73rd Annual Meeting of the American Thyroid Association
Omni Shoreham Hotel
Washington, DC
November 7-10, 2001

Wednesday, November 7, 2001

1:00 pm Regency Ballroom
Welcome and Introductions

William W. Chin	ATA President
Paul W. Ladenson	ATA Secretary
Wolfgang H. Dillmann	ATA Program Chair, Scientific
Michael M. Kaplan	ATA Program Chair, Clinical

1:15 - 2:00 pm Regency Ballroom
Keynote Clinical Address
Treatment of Hypothyroidism: What Is Optimal?
Anthony D. Toft, M.D.
Royal Infirmary of Edinburgh, Edinburgh, Scotland
Supported by an educational grant from Abbott Laboratories

2:00 - 3:00 pm Regency Ballroom
Plenary Session – Topic Highlights
Oral Abstract Presentations
Chairs: Wolfgang H. Dillmann and Gregory A. Brent

249 2:00 pm Clinical
RE-DEFINING THE MODERN STANDARD FOR OPEN THYROIDECTOMY
J.H. Yim, S.E. Carty
University of Pittsburgh School of Medicine, Pittsburgh, Pennsylvania, USA

Program Number 1 has been withdrawn

2 2:15 pm Cell Biology
TSH SERVES AS A NEGATIVE REGULATOR OF OSTEOBLAST AND OSTEOCLAST DEVELOPMENT AND FUNCTION AS DEMONSTRATED IN THE TSH RECEPTOR KNOCK-OUT MOUSE
R.C. Marians[1], E. Abe[1], X.B. Wu[1], H.C. Blair[2], M. Zaidi[1], T.F. Davies[1]
[1]Division of Endocrinology, Diabetes, and Bone Diseases, Mount Sinai Medical Center, New York, New York, and [2]Department of Pathology, University of Pittsburgh, Pennsylvania, USA

3 2:30 pm Thyroid and the Brain
VISUAL PROCESSING DEFICITS ASSOCIATED WITH PERINATAL AND NEONATAL THYROID HORMONE DEFICIENCIES
J. Rovet, G. Mirabella, C. Westall, A. Perrorn, K. Perlman
Hospital for Sick Children, Toronto, Ontario, Canada

Wednesday, November 7, 2001
Afternoon Session and Poster Plus – Regency Ballroom

4 2:45 pm Thyroid Hormone Metabolism

COCHLEAR DEFECTS AND DEAFNESS IN MICE LACKING TYPE II SELENODEIODINASE

D. Forrest[1], L. Ng[1], M. Kelley[2], M.J. Schneider[3], D.L. St. Germain[3], V.A. Galton[3]
[1]Department of Human Genetics, Mount Sinai School of Medicine, New York, New York; [2]National Institute of Deafness and Other Communication Disorders, National Institutes of Health, Rockville, Maryland; and [3]Departments of Medicine and Physiology, Dartmouth Medical College, Lebanon, New Hampshire, USA

3:00 - 4:00 pm Ambassador and Regency Ballrooms
Exhibits, Poster Review, and Coffee Break

Regency Ballroom
Review of Posters:
Program Numbers 5 to 40 (Poster Plus)
Program Numbers 41 to 100
Investigators available to discuss their posters

Poster Plus (Program Numbers 5 to 40):
These posters will be displayed from Wednesday at 3:00 pm through Friday at 1:00 pm

5 Autoimmunity

ESTABLISHMENT OF A NOVEL MURINE MODEL OF GRAVES' HYPERTHYROIDISM WITH INTRAMUSCULAR INJECTION OF ADENOVIRUS EXPRESSING THYROTROPIN RECEPTOR

Y. Nagayama, M. Furuyama-Kita, T. Ando, K. Eguchi, M. Niwa
Departments of Pharmacology 1 and Internal Medicine 1, Nagasaki University School of Medicine, Nagasaki, Japan

6 Autoimmunity

CTLA-4 AT-REPEAT POLYMORPHISM REDUCES THE INHIBITORY FUNCTION OF CTLA-4 IN GRAVES' DISEASE

M. Takara, T. Kouki, L.J. DeGroot
Thyroid Study Unit, Section of Endocrinology, Department of Medicine, University of Chicago, Chicago, Illinois, USA

Program Number 7 has been withdrawn

8 Autoimmunity

LACK OF ASSOCIATION BETWEEN THE VITAMIN D RECEPTOR GENE POLYMORPHISMS AND GRAVES' DISEASE IN THE UK

R. Nithiyananthan, J.M. Heward, A. Allahabadia, J.A. Franklyn, S.C.L. Gough
Division of Medical Sciences, Department of Medicine, University of Birmingham, Birmingham Heartlands, and Queen Elizabeth Hospital, Birmingham, United Kingdom

Poster Plus (Program Numbers 5 to 40) – Regency Ballroom
These posters will be displayed from Wednesday at 3:00 pm through Friday at 1:00 pm

9 Autoimmunity

INTERFERON-ã PRODUCTION IS AN ANTIGEN-SPECIFIC MARKER OF T CELL SENSITIZATION IN TSHR-DNA VACCINATED MICE BUT ITS ABSENCE DOES NOT ENHANCE ANTIBODY LEVELS

