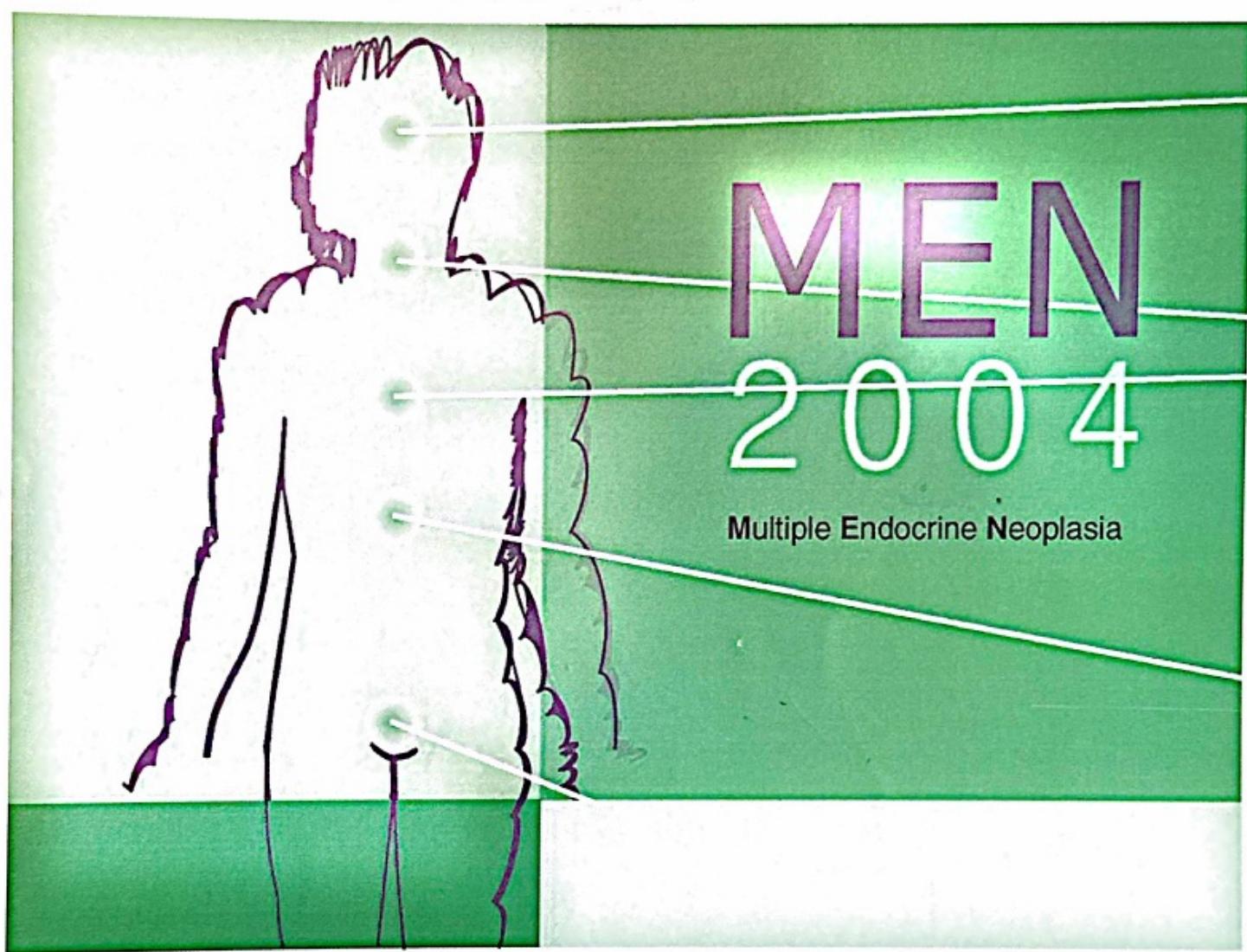


 Ninth International Workshop on Multiple Endocrine Neoplasia (MEN2004)

# PROGRAM

JUNE 20-23, 2004  
HYATT REGENCY HOTEL, BETHESDA, MD



# **Ninth International Workshop on Multiple Endocrine Neoplasia (MEN2004)**

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**June 20–23, 2004  
Hyatt Regency Hotel, Bethesda, MD**

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The National Institutes of Health/Foundation for Advanced Education in the Sciences (NIH/FAES) is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The NIH/FAES designates this educational activity for a maximum of 15.5 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.



