The Endocrine Society has served members in their pursuits for 100 years, and in 2016 we celebrate our commitment to cutting-edge science and delivering the best clinical care.

Join us at ENDO 2016 to celebrate the Society’s Centennial and prepare for the future with the most recent developments in endocrine research and practice.
Our collective passion as a community of clinical endocrinologists and scientists is the force that bridges innovative research to exceptional clinical care. Come to ENDO and honor the milestones of the past and get inspired by the latest innovations in the field. Hear from global experts, share knowledge and network with like-minded professionals, and stay on top of the rapidly changing world of endocrinology. Make sure you are a part of this special moment in history.
FEATURED CENTENNIAL PROGRAMMING AND EVENTS

Embracing our centennial theme, programming at ENDO will illuminate basic science discoveries that have translated into practice and improved patient care. Highlights include:

PRESIDENTIAL PLENARY

Nobel and Lasker Prize-winning endocrine researchers Banting, MacLeod, their collaborators Best and Collip, and Sanger will be remembered for the initial discovery of insulin and subsequent elucidation of its structure.

Douglas Melton will present his laboratory's latest advances in developing beta cells from induced pluripotent stem cell.

Edward Damiano will provide us with the very latest data from his group's development of a bionic pancreas.

CENTENNIAL SYMPOSIA

Global leaders will discuss advances in science and medicine and explore what the future holds in specially designed Centennial Symposia that embody the past, present, and future. Just look for the special program icon.

WHAT TO EXPECT BEYOND ENDO 2016

The Centennial year is our chance to raise the profile of endocrinology and the professionals working in hormone research and clinical endocrinology. Each month will honor our accomplishments and raise awareness of how endocrine research can lead to access to better healthcare, a more balanced body, and a healthier future for patients around the world suffering from endocrine diseases. Starting in January visit ESCentennial.org for more details.

1950: Nobel Prize in Physiology or Medicine is awarded to E. C. Kendall (Endocrine Society President, 1930-1931), T. Reichstein, and P. S. Hench for their work relating to the hormones of the adrenal cortex.

1951: First oral progestin, norethindrone, synthesized which subsequently leads to oral contraceptives C. Djerassi, L. Miramontes, and G. Rosenkrantz

1955: Nobel Prize in chemistry is awarded to V. du Vigneaud for his work on the first synthesis of a polypeptide hormone.

1959-60: Radioimmunoassay developed S. A. Berson and R. S. Yalow

1960: Enovid’s indications to include contraceptions approved by FDA

1967: Molecular Endocrinology first published

1978: World’s first test tube baby from use of in vitro fertilization therapy born R. Edwards

1982: Nobel Prize in Physiology or Medicine is awarded to S. K. Bergström, B. I. Samuelsson, and J. R. Vane for their work on prostaglandins.

2010: Hormones and Cancer first published

2012: Nobel Prize in Chemistry is awarded to R. J. Lefkowitz and B. K. Kobilka for studies of G-protein coupled receptors.
DEAR COLLEAGUES,

ENDO 2016 will showcase the Society’s Centennial Celebration. The Society has come a long way from June of 1916 when a group gathered at the American Medical Association’s meeting to explore creating a professional society for the fledgling field of endocrinology. The result was the founding of the Association for the Study of Internal Secretions, which was later changed to the Endocrine Society.

From the small charter group in 1916, the Society has grown to be home to more than 18,500 physicians and researchers from more than 120 countries. This year, we celebrate a century of success with special events and new activities.

ENRICH YOUR EXPERIENCE WITH PRECONFERENCE EVENTS

Come to Boston early and benefit from a fantastic line-up of preconference events. The Early Career Forum will boost your professional development as a researcher or clinician. Experts in the returning Diabetes Diagnosis & Management, Obesity Management Workshop, and Thyroid Ultrasound workshops will keep you to date with the latest in practice.

The Clinical Teaching Workshop makes its inaugural appearance for those of you interested in or already carrying out clinical teaching programs, and the highly engaging Type 1 Fellows Conference continues to teach early career clinicians.

EXPLORE CENTENNIAL TOPICS WITH GLOBAL EXPERTS

Visit the Centennial Wall to see how endocrinology has evolved. Find your favorite event, take photos, and see how your work has benefited from scientific exploration. These seminal discoveries and Nobel Prize-winning achievements will also be reflected in plenary sessions in honor of the Centennial. The line-up begins with Doug Melton examining stem cell therapy in diabetes and Ed Damiano presenting the latest achievements in the bionic pancreas in the Presidential Plenary. The line-up continues with discoveries in big data analysis, novel disease treatments, and new clinical insights to fill every curiosity and need.

Get special insights on the latest Clinical Practice Guidelines at ENDO. Hear task force experts speak on not yet released recommendations in diabetes technology, hypopituitarism, and pediatric obesity. You can also hear global leaders discuss advances in science and medicine and explore what the future holds in specially-designed Centennial Symposia that embody the past, present, and future of endocrinology. Just look for the special program icon.

MAKE THE MOST OF ENDO WITH SCIENCE PATHWAYS

We heard your feedback and have designed special Science Pathways, sessions within a specific topic to help you make the most of your time at ENDO. Check out details on Science Pathways in GPCRs, neuroendocrinology, and nuclear receptors. You can also learn what’s new in the Special Scientific Sessions on New Technology that includes optogenetics, DREADDS, ex vivo modeling, and CRISPR-Cas9.

CONNECT AND BUILD YOUR NETWORK

Join colleagues and unwind with Endocrine Science Socials, which will take place right outside of each evening symposia session. Socials are a perfect opportunity to find friends, make new ones, and meet the experts.

NEW MOC OPPORTUNITIES

We have more ways for you to earn MOC by attending sessions before and during ENDO. Diabetes Diagnosis & Management, Obesity Management Workshop, Thyroid Ultrasound, and the Clinical Teaching pre-conference workshops are now eligible for MOC, as are many clinical sessions including practice guideline sessions and select MTPs. ESAP Live also returns this year along with the new Pediatric ESAP Live session, both of which are eligible for MOC points.

With more than 9,000 colleagues, nearly 200 sessions, and 2,000 posters, ENDO 2016 is the perfect opportunity to hear the latest in endocrinology, connect with peers, and meet experts. The program is filled with opportunities for every attendee at any stage of their career. Your participation and contributions have made this possible and we hope you will join us in Boston to celebrate.

Carol H. Wysham, MD
ENDO 2016 Chair
Rockwood Clinic/University of Washington

Gary D. Hammer, MD, PhD
Clinical Science Chair
University of Michigan

Jenny A. Visser, PhD
Basic Science Chair
Erasmus Medical Center (Netherlands)

Michael T. McDermott, MD
Physician-in-Practice Chair
University of Colorado Hospital
CONTINUING MEDICAL EDUCATION (CME)

ACCREDITATION STATEMENT
The Endocrine Society is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The Endocrine Society has achieved Accreditation with Commendation.

The Endocrine Society anticipates this live educational activity will be certified for a maximum of 32.5 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Poster sessions at ENDO 2016 are not eligible for CME credit.

LATE-BREAKING ABSTRACTS
The Endocrine Society will accept late-breaking abstract submissions for ENDO 2016 from January 19, through February 17, 2016. The initiative is not a deadline extension but rather an endeavor to bring the very latest high-impact endocrine research to ENDO 2016.

Only abstracts detailing significant late-breaking results will be considered. A limited number will be accepted for presentation in a late-breaking oral or poster session.

Deadline is February 17, 2016, 1:00 PM ET (US).

Accepted abstracts can be viewed at endo.confex.com/endo/2016endo/webprogram/programs.html in February 2016.

HIGHLIGHT YOUR CLINICAL TRIALS RESEARCH
Showcase your work, recruit participants, and drive engagement at the world’s largest gathering of endocrinologists. Clinical trials accepted for abstract presentation at ENDO 2016 will have a new ability to highlight ongoing and future clinical trial recruitment to increase exposure.

