of Lodz, Copernicus Hospital, Lodz, Poland, Lodz, Poland; 3Copernicus Diagnostic Center, Copernicus Hospital, Lodz, Poland, Lodz, Poland; 4Department of Endocrinology and Metabolic Diseases, Chair of Endocrinology and Metabolic Diseases, Medical University of Lodz, Polish Mother’s Memorial Hospital, Poland, Lodz, Poland

Undetectable serum thyroglobulin (Tg) in the first year after total thyroidectomy and radioactive iodine remnant ablation (RRA) can be used to risk stratify patients with differentiated thyroid cancer
G. Omry1, R. J. Robbins1, M. Brokhin1, A. J. Martorella1, S. M. Larson2, R. M. Tuttle1
1Endocrinology Service, Memorial Sloan-Kettering Cancer Center, New York, NY, USA; 2Nuclear Medicine Service, Memorial Sloan-Kettering Cancer Center, New York, NY, USA

Role of the NFkB transcription factor in thyroid proliferation and malignancy
H. Mircescu
Research Center, University of Montreal Hospital Center, Montreal, QC, Canada

Percutaneous ethanol injection in cervical lymph node metastases in papillary thyroid carcinoma. Preliminary results
A. Heilo1, K. Holgersen, K. Grøholt, E. Sigstad, T. Bjoro, L.H. Jørgensen
The Norwegian Radium Hospital, Rikshospitalet Oslo, Norway

Insulin-resistance (IR) would be an important risk factor for the development of differentiated thyroid carcinoma (DTC)
J. Rezzonico1, M. Rezzonico1, E. Pusiol1, F. Pitoia2, H. Niepomnischce2
1CPE, Centro Privado de Endocrinología, Mendoza, Argentina; 2Division of Endocrinology, Hospital de Clinicas-University of Buenos Aires, Buenos Aires, Argentina

Mediastinal uptake of radioactive iodine in well differentiated thyroid carcinoma: metastasis or thymic uptake?
A. Granger-Vallée, A. Boucher, L. G. Ste-Marie, R. Chartrand
Université de Montréal, CHUM, Montréal, QC, Canada

Impact of Lymphocytic Thyroiditis in the Treatment Outcome of Differentiated Thyroid Carcinoma
D. G. P. Villagelin, R. B. Santos, F. R. Chaves, J. H. Romaldini
Endocrinology Service, Pontificia Universidade Católica Campinas, Campinas, SP, Brazil

A Comparison of Cervical UTZ and CT/MRI in the Detection of Recurrent Nodal Disease in Thyroglobulin Ab+ Patients with Papillary Thyroid Cancer (PTC)
S. Fatemi1, C. Spencer2, P. Singer2, J. LoPresti2
1Endocrinology, Southern California Permanente Medical Group, Panorama City, CA, USA; 2Keck School of Medicine, University of Southern California, Los Angeles, CA, USA

Hyperparathyroidism and Thyroid Cancer
I. B. Rosen
Surgery, Mount Sinai Hospital, University of Toronto, Toronto, ON, Canada

Increasing Incidence of Thyroid Cancer in São Paulo State, Brazil, 1981-2005
1Department of Internal Medicine, School of Medicine of Ribeirao Preto - University of Sao Paulo, Ribeirao Preto, Brazil; 2Department of Pathology, School of Medicine of Ribeirao Preto - University of Sao Paulo, Ribeirao Preto, Brazil; 3Department of Radiology, School of Medicine of Ribeirao Preto, Ribeirao Preto, Brazil; 4Department of Surgery, School of Medicine of Ribeirao Preto, Ribeirao Preto, Brazil
Program Number 41 Thyroid Cancer Thursday Poster Clinical
Thyroid FNA Diagnosis with Histological Correlation: an Institutional Perspective
A. Vijayvargiya¹, R. Udelsman², I. T. Ocal³
¹Department of Pathology, Yale University, Yale New Haven Hospital, New Haven, CT, USA; ²Department of Surgery, Yale University, Yale New Haven Hospital, New Haven, CT, USA

Program Number 42 Thyroid Cancer Thursday Poster Clinical
Skin metastasis as the only de novo clinical presentation of widely metastatic sporadic medullary thyroid carcinoma (MTC)
L. Santarpia¹, A. El-Naggar², S. R. Hymes³, S. I. Sherman¹, G. G. Sayegh¹, N. J. Sarlis¹
¹Department of Endocrine Neoplasia and Hormonal Disorders, University of Texas M.D. Anderson Cancer Center, Houston, TX, USA; ²Division of Pathology and Laboratory Medicine, University of Texas M.D. Anderson Cancer Center, Houston, TX, USA; ³Department of Dermatology, University of Texas M.D. Anderson Cancer Center, Houston, Texas, Houston, TX, USA

Program Number 43 Thyroid Cancer Thursday Poster Basic
Characterization of papillary thyroid cancer using array comparative genomic hybridization
K. Puttaswamy¹, M. Samanta¹, K. Gold², A. Iqbal³, M. S. Brose²
¹Department of Otorhinolaryngology, University of Pennsylvania, Philadelphia, PA, USA; ²Abramson Cancer Center, Departments of Otorhinolaryngology and Medicine, University of Pennsylvania, Philadelphia, PA, USA

Program Number 44 Thyroid Cancer Thursday Poster Clinical
Papillary Thyroid Cancer with Bilateral Cervical Metastases—a Twenty Years Experience
Q. H. Ji¹, L. Zhang², Y. X. Zhu²
¹Head and Neck Surgery Department, Fudan University Cancer Hospital, Shanghai, China; ²Head and Neck Surgery Department, Fudan University Cancer Hospital, Shanghai, China

Program Number 45 Thyroid Cancer Thursday Poster Basic
Establishment of follicular carcinoma cell line from bone metastatic lesion in a pregnant patient
H. Kimura¹, K. Yamazaki², E. Yamada², K. Takano³, K. Sato¹
¹Department of Medicine, Institute of Clinical Endocrinology, Tokyo Women’s Medical University, Tokyo, Japan; ²Thyroid Disease Institute, Kanaji Hospital, Tokyo, Japan

Program Number 46 Thyroid Cancer Thursday Poster Clinical
Secondary Carcinoma of the Thyroids
P. Wang
Department of Radiation Oncology, Tianjin Medical University Cancer Hospital and Institute, Tianjin, China

Program Number 47 Thyroid Cancer Thursday Poster Clinical
Tumor-to-tumor metastasis from papillary thyroid carcinoma to bronchioloalveolar carcinoma: a case report
N. Lowy¹, R. Block-Posner², V. Peck³
¹Department of Endocrinology, New York University School of Medicine, New York, NY, USA; ²Department of Endocrinology, Evanston Northwestern Hospital, Evanston, IL, USA

Program Number 48 Thyroid Cancer Thursday Poster Clinical
Papillary Thyroid Microcarcinoma With Metastatic Spread to Bone
G. G. Fareau, N. Busaidy
Endocrine Neoplasia & Hormonal Disorders, University of Texas MD Anderson Cancer Center, Houston, TX, USA

Program Number 49 Thyroid Cancer Thursday Poster Clinical
Metastatic follicular cancer of the thyroid heralded by the presence of normal appearing thyroid tissue in a skin tag
L. Mutter¹, P. S. Arora²
¹Department of Medicine, University of Minnesota, Minneapolis, MN, USA; ²Division of Endocrinology, University of Minnesota, Saint Paul, MN, USA

Program Number 50 Thyroid Cancer Thursday Poster Basic
Differentiation of Malignant from Benign Thyroid Lesions by Measuring Plasma DNA Levels
A. F. Chen, E. A. Pribitkin, W. M. Keane, J. Rothstein
Department of Otolaryngology - Head and Neck Surgery, Thomas Jefferson University Hospital, Philadelphia, PA, USA
Program Number 51 Thyroid Diseases Thursday Poster Clinical
Sunitinib (Sutent®), a multitargeted angiogenesis inhibitor, can induce hypothyroidism in advanced cancer patients
E. Wong1, L. S. Rosen2, M. Mulay2, A. VanVugt2, M. Dinolfo2, J. M. Hershman1
1Division of Endocrinology, Veterans Administration of Greater Los Angeles, Los Angeles, CA, USA; 2Premiere Oncology, Los Angeles, CA, USA

Program Number 52 Thyroid Diseases Thursday Poster Clinical
J. G. Hollowell
Pediatrics, University of Kansas Medical Center, Lawrence, KS, USA

Program Number 53 Thyroid Diseases Thursday Poster Clinical
Mild Thyroid Dysfunction Does Not Affect Short Term Surgical Outcomes after Coronary Artery Bypass Grafting
M. Skugor1, M. Fleseriu1, P. Seshabhattar2, P. Raily1
1Endocrinology Diabetes and Metabolism, Cleveland Clinic, Cleveland, OH, USA; 2Internal Medicine, Metro Medical Center, Cleveland, OH, USA

Program Number 54 Thyroid Diseases Thursday Poster Clinical
Valuable Features for Predicting the Remission of Graves Hyperthyroidism after Antithyroid Drug Treatment
X. J. Liu, B. Y. Shi, H. Li
Department of Endocrinology, The First Affiliated Hospital of Medical College of Xi’an Jiaotong University, Xi’an, China

Program Number 55 Thyroid Diseases Thursday Poster Clinical
Screening for thyroid dysfunction in early pregnancy applying newborn screening system using dried blood spot
N. Momotani1, K. Sakurai1, J. Harase2, K. Suzuki2, S. Iwama1, K. Momotani1, S. Sugihara4
1Department of Endocrinology, Tokyo Health Service Association, Tokyo, Japan; 2Department of Screening for Children, Tokyo Health Service Association, Tokyo, Japan; 3Department of Molecular Physiology & Biological Physics, University of Virginia, Charlottesville, VA, USA; 4Department of Pediatrics, Tokyo Women’s Medical University Medical Center East, Tokyo, Japan

Program Number 56 Thyroid Diseases Thursday Poster Clinical
Hypothyroidism and Atherosclerosis — Decrease of L-selectin expression in hypothyroidism may be one of cases of atherosclerosis
Y. Tsuchida1, E. Murakami2, N. Hiroi3, M. Shimojo3, H. Ueshiba3, M. Higa1, G. Yoshino3
1Internal Medicine, Saiseikai Kanagawaken Hospital, Yokohama city, Japan; 3Division of Diabetes, Metabolism and Endocrinology, Toho University School of Medicine, Tokyo, Japan

Program Number 57 Thyroid Diseases Thursday Poster Clinical
A Pharmacokinetic Model for Once Per Week Dosing of Combined T4 and Polymeric T3 for Treatment of Primary Hypothyroidism
K. R. Latham1, K. D. Burman2, J. Jonklaas3
1Innovative Technologies, Bristol, VA, USA; 2Division of Endocrinology, Washington Hospital Center, Washington, DC, USA; 3Division of Endocrinology, Georgetown University, Washington, DC, USA

Program Number 58 Thyroid Diseases Thursday Poster Clinical
Pseudo-TSHoma due to simultaneous Hashimoto’s thyroiditis and abnormal T4 binding protein
R. S. Mitchell1, C. Prosser2, E. Rafi3, J. Ginsberg1
1Department of Medicine, Division of Endocrinology and Metabolism, University of Alberta, Edmonton, AB, Canada; 2Department of Laboratory Medicine and Pathology, University of Alberta, Edmonton, AB, Canada; 3Department of Medicine, Royal Alexandra Hospital, Edmonton, AB, Canada

Program Number 59 Thyroid Diseases Thursday Poster Basic
Mutation of Thyroid Hormone Receptor α Gene Causing Resistance to Thyroid Hormone-A Chinese Kindred Report
J-F Liu, B-Y Shi, J. L. Liu
Department of Endocrinology, First Hospital Affiliated to Medical College of Xi’an Jiaotong University, Xi’an, China

Program Number 60 Thyroid Diseases Thursday Poster Clinical
Secondary Polycythemia due to Graves Hyperthyroidism: A Case Report
B. Y. Shi, J. F. Liu, X. J. Liu, Y. Wang
Department of Endocrinology, The First Affiliated Hospital of Medical College of Xi’an Jiaotong University, Xi’an, China
Program Number 61 Thyroid Diseases Thursday Poster Clinical

Assessment of the efficacy of 131I treatment of hyperthyroidism
C. Gagnon1, J. M. Beauregard2, J. Verreault2, J. P. Baillageon1, D. Belabarba1, M. F. Langlois1
1Endocrine Division, Faculté de Médecine et Centre Hospitalier Universitaire de Sherbrooke, Sherbrooke, QC, Canada; 2Department of Radiobiology and Nuclear Medicine, Faculté de Médecine et Centre Hospitalier Universitaire de Sherbrooke, Sherbrooke, QC, Canada