## Acknowledgements of Sponsors and Grantors

# The 9<sup>th</sup> International Workshop on Multiple Endocrine Neoplasia is Grateful to:

### NIH Supporters

National Institute of Child Health and Human Development (NICHD)  
National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)  
Office of Rare Diseases (ORD)  
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### Co-Sponsorship from The Endocrine Society

## Agenda

Day 0: Sunday, June 20, 2004 (7:30 p.m.–10:00 p.m.). Registration, Reception, and posters.

Meeting day I: Monday, June 21, 2004 (8:00 a.m.–6:45 p.m.)

Meeting day II: Tuesday, June 22, 2004 (8:15 a.m.–6:00 p.m.)

Meeting day III: Wednesday, June 23, 2004 (8:30 a.m.–12:00 p.m.)

### Scientific (and other) Program

As prepared by the local (NIH) Steering Committee:

Constantine A. Stratakis and Stephen J. Marx

And the International Committee for MEN2004:

Jérôme Bertherat (Paris, France); Maria Luisa Brandi (Florence, Italy);

Charis Eng (Columbus, OH); William Farrell (Kent-on-Stokes, United Kingdom);

Robert Gagel (Houston, TX); Catharina Larsson (Stockholm, Sweden);

C.J.M. Lips (Utrecht, The Netherlands); Bin Teh (Grand Rapids, MI);

Rajesh Thakker (Oxford, United Kingdom)

Logistics by the American Institutes for Research

### Sunday, June 20, 2004

3:00–7:00 p.m. Registration at the Bethesda Hyatt Regency

4:00–10:00 p.m. Poster setup by presenters. All posters remain

7:30–10:00 p.m. Reception and posters; welcoming comments by Organizing Committee

### Monday, June 21, 2004

8:00 a.m. Opening Remarks

**Griffin Rodgers, M.D.**

Deputy Director

National Institute of Diabetes and Digestive and Kidney Diseases

National Institutes of Health

**Owen Rennert, M.D.**

Scientific Director, Division of Intramural Research

National Institute of Child Health and Human Development

National Institutes of Health

Introduction from Co-Organizer

**Constantine Stratakis, M.D., D.Sci.**

Acting Chief

Heritable Diseases Branch

National Institute of Child Health and Human Development

National Institutes of Health

**Monday, June 21, 2004 (continued)**

Tribute to Gerald Aurbach  
**Stephen Marx, M.D.**  
Chief, Metabolic Diseases Branch  
National Institute of Diabetes and Digestive and Kidney Diseases  
National Institutes of Health

8:15–9:00 a.m. **KEYNOTE SESSION I**  
**Chair: Maria Luisa Brandi, M.D., Ph.D.**  
Professor  
Department of Internal Medicine  
University of Florence  
Italy  
**Co-Chair: Joseph Verbalis**  
Director  
Division of Endocrinology and Metabolism  
Georgetown University Hospital

Endocrine Neoplasia Syndromes: From Phenotype to Genotype and Back  
**Allen Spiegel, M.D.**  
Institute Director  
National Institute of Diabetes and Digestive and Kidney Diseases  
National Institutes of Health

9:00–10:30 a.m. **Symposium 1: Pituitary**  
**Chair: Maria Luisa Brandi, M.D., Ph.D.**  
Department of Internal Medicine  
University of Florence  
Italy  
**Co-Chair: Joseph Verbalis, M.D.**  
Director  
Division of Endocrinology and Metabolism  
Georgetown University Hospital

9:00 a.m. Molecular Genetics of Pituitary Tumors  
**Dr. Rula Abbud, Ph.D.**  
Assistant Professor  
University of California Los Angeles/Cedars-Sinai Medical Center

9:20 a.m. FGF System in Endocrine Tumorigenesis  
**Shereen Ezzat, M.D.**  
Professor of Endocrinology and Metabolism  
University of Toronto  
Canada

**Monday, June 21, 2004 (continued)**

9:40 a.m.      **Epigenetic Mechanisms of Tumorigenesis**  
**William Farrell, Ph.D.**  
Reader and Head of Human Genomics  
North Staffs Hospital  
University of Keele  
United Kingdom

10:00 a.m.      **Familial Isolated Pituitary Adenomas**  
**Albert Beckers, M.D., Ph.D.**  
Professor of Endocrinology  
University of Sart-Tilman  
Belgium