Benefits of presenting at ENDO include:

- Peer review by top scientists in endocrinology
- Ability to advertise open recruitments
- Exposure at the world’s largest gathering of endocrinologists

MAINTENANCE OF CERTIFICATION (MOC)
The Endocrine Society is committed to helping you understand and meet your ABIM and ABP MOC requirements. To help meet requirements, ENDO 2016 now offers MOC for Diabetes Diagnosis & Management, Obesity Management Workshop, Thyroid Ultrasound, and the Clinical Teaching pre-conference workshops. MOC is also available for Clinical Practice Guideline sessions and select Meet-the-Professor sessions. See full program and details on MOC eligible sessions to take advantage of opportunities at ENDO 2016.

MOC UPDATE
SATURDAY, APRIL 2
10:00 – 11:00 AM
Keep up to date with what is new and what is needed to stay certified.

ESAP™ LIVE!
FRIDAY, APRIL 1
1:30 – 3:00 PM
SUNDAY, APRIL 3
10:00 – 11:30 AM
ESAPLive returns to ENDO by popular demand. Pre-order ESAP 2016 at a discounted rate and attend these complementary live sessions to learn directly from the authors of the latest edition of ESAP 2016, an ABIM-approved MOC activity. ABIM MOC available for these sessions.

NEW! PEDIATRIC ESAP™ LIVE!
SUNDAY, APRIL 3
11:45 AM – 1:15 PM
New to ENDO is the extension of ESAP Live to our pediatric-focused attendees. Add Pediatric ESAP 2015-2016 during registration to receive a discounted rate. Then join expert faculty to learn directly from the authors of this ABP-approved MOC activity. ABP MOC available for this session.
## SCHEDULE AT A GLANCE

### TUESDAY, MARCH 29 PRE-CONFERENCE

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
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<tbody>
<tr>
<td>8:00 AM – 8:30 PM</td>
<td>Endocrine Fellow Series: Type 1 Diabetes Care and Management</td>
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### WEDNESDAY, MARCH 30 PRE-CONFERENCE

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>8:00 AM – 5:30 PM</td>
<td>Endocrine Fellow Series: Type 1 Diabetes Care and Management</td>
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### THURSDAY, MARCH 31 PRE-CONFERENCE

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:30 AM – 1:30 PM</td>
<td>Introductory Hands-On Thyroid Ultrasound Workshop</td>
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<tr>
<td>7:30 AM – 5:30 PM</td>
<td>Advanced Hands-On Thyroid Ultrasound Workshop</td>
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<tr>
<td>8:00 AM – 6:00 PM</td>
<td>EndoCareers® Early Career Forum</td>
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<tr>
<td>9:00 AM – 4:30 PM</td>
<td>Diabetes Diagnosis &amp; Management</td>
</tr>
<tr>
<td>9:00 AM – 5:00 PM</td>
<td>Obesity Management Workshop</td>
</tr>
<tr>
<td>1:30 – 5:30 PM</td>
<td>Tools for Improving Your Clinical Teaching Workshop</td>
</tr>
<tr>
<td>6:00 – 7:30 PM</td>
<td>Early Career Forum Reception</td>
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### FRIDAY, APRIL 1

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:00 – 9:30 AM</td>
<td>Presidential Plenary</td>
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<tr>
<td>9:45 – 10:45 AM</td>
<td>Clinical Practice Guideline Session: Diabetes Technology</td>
</tr>
<tr>
<td>9:45 – 11:15 AM</td>
<td>Symposia</td>
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<tr>
<td>10:00 – 11:00 AM</td>
<td>International Seminar Series</td>
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<tr>
<td>10:30 AM – 3:30 PM</td>
<td>Expo Open</td>
</tr>
<tr>
<td>11:00 AM – 12:30 PM</td>
<td>ESAP-ITE Live</td>
</tr>
<tr>
<td>11:30 AM – 1:15 PM</td>
<td>Oral and Poster Preview Presentations</td>
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<tr>
<td>11:15 AM – 12:15 PM</td>
<td>Career Development Workshop</td>
</tr>
<tr>
<td>11:30 AM – 12:30 PM</td>
<td>Clinical “Year In” Session</td>
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<tr>
<td>12:15 – 1:15 PM</td>
<td>Basic “Year In” Session</td>
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<tr>
<td>12:45 – 1:45 PM</td>
<td>Expo Theaters</td>
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<tr>
<td>1:15 – 3:15 PM</td>
<td>Poster Viewing with Presenters</td>
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<tr>
<td>1:30 – 2:30 PM</td>
<td>Career Development Workshop</td>
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<tr>
<td>1:30 – 3:00 PM</td>
<td>ESAP Live</td>
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### SATURDAY, APRIL 2

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:00 – 9:00 AM</td>
<td>International Seminar Series</td>
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<tr>
<td>8:15 – 9:45 AM</td>
<td>Symposia</td>
</tr>
<tr>
<td>8:30 – 9:30 AM</td>
<td>Clinical Practice Guideline Session: Hypopituitarism</td>
</tr>
<tr>
<td>10:00 – 10:45 AM</td>
<td>Meet-the-Professor Sessions</td>
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<tr>
<td>10:00 – 11:00 AM</td>
<td>MOC Update</td>
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<tr>
<td>10:00 – 11:15 AM</td>
<td>Plenary</td>
</tr>
<tr>
<td>10:30 AM – 3:30 PM</td>
<td>Expo Open</td>
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<tr>
<td>11:30 AM – 12:30 PM</td>
<td>Clark T. Sawin Memorial History of Endocrinology Lecture</td>
</tr>
<tr>
<td>11:30 AM – 1:15 PM</td>
<td>Oral and Poster Preview Presentations</td>
</tr>
<tr>
<td>11:45 AM – 1:15 PM</td>
<td>Career Development Workshop</td>
</tr>
<tr>
<td>12:45 – 1:45 PM</td>
<td>Expo Theaters</td>
</tr>
<tr>
<td>1:15 – 3:15 PM</td>
<td>Poster Viewing with Presenters</td>
</tr>
<tr>
<td>1:30 – 3:00 PM</td>
<td>Health Disparities Forum</td>
</tr>
</tbody>
</table>
FOR MORE INFORMATION, VISIT ENDO2016.ORG

SUNDAY, APRIL 3

8:00 – 9:00 AM  International Seminar Series
8:15 – 9:45 AM  Symposia
8:30 – 9:30 AM  Clinical Practice Guideline: Pediatric Obesity
10:00 – 10:45 AM  Meet-the-Professor Sessions
10:00 – 11:15 AM  Plenary
10:00 – 11:30 AM  ESAP Live
10:30 AM – 3:30 PM  Expo Open
11:15 AM – 12:15 PM  Career Development Workshop
11:30 AM – 1:15 PM  Oral and Poster Preview Presentations
11:45 AM – 1:15 PM  Pediatric ESAP Live
12:45 – 1:45 PM  Expo Theaters
12:45 – 2:45 PM  Best of JCEM Session
1:15 – 3:15 PM  Poster Viewing with Presenters

MONDAY, APRIL 4

8:30 – 8:45 AM  Endocrine Society Business Meeting
8:45 – 9:45 AM  Plenary
9:00 – 9:45 AM  Meet-the-Professor Sessions
9:00 – 10:30 AM  Career Development Workshop
10:00 – 11:00 AM  Clinical “Year In” Session
10:00 – 11:30 AM  Oral Presentations
10:45 – 11:45 AM  Career Development Workshop
11:45 AM – 1:15 PM  Symposia
ANNUAL MEETING CONTRIBUTORS

ANNUAL MEETING STEERING COMMITTEE

Carol H. Wysham, MD
ENDO 2016 Chair
Rockwood Clin/Univ of Washington

Jenny A. Visser, PhD
Basic Science Chair
Erasmus Med Ctr (Netherlands)

Gary D. Hammer, MD, PhD
Clinical Science Chair
Univ of Michigan

Michael T. McDermott, MD
Physician-In-Practice Chair
Univ of Colorado Hosp

M. Susan Smith, PhD
Centennial Task Force Liaison
Oregon Natl Primate Res Ctr

David H. Abbott, BSc, PhD
Univ Wisconsin Natl Primate Res Ctr

Caroline M. Apovian, MD
Boston Med Ctr

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INSERM (France)