P.N. Pichurin, O.A. Pichurina, G.D. Chazenbalk, B. Rapoport, S.M. McLachlan
Autoimmune Disease Unit, Cedars-Sinai Research Institute and UCLA School of Medicine, Los Angeles, California, USA

10 Autoimmunity

THE MHC CLASS II REGION, CTLA-4 GENE AND OPHTHALMOPATHY IN GRAVES' DISEASE

A. Allahabadia, J. Heward, R. Nithiyananthan, S. Gibson, T. Reuser, P. Dodson, J. Franklyn, S. Gough
Division of Medical Sciences, University of Birmingham, Birmingham, United Kingdom

11 Cancer

EFFECTIVE AND NON-TOXIC GENETIC IMMUNOTHERAPY FOR METASTATIC MEDULLARY THYROID CARCINOMA USING ADENOVIRUS-MEDIATED TUMOR-SPECIFIC EXPRESSION OF INTERLEUKIN-12

M. Yamazaki, R. Zhang, L.J. DeGroot
Thyroid Study Unit, Section of Endocrinology, Department of Medicine, University of Chicago, Chicago, Illinois, USA

12 Cancer

DISTINCTIVE EXPRESSION OF STAT3 IN PAPILLARY THYROID CARCINOMA AND A SUBSET OF FOLLICULAR ADENOMAS

M. Trovato, M. Grosso, E. Vitarelli, R.M. Ruggeri, S. Alesci, F. Trimarchi, G. Barresi, S. Benvenga
Dip. di Patologia Umana & Sezione di Endocrinologia, Dip. Clinico Sperimentale di Medicina e Farmacologia, University of Messina, Messina, Italy

Program Number 13 will be displayed as a regular poster in the #50 slot

50 Cancer

TPO MEDIATES RADIOIODINE ORGANIFICATION WITH AND WITHOUT NIS EXPRESSION IN TRANSFECTED CANCER CELL LINES

A. Wenzel, G. Upadhyay, U. Loos
Department of Internal Medicine I, University of Ulm, and iZKF, Ulm, Germany

14 Cancer

GAIN OF 1q IS UNIQUE TO THE TALL CELL VARIANT OF PAPILLARY THYROID CANCER

V. Wreesmann, R. Ghossein, R. Tuttle, A. Shaha, R. Robbins, J. Shah, P. Rao, B. Singh
Laboratory of Epithelial Cancer Biology, Head and Neck Service, and Endocrinology Service, Memorial Sloan-Kettering Cancer Center, New York, New York, USA

Poster Plus (Program Numbers 5 to 40) – Regency Ballroom
These posters will be displayed from Wednesday at 3:00 pm through Friday at 1:00 pm

15 Cancer

RETINOIC ACID-INDUCED STIMULATION OF SODIUM IODIDE SYMPORTER EXPRESSION AND CYTOTOXICITY OF RADIOIODINE IN PROSTATE CANCER CELLS STABLY EXPRESSING THE SODIUM IODIDE SYMPORTER UNDER THE CONTROL OF THE PROSTATE-SPECIFIC ANTIGEN PROMOTER

C. Spitzweg[1], E.R. Bergert[2], C.Y.F. Young[3], D.J. Tindall[3], J.C. Morris[2]
[1]Klinikum Grosshadern, Medizinische Klinik II, Ludwig-Maximilians-University, Munich, Germany, and Departments of [2]Endocrinology and [3]Urology, Mayo Clinic, Rochester, Minnesota, USA

16 Cancer

THYROID HURTHLE CELL ADENOMAS CONTAIN A DELETION MUTATION IN COX1

E.-M. Abdo, U. Marti, P. Imesch, U. Bürgi, H. Gerber, H.-J. Peter
Research Division, General Internal Medicine, University, Bern, Switzerland

17 Cell Biology

FEEDBACK REGULATION OF ER CHAPERONES AND THYROGLOBULIN TRAFFICKING BY SECRETED THYROGLOBULIN IN CULTURED THYROCYTES

K. Kim, W. Abplanalp, S. Menon, B. Li, P. Kim
Division of Endocrinology, University of Cincinnati, Ohio, USA

18 Cell Biology

INHIBITORY INFLUENCE OF THE 3'-UNTRANSLATED REGION OF THE NIS-RNA ON THE EXPRESSION OF THE NIS GENE

T.L. Schmitt, C.R. Espinoza, U. Loos
Department of Internal Medicine I, University Clinic of Ulm, Germany

19 Cell Biology

2-METHOXYESTRADIOL (2-ME) INDUCES APOPTOSIS IN ANAPLASTIC THYROID CARCINOMA CELLS

P. Roswall[1], S. Bu[2], M. Landstrom[2], N-E. Heldin[1]
[1]Department of Genetics and Pathology, Rudbeck Laboratory, Uppsala University Hospital, and [2]Ludwig Institute for Cancer Research, Uppsala, Sweden

20 Cell Biology

GENES REGULATED BY TSH AND IODIDE IN CULTURED HUMAN THYROID FOLLICLES: ANALYSIS BY CDNA MICROARRAY

K. Yamazaki[1], E. Yamada[1], Y. Kanaji[1], K. Sato[2], K. Takano[2], T. Obara[2]
[1]Thyroid Disease Institute, Kanaji Hospital, Kita-ku, Tokyo, and [2]Institute of Clinical Endocrinology, Tokyo Women's Medical University, Shinjuku-ku, Tokyo, Japan