10:20 a.m.      **Question and Answer Session**

10:30 a.m.      **Coffee Break**

11:00–1:00 p.m.      **Symposium 2: Thyroid**  
**Chair: Salvator Benvenga, M.D.**  
Professor  
University of Messina  
Italy  
**Co-Chair: Kenneth Burman, M.D.**  
Director of Endocrinology  
Washington Hospital Center

11:00 a.m.      **Prevention of Medullary Thyroid Cancer**  
**Samuel Wells, M.D.**  
Professor and Chair  
Department of Surgery  
Duke University School of Medicine

11:20 a.m.      **Consortia Experiences—Can We Cure MCT?**  
**Henning Dralle, M.D., FRCS**  
Professor  
Department of General Surgery  
University of Halle  
Germany

**Monday, June 21, 2004 (continued)**

11:40 a.m. RET Biology: A Guide to Phenotype and New Drugs  
**Robert Gagel, M.D.**  
Division Head, Internal Medicine  
M.D. Anderson Cancer Center  
The University of Texas

12:00 p.m. PTEN: A Class AKT  
**Charis Eng, M.D., Ph.D.**  
Professor and Director  
Human Cancer Genetics Program  
Department of Internal Medicine  
The Ohio State University

12:20 p.m. Signaling in Thyroid Tumorigenesis and Progression  
**Matthew Ringel, M.D.**  
Associate Professor  
Endocrinology, Oncology, and Human Cancer Genetics  
The Ohio State University

12:40 p.m. Question and Answer Session

1:00 p.m. Lunch on Your Own and Poster Viewing

2:00 p.m. Hot Topics/Oral Presentations Selected From Submitted Abstracts  
**Co-Chair: Constantine Stratakis, M.D., D.Sci.**  
Acting Chief  
Heritable Disease Branch  
National Institute of Child Health and Human Development  
National Institutes of Health  
**Co-Chair: Stephen Marx, M.D.**  
Chief, Metabolic Diseases Branch  
National Institute of Diabetes and Digestive and Kidney Diseases  
National Institutes of Health

2:00 p.m. Involvement of the cell cycle regulator P18/INK4C/CDKN2C in human  
medullary thyroid carcinoma development (Poster Board #3003)  
**Dennis Acton, M.D.**  
Department of Clinical Endocrinology  
University Medical Center Utrecht  
The Netherlands

**Monday, June 21, 2004 (continued)**

2:15 p.m. RET-FMTC mutants Y791F and S891A activate a Src/JAK/STAT3 pathway, independent of GDNF (Poster Board #3002.5)  
**Ivan Plaza Menacho, M.S., Ph.D. Candidate**  
Medical Genetic Department  
University of Groningen  
The Netherlands

2:30 p.m. Parafibromin is associated with a human Paf complex, histone H3 lysine 4 methyltransferase activity, and RNA polymerase II (Poster Board #5006)  
**Orit Rosen, Ph.D.**  
Dana-Farber Cancer Institute

2:45 p.m. Tissue specificity of a tumor suppressor: homozygous loss of menin is well tolerated in hepatocytes (Poster Board #7001)  
**Peter Scacheri, Ph.D.**  
Genome Technology Branch  
National Human Genome Research Institute  
National Institutes for Health

3:00–4:00 p.m. **Symposium 3: Parathyroid I**  
**Chair: C. E. "Gene" Jackson, M.D.**  
Division of Neurology  
Department of Medicine  
University of Texas Health Science Center at San Antonio  
**Co-Chair: Geoffrey Hendy, Ph.D.**  
Professor of Medicine  
Royal Victoria Hospital  
Calcium Research Laboratory  
Department of Medicine  
McGill University  
Canada

3:00 p.m. New Concepts in Clinical, Densitometric, and Biochemical Features of Primary Hyperparathyroidism  
**John Bilezikian, M.D.**  
Professor of Medicine of Endocrinology and Pharmacology  
College of Physicians and Surgeons  
Columbia University

3:25 p.m. Minimally Invasive Parathyroid Surgery in the Setting of MEN1 or MEN2a  
**Robert Udelesman, M.D., M.B.A., FACS**  
Professor and Chairman of Surgery  
Yale University School of Medicine

**Monday, June 21, 2004 (continued)**

3:50 p.m. Question and Answer Session

4:00 p.m. Break

4:30–6:00 p.m. **Symposium 4: Parathyroid II**  
**Chair: Rajesh Thakker, M.D., FRCP**  
Professor  
Oxford Center for Diabetes, Endocrinology, and Metabolism  
Oxford University  
United Kingdom  
**Co-Chair: Nick Hayward, M.D.**  
Lab Head  
Human Genetics Lab  
Queensland Institute of Medical Research  
Australia