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Univ of Munich (Germany)

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MIR-PEI Inst of Med Res
Monash Univ (Australia)

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Nancy Carrasco, MD
Yale Sch of Med

Lisa Chow, MD
Univ of Minnesota

John A. Cidlowski, PhD
Natl Inst of Environ Hlth Scis/NIH

David A. D’Alessio, MD
Duke Univ Sch of Med

Richard Eastell, MD
Northern Gen Hosp (UK)

Peter R. Ebeling MBBS, MD
Monash Univ (Australia)

Carol Elias, PhD
Univ of Michigan

Ilpo Huhtaniemi, MD, PhD
Imperial Coll London (UK)

Joshua Klopper, MD
Univ of Colorado Sch of Med

Lawrence S. Kirschner, MD, PhD
Ohio State Univ

Stavroula Kousteni, PhD
Columbia Univ

John (Jack) Leahy, MD
Univ of Vermont Coll of Med

Adrian Lee, PhD
Univ of Pittsburgh Med Ctr

Stephanie Lee, MD, PhD
Boston Univ Sch of Med

Gina M. Leinninger, PhD
Michigan State Univ

Michael A. Levine, MD, FAAP
The Children’s Hosp of Philadelphia

Louis M. Luttrell, MD, PhD
Med Univ of South Carolina

Ana Maia, MS, MD, PhD
Univ Fed do Rio Grande do Sul (Brazil)

Yogeshwar Makanji, PhD

Erica E. Marsh, MD MSCI
Northwestern Univ Feinberg Sch of Med

Nelly Mauras, MD
Nemours Children’s Cln

Patrice E. Mollard, PhD
Ctr Nat de la Res Sci-INSERM (France)

Jane E. B. Reusch, MD
Univ of Colorado-Denver/Denver VAMC

Bernard Robaire, PhD
McGill Univ (Canada)

Agnes Schonbrunn, PhD
Univ of Texas-Houston Med Sch

Nalini Shah, DM
King Edward Mem Hosp (India)

Takashi Suzuki, MD, PhD
Tohoku Univ Grad Sch of Med (Japan)

Manuel Tena-Sempere, MD, PhD
Univ of Cordoba (Spain)

Jorma Toppari, MD, PhD
Univ of Turku (Finland)

Steven Waguespack, MD
Univ of Texas MD Anderson Cancer Ctr

Buient Yildiz, MD
Hacettepe Univ Sch of Med (Turkey)

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Vice President (Clinical Science)

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At Large

Alan C. Dalkin, MD
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Ana Claudia Latronico, MD, PhD
At Large

Mitchell A. Lazar, MD, PhD
At Large

Genevieve Neal-Perry, MD, PhD
At Large

Diane M. Robins, PhD
Basic Scientist Seat

R. Michael Tuttle, MD
Clinical Scientist Seat

Richard J. Auchus, MD
Ex-Officio (Nominating Committee Chair)

Lauren M. Fishbein, MD, PhD
Ex-Officio (Trainee and Career Development Core Committee Co-Chair)

Barbara Byrd Keenan, FASAE, CAE
Ex-Officio (Chief Executive Officer)
PLENARY SESSIONS

FRIDAY, APRIL 1
8:00 – 9:30 AM

PRESIDENTIAL PLENARY:
TECHNOLOGY AND DELIVERY BREAKTHROUGHS IN DIABETES

MAKING HUMAN PANCREATIC BETA CELLS FOR THE STUDY AND TREATMENT OF DIABETES
Douglas A. Melton, PhD, Harvard Univ

The differentiation of human pluripotent stem cells into functional insulin-producing cells has moved a step closer toward cell transplantation for diabetics. The stem cell-derived beta cells possess the major physiological properties of natural human beta cells and methods to protect them following transplantation into animal models will be discussed. In addition, studies using stem cell-derived beta cells from diabetic patients with different genetic backgrounds will be presented.

OUTPATIENT STUDIES TESTING AUTOMATED GLYCEMIC CONTROL WITH A BIONIC PANCREAS
Edward R. Damiano, PhD, Boston Univ

We have developed and extensively tested a bionic pancreas that delivers subcutaneous doses of insulin and glucagon to automatically regulate glycemia in people with type 1 diabetes. Results of our outpatient studies testing the current version of our bionic pancreas in adults and children with type 1 diabetes will be presented. A demonstration of our new device platform, which we call the iLet, will also be presented.

3:30 – 4:30 PM

BIG DATA DISCOVERIES AND CLINICAL ADVANCES IN ADRENAL DISEASE

STEROID METABOLOMICS AS A DISCOVERY TOOL
Wiebke Arlt, DSc, FRCP, FMedsSci, Univ of Birmingham (UK)

The balanced regulation of steroid metabolism and action is central to human health. We have developed steroid metabolomics as an innovative approach to the understanding of steroid biology by combining mass spectrometry-based steroid measurement with computational data analysis.

Over recent years steroid metabolomics has emerged as a powerful tool for elucidating disease mechanisms and developing personalized diagnostic and therapeutic strategies in patients with adrenal disorders including adrenal tumors and adrenal hormone excess.

LESSONS LEARNED FROM THE STUDY OF CONGENITAL ADRENAL HYPERPLASIA
Deborah P. Merke, MD, NIH

Following the introduction of life-saving glucocorticoid replacement 60 years ago, congenital adrenal hyperplasia has evolved into being recognized as a chronic condition affecting patients of all ages. Most of the adverse outcomes in treated patients are attributable to excessive levels of glucocorticoid and androgen. Novel advances in the treatment of CAH and important advances in understanding the genetic, hormonal, metabolic, and developmental aspects of the disease will be discussed.

SATURDAY, APRIL 2
10:00 – 11:15 AM

THE STUDY AND PRESERVATION OF FEMALE FERTILITY

BIOENGINEERING THE HUMAN OVARY
Teresa K. Woodruff, PhD, Northwestern Univ

Loss of functioning gonads as a consequence of genetic disorders or cancer treatment can lead to the loss of fertility in young patients. Moreover, pediatric patients and young adults may experience deteriorating bone, cardiovascular, and metabolic health due to loss of gonadal hormone production. This talk will discuss functional gonadal tissue prostheses we have engineered for natural hormone restoration and fertility that contribute to systemic health after disease.

TRANSLATIONAL BREAKTHROUGHS IN FERTILITY PRESERVATION: 20 YEARS OF PROGRESS
Kutluk Han Oktay, MD, New York Med Coll

The last two decades witnessed remarkable advances in fertility preservation, which include the development of ovarian cryopreservation and transplantation, aromatase inhibitor protocols for breast cancer patients, and oocyte vitrification, all as a result of successful translational research. Furthermore, important observations during fertility preservation for cancer patients led to the discovery of the relationship between BRCA mutations, DNA repair, and ovarian aging. This talk will discuss these breakthroughs, current successes, future directions, and broader implications for curbing reproductive aging.

FOR MORE INFORMATION, VISIT ENDO2016.ORG
Marrow adipose tissue (MAT) accumulates in diverse clinical conditions but the functional consequences remain poorly understood. Expansion of MAT with calorie restriction helps explain the elevated circulating adiponectin observed under these conditions. Region-specific variation in marrow adipocyte development, regulation, size, lipid composition, gene expression, and genetic determinants suggests two distinct MAT depots — a regulated MAT and a constitutive MAT. Consideration of these MAT subpopulations may be important for future studies linking MAT to bone biology, hematopoiesis, and whole-body metabolism.

ECTOPIC ADIPOSE ACCUMULATION IN LIPODYSTROPHY: MOLECULAR INSIGHTS AND CLINICAL IMPLICATIONS

This talk will review molecular mechanisms and clinical consequences of ectopic adipose tissue in lipodystrophy, discussing acquired and genetic models of acquired lipodystrophy. Unique depot-specific molecular pathways of abnormal adipose physiology will be reviewed, including pathways of altered adipogenesis and brown fat formation. In addition, treatment strategies will be reviewed, with a focus on the development of a GHRH analogue to selectively reduce visceral fat in HIV lipodystrophy, a condition of altered pulsatile GH secretion.