Program Number 62 Thyroid Diseases Thursday Poster Clinical

Clinical Ethics Dilemmas in Thyroid Disease: Consent, Capacity and Competency
M. S. Rosenthal
Program for Bioethics and Patients’ Rights, University of Kentucky College of Medicine, Lexington, KY, USA

Program Number 63 Thyroid Diseases Thursday Poster Clinical

Availability of thyroid autoantibody levels in Graves’ disease patients referred for ophthalmic care
S. A. Lauer1, R. Z. Silkiss2, A. Hornblass3
1Department of Ophthalmology, Montefiore Medical Center/New York Eye and Ear Infirmary, New York, NY, USA; 2Department of Ophthalmology, University of California, San Francisco, Oakland, CA, USA; 3Department of Ophthalmology, Manhattan Eye, Ear and Throat Hospital, New York, NY, USA

Program Number 64 Thyroid Diseases Thursday Poster Clinical

A Case of Cervical Bronchogenic Cyst Presenting as a Thyroid Tumor
Y. W. Koh1, S. Y. Lee2, S. W. Lee1, H. S. Hong3, H. K. Kim4
1Department of Otolaryngology-Head & Neck surgery, Soonchunhyang University, College of Medicine, Bucheon-si, South Korea; 2Department of Otolaryngology-Head & Neck surgery, Chung-Ang University, College of Medicine, Seoul, South Korea; 3Department of Radiology, Soonchunhyang University, College of Medicine, Bucheon-si, South Korea; 4Department of Pathology, Soonchunhyang University, College of Medicine, Bucheon-si, South Korea

Program Number 65 Thyroid Diseases Thursday Poster Clinical

A Case of Amiodarone Induced Thyrotoxicosis
A. V. Kurtev, A. Y. Kostova
Clinic of Pediatric Endocrinology, University Pediatric Hospital, Sofia, Bulgaria

Program Number 66 Thyroid Hormone Action Thursday Poster Basic

A TR β selective agonist confers resistance against diet-induced obesity
B. S. Amorim1, L. E. Toriani1, F. R. Freitas2, C. H. Gouveia3, A. Bianco4, M. O. Ribeiro1
1Departamento de Biociências, Universidade Presbiteriana Mackenzie, Sao Paulo, Brazil; 2Departamento de Anatomia - ICB, Universidade de São Paulo, São Paulo, Brazil; 3Department of Anatomy, Institute of Biomedical Sciences, University of Sao Paulo, São Paulo, Brazil; 4Thyroid Section, Division of Endocrinology, Diabetes and Hypertension, Brigham and Women’s Hospital - Harvard Medical School, Boston, MA, USA

Program Number 67 Thyroid Hormone Action Thursday Poster Basic

Thyroid Hormone Inhibits ERK Phosphorylation in Pressure Overload-Induced Hypertrophied Mouse Hearts
J. Suarez, W. H. Dillmann
Endocrinology and Metabolism, University of California, San Diego, La Jolla, CA, USA

Program Number 68 Thyroid Hormone Action Thursday Poster Clinical

Normal thyroid function and concentrations of serum lipids in a population study
B. O. Åsvold1, L. J. Vatten1, T. I. Nilsen1, T. Bjørn2
1Department of Public Health, Norwegian University of Science and Technology, Trondheim, Norway; 2Department of Medical Biochemistry, Rikshospitalet-Radiumhospitalet Medical Center, Oslo, Norway

Program Number 69 Thyroid Hormone Action Thursday Poster Basic

Enhanced Proliferation of Human Adenosquamous and Small Cell Lung Carcinoma Cells Directed from the Cell Surface by Thyroid Hormone
1Signal Transduction Laboratory, Ordway Research Institute, Albany, NY, USA; 2Signal Transduction Laboratory, Stratton VA Medical Center, Albany, NY, USA; 3Brain Tumor Institute, Cleveland Clinic Foundation, Cleveland, OH, USA; 4Pharmaceutical Research Institute at Albany College of Pharmacy, Albany, NY, USA
Program Number 70  Thyroid Hormone Action  Thursday  Poster  Basic
Transgenic Homozygous Mice harboring a Mutated Human TRbeta1 cDNA Maintain, Lose or Acquire Sexual Dimorphism in Locomotor Activities (LMA)
S. Benveniga1, E. Itri2, M. A. Pappalardo3, L. DeTolla2, S. F. Yu4, P. Hauser5, F. Trimarchi5, A. Amato5
1Dipartimento Clinico Sperimentale di Medicina e Farmacologia & Progr. di Endocrinologia Molecolare Clinica, Sezione di Endocrinologia, Messina, Italy; 2University of Maryland, Comparative Medicine (Veterinary Resources), Baltimore, MD, USA; 3Dip. Clinico Sperimentale di Medicina e Farmacologia, Università di Messina, Sezione di Endocrinologia, Messina, Italy; 4Portland Veterans Affairs Medical Center, Department of Psychiatry at Oregon Health and Science University, Portland, OR, USA; 5Research Dept., Sigma-Tau, Inc., Gaithersburg, MD, USA

Program Number 71  Thyroid Hormone Action  Thursday  Poster  Clinical
Lipoprotein alterations, insulin sensitivity and hepatic lipase activity in subclinical hypothyroidism. Response to treatment with L-T4
G. Brenta1, G. Berg2, P. Arias1, V. Zago2, M. Schnitman1, M. L. Muzzio2, I. Sinay1, L. Schreier2
1Division of Endocrinology and Metabolism, French Hospital of Buenos Aires, Buenos Aires, Argentina; 2Laboratory of Lipids and Lipoproteins, Department of Clinical Biochemistry, School of Pharmacy and Biochemistry, University of Buenos Aires, Buenos Aires, Argentina

Program Number 72  Thyroid Hormone Action  Thursday  Poster  Basic
Effect of thyroid hormone on TalphaT1 thyrotropic cells
Medicine, Endocrinology, University of Colorado at Denver and Health Sciences Center, Aurora, CO, USA

Program Number 73  Thyroid Hormone Metabolism and Regulation  Thursday  Poster  Basic
Suppression of iodide uptake and thyroid hormone synthesis with stimulation of type I interferon system by double-stranded RNA (dsRNA) in cultured human thyroid follicles
K. Yamazaki1, K. Suzuki2, E. Yamada1, T. Yamada1, F. Takeshita3, T. Seya4, T. Obara5, K. Takano5, K. Sato5
1Thyroid Disease Institute, Kanaji Hospital, Tokyo, Japan; 2Department of Bioregulation, National institute of Infectious Diseases, Tokyo, Japan; 3Department of Molecular Biodefence Research, Yokohama City University Graduate School of Medicine, Yokohama, Japan; 4Department of Microbiology and Immunology, Hokkkaido University Graduate School of Medicine, Sapporo, Japan; 5Institute of Clinical Endocrinology, Tokyo Women’s Medical University, Tokyo, Japan

Program Number 74  Thyroid Hormone Metabolism and Regulation  Thursday  Poster  Basic
The functions of Pit1 for the GATA2-dependent transactivation in the thyrotropin β promoter
Second Division of Internal Medicine, Hamamatsu University School of Medicine, Hamamatsu, Japan

Program Number 75  Thyroid Hormone Metabolism and Regulation  Thursday  Poster  Basic
Iopanoic Acid Inhibits Epidermal Proliferation by Interfering with T4 to T3 Conversion
J. D. Safer, K. Persons, M. F. Holick
Endocrinology Section, Boston University School of Medicine, Boston, MA, USA

Program Number 76  Thyroid Hormone Metabolism and Regulation  Thursday  Poster  Basic
Thyroid hormone may influence lipid metabolism through transcriptional regulation of the LXRα gene
Molecular and Cellular Biology, Baylor College of Medicine, Houston, TX, USA

Program Number 77  Thyroid Hormone Metabolism and Regulation  Thursday  Poster  Basic
Thyroid Hormone Receptor Alpha1, Alpha2 and Beta1 Gene Expression in the Human Heart
L. Sabatino1, E. Gliozheni5, M. Nannipieri5, F. Forini1, G. Popoff2, F. De Luca2, F. Bigazzi1, G. Iervasi1
1Institute of Clinical Physiology, CNR, Pisa, Italy; 2Hemodynamic Unit, Casa di Cura Villa Maria Beatrice Hospital, Firenze, Italy; 3Internal Medicine Department, University of Pisa, Pisa, Italy
Program Number 78  Thyroid Hormone Metabolism and Regulation  Thursday  Poster  Basic
Study of a Possible Association between Serum Levels of T4, T3 or TSH and the SNP S33P of the Monocarboxilate Transporter 8 (MCT8)
L. Domínguez-Gerpe1, M. J. Iglesias-Fungueiro2, O. Viéitez-Rodríguez2, C. Areal-Méndez3, A. Eiras-Martínez3, E. San-José4, J. Lado-Abeal2
1Thyroid and Metabolic Diseases Unit, Department of Medicine, University of Santiago de Compostela, Santiago de Compostela, Spain; 2Thyroid and Metabolic Diseases Unit, Department of Medicine, University of Santiago de Compostela, Santiago de Compostela, Spain; 3CTG, Centro de Transfusión de Galicia, Santiago de Compostela, Spain; 4Central Laboratory, CHUS, Santiago de Compostela, Spain

Program Number 79  Thyroid Hormone Metabolism and Regulation  Thursday  Poster  Basic
Mathematical Modeling of the Hypothalamic-Pituitary-Thyroid Axis
M. C. Eisenberg1, M. H. Samuels2, J. J. DiStefano3
1Biocybernetics Laboratory, UCLA, Los Angeles, CA, USA; 2Division of Endocrinology, Oregon Health & Science University, Portland, OR, USA; 3Biocybernetics Laboratory, Departments of Computer Science, Medicine & Biomedical Engineering, UCLA, Los Angeles, CA, USA

Program Number 80  Thyroid Imaging  Thursday  Poster  Clinical
Clinical Evaluation of Real-Time Tissue Elastography (RTE) for the Differential Diagnosis of Thyroid Follicular Lesions
N. Fukunari, K. Arai, A. Nakamura, T. Yamazaki
Department of Surgery, Showa University, School of Medicine, Northern Yokohama Hospital, Yokohama, Kanagawa, Japan

Program Number 81  Thyroid Imaging  Thursday  Poster  Clinical
Thyroid carcinoma in Fluorodeoxyglucose whole body positron emission tomography (PET) positive thyroid “incidentalomas”
D. King1, B. Stack1, D. Bodenner2
1Otolaryngology, University of Arkansas for Medical Sciences, Little Rock, AR, USA; 2Geriatrics and Otolaryngology, Arkansas Cancer Research Center, Thyroid Clinic, University of Arkansas for Medical Sciences and Central Arkansas VA Medical Center, Little Rock, AR, USA

Program Number 82  Thyroid Imaging  Thursday  Poster  Clinical
Feasibility of Simultaneous Display of Thyroid Function and Structure Images: Assemblage of Scintiscanning and Ultrasonography
M. Blum1, M. Leone5, M. E. Noz3, J. Yee3
1Medicine (Endocrinology) and Radiology (Nuclear Medicine), New York University Medical Center, New York, NY, USA; 2Endocrinology, New York University Medical Center, New York, NY, USA; 3Radiology, New York University Medical Center, New York, NY, USA

Program Number 83  Thyroid Nodules and Goiter  Thursday  Poster  Clinical
In the evaluation of a patient with a thyroid nodule, younger age and male sex independently increase the risk of thyroid cancer
L. Yassa1, E. Marqusee1, C. B. Benson2, M. C. Frates2, P. M. Doubile2, E. S. Cibas3, V. Nosé3, B. W. Kim1, A. A. Gawande4, F. D. Moore4, P. R. Larsen1, E. K. Alexander1
1Thyroid Unit, Division of Endocrinology, Hypertension, and Diabetes, Brigham and Women’s Hospital ; 2Dept. of Radiology, Brigham and Women’s Hospital ; 3Dept. of Pathology, Brigham and Women’s Hospital ; 4Dept. of Surgery, Brigham and Women’s Hospital / Harvard Medical School, Boston, MA, USA

Program Number 84  Thyroid Nodules and Goiter  Thursday  Poster  Clinical
The Presence of Cytologic Atypia in Benign and Malignant Thyroid Fine Needle Aspirates
R. Redman, B. J. Yoder, N. A. Massoll
Department of Pathology, University of Florida, Gainesville, FL, USA