21 Cell Biology

A SPECTRUM OF DEFECTIVE FOLDING AND EXPORT OF CYSTEINE MUTANTS AND NON-CYSTEINE MUTANTS OF THYROGLOBULIN CAUSING CONGENITAL GOITER

B. Li, S. Menon, S. Hossain, W. Abplanalp, P. Kim
Division of Endocrinology, University of Cincinnati, Ohio, USA

22 Cell Biology

REGULATORY MECHANISMS OF STAT-3 (Y705) PHOSPHORYLATION BY TSH IN FRTL-5 CELLS

Y.J. Park, E.S. Park, T.Y. Kim, D.J. Park, W.B. Kim, M. Shong, B.Y. Cho
Department of Internal Medicine, Seoul National University College of Medicine, Seoul, Korea

24 Clinical

MYOSIN HEAVY CHAIN ISOFORM COMPOSITION OF SKELETAL MUSCLE IN HYPERTHYROID PATIENTS AND CHANGES IN THEIR RATIOS FOLLOWING TREATMENT

M. Brennan, J. Schimke, K. Nair
Division of Endocrinology and Metabolism, Mayo Clinic, Rochester, Minnesota, USA

25 Clinical

THE ACUTE EFFECT OF CALCIUM CARBONATE ON THE ABSORPTION OF LEVOTHYROXINE

N. Singh, S. Weisler, J.M. Hershman
Division of Endocrinology and Metabolism, Veterans Affairs Greater Los Angeles Healthcare System, UCLA School of Medicine, Los Angeles, California, USA

26 Clinical

EXPRESSION AND FUNCTIONS OF SOMATOSTATIN RECEPTORS IN ORBITAL FIBROBLASTS FROM PATIENTS WITH GRAVES' OPHTHALMOPATHY

O. Isozaki, T. Tsushima, Y. Nozoe, K. Kato, M. Nishimaki, M. Miyakawa, K. Takano, Y. Inoue
Department of Medicine, Tokyo Women's Medical University, and Eye Division, Olympia Medical Clinic, Tokyo, Japan

27 Clinical

UNEXPECTED CONTRIBUTIONS BY VARIOUS FORMS OF T4 TO MEASUREMENTS OBTAINED WITH HORMONE ANALOG FREE T4 ASSAYS

R.B. Wilcox, R. Wang, D.T. Asher, J.C. Nelson
Loma Linda University, School of Medicine, Loma Linda, California, and Quest Diagnostics' Nichols Institute, San Juan Capistrano, California, USA

28 Clinical

DOES CORTICOSTEROID THERAPY MODIFY THE LONG-TERM OUTCOME OF SUBACUTE THYROIDITIS?

G. Fatourechi, J. Aniszewski, S. Jacobsen, V. Fatourechi
Mayo Clinic, Division of Endocrinology, Rochester, Minnesota, USA

30 Thyroid and the Brain

A TRANSGENIC MOUSE EXPRESSING A MUTANT (beta) THYROID HORMONE RECEPTOR SHOWS DELAY IN CEREBELLAR DEVELOPMENT

C. Cayrou, J. Martel, D. Grouselle, J. Puymirat
Human Genetics Laboratory, CHUL Research Centre, Sainte-Foy, Quebec, Canada

Poster Plus (Program Numbers 5 to 40) – Regency Ballroom
These posters will be displayed from Wednesday at 3:00 pm through Friday at 1:00 pm

31 Thyroid and the Brain

ABNORMAL GROWTH OF CORTICOSPINAL AXONS INTO THE LUMBAR SPINAL CORDS OF HYT/HYT MICE WITH HYPOTHYROIDISM

J.-Y. Hsu[1], S.A. Stein[2,3], X.M. Xu[1]
[1]Anatomy and Neurobiology, Saint Louis University School of Medicine, St. Louis, Missouri; [2]Child Neurology, Pediatric Research and Neurogenetics, Eastern Maine Medical Center, Bangor, Maine; and [3]Neurology and Neurobiology, Children's Hospital, Orange, California, USA

32 Thyroid and the Brain

TRIIODOTHYRONINE ACTS DIRECTLY ON BRAIN MITOCHONDRIA TO INDUCE RELEASE OF CYTOCHROME C INDEPENDENT OF MITOCHONDRIAL PERMEABILITY TRANSITION

R. Singh, G. Upadhayay, A. Kapoor, M.M. Godbole
S.G. Postgraduate Institute of Medical Sciences, Lucknow, India

33 Thyroid Hormone Action

DETECTION OF DEIODINASE IN HUMAN THYROID AND SKELETAL MUSCLE TISSUES USING SERA OF GUINEA PIGS IMMUNIZED AGAINST PEPTIDE CORRESPONDING TO HUMAN TYPE 2 5?-DEIODINASE

I. Molnar[1], Z. Szombathy [2], I. Kovacs[2], J. Szentmiklosi[3]
[1]III Department of Internal Medicine and [2]Department of Pathology, Kenezy County and Teaching Hospital, and [3]Institute of Pharmacology, Medical University, Debrecen, Hungary