New discoveries of multigenerational health consequences of developmental exposure to endocrine disrupting chemicals will be reviewed. Consequences for reproduction, neurodevelopment, metabolic disorders, cardiovascular disease, and cancer will be addressed.

The significance of these new findings for the future of biomedical research, public health prevention and social policy will be discussed.

Over the past decade, the knowledge of genomic drivers of thyroid cancer development has greatly expanded. Key questions remain to be solved regarding mechanisms involved in thyroid cancer metastatic progression and therapeutic resistance that have important clinical implications.

This plenary focuses on the genomic alterations and critical pathways involved in thyroid cancer progression.
NEW INSIGHTS IN GENETICS
TO DIAGNOSE THYROID CANCER
Barbara M. Jarzab, MD, PhD, Maria Sklodowska-Curie Mem Cancer Ctr and Inst of Oncology (Poland)

Dynamic progress in understanding of the molecular pathogenesis of thyroid carcinoma, noticed during the recent years, has resulted in an increasing introduction of molecular genetics for its diagnosis, especially when fine needle aspiration biopsy fails to unequivocally exclude or confirm thyroid malignancy. Another important issue is related to the use of molecular markers as prognostic and predictive factors to properly assess the risk class before any relevant therapeutic decision avoiding under- or overtreatment. This talk will discuss new developments and insights in the use of genetics to diagnose thyroid cancer.

MONDAY, APRIL 4
8:45 – 9:45 AM

NEW SIGNALING PATHWAYS AND NOVEL APPROACHES FOR TREATING METABOLIC BONE DISEASE
MACROPHAGES AS MEDIATORS OF BONE HEALTH AND PTH ACTIONS
Laurie K. McCauley, DDS, PhD, Univ of Michigan Sch of Dent

Myeloid lineage cells in the bone microenvironment termed osteal macrophages have emerged as vital mediators of bone remodeling. Animal models with altered macrophage function have associated alterations in bone formation and bone mass. Anabolic actions of PTH are dependent on osteal macrophages. The specific macrophage function of efferocytosis has been identified for its mechanistic role in stimulating bone formation and regeneration and can be manipulated pharmacologically. The importance of macrophage cellular actions will be highlighted during inflammatory states, osseous wound healing, and regeneration.

CLARK T. SAWIN MEMORIAL HISTORY OF ENDOCRINOLOGY LECTURE
SATURDAY, APRIL 2, 2016
11:30 AM – 12:30 PM
D. Lynn Loriaux, MD, PhD, Oregon Hlth and Sci Univ

Dr. D. Lynn Loriaux is the 2016 Delbert A. Fisher Research Scholar, and will present the Clark T. Sawin Memorial History of Endocrinology Lecture, the Endocrine Society’s annual reflection on the history of our field.

A BIOGRAPHICAL HISTORY OF ENDOCRINOLOGY
This talk will recount the history of how “A Biographical History of Endocrinology” came into being, beginning in 1989 with the development of a clinical endocrinology journal with Williams and Wilkins, and the emphasis of that journal on the history of endocrinology. The biographies of several lesser known figures presented in the book will also be explored ending with the history of Fuller Albright’s life as it appears in “A Biographical History of Endocrinology”.

The Endocrine Society thanks Dr. and Mrs. Delbert A. Fisher for their generous support which makes this award possible. Applications for the Delbert A. Fisher Scholar Award are solicited in the spring of the preceding year.
ENDOCRINE FELLOWS SERIES
TUESDAY, MARCH 29
8:00 AM – 8:30 PM
WEDNESDAY, MARCH 30
8:00 AM – 5:30 PM
TYPE 1 DIABETES CARE AND MANAGEMENT
This conference, held prior to ENDO 2016, is open to all pediatric and adult endocrine fellows enrolled in an accredited fellowship program. Fellows attend breakout discussion sessions, clinical case presentations, and networking sessions with expert faculty over the two-day program. Sessions include sick day and hospital management, insulin pumps and CGM, psychosocial factors, transitional care, and more.

Awardees receive travel support to attend the conference and complimentary registration to ENDO 2016 as well as the Early Career Forum which will be held on Thursday, March 31. Full program and application instructions are available online at endocrine.org/t1dfellows.

Application required. Deadline is Friday, January 29, 2016

HANDS-ON THYROID ULTRASOUND WORKSHOPS
THURSDAY, MARCH 31
For more than ten years, the Endocrine Society has provided the latest advancements in thyroid imaging with a practical, hands-on approach. Advanced and Introductory workshops offer lessons on diagnostic ultrasound techniques. The advanced workshop allows current practitioners with experience in performing thyroid ultrasound to focus on the use of ultrasound for examination of the cervical lymph nodes and parathyroid adenomas including demonstrations of real-time imaging of patient volunteers. The introductory workshop is designed for participants looking to begin using ultrasound in diagnosing thyroid nodules and performing ultrasound-guided fine-needle aspirations. ABIM MOC available for these workshops.

INTRODUCTORY HANDS-ON THYROID ULTRASOUND WORKSHOP
7:30 AM – 1:30 PM
REGISTRATION FEES:
Member ..................................... $375
Nonmember .................................. $445
In-Training Member/Early Career Member/Nurse ...... $260

ADVANCED HANDS-ON THYROID ULTRASOUND WORKSHOP
7:30 AM – 5:30 PM
REGISTRATION FEES:
Member ..................................... $425
Nonmember .................................. $495
In-Training Member/Early Career Member/Nurse ...... $295

DIABETES DIAGNOSIS & MANAGEMENT 2016
THURSDAY, MARCH 31
9:00 AM – 4:30 PM
This workshop focuses on current issues in clinical diabetes management. The interactive program is led by expert faculty and provides state-of-the-art updates on cardiometabolic co-morbidities and new treatment options. Participants engage in case discussions, hear from renowned diabetes clinicians and researchers, and join Meet-the-Professor sessions. ABIM MOC available for this workshop.

PROGRAM CHAIRS:
John L. Leahy, MD, Univ of Vermont Coll of Med
Jane E. B. Reusch, MD, Univ of Colorado-Denver/ Denver VAMC
Carol H. Wysham, MD, Rockwood Clin/Univ of Washington

PROGRAM:
Plenary: Assessment of Cardiovascular Risk in Diabetes: A Cardiologist’s Perspective
Symposium: Clinical Trials
• Legacy Effect, Timing, and Duration of Glycemic Control: What Can We Learn From the Long-Term Cardiovascular Trials?
• Goals for Blood Pressure and Lipids: How Did We Get There?
• Where Does Bariatric Surgery Fit in the Treatment and Cure of Diabetes?

Repeating Meet-the-Professor Sessions
• Management of Diabetic Peripheral Neuropathy
• Kidney Disease
• Management of Lipids in Patients with Diabetes
• Technological Advances in the Treatment of T1DM
• T1DM Management in Children

Symposium: Type 1 Diabetes
• Science of Autoimmune Pathogenesis of Diabetes
• Current Status for Prevention and Early Intervention Trials in Type 1 Diabetes
• Biology of Fetal Islet Beta-Cell Development and Feasibility of Stem Cell Therapy

Schedule subject to change.

REGISTRATION FEES:
Member ..................................... $55
Nonmember .................................. $99
In-Training Member/Early Career Member/Nurse ...... $45
RETURNING FOR THE 2ND YEAR!

OBESITY MANAGEMENT

WORKSHOP 2016

Co-sponsored by The Obesity Society

THURSDAY, MARCH 31

9:00 AM – 5:00 PM

Returning for a second year, this popular workshop focuses on advanced practice challenges and highlights emerging treatment therapies and strategies for preventing, diagnosing, and managing obesity. Participants engage in case discussions, hear from experts, and join Meet-the-Professor sessions. ABIM MOC available for this workshop.