4:30 p.m. Genetics of Parathyroid Tumors  
**Bin Teh, M.D., Ph.D.**  
Senior Scientific Investigator  
Laboratory of Cancer Genetics  
Van Andel Research Institute

4:55 p.m. *HRPT2* Gene Expression in Hyperparathyroidism-Jaw Tumor Syndrome and Parathyroid Cancer  
**Catharina Larsson, M.D., Ph.D.**  
Professor  
Department of Molecular Medicine  
Karolinska Hospital  
Sweden

5:20 p.m. Partnering and Functioning of the MEN1 Tumor Suppressor Gene  
**Sunita Agarwal, Ph.D.**  
Staff Scientist  
Metabolic Diseases Branch  
National Institute of Diabetes and Digestive and Kidney Diseases  
National Institutes of Health

5:45 p.m. Question and Answer Session

**Monday, June 21, 2004 (continued)**

6:00–6:45 p.m. **KEYNOTE SESSION II**

**Chair: Rajesh Thakker, M.D., FRCP**

Professor

Oxford Center for Diabetes, Endocrinology, and Metabolism

Oxford University

United Kingdom

**Co-Chair: Nick Hayward, M.D.**

Lab Head

Human Genetics Lab

Queensland Institute of Medical Research

Australia

6:00 p.m. Patterns and Consequences of Chromosomal Aneuploidy in Cancer Cells

**Thomas Ried, M.D.**

Chief, Section of Cancer Genomics

Center for Cancer Research

National Cancer Institute

National Institutes of Health

**Tuesday, June 22, 2004**

8:15–9:00 a.m. **KEYNOTE SESSION III**

**Chair: William Young, M.D.**

Professor of Medicine, Endocrinology, and Metabolism

Mayo Clinic

**Co-Chair: Masahide Takahashi, M.D., Ph.D.**

Professor

Department of Pathology

Nagoya University Graduate School of Medicine

Japan

8:15 a.m. Genetic Basis of Cancer of the Kidney: Disease-Specific Approaches to Therapy

**W. Marston Linehan, M.D.**

Branch Chief

Urologic Oncology Branch

Center for Cancer Research

National Cancer Institute

National Institutes of Health

**Tuesday, June 22, 2004 (continued)**

9:00–10:30 a.m. **Symposium 5: Adrenal Medulla in MENs**  
**Chair: William Young, M.D.**  
Professor of Medicine, Endocrinology, and Metabolism  
Mayo Clinic  
**Co-Chair: Masahide Takahashi, M.D., Ph.D.**  
Professor  
Department of Pathology  
Nagoya University Graduate School of Medicine  
Japan

9:00 a.m. Hypoxia Inducing Factors and Tumor Pathways  
**Patrick Maxwell, D.Phil., FRCP**  
Professor of Nephrology  
Imperial College London  
United Kingdom

9:25 a.m. Genetics of Paragangliomas and Pheochromocytomas  
**Anne-Paule Gimenez-Roqueplo, M.D., Ph.D.**  
Department of Molecular Genetics  
Hôpital Européen Georges Pompidou  
France

9:50 a.m. Current Approaches to the Biochemical Diagnosis, Localization, and Treatment of a Pheochromocytoma in Patients With MEN2  
**Karel Pacak, M.D., Ph.D., D.Sc.**  
Chief  
Unit on Clinical Neuroendocrinology  
Pediatric and Reproductive Endocrinology Branch  
National Institute of Child Health and Human Development  
National Institutes of Health

10:15 a.m. Question and Answer Session

10:30 a.m. Coffee Break

**Tuesday, June 22, 2004 (continued)**

11:00-12:30 p.m. **Symposium 6: Adrenal Cortex and MENs**

**Chair: J. Aidan Carney, M.D., Ph.D.**

Emeritus Consultant

Mayo Clinic

**Co-Chair: Andre Lacroix, M.D.**

Chairman and Professor

Department of Medicine

University of Montreal

Canada

11:00 a.m. Cellular Communication and Oncogenesis in the Adrenal

**Stefan Bornstein, M.D., Ph.D.**

Professor of Medicine

Vice Chair, Department of Endocrinology

University of Düsseldorf

Germany

11:25 a.m. Adrenocortical Tumors in Multiple Tumor Syndromes: From Germ Line to Somatic Diseases