34 Thyroid Hormone Action

INCREASED UNCOUPLING PROTEIN SYNTHESIS IN BROWN FAT FROM HYPOTHYROID RATS ACCLIMATED TO COLD

A.A. Zaninovich, M. Raices, I. Rebagliati, C. Ricci, K. Hagmüller
Hospital de Clínicas and INGEBI, CONICET, Buenos Aires, Argentina

35 Thyroid Hormone Metabolism

IDENTIFICATION AND PARTIAL CHARACTERIZATION OF D3AS, A GENE TRANSCRIBED ANTISENSE FROM THE MAMMALIAN TYPE 3 DEIODINASE (DIO 3) GENE LOCUS

A. Hernandez, M.E. Martinez, W. Croteau, D.L. St. Germain
Dartmouth Medical School, Lebanon, New Hampshire, USA

36 Thyroid Hormone Metabolism

LOCALIZATION OF IODOTHYRONINE DEIODINASES TYPES I AND III IN CHICKEN CEREBELLUM

Verhoelst CHJ[1],Vandenborne K[1], Severi T[1], Zandieh Doulabi B[2], Bakker O[2], Kühn ER[1], Darras VM[1]
[1]Laboratory of Comparative Endocrinology, Zoological Institute, K.U. Leuven, Belgium, and [2]Laboratory of Endocrinology, AMC, Amsterdam, The Netherlands

37 Thyroid Hormone Metabolism

BODY COMPOSITION IN RELATION TO TOTAL BODY POTASSIUM AND BONE MINERAL DENSITY IN HYPERTHYROIDISM

M. Dittmar, H. Reber, G.J. Kahaly
Departments of Biology/Anthropology, Nuclear Medicine, and Endocrinology/Metabolism, Gutenberg University, Mainz, Germany

Program Numbers 38, 39, and 40 have been withdrawn

3:00 - 4:00 pm Ambassador and Regency Ballrooms
Exhibits, Poster Review, and Coffee Break

Regency Ballroom
Review of Posters:
Poster Plus (Program Numbers 5 to 40)
Program Numbers 41 to 100
Investigators available to discuss their posters

Program Numbers 41 to 100:

41 Autoimmunity
THE MECHANISM OF THYROGLOBULIN-INDUCED LYMPHOCYTIC THYROIDITIS MAY BE DIFFERENT FROM THAT OF IODIDE-INDUCED THYROIDITIS IN NONOBESE DIABETIC MICE LACKING INTERFERON REGULATORY FACTOR-1
Z. Jin, K. Mori, S. Hoshikawa, K. Fujimori, S. Ito, K. Yoshida
Division of Nephrology, Endocrinology and Vascular Medicine, Tohoku University School of Medicine, Sendai, Miyagi, Japan

Program Number 42 will be displayed on Thursday, November 8 after Program Number 165

43 Autoimmunity
POLYMORPHISM OF THE CTLA-4 GENE IS ASSOCIATED WITH AUTOIMMUNE HYPOTHYROIDISM IN THE UK
J. Heward, R. Nithiyananthan, A. Allahabadia, J.A. Franklyn, S. Gough
Department of Medicine, University of Birmingham, Queen Elizabeth Hospital, Edgbaston, Birmingham, United Kingdom

44 Autoimmunity
ESTABLISH GRAVES' ANIMAL MODEL WITH GENETIC IMMUNOLOGY METHOD
H. Liu, Y. Ding, Y. Wu, Z. Mi, J. Chen, M. Luo
Shanghai Institute of Endocrinology, Shanghai, China

Program Number 45 will be displayed on Thursday, November 8 after Program Number 165

46 Autoimmunity
THYROID PEROXIDASE ANTIBODIES: THEIR RELATION TO THYROGLOBULIN ANTIBODIES IN DIFFERENTIATED THYROID CANCER
C. Guillén, A. Gauna, G. Sartorio
División Endocrinología, Hospital J. M. Ramos Mejía, Buenos Aires, Argentina

Wednesday, November 7, 2001
Review of Posters 41 to 100 – Regency Ballroom

47 Autoimmunity

THE INFLUENCE OF IODINE PHYSIOLOGICAL DOSAGE ON ANTITHYROID IMMUNITY OF THE CHILDREN WITH ENDEMIC GOITER

O. Malievsky, D. Nurmukhametova
Bashkir State Medical University, Ufa, Russia

48 Autoimmunity

INTERFERON-ALPHA INDUCED PARATHYROID DYSFUNCTION

L.W. Greene, G. Tan
New York University Medical Center, New York, New York, USA

49 Cancer

ULTRASOUND-GUIDED PERCUTANEOUS ETHANOL ABLATION OF NECK NODAL METASTASES IN PATIENTS WITH PAPILLARY THYROID CARCINOMA DEFINITIVELY TREATED WITH SURGERY AND RADIOIODINE

I. Hay, W. Charboneau, B. McIver, B. Lewis, G. Thompson, C. Grant, C. Reading, J. Goellner
Mayo Clinic, Rochester, Minnesota, USA

Program Number 50 will be displayed as a Poster Plus in the #13 slot

13 Cancer

EXPRESSION OF THE RET/PTC1 ONCOGENE INHIBITS PROLIFERATION AND INDUCES APOPTOSIS OF POORLY DIFFERENTIATED HUMAN THYROID CANCER CELLS