PROGRAM CHAIRS:
Richard L. Atkinson, Jr., MD, Virginia Commonwealth Univ
Daniel H. Bessesen, MD, Univ of Colorado Sch of Med
Marc-Andre Cornier, MD, Univ of Colorado Sch of Med
William T. Donahoo, MD, Kaiser Permanente Colorado/Univ of Colorado Sch of Med

PROGRAM:
Opening Plenary: Mechanisms Underlying Weight Loss with Bariatric Surgery: Lessons from Animal Models
Symposium: Lifestyle Considerations
  • What’s the Best Diet for Weight Loss?
  • How to Use Commercial Weight Loss Programs to Treat Obesity in Private Practice
  • Weight Bias: Implications for Clinical Practice
Repeating Meet-the-Professor Sessions
  • Cases for Pharmacotherapy
  • Co-Management of Obesity and T2DM
  • How Do I Get My Patients to Move?
  • Managing Obesity and Pregnancy
  • How to Set Up an Obesity Clinic in Private Practice
  • Peri-Operative Management of the Bariatric Surgery Patient
Symposium: Pharmacotherapy and Surgery
  • Evidence-Based Pharmacotherapy for Obesity
  • Obesity Surgery: Mechanisms of Action and Results of Treatment
  • New Weight Loss “Devices”
Closing Plenary: Gut Hormones and Obesity: Etiology and Potential Drug Treatments

Schedule subject to change.

REGISTRATION FEES:
TOS/ES Member ................................ $55
Nonmember ................................... $99
TOS/ES In-Training Member/Early Career Member/Nurse . $45

NEW! TOOLS FOR IMPROVING YOUR CLINICAL TEACHING WORKSHOP

THURSDAY, MARCH 31

1:30 – 5:30 PM

This half-day workshop, offered in partnership with APDEM, features the Clinical Teaching program from the Stanford Faculty Development Center and is designed to enhance teaching versatility, improve on ability analysis using an educational framework, and provide a forum for an exchange on teaching. Participants will engage in expert presentations, group discussions, video reviews, worksheet exercises, and personal goal setting. ABIM MOC available for this workshop.

REGISTRATION FEES:
Member ...................................... $75
Nonmember .................................. $125
In-Training Member/Early Career Member/Nurse ....... $75

Diabetogenic Activity of Pituitary Extracts

B. A. Houssay
ENDOCAREERS® EARLY CAREER FORUM

THURSDAY, MARCH 31
8:00 AM – 6:00 PM

The Early Career Forum is an opportunity for select postdoctoral fellows, clinical fellows, medical students, and graduate students to interact with their peers and recognized experts in the endocrine community. The program includes plenary lectures on translational endocrine research and two concurrent tracks of educational sessions.

REGISTRATION FEE:
In-Training Member/Early Career Member/Nurse and Nonmember ............................... $125

PROGRAM:
ENDO A to Z: How to Get the Most Learning Possible from Attending the Annual Meeting.

CAREERS SYMPOSIA
Clinical: How Did I Get Here? A Personal Journey
Basic Science: Career Choices — What Are Your Options?

CAREERS BREAKOUT SESSIONS
Clinical Careers (sessions repeat)
• Careers Options for Clinical and Basic Scientists (joint session)
• Careers in Clinical Investigation
• Careers in Clinical Medicine

Basic Science Skills (sessions repeat)
• Tips and Tools for Planning the Next Steps: Interviewing and Job Seminars
• Transitioning from PhD to Postdoc and Beyond
• Tips for Getting Your Work Published (joint session)

Pre-Conference Events (continued):

Thiouracil Therapy First Used to Treat Hyperthyroidism
E. B. Astwood

1943
**CONFERENCE MEETINGS AND EVENTS**

**CAREER CENTER**
Come to the Career Center at ENDO 2016 to exchange ideas, information, and experiences! The Career Center is the hub of activity and meeting space for young endocrinologists attending ENDO. Plan your day of scientific and career development sessions, participate in the new innovative crowdsourcing activities, or enjoy a few quiet minutes before heading off to your next session. The Career Center will host the Career Development Workshops which provide tips and tools on how to navigate your career.

**CAREER DEVELOPMENT WORKSHOPS**

**FRIDAY, APRIL 1**
11:15 AM – 12:15 PM
Setting Up and Managing Your Lab
1:30 – 2:30 PM
Setting Up and Negotiating Your Clinical Practice

**SATURDAY, APRIL 2**
11:45 AM – 1:15 PM
Careers in Industry
*Hosted by the Corporate Liaison Board of the Endocrine Society*
1:30 – 3:00 PM
The Mentor-Mentee Relationship
*Co-sponsored by Women in Endocrinology*

**SUNDAY, APRIL 3**
11:15 AM – 12:15 PM
Negotiations: Basic and Clinical Research
1:30 – 3:00 PM
Mock Study Section

**NEW! INTERNATIONAL SEMINAR SERIES**
EndoCareers® is hosting a series of education and networking sessions to provide international clinical fellows key strategies on navigating US fellowships to engage, educate, and support early career endocrinologists.

**APPROACHES TO SECURING SALARY SUPPORT FOR RESEARCH WORLDWIDE**
**FRIDAY, APRIL 1**
10:00 – 11:00 AM

**APPROACHES TO SECURING A US RESEARCH FELLOWSHIP**
**SATURDAY, APRIL 2**
8:00 – 9:00 AM

**PRACTICAL ISSUES FOR INTERNATIONAL CLINICIANS AND SCIENTISTS WORKING AND REMAINING IN THE US**
**SUNDAY, APRIL 3**
8:00 – 9:00 AM

**ENDOCRINE EDUCATORS SESSIONS**
Join your educator colleagues in this series of sessions to learn best practices and strategies employed by colleagues in endocrine education.

**TOOLS FOR IMPROVING YOUR CLINICAL TEACHING WORKSHOP**
**THURSDAY, MARCH 31**
1:30 – 5:30 PM
This half-day pre-conference workshop is offered in partnership with APDEM. The program features the Clinical Teaching program from the Stanford Faculty Development Center. Registration fees apply. See pre-conference events for details. ABIM MOC available for this workshop.

**ENDOCRINE EDUCATORS FORUM**
**FRIDAY, APRIL 1**
3:15 – 4:15 PM
Join educator colleagues to discuss current issues in endocrinology training, share best practices in endocrine education, and gain access to a network of resources, information, and support.

**BEYOND “GOOD JOB” AND “PERFORMED AS EXPECTED”: DELIVERING MEANINGFUL FEEDBACK TO LEARNERS**
**SATURDAY, APRIL 2**
1:30 – 3:00 PM
Chris Peltier, MD, of the Cincinnati Children’s Hospital Medical Center will lead this interactive workshop by reflecting on experiences as a recipient of feedback. During the program, he will examine characteristics of meaningful and effective feedback with special attention on addressing millennial learners.

**THE ART OF NEGOTIATION TO BUILD INFLUENCE (AND YOUR CAREER)**
**SUNDAY, APRIL 3**
1:30 – 2:30 PM
Join Armand Krikorian, MD, and Gopal Yadavallis, MD, and explore different negotiating styles and strategies to your career as a medical educator.
CONFERENCE MEETINGS AND EVENTS (CONTINUED)

HEALTH DISPARITIES FORUM
Hosted by the Minority Affairs Committee of the Endocrine Society
SATURDAY, APRIL 2
1:30 – 3:00 PM
The ENDO 2016 Health Disparities Forum will spotlight successful community-based programs addressing health disparities in the Boston area.

MOC UPDATE
SATURDAY, APRIL 2
10:00 – 11:00 AM
MOC continues to evolve and staying current with requirements and resources can be challenging. Keep up to date with what is new and what is needed to stay certified.
Need more information? Here are some resources:
- Visit the ENDO Store for great discounts on self-assessment products.
- Login to education.endocrine.org to earn points through online MOC modules designed by endocrinologists for endocrinologists!

ESAP™-ITE LIVE
FRIDAY, APRIL 1
11:00 AM – 12:30 PM
All fellows and program directors who have recently participated in the In-Training Exam 2016 or program directors interested in ITE are invited to attend this complimentary live session to meet the expert faculty who developed the content.