Program Number 85  Thyroid Nodules and Goiter  Thursday  Poster  Clinical
Endemic goiter in Japan
S. Fukata1, A. Hishinuma2, H. Ohye1, C. Tomoda3, T. Ieiri2, T. Uruno3, A. Miyachi3, K. Kuma3, N. Amino4
1Internal medicine, Kuma hospital, Kobe, Japan; 2Department of Clinical Laboratory Medicine, Dokkyo University School of Medicine, Tochigi, Japan; 3Department of Surgery, Kuma Hospital, Kobe, Japan; 4Department of Internal Medicine, Kuma Hospital, Kobe, Japan
Program Number 86 Thyroid Nodules and Goiter Thursday Poster Clinical

High precision echo-guided fine needle aspiration (FNA): a new “one shot” method
P. De Remigis, P. Ranieri, A. De Remigis, L. Vianale
Endocrine Unit, General Hospital, Chieti, Italy

10:30 am – Noon Akimel O’otham 3, 4
Thyroid Hormone Receptor: 20 years of Discovery Dedicated to the memory of Jack H. Oppenheimer
Moderator: Herbert H. Samuels

Ronald M. Evans, Ph.D.
Professor / Investigator
The Salk Institute
La Jolla, California

Björn Vennström
Professor
Karolinska Institute
Stockholm, Sweden

Noon – 1:15 pm Pipai Kave
Poster Session and Lunch Akimel O’otham Foyer

Noon – 1:15 pm Akimel O’otham #1
Fellows “Meet the Editors” Lunch

1:15
Thyroid Editorial Board Luncheon

1:15 – 2:15 pm Check Ticket for Room Assignment
Thursday Meet the Professors Workshops (Concurrent)

Histopathology of aggressive thyroid cancer Virginia LiVolsi
Use and interpretation of PET scanning Sophie Leboulleux
Use of Lithium in treatment of Thyroid cancer Jacqueline Jonklaas
Indeterminate FNA cytology Nicole Massoll
Review of ATA Guidelines for thyroid nodules and cancer David Cooper
BRAF Mutation in Thyroid Cancer: Clinical Implications Mingzhao Xing
Apical iodide efflux via pendrin Peter Kopp
A role for TRalpha 2 in thyroid hormone action Ronald J. Koenig

2:15 – 3:45 pm Simultaneous Sessions - Oral Abstracts

Akimel O’otham 3, 4
CLINICAL
Thyroid Disease and Pregnancy
Chairs: Erik Alexander and Kathryn Schuff

Antithyroid drug therapy for Graves’ disease during pregnancy: mildest thyrotoxic maternal free thyroxine concentrations to avoid fetal hypothyroidism
N. Momotani1, S. Iwama1, J. Y. Noh2, N. Ishikawa3, K. Momotani4, K. Ito5, K. Ito6
1Department of Endocrinology, Tokyo Health Service Association, Tokyo, Japan; 2Internal Medicine, Ito Hospital, Tokyo, Japan; 3Internal Medicine, Ishikawa Clinic, Chiba, Japan; 4Department of Molecular Physiology & Biological Physics, University of Virginia, Charlottesville, VA, USA; 5Ito Hospital, Tokyo, Japan; 6Surgery, Ito Hospital, Tokyo, Japan

Do Trends in the Distribution of Neonatal TSH Reflect Alterations in Maternal Dietary Iodine Intake in Pregnancy?
R. A. Burns1, P. Mayne2, D. Smith3, M. Higgins3, A. Staines4, C. O’Herlihy5, P. Smyth1
1UCD Conway Institute, University College Dublin, Dublin 4, Ireland; 2Dept Pathology, Children’s University Hospital, Dublin 1, Ireland; 3National Maternity Hospital, Dublin 2, Ireland; 4School of Medicine and Medical Science, University College Dublin, Dublin 4, Ireland

Evaluation of low TSH in early gestation
M. Kaklamanou, A. B. Parkes, I. L. Taylor, J. H. Lazarus
Centre for Endocrine & Diabetes Sciences, Cardiff University School of Medicine, Cardiff, United Kingdom

Program Number 87 Thyroid Diseases Thursday Oral Clinical 2:15 pm

Program Number 88 Thyroid Diseases Thursday Oral Clinical 2:30 pm

Program Number 89 Thyroid Diseases Thursday Oral Clinical 2:45 pm
**Program Number 90** Thyroid Cancer Thursday Oral Clinical 3:00 pm

*Pregnancy is often associated with minor serum Tg elevations without structural evidence of new metastatic lesions in patients previously treated for differentiated thyroid cancer*

R. Leboeuf, L. Emerick, A. J. Martorella, R. M. Tuttle
Endocrinology Service, Memorial Sloan-Kettering Cancer Center, New York, NY, USA

**Program Number 91** Iodine Uptake and Metabolism Thursday Oral Clinical 3:15 pm

*Effects of Perchlorate Exposure and Smoking on Breast Milk Iodine in Lactating Boston-Area Women*

E. N. Pearce1, A. Leung1, B. C. Blount2, H. R. Bazrafshan3, X. He1, S. Pino1, L. Valentin-Blasini1, L. E. Braverman1
1Section of Endocrinology, Diabetes, and Nutrition, Boston University Medical Center, Boston, MA, USA; 2Division of Laboratory Sciences, National Center for Environmental Health, Centers for Disease Control and Prevention, Atlanta, GA, USA; 3Gorgan Medical Faculty, Golestan University of Medical Sciences, Gorgan, Iran

**Program Number 92** Autoimmunity Thursday Oral Clinical 3:30 pm

*Thyroid disease and pregnancy: Degrees of Knowledge*

M. D. Rinaldi1, A. Stagnaro-Green2
1New Jersey Medical School, Newark, NJ, USA; 2Medicine-Division of Endocrinology, UMDNJ-New Jersey Medical School, Newark, NJ, USA

**Program Number 93** Thyroid Cancer Thursday Oral Basic 2:15 pm

*P53 Mutations Stimulate Galectin-3 Expression and Increase Proliferation of Anaplastic Thyroid Carcinoma Cell Lines*

L. Lavra1, A. Ulivieri2, R. Dominici3, M. Trovato4, E. Brunetti5, F. Frasca6, S. Soddu7, A. Bartolazzi8, S. Sciaccitano9
1Centro Ricerca, Ospedale S Pietro FBF, Università di Roma, Rome, Italy; 2Centro Ricerca, Ospedale S Pietro Fatebenefratelli, AFA, Rome, Italy; 3Ist. di Neurobiologia e Medicina Molecolare, CNR, Rome, Italy; 4Dip. di Patologia Umana, Policlinico Universitario, Messina, Italy; 5Centro Ricerca Osp. S Pietro Fatebenefratelli, AFA, Rome, Italy; 6Dip. Medicina Interna e Medicina Specialistica – Endocrinologia, Univ. di Catania, Catania, Italy; 7Centro Ricerca Oncologico, Istituto Regina Elena, Rome, Italy; 8Dip. Patologia, Ospedale S. Andrea, Università di Roma “La Sapienza”, Rome, Italy; 9Dip. di Medicina Sperimentale e Patologia, 2° Facoltà di Medicina e Chirurgia, Università “La Sapienza”, Rome, Italy

**Program Number 94** Thyroid Cancer Thursday Oral Basic 2:30 pm

*Estrogen promotes the growth of thyroid cancer cells via estrogen receptor alpha, activation of ERK and enhancement of Bcl-2*

G. G. Chen, Q. Zeng, A. C. Vlantis, A. C. Van Hasselt
Surgery, The Chinese University of Hong Kong, Hong Kong, Hong Kong

**Program Number 95** Thyroid Cancer Thursday Oral Basic 2:45 pm

*Acquired Resistance to a Rexinoid and TZD in the Anaplastic Thyroid Cancer Cell Line DRO Occurs in Part through Decreased PPARγ Expression*

J. P. Klopper, A. J. Berenz, B. R. Haugen
Department of Medicine, University of Colorado Cancer Center, Division of Endocrinology, Metabolism and Diabetes, University of Colorado at Denver and Health Sciences Center, Aurora, CO, USA

**Program Number 96** Cell Biology Thursday Oral Basic 3:00 pm

*Molecular mechanisms of genotoxic stress-induced MHC class I-related chain A and B expression in thyroid tumor cell lines*

X. Xu, G. Rao, C. Solorzano, R. A. Prinz
Department of General Surgery, Rush University Medical Center, Chicago, IL, USA

**Program Number 97** Thyroid Cancer Thursday Oral Basic 3:15 pm

*Targeting p55PIK of PI 3-kinase regulatory subunit inhibits the proliferation of human thyroid cancer cells*

X. Xia1, A. Cheng2, T. Fojo3, P. Yen4
1Division of Endocrinology, Johns Hopkins Bayview Medical Center, Baltimore, MD, USA; 2Laboratory of Neuroscience, GRC, NIA, Baltimore, MD, USA; 3Office of Medical Branch, DCS, NCI, NIH, Bethesda, MD, USA; 4Division of Endocrinology, Johns Hopkins Bayview Medical Center, Baltimore, MD, USA

**Program Number 98** Thyroid Cancer Thursday Oral Basic 3:30 pm

*Growth inhibitory effect of let-7 microRNA in papillary thyroid cancer cells*

J. C. Ricarte-Filho, M. J. Da Silva, E. T. Kimura
Department of Cell and Developmental Biology, University of Sao Paulo, Sao Paulo, Brazil
3:45 – 4:15 pm       Pipai Kave
Poster Session and Break       Akimel O’otham Foyer

4:30 pm       Pipai Kave
Exhibit Hall Close

4:15 – 5:00 pm       Akimel O’otham 3, 4
Clark T. Sawin Historical Vignette
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 group for many years; as the presenter of the history vignette at ATA annual meetings from 1993 - 2003; and as president of the ATA 2003-2004.

“Uncharted Seas: The Life of Fuller Albright”

D. Lynn Loriaux, MD, PhD, FACP
Professor of Medicine
Chairman, Department of Medicine
Oregon Health Sciences University
Portland, Oregon

5:00 – 6:00 pm       Akimel O’otham 1, 2
ATA Members Business Meeting

6:30 – 10:00 pm       Buses leave from Kave Foyer - Conference Center Entrance
Social event – Barbeque under the Stars (ticket required)
Friday, October 13, 2006

6:00 am – 6:00 pm Ant
ATA Fellows Track Room (See Fellows schedule posted daily)

6:00 am Akimel O’otham 1, 2
Breakfast

6:30 – 7:45 am Akimel O’otham 1, 2
CME symposium
New Insights: Treatment Decisions for milder thyroid disease
Moderator: Susan J. Mendel
Subclinical Thyroid disease and Cognitive Function
Mary Samuels
Subclinical Thyroid Disease and Pregnancy: Evidence-based recommendations
Leslie DeGroot
for the new guidelines
Is subclinical thyroid disease a cardiovascular risk factor?
Paul Ladenson

8:00 – 8:45 am Akimel O’otham 3, 4
Supported by an educational grant from Quest Diagnostics, Inc.
The Van Meter Award Lecture
Established in 1930, 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.