**Jérôme Bertherat, M.D., D.Sc.**

Professor

Department of Endocrinology

Institut Cochin

France

11:50 a.m. Mouse Models of the Carney Complex: Tools for Dissecting the Roles of PRKAR1A in Tumorigenesis

**Lawrence Kirschner, M.D., Ph.D.**

Associate Professor of Medicine

Division of Endocrinology and Human Cancer Genetics Program

The Ohio State University

12:15 p.m. Question and Answer Session

12:30 p.m. Lunch on Your Own and Poster Viewing

**Tuesday, June 22, 2004 (continued)**

2:00–3:30 p.m. **Symposium 7: Tumorigenesis and Non-Classic MENs**  
**Chair: Philip Gorden, M.D.**  
Chief, Clinical and Cellular Biology Section  
Clinical Endocrinology Branch  
National Institute of Diabetes and Digestive and Kidney Diseases  
National Institutes of Health  
**Co-Chair: Massimo Santoro, M.D.**  
Professor  
Dipartimento di Biologia e Patologia  
Cellulare e Molecolare  
Universita' di Napoli "Federico II"  
Italy

2:00 p.m. Persistent Hyperinsulinemic Hypoglycemia of Infancy  
**Jean-Christophe Fournet, M.D.**  
Department of Pathology  
Sainte-Justine Hospital  
Canada

2:25 p.m. Peutz-Jeghers Syndrome and Endocrine Tumors  
**Nabeel Bardeesy, Ph.D.**  
Instructor  
Department of Medical Oncology  
Dana-Farber Cancer Institute  
Harvard Medical School

2:50 p.m. Question and Answer Session

3:00 p.m. *RET* Gene Involvement in Hirschsprung Disease  
**Aravinda Chakravarti, Ph.D.**  
Henry J. Knott Professor and Director  
Institute of Genetic Medicine  
Johns Hopkins University

3:25 p.m. Tumor Models in Drosophila: Application to MEN1  
**Allen Bale, M.D.**  
Associate Professor of Genetics  
Yale University School of Medicine

3:50 p.m. Question and Answer Session

4:05 p.m. Coffee Break

**Tuesday, June 22, 2004 (continued)**

4:35–6:00 p.m. **Symposium 8: Diagnosis, Treatment, and Counseling Issues for MENs**

**Chair: Hartmut P.H. Neumann, M.D.**

Professor

Division of Nephrology and Hypertension

Department of Medicine

Albert-Ludwigs University

Germany

**Co-Chair: Britt Skogseid, M.D., Ph.D.**

Professor

Section of Endocrine Oncology

Department of Internal Medicine

Uppsala University Hospital

Sweden

4:35 p.m. **Genetic Testing in a CLIA-Certified Clinical Diagnostic Laboratory**

**Sherri Bale, Ph.D.**

President and Clinical Director

GeneDx, Inc.

5:00 p.m. **Counseling in MEN Syndromes**

**C.J.M. Lips, M.D., Ph.D.**

Department of Clinical Endocrinology

UMC Utrecht

The Netherlands

5:25 p.m. **Question and Answer Session**

5:40–6:00 p.m. **Remarks by Members of the Organizing Committee**

**Poster Removal**

**Wednesday, June 23, 2004**

No Plenary or Poster Presentations

Optional NIH Tour (8:30 a.m.–12:00 noon)

8:15 **Board charter bus at Hyatt Hotel**

8:30–9:30 a.m. **Guided tour of NIH campus**

9:30 a.m. **Optional return to Hyatt Hotel by same bus. For full tour to 12:00, return by metro, taxi, or other.**

**Wednesday, June 23, 2004 (continued)**

9:30–10:45 a.m. Tour a major building on the NIH Campus

*Choose one of two*

(A) Guided walking visit in the NIH Clinical Center (A hospital with every patient in a Research Protocol) with 30 minute presentation in the Bunim Conference Room (9S-235-A) by

\*John Gallin, M.D., Director of the Clinical Center

*Or*

(B) Guided walking visit to the National Library of Medicine (world's largest). Learn about Online Databases. See special exhibit ("Changing Faces of Medicine") about women MDs

10:45–12:00 p.m. Visit an Endocrine program centered in the NIH Clinical Center:

*Choose one of three*

(C) Clinical weekly walking-rounds (8-West In-patient Unit) led by

\*Monica Skarulis, M.D., Director of NIH Inter-Institute Endocrine Training Program

(D) Marx lab in NIDDK (Building 10, Rooms 9C 216 and 9C 209)

(E) Stratakis lab in NICHD (Building 10, Rooms 10D-18)