ESAP™ LIVE
FRIDAY, APRIL 1
1:30 – 3:00 PM
SUNDAY, APRIL 3
10:00 – 11:30 AM
ESAP Live returns to ENDO by popular demand! Pre-order ESAP 2016 at a discounted rate and attend these complementary live sessions to learn directly from the authors of the latest edition of ESAP 2016. ABIM MOC available for these sessions.

NEW! PEDIATRIC ESAP™ LIVE
SUNDAY, APRIL 3
11:45 AM – 1:15 PM
New to ENDO is the extension of ESAP Live to our pediatric-focused attendees! Add Pediatric ESAP 2015-2016 during registration to receive a discounted rate, and join expert faculty at ENDO to learn directly from the authors. ABP MOC available for this session.

2016 CORPORATE LIAISON BOARD FORUM
OBESITY: PREVENTION STRATEGIES, TREATMENT PARADIGMS, AND RESEARCH NEEDS FOR 2016 AND BEYOND
FRIDAY, APRIL 1
4:45 – 6:15 PM
Hosted by the Corporate Liaison Board of the Endocrine Society
This yearly forum highlights the collaboration between industry, academia, and healthcare agencies from both government and non-government organizations in approaches to treatment of endocrine disorders. Enhance your ENDO 2016 experience with this special session. Speakers representing clinical science and industry will discuss current science and future research for preventing and treating obesity.
Program Director: John Germak, MD, Novo Nordisk Inc.

PROGRAM:
- Treatment Recommendations: Today and Future Directions
- Obesity Research: Current Science and Path Forward
- Pharmaceutical Industry’s Collaborative Role in Addressing the Patient’s Unmet Need
No cost to attend. Preregistration encouraged.
This activity is not eligible for CME credit.

ENDOCRINE SCIENCE SOCIALS
FRIDAY, APRIL 1 – SUNDAY, APRIL 3
6:15 – 7:00 PM
Join your colleagues at the Society’s new Endocrine Science Socials, which will take place in several locations right outside afternoon symposia rooms. These Socials will give you a chance to unwind and network with colleagues at the end of a long day. So after your afternoon symposia, look for an Endocrine Science Social near you and find a friend or make a new one. One beverage ticket is included with your registration materials. Additional refreshments will be available to purchase at the Socials.

WOMEN IN ENDOCRINOLOGY ANNUAL MEETING
FRIDAY, APRIL 1
6:30-10:00 PM
The Westin Boston Waterfront
The annual dinner meeting is open to all Women in Endocrinology (WE) members and interested endocrinologists, and offers a great opportunity to network. The meeting features an invited speaker and summary of WE activities during the previous year. Recipients of the WE 2016 Mentor Award, WE Young Investigator, Endocrine Society’s Early Career Forum, and Australasian Branch of WE Travel Grant Awards are also recognized.
All ENDO 2016 registrants are invited to attend. Seating is limited. Advance registration and fee are required via the ENDO 2016 registration site.

**REGISTRATION FEE:**
All Guests ..................................... $75

**THE ASSOCIATION OF ENDOCRINE CHIEFS AND DIRECTORS MEETING**

**FRIDAY, APRIL 1**
7:00 – 9:30 PM
The Westin Boston Waterfront

The Association of Endocrine Chiefs and Directors (AECD) will hold its fourth annual meeting at ENDO 2016. The mission of AECD is to provide an organization for Chiefs and Directors of Academic Divisions of Endocrinology, Diabetes and Metabolism to address important and relevant issues in establishing and maintaining successful clinical, research, and training operations.

The meeting will include a cocktail reception followed by dinner and featured speaker Elizabeth G. Nabel, MD, President of Brigham and Women’s Health Care and Professor of Medicine at Harvard Medical School. Dr. Nabel is also a cardiologist and distinguished biomedical researcher. She will be sharing valuable insights and strategies regarding innovation in health care in her presentation entitled, “Academic Medicine in an Era of Health Care Reform.”

Learn more about AECD at endocrine.org/AECD or contact us at aecd@endocrine.org.

**REGISTRATION FEES:**
AECD Member ................................ $65
Nonmember ....................................... $99

**ASSOCIATION OF PROGRAM DIRECTORS IN ENDOCRINOLOGY, DIABETES, AND METABOLISM (APDEM)**

**SATURDAY, APRIL 2**
7:00 – 9:00 PM
The Westin Boston Waterfront

APDEM is a key source of information for training program directors in endocrinology, diabetes, and metabolism. APDEM will again hold its annual membership meeting in conjunction with ENDO 2016. The Annual Membership Meeting agenda is developed based on the latest issues affecting program directors in the field. All APDEM members and nonmember program directors are invited to participate in this important meeting. For additional information on APDEM membership and program agenda, please contact Barbara Small at APDEM@endocrine.org.

**MINORITY MENTORING AND POSTER RECEPTION**

**SATURDAY, APRIL 2**
7:00 – 9:30 PM
The Westin Boston Waterfront

The Minority Affairs Committee is hosting the Minority Mentoring and Poster Reception during ENDO 2016, where advisors at topic tables are available to address the career challenges facing minority students, postdocs, fellows, and faculty. Minority trainees interested in presenting their research projects are also invited to attend. This event presents a great networking opportunity for mentors from the Endocrine Society, industry, and government to share their career experience and advice with young scientists. Its success very much depends on mentor support and participation.

Register to become a mentor by checking the appropriate box during registration by February 26, 2016 or contact us at mac@endocrine.org or 202.971.3685.

**ENDOCRINE NURSES SOCIETY**

**SUNDAY, APRIL 3**
7:30 AM – 7:30 PM
The Westin Boston Waterfront

The full program includes the Endocrine Nurses Society Symposium, Business Meeting, Luncheon, Poster Session, and Reception.

**PROGRAM:**

**SYMPOSIUM**
8:00 AM – 12:00 PM

Subclinical Thyroid Disease
David S. Cooper, MD, Johns Hopkins Univ Sch of Med

Brain Injury and the Pituitary Gland — Panel Discussion
Moderator: Michelle H. Gurel, RN, BSN, Massachusetts Gen Hosp
Panelists: Nicholas Tritos, DSc, MD, Massachusetts Gen Hosp, Magdalena Wojtowicz, PhD, Harvard Med Sch, Seth Herman, MD, Massachusetts Gen Hosp, and Susan Ponsetto, RN, Massachusetts Gen Hosp

Reproductive Challenges of Infertile Couples
Daniel A. Dumesic, MD, Univ of California-Los Angeles

**BREAKOUT SESSIONS**
1:00 – 2:00 PM

Case Study: Treatment of Osteoporosis
Amy Mundy, FNP, BC-ADM, McGuire VAMC

Case Study: Endocrine Testing
Michelle H. Gurel, RN, BSN, Massachusetts Gen Hosp

What is Affordable Care for Endocrine Patients?
Margaret E. Eckert-Norton, PhD, FNP-BC, CDE, State Univ of New York

Hospital to Home Transition of Type 2 Diabetes Patients with Complex Insulin Regimens
Saundra Hendricks, MS, FNP, BC-ADM, The Methodist Hosp

Insulin Tolerance Tests
Julie T. Hetherington, DNC, Endocrinology & Metab Ctr (Australia)

**REPEATING BREAKOUT SESSIONS**
2:00 – 3:00 PM

Case Study: Endocrine Testing
Michelle H. Gurel, RN, BSN, Massachusetts Gen Hosp
The Endocrine Society’s 98th Annual Meeting & Expo

SYMPOSIUM
3:15 – 5:00 PM
What’s New in Research and Endocrine Nursing Scholarships?
Christine G. Yedinak, DNP, FNP-BC, MN, BN
Oregon Hlth and Sci Univ
Bionic Pancreas
Steven J. Russell, MD, PhD, Diabetes Res Ctr/ Massachusetts Gen Hosp

SYMPOSIUM EVALUATIONS
5:00 – 5:15 PM
ENDOCRINE NURSES SOCIETY BUSINESS MEETING
5:15 – 5:45 PM
RECEPTION AND POSTER PRESENTATION
6:00 – 7:30 PM

ENDOCRINE SOCIETY ANCILLARY SYMPOSIA
Ancillary symposia are developed through the Endocrine Society’s Continuing Medical Education Services (CMES) and Special Programs Committee (SPC). These events will be held at The Westin Boston Waterfront and Renaissance Boston Waterfront Hotel.