8:45 – 10:00 am Simultaneous symposia
Akimel O’otham 3, 4
Thyroid Disease: Bench to Bedside
Moderator: Peter A. Singer
TSH Regulation
E. Chester Ridgway
Thyroid Ophthalmopathy
Rebecca Bahn
Thyroid Function Impact on Bone
Mone Zaidi

Akimel O’otham 1, 2
Thyroid and the heart
Moderator: Donald St. Germain
Basic insights into thyroid hormone action in the heart
Wolfgang Dillmann
Thyroid hormone and cardiac myocyte hypertrophy
Carlin S. Long
Thyroid hormone and heart disease
Irwin Klein

9:00 am Pipai Kave
Exhibit Hall Open
ATA website and members-only demonstration
All ATA meeting attendees: Check your email

10:00 – 10:30 am Pipai Kave
Poster Session and Break
Akimel O’otham Foyer

Program Number 99 Autoimmunity Friday Poster Basic
Expression of NF-kappaB in Hashimoto’s thyroiditis and its correlation with vimentin expression
D. Wang, Z. Wang, J. Wang, W. Wang, W. Zhang, Y. Li, L. Wang, G. Huang
Department of Pathology, Fourth Military Medical University, Xi’an, China

Program Number 100 Autoimmunity Friday Poster Basic
Association of PTPN22 haplotypes with Graves’ disease
J. M. Heward1, O. J. Brand1, J. Barrett2, J. Carr-Smith1, J. A. Franklyn1, S. C. L. Gough1
1Division of Medical Sciences, University of Birmingham, Birmingham, United Kingdom; 2University of Oxford, Oxford, United Kingdom

Program Number 101 WITHDRAWN

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<td>Enhancement of the regulatory T cell proliferation by TRAIL</td>
<td>S. H. Wang, G. H. Chen, M. Van Antwerp, J. R. Baker Jr.</td>
<td>Department of Internal Medicine, University of Michigan, Ann Arbor, MI, USA</td>
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<td>103</td>
<td>Single nucleotide polymorphisms of immunoregulatory genes in thyroid and polyglandular autoimmunity</td>
<td>G. Kahaly</td>
<td>Endocrine Research Laboratory, Department of Medicine, Gutenberg University Hospital, Mainz, Germany</td>
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<td>104</td>
<td>Role of eye muscle antibody testing in the diagnosis of acute orbital myositis</td>
<td>B. Gopinath¹, J. Tani¹, N. Beard², R. M. Gan¹, J. Wall¹</td>
<td>Department of Medicine, University of Sydney, Penrith, Australia; ²Division of Molecular Bioscience, Australian National University, Canberra, Australia</td>
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<td>105</td>
<td>Characterization of the Human Thyrotropin Receptor Promoter in Transfected Rat Thyroid FRT cells</td>
<td>K. K. Bhattacharyya, N. L. Eberhardt, R. S. Bahn</td>
<td>Division of Endocrinology, Mayo Clinic, Rochester, MN, USA</td>
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<td>106</td>
<td>Iodine-induced thyroiditis in nonobese diabetic mice lacking Fcy receptor III and Fc receptor γ-chain</td>
<td>H. Ozaki</td>
<td>Endocrinology, Tohoku University Graduate School of Medicine, Sendai, Japan</td>
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<td>107</td>
<td>Formation of functional DEHAL1 complexes: implications for the pathogenesis of iodotyrosine deiodinase deficiency</td>
<td>J. C. Moreno¹, W. Klootwijk¹, D. Goudie², M. Polak³, A. Grueters⁴, T. J. Visser¹</td>
<td>¹Internal Medicine, Erasmus Medical Center, Rotterdam, Netherlands; ²Clinical Genetics, Ninewells hospital, Dundee, United Kingdom; ³Pediatric Endocrinology, Necker Enfants Malades Hospital, Paris, France; ⁴Pediatric Endocrinology, Charité Children’s Hospital, Berlin, Germany</td>
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<td>108</td>
<td>Tetraiodothyroacetic Acid (Tetrac) Inhibits Angiogenesis</td>
<td>S. A. Mousa¹, L. J. O’Connor¹, F. B. Davis², J. J. Bergh², P. J. Davis³</td>
<td>¹Pharmaceutical Research Institute at Albany College of Pharmacy, Albany, NY, USA; ²Signal Transduction Laboratory, Ordway Research Institute, Albany, NY, USA; ³Ordway Research Institute and Stratton VA Medical Center, Albany, NY, USA</td>
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<td>109</td>
<td>MCT8 expression is developmentally regulated in the rodent lung</td>
<td>T. P. Rich¹, T. W. Bastian², D. H. Ingbar³, G. Anderson⁴</td>
<td>¹Dept of Medicine, Division of Pulmonology, Allergy and Critical Care Medicine, University of Minnesota-Mpls, School of Medicine, Minneapolis, MN, USA; ²College of Pharmacy Duluth, University of Minnesota Duluth, Duluth, MN, USA; ³Dept of Medicine. Division of Pulmonology, Allergy and Critical Care Medicine, University of Minnesota-Mpls, School of Medicine, Minneapolis, MN, USA; ⁴College of Pharmacy Duluth, University of Minnesota, Duluth, MN, USA</td>
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<td>110</td>
<td>Iodine alters gene expression profile in the MCF-7 breast cancer cell line</td>
<td>F. R. Stoddard³, K. Shah², G. Johannes³, B. Eskin⁴, A. Brooks²</td>
<td>³Molecular Pathobiology, Drexel University College of Medicine, Philadelphia, PA, USA; ²Surgery, Drexel University College of Medicine, Philadelphia, PA, USA; ²Molecular Pathobiology, Drexel University College of Medicine, Philadelphia, PA, USA; ³Obstetrics and Gynecology, Drexel University College of Medicine, Philadelphia, PA, USA</td>
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<td>111</td>
<td>Effect of systemic treatment with retinoic acid and dexamethasone on functional sodium iodide symporter expression in mouse breast cancer xenografts</td>
<td>M. J. Willhauck¹, B. R. Sharif Samani¹, R. Senekowitsch-Schmidtke², B. Göke¹, J. C. Morris³, C. Spitzweg¹</td>
<td>¹Department of Internal Medicine II, Klinikum Grosshadern, Ludwig-Maximilians-University, Munich, Germany; ²Department of Nuclear Medicine, Klinikum rechts der Isar, Technical University, Munich, Germany; ³Division of Endocrinology and Metabolism, Mayo Clinic, Rochester, MN, USA</td>
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Program Number 112  Iodine Uptake and Metabolism  Friday  Poster  Basic

Differential gene expression analysis of iodine treated rat follicular cell
S. G. Leoni1, P. A. Galante2, J. C. M. Ricarte-Filho1, E. T. Kimura1
1Department of Cell and Developmental Biology, University of São Paulo, São Paulo, Brazil; 2Laboratory of Computational Biology, Ludwig Institute for Cancer Research, São Paulo, Brazil

Program Number 113  Iodine Uptake and Metabolism  Friday  Poster  Basic

Seaweed Surpasses the Thyroid in Iodide Uptake, Retention and Storage
C. Cloughley1, E. Burbridge1, S. Kraam2, P. Smyth1
1UCD School of Medicine and Medical Science, University College Dublin, Dublin 4, Ireland; 2Martin Ryan Institute, NUI, Galway, Galway, Ireland

Program Number 114  Iodine Uptake and Metabolism  Friday  Poster  Clinical

The Impact on Serum Calcium of the Treatment of Hyperthyroidism (HT) with I-131
D. J. Stocker1, J. S. Jurgens1, A. L. Stack1, H. B. Burch2
1Nuclear Medicine Service, Walter Reed Army Medical Center, Washington, DC, USA; 2Endocrinology Service, Walter Reed Army Medical Center, Washington, DC, USA

Program Number 115  Thyroid and Development  Friday  Poster  Basic

Regulation of the thyroid axis in developing Xenopus laevis
1National Research Council, US EPA, Duluth, MN, USA; 2Mid-Continent Ecology Division, US EPA, Duluth, MN, USA; 3Student Services Contractor, US EPA, Duluth, MN, USA

Program Number 116  Thyroid Cancer  Friday  Poster  Basic

Pituitary tumor transforming gene (PTTG) stimulates thyroid cell proliferation via a VEGF/KDR/ID3 autocrine pathway
D. S. Kim1, J. A. Franklyn1, K. Boelaert1, J. C. Watkinson2, M. C. Eggo1, C. J. McCabe1
1Division of Medical Sciences, University of Birmingham, Birmingham, United Kingdom; 2Dept of Otolaryngology, University of Birmingham, Birmingham, United Kingdom

Program Number 117  Thyroid Cancer  Friday  Poster  Basic

Papillary Thyroid Cancers and the Innate Immune Response: Ret and Braf Induce Expression of Macrophage Chemoattractants in Vitro and in Vivo
M. Ryder1, E. P. Smith2, C. O. Mesa3, T. J. Giordano4, J. A. Knauf2, J. A. Fagin5
1Endocrinology and Metabolism, University of Cincinnati, Cincinnati, OH, USA; 2Division of Endocrinology, University of Cincinnati, Cincinnati, OH, USA; 3Internal Medicine Department, Federal University of Parana, Brazil, Curitiba, Brazil; 4Pathology, University of Michigan Medical School, Ann Arbor, MI, USA; 5Vontz Center for Molecular Studies, University of Cincinnati College of Medicine, Cincinnati, OH, USA

Program Number 118  Thyroid Cancer  Friday  Poster  Clinical

Is FDG-PET Useful for Differential Diagnosis of Malignant Tumor in Patients with Thyroid Nodules with Cytologically Diagnosed Follicular Neoplasm?
T. Y. Kim1, J. M. Kim1, J. S. Ryu2, G. Gong3, S. J. Hong4, Y. K. Shong1
1Department of Internal Medicine, Asan Medical Center, Seoul, South Korea; 2Department of Nuclear Medicine, Asan Medical Center, Seoul, South Korea; 3Department of Pathology, Asan Medical Center, Seoul, South Korea; 4Department of Surgery, Asan Medical Center, Seoul, South Korea

Program Number 119  Thyroid Cancer  Friday  Poster  Basic

Heterogeneous BRAF Status in Multifocal Thyroid Carcinomas and in Their Corresponding Metastases
R. Giannini, C. Ugolini, C. Lupi, P. Miccoli, F. Basolo
Surgery, University of Pisa, PISA, Italy

Program Number 120  MOVED TO PROGRAM NUMBER 97

Program Number 121  Thyroid Cancer  Friday  Poster  Clinical

KOC (K-Homology-Domain-Containing-Protein Overexpressed in Cancer) Expression in Thyroid Neoplasms
1Pathology, University Of Massachusetts Medical School, Worcester, MA, USA; 2Pathology, University of Massachusetts Medical School, Worcester, MA, USA; 3Endocrinology, University of Massachusetts Medical School, Worcester, MA, USA; 4Surgery, University of Massachusetts Medical School, Worcester, MA, USA
Program Number 122 Thyroid Cancer
Prognostic value of the 6th edition UICC TNM classification for differentiated thyroid carcinoma with extrathyroid extension
N. Wada1, H. Nakayama1, Y. Masudo2, N. Suganuma1, Y. Rino1, M. Masuda1, T. Imada1
1Department of General Surgery, Yokohama City University, Yokohama, Japan; 2Department of General Surgery, Yokohama City University Medical Center, Yokohama, Japan

Program Number 123 Thyroid Cancer
Node Sampling in Thyroid Cancer
J. C. Furlan
Surgery, Mount Sinai Hospital, University of Toronto, Toronto, ON, Canada

Program Number 124 Thyroid Cancer
The Proteasome Inhibitors Induce Apoptosis of Anaplastic Thyroid Cancer Cells
Y. Takiyama1, N. Aoki2, K. Ito3, M. Haneda1
1The Second Department of Internal Medicine, Asahikawa Medical College, Asahikawa, Japan; 2Department of Pathology, Asahikawa Medical College, Asahikawa, Japan; 3Ito Hospital, Tokyo, Japan

Program Number 125 Thyroid Cancer
Diagnostic and Prognostic Implications of the I 131 Dose Selection in the First Post-Ablation Scan in Patients with Differentiated Thyroid Carcinoma: a Multicenter Survey
G. Melado1, A. Mollerach1, M. G. Repetto1, C. Tajer2, A. Lowenstein3, C. Cabezon3
1On behalf of the Argentine multicenter survey of thyroid cancer, Argentine Association of Nuclear Biology and Medicine, Capital Federal, Argentina; 2GEDIC, Capital Federal, Argentina; 3Thyroid Division, Argentine Society of Endocrinology and Metabolism, Capital Federal, Argentina

Program Number 126 Thyroid Cancer
Ras induces cell cycle dependent apoptosis with concomitant checkpoint activation
A. J. Fikaris1, A. E. Lewis2, A. Abualiti1, O. M. Tsygankova1, J. L. Meinkoth1
1Department of Pharmacology, University of Pennsylvania, School of Medicine, Philadelphia, PA, USA; 2Institute for Anatomy and Cell Biology, Department of Biomedicine, University of Bergen, 5009 Bergen, Norway

Program Number 127 Thyroid Cancer
Predictive factors for carcinoma in patients with follicular thyroid neoplasm
N. Besic, M. Sesek, J. Zgajnar, M. Hocevar
Surgical Oncology, Institute of Oncology, Ljubljana, Slovenia

Program Number 128 Thyroid Cancer
Differentiated thyroid cancer presenting with metastatic disease: Clinical Management and Outcome
R. W. Tsang1, E. Sampson1, L. W. Le2, L. Rotstein3, J. D. Brierley1
1Radiation Oncology, University of Toronto, Toronto, ON, Canada; 2Clinical Study co-ordination and Biostatistics, University of Toronto, Toronto, ON, Canada; 3Surgery, University of Toronto, Toronto, ON, Canada

