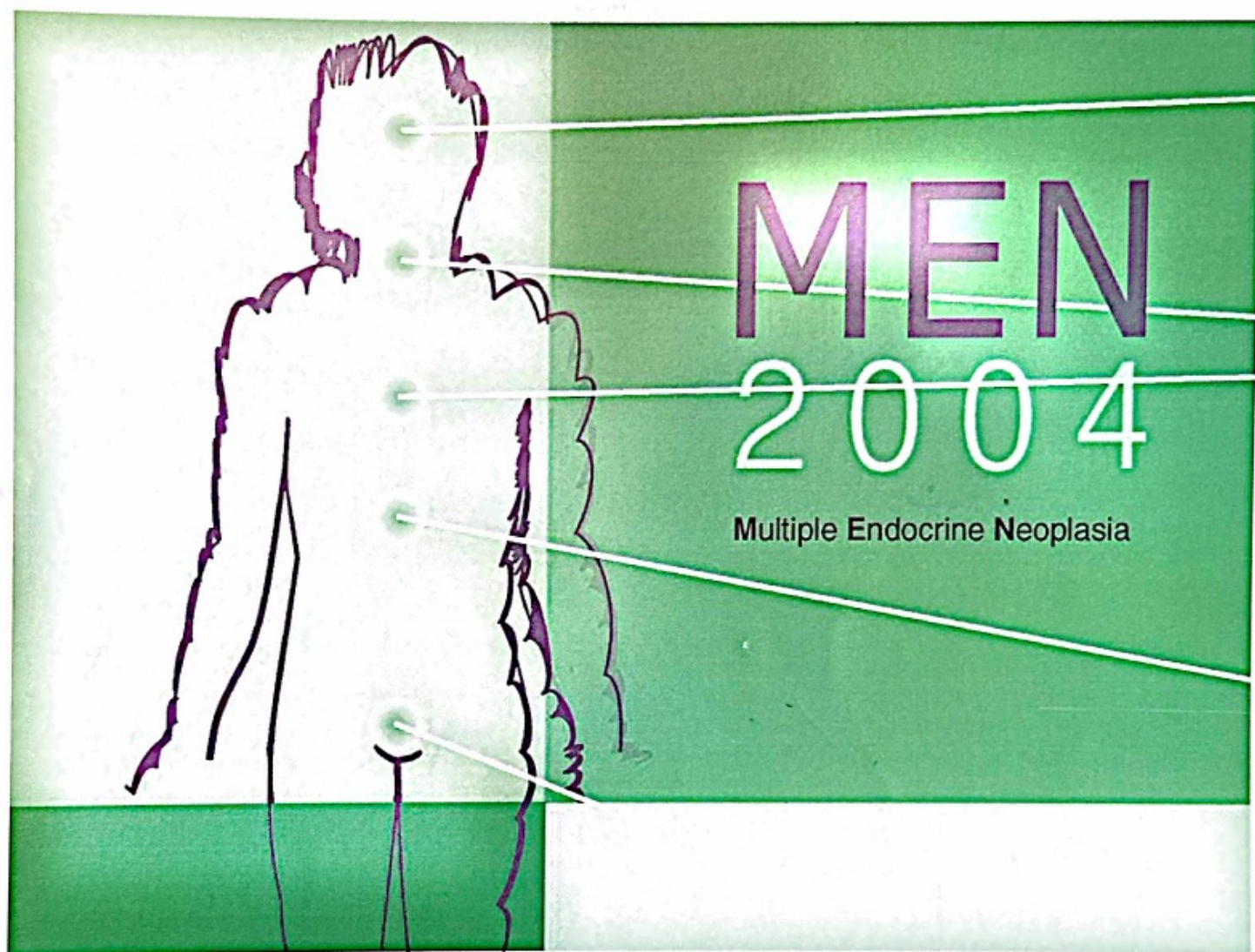


 Ninth International Workshop on Multiple Endocrine Neoplasia (MEN2004)

# P R O G R A M

---

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



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

---

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

---

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)  
National Human Genome Research Institute (NHGRI)  
National Cancer Institute (NCI)  
National Institute of Neurological Disease and Stroke (NINDS)  
National Institute of Dental and Craniofacial Diseases (NIDCR)

### Support from Outside NIH

Journal of Internal Medicine  
Pfizer  
Amgen  
NPS Pharmaceuticals  
Novartis  
Genentech

### 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 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 Udelsman, 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)