All CMES ancillary symposia are CME certified by the Endocrine Society and are planned and conducted under the supervision of the SPC in strict compliance with the Essential Standards & Guidelines of the Accreditation Council for Continuing Medical Education (ACCME).

There is no cost to attend and all ENDO 2016 attendees are welcome; however, seating is limited and advance registration is recommended. Complimentary breakfast or dinner will be provided. Priority seating will be given to Registration Ticket holders for the first 15 minutes of the indicated start time. Attendees without tickets will be admitted to the session on a first-come, first-served basis beyond the first 15 minutes. While available seating cannot be guaranteed, the Endocrine Society will make every effort to accommodate you.

You must be registered for ENDO 2016 to attend CMES ancillary symposia. Additional information on the ancillary symposia can be found at endo2016.org.

SCIENCE PATHWAYS
Make the most of your ENDO experience with Science Pathways.
Each “pathway” includes sessions within a specific area to bring together related topics in an easy to follow line-up that will continue to grow as oral and poster abstract sessions are scheduled. Check out details on Science Pathways in GCPRs, neuroendocrinology, and nuclear receptors by visiting endo2016.org

SCIENCE PATHWAYS IN GPCRS
FRIDAY, APRIL 1
9:45 AM From Orphan GPCRs to Drug Targets
11:30 AM A Year in Progress in GPCR Research
4:45 PM New Insights in Gonadotrope Biology
SATURDAY, APRIL 2
8:15 AM Molecular Level Exploration of GPCR Structure, Function, and Regulation
SUNDAY, APRIL 3
8:15 AM Pathophysiologic Consequences of Aberrant Heterotrimeric G Protein Regulation
4:45 PM New Roles for Relaxin in Health and Disease

SCIENCE PATHWAYS IN NEUROENDOCRINOLOGY
FRIDAY, APRIL 1
9:45 AM Modeling Hormone Rulse Generation
4:45 PM New Insights in Gonadotrope Biology
SATURDAY, APRIL 2
8:15 AM Neuroendocrine Control: Is it All in Your Brain?
4:45 PM Sex, Drugs, and Rocky Road: Neuroendocrine Control of Behavior
SUNDAY, APRIL 3
8:15 AM Following the Pathway Leads to Therapeutic Targets: Signals Regulating Pituitary Tumors
4:45 PM Hormones in Metabolic Adaptations
MONDAY, APRIL 4
11:45 AM Glucocorticoids in Brain Remodeling
11:45 AM The EAiTiology of Energy Balance: Neuronal Circuits that Regulate Appetite

SCIENCE PATHWAYS IN NUCLEAR RECEPTORS
FRIDAY, APRIL 1
9:45 AM Nuclear Receptor Control of Health and Disease
4:45 PM Hormones and Stem Cells in Development and Disease
4:45 PM Nuclear Receptors in Energy Homeostasis
SATURDAY, APRIL 2
8:15 AM Nuclear Receptors Transrepression, Crosstalk, and Novel Signaling
4:45 PM New Developments in the Role and Regulation of the Androgen Receptor
SUNDAY, APRIL 3
4:45 PM Genomics of Nuclear Receptor and Coregulator Action
MONDAY, APRIL 4
11:45 AM Endocrine Therapy Resistance in Breast Cancer Patients: Pathogenesis and Its Conquest
11:45 AM Controversies and Advances in Steroidogenesis Research
SATELLITE PROGRAMS

16TH ANNUAL RACHMIEL LEVINE-ARTHUR RIGGS DIABETES RESEARCH SYMPOSIUM
Presented by the Diabetes & Metabolism Research Institute at City of Hope
Cosponsored by the Endocrine Society
SUNDAY, MARCH 6 – WEDNESDAY, MARCH 9
Hyatt Regency Long Beach, Long Beach, CA
The Levine Symposium will offer presentations from experts in diabetes, islet cell biology, and regenerative medicine to a diverse audience of translational scientists, trialists, and practitioners from across the world. Sessions include discussions on insulin resistance, diabetes complications, obesity, epigenetics, beta cell generation, islet imaging, diabetes technology, and new concepts on the natural history of the disease. As a CME accreditor, the City of Hope designates this live activity for AMA PRA Category 1 Credits™. For full program and abstract submission information, visit levinesymposium.com.

PROGRAM HIGHLIGHTS:
SUNDAY, MARCH 6
Plenary: Aberrant regulation of the protein homeostasis maintenance system underlying metabolic disease
Session: Insulin Resistance/Insulin Secretion
Debate: To “B” or Not to “B”
MONDAY, MARCH 7
Session: Complications
Session: Obesity
Session: Epigenetics
Debate: Pharmacological Approaches for Glycemia Management in Type 1 Diabetes Is No Longer Limited to Insulin Alone
Poster Session
TUESDAY, MARCH 8
Session: Beta Cells from Stem Cells and Transdifferentiation
Session: Beta Cell Transcriptomics, Epigenetics, and Targeting
Session: Lowering the Barrier of Entry and Long-Term Commitment of Pharma in Type 1 Diabetes
Plenary: Bariatric and Metabolic Surgery
WEDNESDAY, MARCH 9
Session 1: Islet Imaging
Session 2: Diabetes Technology
Session 3: New Concepts in Natural History of Disease
Plenary: CIT Islet Cell Transplant Outcomes

THE XVII TH CONFERENCE ON THE ADRENAL CORTEX
TUESDAY, MARCH 29 – THURSDAY, MARCH 31
Embassy Suites Boston at Logan Airport
This biennial congress brings together international basic and clinician scientists to present state-of-the-art research related to the adrenal cortex. For more than thirty years this meeting has provided attendees with in-depth research presentations and discussions focused on adrenal steroid synthesis; steroid hormone regulation and action; adrenal differentiation, growth, and development; as well as diseases and neoplasias of the adrenal cortex. Graduate students and postdoctoral research fellows are encouraged to attend the meeting and present posters.
For more information and to register, visit sites.google.com/site/2016adrenalcortexconference.

THE 19TH WORKSHOP ON VITAMIN D
TUESDAY, MARCH 29 – THURSDAY, MARCH 31
Revere Hotel Boston Common, Boston, MA
Endorsed by the Endocrine Society
The Vitamin D Workshops bring together basic researchers, clinicians, and nutrition experts from around the globe. Since the first meeting in 1973, there have been 18 Vitamin D Workshops. The meeting hosts a multi-day forum where the latest research on vitamin D is presented, debated, and shared.

The 19th Workshop on Vitamin D is co-chaired by Drs. Marie B. Demay, MD, and Sylvia Christakos, PhD. For program information, visit vitamindworkshop.org.
Deadline for abstract submission and Early Bird registration is January 15, 2016.

REGISTRATION FEES:
Early Bird Trainees .......................................................... $175
Early Bird Academics and Researchers ................................. $350

AMERICAN THYROID ASSOCIATION (ATA) SATELLITE SYMPOSIUM: THE 2016 RELEASE OF TWO ATA CLINICAL GUIDELINES
THURSDAY, MARCH 31
1:00 – 5:30 PM
Boston Convention and Exhibition Center
Register now for this exciting program to hear the most recent recommendations from the interdisciplinary international guidelines task forces.