Program Number 129 Thyroid Cancer
Medullary Thyroid Carcinoma with Humoral Hypercalcemia of Malignancy: a Case Report
C. F. Yazbeck, G. G. Sayegh, S. I. Sherman, A. O. Hoff
Department of Endocrine Neoplasia and Hormonal Disorders, The University of Texas M.D. Anderson Cancer Center, Houston, TX, USA

Program Number 130 Thyroid Cancer
Papillary Thyroid Carcinoma (PTC) in Juvenile Patients: Age and Clinical Findings at Diagnosis as Predictors of Tumor Aggressiveness
V. C. Herzovich1, S. Iorcansky1, R. Rubio2, G. Gallo3
1Endocrinología, Hospital Nacional de Pediatría, Buenos Aires, Argentina; 2Surgery, Hospital Nacional de Pediatría, Buenos Aires, Argentina; 3Pathology, Hospital Nacional de Pediatría, Buenos Aires, Argentina

Program Number 131 Thyroid Cancer
Evaluation of Somatostatin Receptor (SSTR) Response to Recombinant Human Thyroid Stimulating Hormone (rhTSH) in Select Thyroid Cancer Cell Lines
I. Robbins1, Y. N. Vaishnav1, J. Anderson2, Y. Lukes2, B. J. Reinhardt2, S. G. Barnes2, M. Ringe3, M. Saji3, C. H. B. Burch1, L. V. J. Bernet1
1Endocrinology Service, Walter Reed Army Medical Center, Washington, DC, USA; 2Department of Clinical Investigation, Walter Reed Army Medical Center, Washington, DC, USA; 3Divisions of Endocrinology, Oncology, and Human Cancer Genetics, Ohio State University, Columbus, OH, USA
Comparison of whole body scans (WBS) uptakes after the administration of therapeutic radioiodine doses in patients with metastatic thyroid cancer prepared firstly after thyroid hormone withdrawal and then by using rhTSH

F. Pitoia¹, E. El Tamer², M. E. Salvai¹, M. B. Zanchetta¹, H. Niepomnisszcze¹

¹Division of Endocrinology, Hospital de Clinicas-University of Buenos Aires, Buenos Aires, Argentina; ²Center of Nuclear Medicine-UBA-CNEA, Hospital de Clinicas-University of Buenos Aires, Buenos Aires, Argentina

Clinical Utility and Cost-Effectiveness of Intraoperative Frozen Section for Follicular Thyroid Neoplasms

M. C. Miller³, C. Rubin¹, M. Cunnane², M. Bibbo², J. L. Miller³, E. A. Pribitkin¹, W. M. Keane¹

¹Department of Otolaryngology - Head and Neck Surgery, Thomas Jefferson University Hospital, Philadelphia, PA, USA; ²Department of Pathology, Anatomy, and Cell Biology, Thomas Jefferson University Hospital, Philadelphia, PA, USA; ³Department of Medicine - Division of Endocrinology, Thomas Jefferson University Hospital, Philadelphia, PA, USA

Evidence of Acute Pancreatitis on PET Imaging in a Patient with Poorly Differentiated Thyroid Cancer Treated with Rosiglitazone

H. L. Hofflich¹, A. Elias¹, P. Lizotte²

¹Endocrinology, Diabetes, and Metabolism, University of California, Irvine, Irvine, CA, USA; ²Department of Radiology, University of California, Irvine, Orange, CA, USA

Long Term Follow up of Peripheral Thyroglobulin mRNA and Serum Thyroglobulin Concentrations after Radioiodine Ablation in Patients with Differentiated Thyroid Cancer


Thyroid Unit (LIM-25), University of Sao Paulo Medical School, Sao Paulo, Brazil

Microcancer of the Thyroid Gland and Its Biological Behaviour

I. B. Rosen

Department of Surgery, Mount Sinai Hospital, University of Toronto, Toronto, ON, Canada

Familial Papillary Thyroid Carcinoma

Q. H. Ji¹, L. Zhang²

¹Head and Neck Surgery Department, Fudan University Cancer Hospital, Shanghai, China; ²Head and Neck Surgery Department, Fudan University Cancer Hospital, Shanghai, China

<21 Year-Old Papillary Thyroid Patients with Bilateral Cervical Metastases

L. Zhang², Q. H. Ji¹

¹Head and Neck Surgery Department, Fudan University Cancer Hospital, Shanghai, China; ²Head and Neck Surgery Department, Fudan University Cancer Hospital, Shanghai, China

Expression and role of estrogen receptor beta in medullary thyroid carcinoma

M. Cho¹, M. K. Lee², C. S. Park², W. I. Yang³, S. K. Lim⁴, E. J. Lee⁵

¹Division of Endocrinology, Thyroid Cancer Clinic, Yonsei University College of Medicine, seoul, South Korea; ²Department of Pathology, National Health Insurance Medical Center, ilsan, South Korea; ³Department of Surgery, Yonsei University College of Medicine, seoul, South Korea; ⁴Department of Pathology, Yonsei University College of Medicine, seoul, South Korea; ⁵Division of Endocrinology, Thyroid Cancer Clinic, Yonsei University College of Medicine, seoul, South Korea; ⁶Division of Endocrinology, Thyroid Cancer Clinic, Endocrinology, Metabolism, & Molecular Medicine, Yonsei University College of Medicine, Northwestern University, Feinberg School of Medicine, Seoul, South Korea

Medullary thyroid carcinoma with metastasis to the pituitary gland in a MEN2b patient: a case report

G. G. Sayegh¹, C. F. Yazbeck¹, L. Santarpia¹, D. B. Evans², P. M. Hoff³, R. F. Gagel⁴, A. O. Hoff¹

¹Department of Endocrine Neoplasia and Hormonal Disorders, University of Texas M.D. Anderson Cancer Center, Houston, TX, USA; ²Department of Surgical Oncology, University of Texas M.D. Anderson Cancer Center, Houston, TX, USA; ³Department of Gastrointestinal Medical Oncology, University of Texas M.D. Anderson Cancer Center, Houston, TX, USA; ⁴Division of Endocrinology, Thyroid Cancer Clinic, Endocrinology, Metabolism, & Molecular Medicine, Yonsei University College of Medicine, Northwestern University, Feinberg School of Medicine, Seoul, South Korea
Program Number 141  Thyroid Cancer  Friday  Poster  Clinical
Functional bone metastasis from follicular thyroid cancer
S. Hatori, I. Han, H. Murakami, M. Suzuki, M. Yamakawa, H. Iwasaki
Department of Surgery, Atami Hospital, International University of Health and Welfare, Atami, Japan

Program Number 142  Thyroid Cancer  Friday  Poster  Clinical
Fine-needle aspiration of the thyroid gland. twelve years experience
P. Grilli, C. D’Ercole, D. Vendettiuli, M. Vendettiuli, G. Di Rocco, D. Giannotti, S. Federici, A. Redler
Department of Surgical Science, University of Rome La Sapienza, Rome, Italy

Program Number 143  Thyroid Cancer  Friday  Poster  Clinical
Exuberant fasciitis and papillary thyroid cancer
M. H. Nathan¹, M. Harvey², J. Kikut³, R. A. Sofferman⁴
¹Endocrinology, University of Vermont/Fletcher Allen Health Care, Burlington, VT, USA; ²Pathology, University of Verm-
ont/Fletcher Allen Health Care, Burlington, VT, USA; ³Radiology, University of Vermont/Fletcher Allen Health Care,
Burlington, VT, USA; ⁴Surgery, University of Vermont/Fletcher Allen Health Care, Burlington, VT, USA

Program Number 144  Thyroid Cancer  Friday  Poster  Clinical
Adverse effect of long-term TSH suppression therapy in patients with differentiated thyroid cancer
H. Iwasaki, M. Yamakawa, I. Han, H. Murakami, S. Hatori, M. Suzuki, Y. Takanashi
Department of Surgery, Atami Hospital, International University of Health and Welfare, Atami, Japan

Program Number 145  Thyroid Diseases  Friday  Poster
Influences of age, gender, smoking and family history on disease phenotype in autoimmune thyroid disease - a national
UK study of 2805 subjects
N. Manji¹, J. Carr-Smith¹, K. Boelaert¹, A. Allahabadia², M. Armitage³, K. Chatterjee⁴, J. H. Lazarus⁵, S. Pearce⁶, B. Vaidya⁷,
S. C. L. Gough¹, J. A. Franklyn¹
¹Division of Medical Sciences, University of Birmingham, Birmingham, United Kingdom; ²Departments of Endocrinol-
y and Endocrine Surgery, Sheffield Teaching Hospitals NHS Trust and Division of Clinical Sciences University of Shef-
field, Sheffield, United Kingdom; ³Department of Medicine, Royal Bournemouth Hospital, Bournemouth, United
Kingdom; ⁴Dept of Medicine, Addenbrooke’s Hospital, Cambridge, United Kingdom; ⁵Department of Medicine, Uni-
versity of Wales College of Medicine, Cardiff, United Kingdom; ⁶School of Clinical Medical Sciences, University of
Newcastle, Newcastle, United Kingdom; ⁷Department of Medicine, Royal Devon and Exeter Hospital, Exeter, United
Kingdom

Program Number 146  Thyroid Diseases  Friday  Poster  Clinical
Chaos in the Calibrations of Analogue-Based Free T4 Assays
K. S. Fritz¹, R. B. Wilcox¹, J. C. Nelson²
¹Department of Biochemistry and Molecular Biology, School of Medicine, Loma Linda University, Loma Linda, CA, USA;
²Department of Medicine and Pathology, School of Medicine, Loma Linda University, Loma Linda, CA, USA

Program Number 147  Thyroid Diseases  Friday  Poster  Clinical
Large Fetal Goiter in a Patient with Congenital Hypothyroidism is Associated with Intron Donor Site Mutation
(g.IVS30+1G>T) of the Thyroglobulin Gene
V. Pardo¹, I. G. S. Rubio¹, M. Knobel¹, M. H. Oliveira¹, M. Moura¹, C. Rivolta², H. M. Targovnik², G. Medeiros-Neto¹
¹Thyroid Unit (LIM-25), University of São Paulo Medical School, São Paulo, Brazil; ²Laboratorio de Biologia Molecular, Cá-
edra de Genetica e Biologia Molecular, Faculdade de Farmácia e Bioquímica, Universidade de Buenos Aires, Buenos Aires,
Argentina

Program Number 148  Thyroid Diseases  Friday  Poster  Clinical
Pitfalls in the Development of Synthetic Thyrotropin Receptor Antagonists
S. Neumann¹, J. Childress¹, C. J. Thomas², H. Jaeschke¹, B. M. Raaka³, M. C. Gershengorn¹
¹NIDDK, Clinical Endocrinology Branch, National Institutes of Health, Bethesda, MD, USA; ²NIDDK, Chemical Biology
Core Facility, National Institutes of Health, Bethesda, MD, USA

Program Number 149  Thyroid Diseases  Friday  Poster  Clinical
Cardiovascular Risk with Subclinical Hyper-and Hypothyroidism: A Meta-analysis
S. Singh¹, J. Duggal², J. Molnar³, F. Maldonado⁴, R. Arora³
¹Medicine, Chicago Medical School, North Chicago, IL, USA; ²Medicine, Chicago Medical School (C.M.S.), North Chicago,
IL, USA; ³Medicine, Chicago Medical School, North Chicago, IL, USA
Program Number 150  Thyroid Diseases  Friday  Poster  Clinical
Changes in thyroid function 3-5 weeks after ablation with radioactive iodine (I-131) for the treatment of hyperthyroidism
L. Mutter1, P. S. Arora2
1Department of Medicine, University of Minnesota, Minneapolis, MN, USA; 2Division of Endocrinology, University of Minnesota, Saint Paul, MN, USA

Program Number 151  Thyroid Diseases  Friday  Poster  Clinical
Thrombin Activatable Fibrinolysis Inhibitor Antigen Levels in Hyperthyroid Patients
B. Akinci1, A. Comlekci1, T. Demir1, M. A. Ozcan1, S. Yener1, F. Yuksel2, F. Bayraktar1, S. Yesil1
1Endocrinology and Metabolism, Dokuz Eylül University, Izmir, Turkey; 2Hematology, Dokuz Eylül University, Izmir, Turkey

Program Number 152  Thyroid Diseases  Friday  Poster  Clinical
Clinical aspects of Hashimoto’s thyroiditis
Division of Diabetes, Metabolism and Endocrinology, Toho University School of Medicine, Tokyo, Japan