E. Puxeddu, S. Nanni, S. Moretti, F. Moretti, A. Farsetti, M. Martinelli, A. Sacchi, F. Santeusanio, A. Pontecorvi
Department of Internal Medicine, University of Perugia; Laboratory of Molecular Oncogenesis, Regina Elena Cancer Institute, Rome; Institute of Neurobiology and Molecular Medicine, CNR, Rome; and Institute of Medical Pathology, Catholic University, Rome, Italy

51 Cancer

STABLE EXPRESSION OF RET/PTC3 IN FRTL-5 THYROID CELLS ENHANCES BASAL AND INSULIN STIMULATED ACTIVATION OF AKT/PKB

E. Miyagi, M. Saji, K.D. Burman, D. Singer, M.D. Ringel
MedStar Research Institute/Washington Hospital Center, Washington, DC, and National Cancer Institute, National Institutes of Health, Bethesda, Maryland, USA

Program Number 52 has been withdrawn

53 Cancer

METASTASES FROM HURTHLE CELL THYROID CANCER ARE FAR MORE AVID FOR FLUORODEOXYGLUCOSE THAN FOR RADIOIODINE

S. Sarkar, P. Pugliese, C. Palestro
Long Island Jewish Medical Center, New Hyde Park, New York, USA

54 Cancer

PPAR-(GAMMA) IS OVER-EXPRESSED IN TYPICAL FOLLICULAR THYROID CARCINOMA, BUT NOT IN THE HURTHLE-CELL VARIANT

M. Sahin, J.G. Powell, X.-L. Wang, T.G. Kroll, S.K.G. Grebe, J.R. Goellner, I.D. Hay, N.L. Eberhardt, B. McIver
Division of Endocrinology, and Department of Surgical Pathology, Mayo Clinic and Foundation, Rochester, Minnesota; Department of Pathology, Brigham and Women's Hospital, Boston, Massachusetts, USA; and Department of Pathology, Wellington School of Medicine, Wellington, New Zealand

55 Cancer

PRODUCTION OF A NOVEL PEPTIDE GHRELIN BY A HUMAN MEDULLARY THYROID CARCINOMA CELL LINE

N. Kanamoto, T. Akamizu, H. Hosoda, Y. Hataya, M. Saijo, K. Moriyama, M. Kojima, K. Kangawa, K. Nakao
Department of Medicine and Clinical Science, Kyoto University Graduate School of Medicine, Kyoto, Japan

56 Cancer

HURTHLE CELL CARCINOMA METASTASES FREQUENTLY CONCENTRATE RADIOACTIVE IODINE

M. Movshovich, A. Stojadinovic, B. Singh, A. Shaha, R. Ghossein, R. Robbins, R.M. Tuttle
Memorial Sloan-Kettering Cancer Center, New York, New York, USA

57 Cancer

HER2NEU EXPRESSION IN THYROID TUMORS

N. Perrier[1], R. Rich[2], M. Wong[3], P. Ituarte[3], O.H. Clark[3]
Departments of [1]General Surgery and [2]Anesthesia, Wake Forest University Baptist Medical Center, Winston-Salem, North Carolina, and [3]Department of Surgery, University of California San Francisco, San Francisco, California, USA

58 Cancer

ISOLATED NECK RECURRENCE OFTEN HERALDS DISEASE PROGRESSION IN OLDER PATIENTS WITH PAPILLARY THYROID CARCINOMA

R. Sharaf, R. Robbins, B. Singh, R. Ghossein, L. Hann, H. Felderman, R.M. Tuttle
Endocrinology and Head and Neck Surgery Services, Departments of Medicine, Surgery, Pathology, and Radiology, Memorial Sloan-Kettering Cancer Center, New York, New York, USA

Program Number 59 has been withdrawn

60 Cancer

UNIQUE GENE EXPRESSION PATTERNS IN FOLLICULAR-CELL DERIVED THYROID CARCINOMA

X-L. Wang, S.K.G. Grebe, I.D. Hay, G.B. Thompson, M.A. Trujillo, J.R. Goellner, N.L. Eberhardt, B. McIver
Division of Endocrinology, Department of Surgery, and Department of Surgical Pathology, Mayo Clinic, Rochester, Minnesota, USA; and Department of Pathology, Wellington School of Medicine, Wellington, New Zealand

61 Cancer

PRIMARY THYROID LYMPHOMAS: A 36-YEAR THYROID CANCER SERIES

J. Furlan, I. Rosen
Department of Surgery, University of Toronto, Ontario, Canada

62 Cancer

RECOMBINANT HUMAN TSH STIMULATION OF CIRCULATING THYROGLOBULIN MRNA LEVELS IN THE DETECTION OF EARLY STAGE THYROID CARCINOMA

X.W. Chen[1], M. Saji[1], P. Balducci-Silano[1], N. Hayre[1], R.M. Tuttle[2], J. Anderson[3], C. Spencer[4], K.D. Burman[1], M.D. Ringel[1]
[1]MedStar Research Institute/Washington Hospital Center, Washington, DC; [2]Department of Medicine, Memorial Sloan-Kettering Cancer Center, New York, New York; [3]Department of Clinical Investigation, Walter Reed Army Medical Center, Washington, DC; [4]Department of Medicine, Keck School of Medicine, University of Southern California, Los Angeles, California, USA