Program Number 153  Thyroid Diseases  Friday  Poster  Clinical
Companion animals may serve as sentinels of health risk – a review of thyroid diseases in three non-human species
C. H. Edinboro
Health Sciences Practice, Exponent, Inc., Menlo Park, CA, USA

Program Number 154  Thyroid Diseases  Friday  Poster  Clinical
Prevalence TPO-Ab among patients with Amiodarone-induce
N. Kayumova, S. Ismailov, N. Abdusalamova
Thyroidology department, Institute of Endocrinology, Tashkent, Uzbekistan

Program Number 155  Thyroid Diseases  Friday  Poster  Clinical
Clinical and Laboratory Recovery of Resistant Hypothyroidism after H.Pylori Eradication: a Case Report
M. G. Taskale1, A. B. Kumbasar2, A. Soylu3, G. Esin2, N. Yasar2
1Division of Endocrinology and Diabetes, Internal Medicine, Dr. Sadi Konuk Research Hospital, Istanbul, Turkey; 2Internal Medicine Clinic, Dr. Sadi Konuk Research Hospital, Istanbul, Turkey; 3Division of Gastroenterology, Dr. Sadi Konuk Research Hospital, Istanbul, Turkey

Program Number 156  Thyroid Diseases  Friday  Poster  Clinical
A case of hyperthyroidism with severe diarrhea, chylos ascites and chylothorax
Division of Diabetes, Metabolism and Endocrinology, Toho University School of Medicine, Tokyo, Japan

Program Number 157  Thyroid Diseases  Friday  Poster  Clinical
Hyperthyroidism and atrial myxoma – Carney complex or just chance?
G. Kumar1, J. T. Chow2, D. S. Dean2
1Internal Medicine, Mayo Clinic, Rochester, MN, USA; 2Internal Medicine/Endocrinology, Mayo Clinic, Rochester, MN, USA

Program Number 158  Thyroid Diseases  Friday  Poster  Clinical
Thyrotoxic Periodic Paralysis in a Hispanic Man
M. H. Horani1, B. Majeed2
1Internal Medicine, Banner Good Samaritan Medical, Scottsdale, AZ, USA; 2Department of Internal Medicine, Banner Good Samaritan Medical Center, Scottsdale, AZ, USA

Program Number 159  Thyroid Diseases  Friday  Poster  Clinical
Variable hyperthyroxinemia and atrial fibrillation in a patient with a microadenoma
L. W. Greene1, M. Leone2
1Endocrine Division of Department of Medicine, New York University School of Medicine, New York, NY, USA; 2Endocrinology, New York University Medical Center, New York, NY, USA

Program Number 160  Thyroid Hormone Action  Friday  Poster  Clinical
Normal thyroid function and blood pressure: population study
B. O. Åsvold1, T. Bjoro2, T. I. Nilsen1, L. J. Vatten1
1Department of Public Health, Norwegian University of Science and Technology, Trondheim, Norway; 2Department of Medical Biochemistry, Rikshospitalet-Radiumhospitalet Medical Center, Oslo, Norway
Program Number 161 Thyroid Hormone Action Friday Poster Basic

In vivo interaction of SRC-1 and the AF-2 Domain of the Thyroid Hormone Receptor β
M. Alonso1, C. Goodwin1, X. H. Liao1, T. Ortiga-Carvalho1, D. Machado2, F. Wondisford2, R. Weiss1
1Department of Medicine, University of Chicago, Chicago, IL, USA; 2Departments of Pediatrics and Medicine, Johns Hopkins University, Baltimore, MD, USA

Program Number 162 Thyroid Hormone Action Friday Poster Basic

Aneuploidy caused by the accumulation of the pituitary tumor-transformation gene induced by a mutant thyroid hormone β receptor
H. Ying1, F. Furuya1, L. Zhao1, J. A. Hanover2, S. Y. Cheng1
1Laboratory of Molecular Biology, CCR, National Cancer Institute, Bethesda, MD, USA; 2Laboratory of Cellular Biochemistry and Biology, National Institute of Diabetes and Digestive and Kidney Diseases, National Institutes of Health, Bethesda, MD, USA

Program Number 163 Thyroid Hormone Action Friday Poster Basic

Identification of a novel mutation in MCT8 and its effects on cellular T3 uptake
J. Jansen1, E. C. Friesema1, J. W. Jachtenberg1, I. Sooran - Lunsing1, T. J. Visser1
1Internal Medicine, Erasmus MC, Rotterdam, Netherlands; 2Department of Child Neurology, University Medical Centre Groningen, Groningen, Netherlands; 3Department of Internal Medicine, Erasmus Medical Center, Rotterdam, Netherlands

Program Number 164 Thyroid Hormone Action Friday Poster Basic

Design Strategies for Achieving TRβ Selectivity
Karo Bio AB, HUDDINGE, Sweden

Program Number 165 Thyroid Hormone Action Friday Poster Basic

Using specific engineered ribozymes as molecular tools to target the mRNAs of co-regulators of thyroid hormone receptors in mammalian cell lines
T. Fayad1, M. P. Provencher1, M. Brunelle1, F. D’Anjou2, R. Day2, J. P. Perreault1, M. F. Langlois4
1Division of Endocrinology, 2Department of Pharmacology, 3Department of Biochemistry, 4Endocrine Division, Faculté de Médecine et Centre Hospitalier Universitaire de Sherbrooke, Sherbrooke, QC, Canada

Program Number 166 Thyroid Hormone Action Friday Poster Clinical

Severe Hypercalcemia in Thyrotoxicosis
H. L. Hofflich, B. Andersen
Endocrinology, Diabetes, and Metabolism, University of California, Irvine, Irvine, CA, USA

Program Number 167 Thyroid Hormone Metabolism and Regulation Friday Poster Basic

Human monocarboxylate transporter 10 does transport thyroid hormone
E. C. Friesema, J. W. Jachtenberg, J. Jansen, M. H. Kester, T. J. Visser
Internal Medicine, Erasmus MC, Rotterdam, Netherlands

Program Number 168 Thyroid Hormone Metabolism and Regulation Friday Poster Basic

The Val174Ala polymorphism in the SLCO1B1 gene is associated with serum thyroid parameters
W. M. Van der Deure1, R. .. P. Peeters3, F. J. De Jong2, M. Breter1, T. .. J. Visser1
1Department of Internal Medicine, Erasmus Medical Center, Rotterdam, Netherlands; 2Department of Epidemiology and Biostatistics, Erasmus Medical Center, Rotterdam, Netherlands

Program Number 169 Thyroid Hormone Metabolism and Regulation Friday Poster Basic

Expression of the Type 2 Deiodinase in RMS-13 cells: a system for modeling the regulation and physiology of D2 in muscle
B. W. Kim, W. Da Silva, J. W. Harney, P. R. Larsen, A. Bianco
Thyroid Section, Division of Endocrinology, Diabetes and Hypertension, Brigham and Women’s Hospital - Harvard Medical School, Boston, MA, USA

Program Number 170 Thyroid Hormone Metabolism and Regulation Friday Poster Clinical

Ethnic differences in thyroid tests during pregnancy
W. L. Roberts1, S. L. La’ulu2
1Pathology, University of Utah, Salt Lake City, UT, USA; 2ARUP Institute for Clinical & Experimental Pathology, ARUP Laboratories, Salt Lake City, UT, USA
Fenamic acid and indocyanine green inhibit organic anion transporting polypeptide 1c1 (Oatp1c1) mediated thyroxine transport

D. E. Westholm1, G. W. Anderson2
1Biochemistry, Molecular Biology and Biophysics, University of Minnesota Duluth, Duluth, MN, USA; 2College of Pharmacy Duluth, University of Minnesota, Duluth, MN, USA

Online PATIENTS: PATIent adherence Educational iNTeractive Server

J. J. DiStefano, M. C. Eisenberg, J. Chen
Biocybernetics Laboratory, Departments of Computer Science, Medicine & Biomedical Engineering, UCLA, Los Angeles, CA, USA

The significance of incidental PET uptake in the thyroid gland

J. A. Eloy1, P. Som2, E. Genden3
1Otolaryngology-head and Neck Surgery, Mount Sinai School of Medicine, New York, NY, USA; 2Department of Radiology, Mount Sinai School of Medicine, New York, NY, USA; 3Otolaryngology-Head and Neck Surgery, Mount Sinai School of Medicine, New York, NY, USA

Morphologic change of trachea (deviation, compression, invasion) associated with various thyroid tumors

Y. W. Koh1, S. Y. Lee2, H. S. Hong3, D. H. Kim4, S. W. Lee5, H. S. Chang1
1Department of Otolaryngology-Head & Neck surgery, Soochunhyang University, College of Medicine, Bucheon-si, South Korea; 2Department of Otolaryngology-Head & Neck surgery, Chung-Ang University, College of Medicine, Seoul, South Korea; 3Department of Radiology, Soochunhyang University, College of Medicine, Bucheon-si, South Korea

IGF-1 Up-regulates cyclinD1 Expression via PI3-Kinase /NF-KappaB Signal Pathway in FRTL-5 Cells

M. Ren1, L. Gao2, Y. Sun3, X. Zhong3, X. Lu3, J. Zhao1
1Shandong Provincial Hospital, Shandong University, Jinan, China; 2Central Lab, Shandong Provincial Hospital, Jinan, China; 3Central Lab, Shandong Provincial Hospital, Jinan, China

Study of the prevalence and mechanisms of action of TSH receptor and Gs protein alpha-subunit mutations, in toxic multinodular goiters and toxic adenomas from Galicia (Spain)

F. Palos1, O. Perez1, V. Alvarez-Iglesias2, J. Cameselle3, D. Araujo1, L. Dominguez1, J. Lado-Abeal1
1Medicine School. Department of Medicine, University of Santiago de Compostela, Santiago de Compostela, Spain; 2Medicine School. Department of Forensic Sciences, University of Santiago de Compostela, Santiago de Compostela, Spain; 3Complejo Hospitalario Universitario de Santiago (CHUS), University of Santiago de Compostela, Santiago de Compostela, Spain

How we can predict the hypothyroidism after hemithyroidectomy? : A Clinico-pathological analysis

1Department of Otolaryngology-Head & Neck surgery, Soochunhyang University, College of Medicine, Bucheon-si, South Korea; 2Department of Otolaryngology-Head & Neck surgery, Chung-Ang University, College of Medicine, Seoul, South Korea; 3Department of Pathology, Soochunhyang University, College of Medicine, Bucheon-si, South Korea

Epidemiologic study( FATA-G): thyroid volume evaluation according to different classes of age and thyroid nodule prevalence

P. De Remigis1, O. Raineri2, A. De Remigis1, B. Di Nenno3, G. Napolitano3, L. Vianale1
1Endocrine Unit, General Hospital, Chieti, Italy; 2Chair of Endocrinology, University of Chieti, Chieti, Italy

Fine Needle Aspiration Cytology of Thyroid Nodule: Diagnostic Accuracy and Pitfalls

S. A. Mahar
Diabetes, Endocrinology & Metabolism, Aga Khan University, Karachi, Pakistan
10:00 – Noon  
Fellows Session  

10:30 – 11:45 am  Simultaneous Sessions - Oral Abstracts  

Akimel O’otham 3, 4  
CLINICAL  
Autoimmunity and Thyroid Disease  
Chairs: Mark Lupo and Rebecca Bahn  

Program Number 181  Autoimmunity  
Study of serum antibodies and T cell reactivity against three eye muscle antigens in patients with Graves’ disease with ophthalmopathy – correlation with clinical features  
B. Gopinath¹, R. Musselman¹, N. Beard², J. Tani¹, C. L. Adams¹, B. Nguyen¹, J. Wall¹  
¹Department of Medicine, University of Sydney, Penrith, Australia; ²Division of Molecular Bioscience, Australian National University, Canberra, Australia  

Program Number 182  Autoimmunity  
Rituximab Is More Effective Than Intravenous Steroids in the Treatment of Patients Active Graves’ Ophthalmopathy  
M. Salvi³, G. Vannucchi¹, I. Campi¹, D. Dazzi², N. Curri³, S. Simonetta³, P. Bonara³, S. Rossi³, S. Avignone⁶, C. Guastella⁷, R. Ratiglia³, P. Beck-Peccoz¹  
³Endocrine Unit, Department of Medical Sciences, University of Milan, Milan, Italy; ²Division of Internal Medicine, Ospedale di Fidenza, Fidenza, Italy; ³Department of Ophthalmology, University of Milan, Milan, Italy; ⁴Internal Medicine, Department of Medical Sciences, Milan, Italy; ⁵Department of Pathology, Ospedale San Paolo, Milan, Italy; ⁶Neuroradiology, Ospedale Maggiore Policlinico, Milan, Italy; ⁷Department of Otolaryngology, Milan, Italy  