63 Cancer

MORBIDITY FOLLOWING CENTRAL COMPARTMENT REOPERATION FOR RECURRENT OR PERSISTENT THYROID CANCER

M. Kim, S. Mandel, Z. Baloch, V. Livolsi, J. Langer, L. DiDonato, S. Fish, R. Weber
Hospital of the University of Pennsylvania, Philadelphia, Pennsylvania, USA

64 Cancer

PERFORMANCE OF FINE NEEDLE ASPIRATION BIOPSY AND FROZEN SECTION IN WELL-DIFFERENTIATED THYROID CANCER

J. Furlan, I. Rosen
Department of Surgery, Mount Sinai Hospital, University of T oronto, Toronto, Ontario, Canada

65 Cancer

NUMERICAL CHROMOSOMAL AMPLIFICATIONS IN HURTHLE CELL CARCINOMA OF THE THYROID BY COMPARATIVE GENOMIC HYBRIDIZATION

N. Wada, D. Miura, Q-Y. Duh, O.H. Clark
Department of Surgery, Mount Zion Medical Center, University of California San Francisco, San Francisco, California, USA

66 Cancer

PAPILLARY THYROID CARCINOMAS HARBORING RET/PTC3 REARRANGEMENTS TEN TO TWELVE YEARS AFTER THE CHERNOBYL ACCIDENT ORIGINATE PREDOMINANTLY FROM THE GOMEL REGION

J. Figge, A. Pisarchik, G. Ermak, N. Kartel
Institute of Genetics and Cytology, Minsk, Belarus

67 Cancer

PRIMARY TYPE I THYROPLASTY DURING SURGICAL MANAGEMENT OF PATIENTS WITH DIFFERENTIATED OR MEDULLARY THYROID CANCERS

G. Clayman, J. Lewin
University of Texas M.D. Anderson Cancer Center, Houston, Texas, USA

68 Cancer

CHROMOSOMAL ABNORMALITIES IN THYROID LYMPHOMA

S. Fukata[1], F. Matsuzuka[1], M. Taniwaki[2], A. Miyauchi[1], K. Kuma[1], M. Sugawara[3]
[1]Kuma Hospital, Kobe, Japan; [2]Kyoto Prefectural University of Medicine, Kyoto, Japan; [3]West Los Angeles VA Medical Center and UCLA School of Medicine, West Los Angeles, California, USA

69 Cancer

THYROID MICROCARCINOMA: FINE-NEEDLE ASPIRATION DIAGNOSIS AND HISTOLOGIC FOLLOW-UP

G.C.H. Yang, V.A. LiVolsi, Z.W. Baloch
Departments of Pathology, New York University Medical Center, New York, New York, and University of Pennsylvania Medical Center, Philadelphia, Pennsylvania, USA

70 Cancer

LOW RADIATION HYPERSENSITIVITY TO THYROID CANCER

M. Woodcock[1], Y. Shi[2], M. Zou[2], M.J. Joiner[1], N.R. Farid[3]
[1]Grey Laboratory Cancer Research Trust, Mount Vernon Hospital, Northwood, Middlesex, United Kingdom; [2]King Faisal Specialist Hospital and Research Center, Riyadh, Saudi Arabia; and [3]Osancor Biotech Inc., Watford, Herts, United Kingdom

71 Cancer

SIMILAR RECURRENCE RATES IN PATIENTS WITH DIFFERENTIATED THYROID CANCER TREATED WITH LOBECTOMY VERSUS EXTENSIVE SURGERY: EXPERIENCE IN A COMMUNITY HOSPITAL

R. Sievert[1], S. Aytug[1], R. Amani-Yazdi[2], S. Pollack[3], L.E. Shapiro[1], F.A. Ross[4]
[1]Division of Endocrinology and Metabolism, Winthrop-University Hospital, SUNY School of Medicine at Stony Brook, Mineola, New York; [2]Division of Endocrinology and Metabolism, University of North Carolina School of Medicine, Chapel Hill, North Carolina; [3]Department of Decision Sciences, St. John's University, Jamaica, New York; [4]Department of Medicine, Mount Sinai School of Medicine, Elmhurst Hospital, Elmhurst, New York, USA

72 Cell Biology

TIE-2 AND ANGIOPOIETIN-1 EXPRESSION IN HUMAN THYROID TUMORS

N. Mitsutake, H. Namba, K. Ishigaki, H. Ayabe, S. Yamashita
Nagasaki University School of Medicine, Nagasaki, Japan

73 Cell Biology

REGULATION OF THE THYROID NA^+/I^- CO-TRANSPORTER BY THYROTROPIN AND IODINE IN VIVO

A.C.F. Ferreira, L.P. Lima, L.C. Cardoso, F.F. Turlão, R. Paulo, D. Rosenthal, D.P. Carvalho
Instituto de Biofísica Carlos Chagas Filho, Universidade Federal do Rio de Janeiro, Rio de Janeiro, Brazil

Program Number 74 has been withdrawn

75 Cell Biology

THE ANCIENT EVOLUTIONARY ORIGIN OF THE THYROTROPIN RECEPTOR C-FLANKING "ADD ON" SEQUENCES

V. Kaczur[1], I.A. Racz[2], N.R. Farid[1]
[1]Osancor Bionformatics Ltd, Watford, Herts, United Kingdom, and [2]Department of Evolutionary Zoology, University of Debrecen, Debrecen, Hungary

76 Cell Biology

GENETIC FACTORS IN SPORADIC NON-TOXIC GOITER: LACK OF ASSOCIATION WITH IMMUNE RESPONSE GENES

A. Allahabadia, J. Heward, R. Nithiyananthan, S. Gibson, J.A. Franklyn, S. Gough
Division of Medical Sciences, University of Birmingham, Birmingham, United Kingdom

77 Clinical

SYSTEMATIC STUDIES OF FREE T4 METHODOLOGIES USING CLINICALLY RELEVANT MODELS OF T4 VARIABILITY

J.C. Nelson, R. Wang, R.B. Wilcox
Loma Linda University School of Medicine, Loma Linda, California, and Quest Diagnostics' Nichols Institute, San Juan Capistrano, California, USA

78 Clinical

MEASUREMENT OF FREE T4 (FT4) LEVELS IN PRETERM (PT) INFANTS RECEIVING HEPARIN-SUPPLEMENTED PARENTERAL NUTRITION (HSPN): COMPARISON BETWEEN EQUILIBRIUM DIALYSIS (ED) AND A TWO -STEP RIA (2-RIA) METHOD

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79 Clinical

DIAGNOSIS AND TREATMENT OF GRAVES' PATIENTS WITH UNDETECTABLE TSH RECEPTOR ANTIBODIES (TRAB) DETERMINED BY PORCINE THYROCYTES: COMPARISON WITH TRAB AND THYROID HORMONE-RELEASING ACTIVITY DETERMINED BY HUMAN THYROCYTES

K. Sato, K. Yamazaki, E. Yamada, Y. Kanaji, E. Odagiri, K. Jibiki, A. Komori, K. Takano
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80 Clinical

THYROTOXICOSIS FACTITIA CAUSED BY DIET PILLS

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EVALUATING VARIATIONS OF BIOLOGICAL INDICATORS ON SUBJECTS USING ORAL IODIZED OIL FOR THE TREATMENT AND PREVENTION OF ENDEMIC GOITER IN VIETNAM

H. Uoc[1], T. Nguyen[1], Q. Luong[1], P. Singer[2]
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THREE YEARS EXPERIENCE WITH THE DANISH HYPER- AND HYPOTHYROIDISM REGISTER

I. Bülow Pedersen[1], P. Laurberg[1], N. Knudsen[2], T. Jørgensen[3], H. Perrild[2], L. Ovesen[4]
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PREDICTIVE VALUES OF PRETREATMENT TSH RECEPTOR ANTIBODIES IN PREDICTION FOR CLINICAL COURSES OF GRAVES' DISEASE TREATED WITH METHIMAZOLE

T.Y. Kim, Y.J. Park, H.K. Chung, D.J. Park, W.B. Kim, B.Y. Cho
Department of Internal Medicine, Seoul National University College of Medicine, Seoul, Korea

84 Clinical

PERCUTANEOUS ETHANOL INJECTION (PEI) TREATMENT FOR GRAVES' DISEASE: THREE-YEAR FOLLOW-UP STUDY

T. Yokozawa, A. Miyauchi, K. Kuma, S. Fukata, F. Matsuzuka, H. Ohye, T. Yokozawa
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85 Clinical

THYROID SIZE IS INCREASED DESPITE SUFFICIENT IODINE INTAKE AND GOOD NUTRITION. CAN THIS BE DUE TO THE EFFECT OF GOITROGENS OR JUST A RESIDUAL EFFECT OF IDD FOR A PROLONGED PERIOD?

S. Brahmbhatt, R. Brahmbhatt, C. Eastman, S. Boyages
Fremantle Hospital, Fremantle, Australia

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TRIIODOTHYRONINE (T3) SUPPLEMENTATION CAN HELP PATIENTS WITH HYPOTHALAMIC OBESITY TO LOSE WEIGHT

R. Sellin, M. Klein
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RELATIONSHIP OF GESTATIONAL AGE WITH THE NEONATAL URINARY IODINE EXCRETION AND THE THYROID VOLUME

I. Molnar[1], L. Csathy[2], G. Szasz[3]
[1]III Department of Internal Medicine, [2]Department of Pediatrics, and [3]Department of Radiology, Kenezy County and Teaching Hospital, Debrecen, Hungary

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INFLUENCING HEALTH CARE POLICIES WITH PUBLIC THYROID AWARENESS CAMPAIGNS IN BRAZIL: ITS IMPACT FOR THE POPULATION AND FOR THYROIDOLOGISTS

V. Guimaraes, G. Medeiros-Neto, H. Graf, M. Sucupira, L. Naves, M. Sampaio, R. Maciel, J. Romaldini
Brazilian Society of Endocrinology and Metabolism (SBEM), Brazil

89 Clinical

INDICATORS FOR THE ASSESSMENT OF IODINE DEFICIENCY DISORDERS IN BASHKORTOSTAN

O. Malievsky
Bashkir State Medical University, Ufa, Russia

90 Clinical

PATHOMORPHOSIS OF DIFFUSE NONTOXIC GOITER AMONG CHILDREN UNDER SALT IODIZATION PROGRAMME

O. Malievsky, D. Nurmukhametova
Bashkir State Medical University, Ufa, Russia

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IS HYPOTHERMIA USEFUL FOR SURGERY OF UNCONTROLLED SEVERE GRAVES' HYPERTHYROIDISM?