Program Number 183  Thyroid Diseases  
Lipid Subparticle Sizes in Overt Hypothyroidism  
E. N. Pearce¹, P. W. F. Wilson², L. E. Braverman¹  
¹Section of Endocrinology, Diabetes and Nutrition, Boston University Medical Center, Boston, MA, USA; ²Department of Endocrinology, Diabetes, and Medical Genetics, Medical University of South Carolina, Charleston, SC, USA  

Program Number 184  Thyroid Diseases  
The Effects of Antithyroid Drug Treatment on Thyroid Hormone Levels after ¹³¹I Ablation for Graves’ Disease: A Prospective Randomized Study  
L. M. Z. Maciel, P. K. R. Magalhaes  
Department of Internal Medicine, School of Medicine of Ribeirao Preto - University of Sao Paulo, Ribeirao Preto, Brazil  

Program Number 185  Thyroid and Development  
Using Magnetic Resonance Spectroscopy (MRS) to Study Thyroid Hormone’s Role in Hippocampal Development  
J. Rovet¹, M. Williamson², K. Nash², M. Desrocher³, E. Sheard², M. Noseworthy⁴  
¹Brain and Behaviour Program, The Hospital for Sick Children, Toronto, ON, Canada; ²Psychology Department, The Hospital for Sick Children, Toronto, ON, Canada; ³Psychology Department, York University, Toronto, ON, Canada; ⁴Radiology & Medical Physics, McMaster University, Hamilton, ON, Canada  

Akimel O’otham 1, 2  

BASIC  
Thyroid Cancer  
Chairs: Bryan Haugen and Sissy Jhiang  

Program Number 186  Thyroid Cancer  
Parvovirus B19 Infection in Human Papillary Thyroid Carcinoma  
J. Wang¹, W. Zhang¹, H. Liu², D. Wang¹, L. Wang¹, Y. Li¹, W. Wang¹, Z. Wang¹, G. Huang¹  
¹Department of Pathology, Fourth Military Medical University, Xi’an, China; ²Department of Histopathology, Addenbrooke’s Hospital, Cambridge, United Kingdom  

Program Number 187  Thyroid Cancer  
Anti-Tumor Activity of AMG 706, an Oral Multi-Kinase Inhibitor, in Human Medullary Thyroid Carcinoma Xenografts  

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Program Number 188  Thyroid Cancer  Friday  Oral  Basic  11:00 am
Antineoplastic Activity of Combretastatin A-4 Phosphate, Paclitaxel and Carboplatin in a Mouse Xenograft Model of Anaplastic Thyroid Cancer
S. C. J. Yeung
Endocrine Neoplasia and Hormonal Disorders, The University of Texas M. D. Anderson Cancer Center, Houston, TX, USA

Program Number 189  Thyroid Cancer  Friday  Oral  Basic  11:15 am
Immunosurveillance by Dendritic Cells: Potential Implication for Immunotherapy of Patients with Medullary Thyroid Carcinoma and in Transgenic MTC Mice
M. Schott, C. Papewalis, B. Jacobs, W. A. Scherbaum
Department of Endocrinology, Diabetes and Rheumatology, University Hospital Duesseldorf, Duesseldorf, Germany

Program Number 190  Thyroid Cancer  Friday  Oral  Basic  11:30 am
Widely Invasive Papillary Thyroid Cancer is Associated with an Expression Profile Consistent with Epithelial-to-Mesenchymal Transition
V. Vasko1, A. Espinosa2, H. He3, H. Auer4, S. Liyanarachchi5, A. Larin6, W. Scouten7, G. L. Francis1, A. De la Chapelle8, M. Saji2, M. Ringel2
1Pediatrics, Uniformed Services University of the Health Sciences, Bethesda, MD, USA; 2Divisions of Endocrinology, Oncology, and Human Cancer Genetics, Ohio State University, Columbus, OH, USA; 3Molecular Virology, Immunology, and Genetic., Arthur G. James Comprehensive Cancer Center, The Ohio State University, Columbus, OH, USA; 4Department of Children’s Hospital, Columbus Children’s Research Institute, Columbus, OH, USA; 5Department of Immunology and Genetic, Arthur G. James Comprehensive Cancer Center, The Ohio State University, Columbus, OH, USA; 6Surgery, Ukrainian Center for Endocrine Surgery, Kiev, Ukraine; 7pediatrics, USUHS, Bethesda, MD, USA; 8Immuno lorology and Genetic, Arthur G. James Comprehensive Cancer Center, The Ohio State University, Columbus, OH, USA

Noon – 2:00 pm  Coyote, Buzzard, Eagle
Fellows Career Workshop and Networking Lunch

11:45 am – 1:00 pm  Pipai Kave
Poster Session & Lunch  Akimel O’otham Foyer

1:00 – 2:00 pm  Check ticket for room assignment
Friday Meet the Professors Workshops (Concurrent)

How to choose a clinical trial, case based  Manisha Shah
The impact of thyroid nodule management on thyroid cancer incidence  Laurence Leenhardt
I-131 Rx and XRT, when to use?  James Brierley
Tg assays, do they make a difference?  Carole Spencer
Submitting a successful research grant application  Syed Amir and Ron Margolis
Thyroid hormone, metamorphosis and development  Robert J. Denver
Central mechanism in thyroid hormone homeostasis  Anthony Hollenberg
Novel insights into S14 mechanism of action  Cary Mariash

2:00 – 3:30 pm  Simultaneous Sessions - Oral Abstracts

Akimel O’otham 3, 4
CLINICAL
Thyroid Nodules and Cancer
Chairs: Steven Sherman and Gerard Doherty

Program Number 191  Thyroid Cancer  Friday  Oral  Clinical  2:00 pm
Role of Molecular Testing for Mutations in Improving the Fine Needle Aspiration (FNA) Diagnosis of Thyroid Nodules
1Department of Pathology, University of Cincinnati, Cincinnati, OH, USA; 2Department of Otolaryngology - Head and Neck Surgery, University of Cincinnati College of Medicine, Cincinnati, OH, USA; 3Division of Pathology, Cincinnati Children's Hospital, Cincinnati, OH, USA; 4Department of Medicine, University of Colorado Cancer Center, Division of Endocrinology, Metabolism and Diabetes, University of Colorado at Denver and Health Sciences Center, Aurora, CO, USA; 5Vontz Center for Molecular Studies, University of Cincinnati College of Medicine, Cincinnati, OH, USA; 6Department of Surgery,
Predicting Malignancy in Follicular Neoplasms
S. A. Fish, J. Langer, Z. Baloch, A. Cucchiara, S. J. Mandel
1Department of Medicine, University of Pennsylvania, Philadelphia, PA, USA; 2Department of Radiology, University of Pennsylvania, Philadelphia, PA, USA; 3Department of Pathology, University of Pennsylvania, Philadelphia, PA, USA; 4Diabetes and Metabolism, University of Pennsylvania, Philadelphia, PA, USA

Staging Follicular Cell Derived Non-Papillary Thyroid Carcinoma: Impact of the 2002 pTNM Reclassification
F. Toruner, J. L. Bates, I. D. Hay, T. J. Sebo, B. McIver
1Division of Endocrinology, Mayo Clinic, Rochester, MN, USA; 2Division of Laboratory Medicine and Pathology, Mayo Clinic College of Medicine, Rochester, MN, USA

Tumor size is a prognostic factor in pT3 well-differentiated thyroid carcinoma
L. Leenhardt, C. Trésallet, C. Hoang, L. Dupasquier Fediaevsky, A. Aurengo, F. Ménégaux
1Department of Nuclear Medicine, Pitié Salpêtrière Hospital, Paris, France; 2Department of General Surgery, Pitié Salpêtrière Hospital, Paris, France; 3Department of Pathology, Pitié Salpêtrière Hospital, Paris, France

The Predictive Value of Post-Surgical Stimulated Thyroglobulin Measurements in the Follow-Up of Well-Differentiated Thyroid Carcinoma
A. M. Sawka, S. Orlov, J. Gelberg, B. Stork, M. Dowar, M. Shaytzag, J. L. Freeman, P. G. Walfish
1Medicine/Endocrine Division, University Health Network, Toronto, ON, Canada; 2Medicine/Endocrine Division, Mount Sinai Hospital, University of Toronto Medical School, Toronto, ON, Canada; 3Otolaryngology, Mount Sinai Hospital, University of Toronto Medical School, Toronto, ON, Canada

A Sensitive Thyroglobulin Immunoassay Obviates Need for Recombinant Human Thyrotropin Stimulation in Follow-Up of Patients with Differentiated Thyroid Carcinoma and Undetectable Serum Thyroglobulin
R. C. Smallridge
Endocrinology, Mayo Clinic College of Medicine, Jacksonville, FL, USA

Genetic association of Graves’ disease localised to within 180kb of the TSHR gene region
1Division of Medical Sciences, University of Birmingham, Birmingham, United Kingdom; 2Department of Endocrinology M, Odense University Hospital, Odense, Denmark; 3University Dept of Medicine & Therapeutics, Western Infirmary, Glasgow, United Kingdom; 4Dept Endocrinology and Metabolism, Odense University Hospital, Odense, Denmark; 5Dept of Endocrinology, Christchurch Hospital, Christchurch, New Zealand; 6Kolling Institute and Dept of Endocrinology, University of Sydney and Royal North Shore Hospital, Sydney, Australia; 7Oxford Genetics Knowledge Park, Wellcome Trust Centre for Human Genetics, Oxford, United Kingdom; 8Dept of Metabolic Medicine, Nuffield Orthopaedic Centre, Oxford, United Kingdom; 9Dept of Endocrinology and Metabolism, University Hospital Academisch Medisch Centrum, University of Amsterdam, Amsterdam, Netherlands; 10Clinical Sciences Centre, University of Sheffield and Northern General Hospital, Sheffield, United Kingdom
Successfully established an animal model of Graves disease
1Department of Endocrinology, First Affiliated Hospital, Medical College of Xi’an Jiaotong University, Xi’an, China; 2Autoimmune Disease Unit, Cedars-Sinai Research Institute and UCLA School of Medicine, Los Angeles, CA, USA

X-Chromosome Inactivation (XCI) in Graves’ Disease
X. Yin, R. Latif, Y. Tomer, T. Davies
1Department of Medicine, Mount Sinai School of Medicine, New York, NY, USA; 2Department of Medicine, University of Cincinnati, Cincinnati, OH, USA

Influence of Thyroid Hormones on Maturation and Function of Dendritic Cells in Vivo and in Vitro
M. Dedecjus, M. Stasiolek, K. Selmaj, J. Brzezinski, A. Lewinski
1Department of Endocrine Surgery, Chair of Endocrinology and Metabolic Diseases, Medical University of Lodz, Polish Mother’s Memorial Hospital, Poland, Lodz, Poland; 2Department of Neurology, Medical University of Lodz, Poland, Lodz, Poland; 3Department of Endocrinology and Metabolic Diseases, Chair of Endocrinology and Metabolic Diseases, Medical University of Lodz, Polish Mother’s Memorial Hospital, Poland, Lodz, Poland

Immune-Regulatory Gene Involvement in the Etiology of Interferon Induced Thyroiditis (IIT)
E. Jacobson, S. Chaudhry, J. C. Mandac, E. Concepcion, Y. Tomer
1Division of Endocrinology, University of Cincinnati College of Medicine, Cincinnati, OH, USA; 2Department of Medicine, Mount Sinai School of Medicine, New York, NY, USA; 3Division of Endocrinology, Cincinnati VA Medical Center and the University of Cincinnati College of Medicine, Cincinnati, OH, USA

2:30 – 4:00 pm  Coyote, Buzzard, Eagle
Fellows’ Session
Case Presentations

3:30 – 4:00 pm  Pipai Kave
Poster Session and Break
Akimel O’otham Foyer

4:30 pm  Pipai Kave
Exhibit Hall Closes

4:00 – 5:15 pm  Simultaneous symposia
Akimel O’otham 3, 4

Thyroid Grand Rounds: Do All Nodules >1cm Require FNA?
Moderator: Gilbert Daniels
Panel: Jill Langer, Erik Alexander and Jack Baskin

Deiodination: From Bench to Bedside
Moderator: Douglas Forrest
What are we learning from deiodinase transgenic mouse models? Donald St. Germain
The Significance of type 2 iodothyronine deiodinase for T4 to T3 conversion in humans P. Reed Larsen
Clinical implications of deiodinase polymorphisms Robin Peeters

5:15 – 6:00 pm  Akimel O’otham 3, 4
Supported by an educational grant from Abbott
Sidney H. Ingbar Distinguished Lectureship
This award recognizes outstanding academic achievements in thyroidology, in keeping with the innovation and vision that epitomized Dr. Ingbar’s brilliant investigative career. The award is conferred upon an established investigator who has made major contributions to thyroid-related research over many years.