H. Kurihara, J. Sasaki, S. Tanimura
Kurihara Thyroid Clinic, Morioka, Iwate, Japan

92 Thyroid Hormone Action

THE EFFECT OF TRIIODOTHYRONINE ON GROWTH PARAMETERS AND CELL CYCLE REGULATORS IN THYROID HORMONE RESPONSIVE AND NONRESPONSIVE THYROTROPIC TUMORS

W.W. Woodmansee, V.D. Sarapura, D.J. Haakinson, J.M. Dowding, A.R. Gordon, D.F. Gordon, W.M. Wood, E.C. Ridgway
University of Colorado Health Sciences Center, Denver, Colorado, USA

93 Thyroid Hormone Action

COMPARATIVE EFFECTS OF THE THYROID HORMONE-BETA1 SELECTIVE AGONIST GC-1 or 3,5,3'-triiodo-L-THYRONINE (T3) ON CHOLESTEROL, METABOLIC RATE AND HEART RATE IN RATS

G. Grover[1], L. Sparano[1], P. Sleph[1], S. Adolfsen[1], M. Smith[1], T. Scanlan[2], J. Baxter[2]
[1]Bristol-Myers Squibb, Pennington, New Jersey, and [2]University of California San Francisco, San Francisco, California, USA

94 Thyroid Hormone Action

A NOVEL ASSAY TO MEASURE THYROID HORMONE-MEDIATED CARDIAC SPECIFIC GENE TRANSCRIPTION

S. Danzi, K. Ojamaa, I. Klein
North Shore-Long Island Jewish Research Institute/New York University School of Medicine, Manhasset, New York, USA

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96 Thyroid Hormone Action

NEUROPEPTIDE Y SUPPRESSED TRIIODOTHYRONINE-INDUCED RISE IN MITOCHONDRIAL RESPIRATION IN BROWN FAT OF HYPOTHYROID RATS

I. Rebagliati, C. Ricci, A.A. Zaninovich, C. Tang
University of Hong Kong and the University of Buenos Aires, Argentina

Program Number 97 has been withdrawn

98 Thyroid Hormone Metabolism

CENTRAL, ORGAN-LEVEL AND CELLULAR THYROID HORMONE REGULATION DYNAMICS: NORMAL AND "DYNAMIC DISEASE" BEHAVIOR, INCLUDING OSCILLATIONS AND CHAOS

J.J. DiStefano III, A. Chen
Biocybernetics Laboratory, University of California Los Angeles, Los Angeles, California, USA

99 Thyroid Hormone Metabolism

LEVOTHYROXINE THERAPY AND SERUM FREE THYROXINE AND FREE TRIIODOTHYRONINE CONCENTRATIONS

K.A. Woeber
Division of Endocrinology, University of California San Francisco, San Francisco, California, USA

100 Thyroid Hormone Metabolism

A STUDY OF ENDEMIC GOITER IN THE RUSSIAN NORTH-EAST

A. Gorbachev
International Scientific Center «Arktika», Russian Academy of Sciences, Magadan, Russia

136 Cancer

ACCURACY OF FINE NEEDLE ASPIRATION BIOPSY IN NODULAR THYROID DISEASES

J. Furlan, I. Rosen
Department of Surgery, Mount Sinai Hospital, University of Toronto, Toronto, Ontario, Canada

203 Cancer

SURGICAL MANAGEMENT FOR SUSPICIOUS CYTOLOGY OF NON-PAPILLARY THYROID NODULE BY FINE NEEDLE ASPIRATION BIOPSY

I.B. Rosen, J.C. Furlan
Department of Surgery, Mount Sinai Hospital, University of Toronto, Toronto, Ontario, Canada

Wednesday, November 7, 2001
Afternoon Session and Evening

4:00 - 5:00 pm Regency Ballroom

The Arthur Bauman Clinical Symposium

ATA established the fund for this Symposium in celebration and memory of the professional accomplishments and personal qualities of Dr. Arthur Bauman, a master clinician and clinical investigator. The Symposium presents advances in clinical investigation in thyroidology, and promotes participation by younger members of the Association.

T3 and IQ: From Brain Development to Care of the Pregnant Patient

Chair: Kenneth D. Burman

Thyroid Hormone and Brain Development	Grant W. Anderson
Pregnancy and Thyroid Status	Gregory A. Brent
Maternal Thyroid Deficiency and Cognitive Function of the Child	Robert Z. Klein

Supported by an educational grant from Abbott Laboratories

5:00 - 6:15 pm **Meet the Professor Workshop Suppers**

Advance purchase required; admission by ticket only

Diplomat Room
Subclinical Hyperthyroidism
Douglas Ross
Supported by an educational grant from Abbott Laboratories

Cabinet Room
Cytokines and Their Influence on Thyroid Function
James R. Baker, Jr.

Forum Room
Extra-Nuclear Mechanism of Thyroid Hormone Action
Paul J. Davis

Council Room
Treatment of Low T3 in NTI: Pros and Cons
Leslie J. DeGroot and Inder J. Chopra

Directors' Room
A Program for I-131 Dosimetric Treatment of Cancer Patients
Stephanie L. Lee

6:30 - 8:00 pm *Palladian Room and Terrace*
Welcome Reception