Defective Synthesis and Secretion of Thyroglobulin: From Phenotype to Genotype
Geraldo Medeiros-Neto, MD
Professor of Endocrinology
University of Sao Paulo Medical School
Sao Paulo, Brazil

Free Evening (Sign up for shuttles to the mall)
Saturday, October 14, 2006

6:00 am – 6:00 pm  Ant
ATA Fellows Track Room (See Fellows schedule posted daily)

6:00 am  Akimel O’otham 1, 2
Breakfast

6:30 – 7:45 am  Akimel O’otham 1, 2  Supported by an educational grant from Astra Zeneca
CME symposium
Medullary Thyroid Carcinoma: New approaches to mechanism, testing and treatment
Moderator: Matthew Ringel
RET and other signaling abnormalities in medullary thyroid carcinoma  Massimo Santoro
Radioimmunotherapy: a novel therapy for advanced medullary thyroid carcinoma  Stéphane Bardet
Genetic testing in medullary thyroid carcinoma  Ernest Mazzaferri

8:00 – 8:45 am  Akimel O’otham 3, 4  Supported by Boris Catz, MD and an educational grant from King Pharmaceuticals, Inc.
The Paul Starr Award Lecture
In recognition of an outstanding contributor to clinical thyroidology.

“Causes and consequences of thyroid disorders”

Professor Jayne A. Franklyn MD PhD FRCP FMedSci
Professor of Medicine Division of Medical Sciences
University of Birmingham Queen Elizabeth Hospital
Edgbaston Birmingham, United Kingdom

8:45 -10:15 am  Akimel O’otham 3, 4
Short call abstracts (6)
Chairs: Peter Kopp and Michael McDermott

10:15 – 10:45 am  Akimel Foyer
Refreshment Break

10:45 – Noon  Simultaneous symposia

Akimel O’otham 3, 4

Arthur Bauman Clinical Symposium
Presents advances in clinical investigation in thyroidology and promotes participation by younger members of the scientific community in honor of the memory of Arthur Bauman, clinician and clinical investigator.

Graves’ disease
Moderator: Elizabeth Pearce
Antithyroid drug therapy: how much, how long?  Leonard Wartofsky
Fetal Graves’ disease: diagnosis and treatment  Maureen Malee
Pediatric Graves’ disease  Steven G. Waguespack

Akimel O’otham 1, 2

Dysregulation of thyroid hormone transport and deiodinase expression
Moderator: Brian Kim
Cellular and molecular biology of MCT8  Theo Visser
Structure of the D3 gene and impact of imprinting  Arturo Hernandez
Mechanisms and consequences of ectopic D3 expression  Stephen A. Huang

Noon – 2:00 pm  Free Time

1:30 – 4:00 pm  Kave 1
ATA Alliance for Patient Education Public Forum and Workshops
American Thyroid Association, the Thyroid Foundation of America, the National Graves’ Disease Foundation, ThyCa: Thyroid Cancer Survivors’ Association, and the Light of Life Foundation
2:00 – 3:30 pm
Fellows Session
Case Presentations

2:00 – 3:30 pm
Simultaneous Sessions - Oral Abstracts

Akimel O'otham 3, 4
CLINICAL
Thyroid Cancer
Chairs: Stephanie Lee and Richard T. Kloos

Program Number 203 Thyroid Cancer Saturday Oral Clinical 2:00 pm
Spot Urine Iodine Levels Predict Iodine Depletion after Low-Iodine Diet
J. T. Rittenberry1, H. N. Nagaraja2, R. T. Kloos3, M. D. Ringel3
1Division of Endocrinology, The Ohio State University, Columbus, OH, USA; 2Department of Statistics, The Ohio State University, Columbus, OH, USA; 3Divisions of Endocrinology, Oncology, and Human Cancer Genetics, Ohio State University, Columbus, OH, USA

Program Number 204 Thyroid Cancer Saturday Oral Clinical 2:15 pm
Office-Based Ultrasound Detection of Differentiated Thyroid Cancer Recurrence: Location and Specific Sonographic Features Help Differentiate Malignant from Benign Lymph Nodes
B. Pazooki1, J. A. Fagin1, E. B. Silberstein2, Y. E. Nikiforov2, D. L. Steward4
1Division of Endocrinology and Metabolism, University of Cincinnati College of Medicine, Cincinnati, OH, USA; 2Department of Radiology - Nuclear Medicine, University of Cincinnati College of Medicine, Cincinnati, OH, USA; 3Department of Pathology, University of Cincinnati, Cincinnati, OH, USA; 4Department of Otolaryngology-Head and Neck Surgery, University of Cincinnati College of Medicine, Cincinnati, OH, USA

Program Number 205 Thyroid Cancer Saturday Oral Clinical 2:30 pm
Venous sampling for thyroglobulin levels: Implications for localizing differentiated thyroid cancer
E. Kebebew
Surgery, University of California, San Francisco, San Francisco, CA, USA

Program Number 206 Thyroid Cancer Saturday Oral Clinical 2:45 pm
Efficacy of Nodal Dissection for Treatment of Residual/Recurrent Papillary Thyroid Carcinoma
1Division of Endocrinology, Oregon Health & Science University, Portland, OR, USA; 2Department of Otolaryngology, Oregon Health & Science University, Portland, OR, USA; 3School of Medicine, Oregon Health & Science University, Portland, OR, USA

Program Number 207 Thyroid Cancer Saturday Oral Clinical 3:00 pm
Vascular Endothelial Growth Factor (VEGF) in Papillary and Follicular Thyroid Tumors
P. Vohra1, M. Prasad1, M. Slosar2, A. Fischer2, R. Quinlan3, M. Safran4, A. Khan5
1Pathology, University of Massachusetts Medical School, Worcester, MA, USA; 2Pathology, University Of Massachusetts Medical School, Worcester, MA, USA; 3Surgery, University of Massachusetts Medical School, Worcester, MA, USA; 4Endocrinology, University of Massachusetts Medical School, Worcester, MA, USA; 5Pathology, UMass Memorial Medical Center, Worcester, MA, USA

Program Number 208 Thyroid Cancer Saturday Oral Clinical 3:15 pm
Phase II study of oral histone deacetylase inhibitor SAHA in patients with metastatic thyroid cancer
1Divisions of Endocrinology, Oncology, and Human Cancer Genetics, Ohio State University, Columbus, OH, USA; 2Division of Endocrinology, The Ohio State University, Columbus, OH, USA; 3Hematology-Oncology, The Ohio State University, Columbus, OH, USA; 4CTEP, National Cancer Institute, Bethesda, MD, USA

Akimel O’otham 1, 2
BASIC
Thyroid Hormone Action
Chairs: Sheue-yann Cheng and Ronald Koenig
Post-Receptor Role for the Human CCR4-NOT Complex in Gene Activation by the Human Thyroid Hormone Receptor

X. Meng¹, M. Govindan², J. S. Mymryk⁴, C. L. Denis⁵, N. J. Krogan⁵, C. Boone⁵, P. G. Walfish¹
¹Medicine/Endocrine Division, Mount Sinai Hospital, University of Toronto Medical School, Toronto, ON, Canada; ²C.R.H.D.Q., Laval University, Quebec, QC, Canada; ³Departments of Experimental Oncology, Microbiology & Immunology, University of Western Ontario and London Regional Cancer Centre, London, ON, Canada; ⁴Department of Biochemistry and Molecular Biology, University of New Hampshire, Rudman Hall, Durham, NH, USA; ⁵Department of Molecular and Medical Genetics, Banting and Best Department of Medical Research, University of Toronto, Toronto, ON, Canada

Role of histone methyltransferases in gene regulation by thyroid hormone receptor during development

Y. B. Shi
Lab. of Gene Regulation and Development, NICHD, NIH, Bethesda, MD, USA

The nuclear receptor corepressor (NCoR) downregulates the signaling of phosphatidylinositol 3-kinase activated by a mutant thyroid hormone β receptor

F. Furuya, S. Y. Cheng
Laboratory of Molecular Biology, CCR, National Cancer Institute, Bethesda, MD, USA

Deletion of Thyroid Hormone Receptor beta Selectively Decreases Fatty acid Oxidation and Increases Glucose Oxidation in the Heart

D. D. Belke, B. T. Scott, W. Dillmann
Endocrinology and Metabolism, University of California, San Diego, San Diego, CA, USA

A Novel Mechanism for T3-mediated Cardiac Gene Expression

S. Danzi, P. Dubon, S. Klein
Medicine/Endocrinology, North Shore University Hospital/Feinstein Institute for Medical Research, Manhasset, NY, USA

Surgical complication of thyroid surgery and lymph node dissection

Moderator: Glenn Braunstein
Minimizing morbidity in the central neck
Gerard Doherty
Approach to the lateral neck
Douglas Evans
Evidence based therapy for hypoparathyroidism
Suzanne Jan de Beur

Thyroid hormone receptors: fundamentals and novel therapeutic tools

Moderator: J. Enrique Silva
Activation versus repression by TR during development
David Furlow
Thyroid Hormone analogues
John D. Baxter
Clinical trials with thyroid hormone analogues
Eugene Morkin

Abbott State of the Art Lecture
“Nuclear Receptors from Repression to Metabolism”
Mitchell A. Lazar, MD, PhD
University of Pennsylvania School of Medicine
Endocrinology, Metabolism & Diabetes
Philadelphia, Pennsylvania
7:30 – 11:00 pm  Grand Terrace, Akimel Lawn and Patio
Annual Gala Reception & Banquet (advance purchase required, admission by ticket only)

Presentation of The ATA Distinguished Service Award
In recognition and honor of a member who has made important and continuing contributions to the Association.

2006 Distinguished Service Awardee:
Sheue-yann Cheng, PhD
Laboratory of Molecular Biology
NIH
Bethesda, Maryland

Presentation of The 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.

2006 Pathophysiology Medal Awardee:
John T. Nicoloff, MD
USC School of Medicine
Los Angeles, California
Sunday, October 15, 2006

6:30 am – 11:00 am
ATA Fellows Track Room (See Fellows schedule posted daily)

6:30 am
Akimel 1,2
Breakfast

7:00 – 8:15 am
Akimel 1,2
Supported by an educational grant from Genzyme, Inc.
CME symposium
Clinical Challenges in Thyroid Cancer Management
Moderator: Gregory A. Brent
Micropapillary thyroid cancer: incidental finding or true disease? Elio Roti
Thyroglobulin positive patients: clinical significance and approach Steven Sherman
Ultrasound surveillance of lymph nodes: impact on outcome Richard T. Kloos

8:25 – 9:40 am Simultaneous Symposia

Akimel O’otham 3, 4
Public Health and the Thyroid
Moderator: John Morris
Assessing thyroxine bioequivalence: clinical implications and FDA policy James Hennessey
Potassium Iodide distribution for thyroid protection Elizabeth Pearce
Chernobyl: 20 years later R. Michael Tuttle

Akimel O’otham 1, 2
Advances in thyroid cell biology Dedicated to the memory of Alvin Taurog
Moderator: Peter Kopp
The search for thyroid cell stem cells Terry Davies
Intracellular trafficking and Endoplasmic Reticulum stress in thyrocytes Peter Arvan
Sodium/Iodide Symporter (NIS) – what have we learned in the last 10 years? Nancy Carrasco

9:40 – 11:00 am Coyote, Buzzard, Eagle
Fellows Session
Case Presentations

9:40 – 11:00 am Akimel O’otham 3, 4
Pathways of thyroid growth and tumorigenesis: regulation, models, and clinical application
Moderator: Ernest Mazzaferri
Signaling pathways that regulate thyroid growth and cell deathJudy Meinkoth
Mechanisms of thyroid tumorigenesis; role of signaling pathways James Fagin
Animal models of thyroid cancer and development of novel therapies Seungwon Kim
Translating mechanisms of thyroid tumorigenesis to clinical trials Matthew Ringel

11:00 am 77th Annual Meeting ends

Please pick up your CME certificate from the Registration Desk as you leave the meeting