PROGRAM:
2016 ATA GUIDELINES: DIAGNOSIS AND MANAGEMENT OF HYPERTHYROIDISM AND OTHER CAUSES OF THYROTOXICOSIS
Chair: Douglas Ross, MD, Massachusetts Gen Hosp
Numerous studies since the publication of the 2011 guidelines have addressed the diagnosis and management of thyrotoxic patients. The ATA has developed new and updated evidence-based recommendations to guide the clinical assessment and management of patients with hyperthyroidism and other causes of thyrotoxicosis. Task force members will give special focus to:

- New paradigms for establishing the etiology of thyrotoxicosis
- Updated evidence for choosing treatment options for hyperthyroidism
- Expanded coverage of less common causes of thyrotoxicosis

**2016 ATA GUIDELINES: THYROID DISEASE DURING PREGNANCY**

Chairs: Elizabeth Pearce, MD, Boston Univ and Erik Alexander, MD, Brigham and Women's Hosp

Thyroid disease is common in pregnant women. The diagnosis and treatment of thyroid dysfunction in pregnancy provides unique challenges. A large amount of new information and evidence grading processes has become available since the 2011 guidelines prompting the ATA to develop new and updated evidence-based recommendations to assist in the clinical management of pregnant patients with thyroid disease. Task force members will give special focus to:

- New definitions and treatment paradigms for hypothyroidism in pregnancy
- Treatment of hyperthyroidism in pregnant women
- Screening for thyroid dysfunction in pregnancy

**REGISTRATION FEES:**
ATA/Endocrine Society Members .............. $149
Nonmembers ..................................... $169
ATA/Endocrine Society In-Training Members ........ $29
EXHIBITOR LIST

AbbVie, Inc.
Aegerion Pharmaceuticals, Inc.
Akrimax Pharmaceuticals
Alere, Inc.
Alexion Pharmaceuticals, Inc.
American Board of Internal Medicine
Ansh Labs
Arbor Assays, LLC.
Ascendis Pharma A/S
AstraZeneca
BioLegend
BioScientifica
Bio-Tech Pharmacal
CBLPath Inc.
Chiasma, Inc.
Clinical Endocrinology News
ContextMedia: Health
Corcept Therapeutics
Cushing's Support & Research Foundation
Data Sciences International
Dexcom Inc.
DRG INTERNATIONAL
eClinicalWorks
Eisai Inc.
Elliot Health System
Elsevier
Endo Pharmaceuticals, Inc.
Enovative Technologies
Enzo Life Sciences
Fight ALD - Fighting Illness Through Education
Food Addicts in Recovery (FA)
Gene Tools, LLC.
Genzyme a Sanofi Company
Growth Hormone Research Society
Hawaiian Moon Aloe
Horizon Pharma, Inc.
Ideal Protein of America
Impeto Medical
InBody
Intermountain Healthcare
Interpace Diagnostics, LLC.
IPSEN Biopharmaceuticals, Inc.
Johnson & Johnson Diabetes Solutions Companies
Karger Publishers
KRONUS, Inc.
LabCorp - Esoterix
Lilly USA
LMC Diabetes & Endocrinology
MAGIC Foundation
Medtronic
Merck & Co., Inc.
Merck KGaA
Mercodia Inc.
National Death Index
National Institute of Environmental Health Sciences
NeedyMeds
Novartis Pharmaceuticals
Novo Nordisk, Inc.
OPKO Biologics Ltd.
Pfizer Inc.
Phoenix Pharmaceuticals, Inc.
Pituitary Network Association
Pituitary Society, The
Quidel Corporation
Radius Health, Inc.
Research Diets, Inc.
Sanofi
Seahorse Bioscience
SECA
Shire
Siemens Healthcare Diagnostics
SIUI America, Inc.
Springer
Sun Pharma
Tandem Diabetes Care
Taylor & Francis
The Jama Network
The Lancet Diabetes & Endocrinology
The University of Chicago - Genetic Services Laboratories
Ultragenyx Pharmaceutical, Inc.
UnionBio
Veracyte, Inc.
Versartis
Waters
Welch Allyn
Wiley
XLH Network, Inc.

2016 Exhibitor List as of November 30, 2015
SCIENTIFIC PROGRAM

Check out the centennially-focused sessions indicated by which highlight how the field has advanced in the past century and where it is heading.

FRIDAY, APRIL 1
9:45 – 11:15 AM
C BENEFITS AND RISKS OF OSTEOPOROSIS THERAPIES
Chair: Nelson B. Watts, Mercy Hilll
Modern Therapies for Osteoporosis
Rene Rizzoli, MD, Geneva Univ Hosp (Switzerland)
Osteoporosis Therapies: An Atypical Cause of Fractures?
Paul D. Miller, Colorado Ctr for Bone Res
Bisphosphonate Holidays: Are We Managing the Patient or the Physician?
Dennis M. Black, Univ of California-San Francisco

CARDIOVASCULAR DISEASE AND DIABETES: FOCUS ON SEX DIFFERENCES
Chair: Alice Y. Chang, Mayo Clinic
Sex Differences in Peripheral Arterial Disease with Diabetes
Judith G. Regenstein, Unv of Colorado Sch of Med
Sex Differences in the Risk of Stroke with Diabetes
Kathryn M. Rexrode, Brigham and Women’s Hosp
Ethnic and Racial Differences that Influence Sex Differences in Cardiovascular Disease and diabetes
Sherta Golden, Johns Hopkins Sch of Med

B DOGMA DISRUPTING THERAPEUTIC STRATEGIES TO COMBAT ENDOCRINE RESISTANT CANCERS
Chair: Steven P. Balk, Beth Israel Deaconess Med Ctr
A Novel Estrogen Receptor Alpha Inhibitor Acts via the Unfolded Protein Response to Promote Tumor Regression
David J. Shapiro, Univ of Illinois
Reversing the Paradigm: Protein Kinase C as a Tumor Suppressor
Alexandra C. Newton, Univ of California-San Diego
BET Protein Inhibitors in Triple Negative Breast Cancer
Ruth Ann Keri, Case Western Reserve Univ Sch of Med

FROM ORPHAN GPCRS TO DRUG TARGETS
Chair: Jean-Pierre Vilarodaga, Univ of Pittsburgh
Orphan GPCR Neurmoulation
Olivier Civelli, Univ of California-Irvine
Amino Acids, Sweet-Sensing Receptors, and Beta Cells
Melanie Houston Cobb, Univ of Texas SW Med Ctr
Relxin Receptor Signaling
Robert G. Bennett, VA Nebraska-Western Iowa Htt Hcare Syst

FUNDAMENTALS OF AUTONOMOUS ALDOSTERONE SECRETION
Chair: William F. Young, Jr., Mayo Clinic
Genetic Insights into the Classification of Primary Aldosteronism
Maria-Christina Zennaro, Inserm (France)
Role of Micro RNA in Adrenal Steroid Production
Eleanor Davies, Univ of Glasgow (UK)
Dissecting the Molecular Pathways of Primary Aldosteronism
Hironobu Sasano, Tokohu Univ Hosp (Japan)

MODELING HORMONE PULSE GENERATION
Chair: Johannes D. Veldhuis, Mayo Clinic
Investigating the Origin of Glucocorticoid Pulsatility Using Mathematical and Experimental Approaches
Jamie Walker, Univ of Exeter (UK)
Calcium and Metabolic Oscillations Interact to Produce Pulsatile Insulin Secretion
Richard Bertram, Florida State Univ
Imaging and Modelling Gene Expression Dynamics in the Pituitary
Julian R. Davis, Univ of Manchester (UK)

NOVEL REGULATORS OF TESTICULAR FUNCTION
Chair: Wei Yan, Univ of Nevada Sch of Med
Molecular Pathology of Spermatogenesis
Moira K. O’Bryan, Monash Univ (Australia)
GATA4 Regulating Testicular Function
Markku Heikinheimo, Univ of Helsinki (Finland)
New Insights into the Transporter Mechanisms of NIS
Juan Pablo Nicola, Univ Natl de Cordoba (Argentina)

NEUROBIOLOGY OF SEXUAL FUNCTION AND DYSFUNCTION IN WOMEN
Developed in collaboration with the NICHD
Chair: Charaee A. Lamar, NICHD/NIH
Sexual Dysfunction: Definition and Public Health Impact
Leah S. Millheiser, Stanford Hlthcare Gynecology Cln
Central Neurobiology Regulation of Function and Dysfunction
Margaret E. Wieman, Univ of Colorado Sch of Med and Res
Svy/VMAC
Current Therapies and Future Directions
James A. Simon, Washington, DC

NUCLEAR RECEPTOR CONTROL OF HEALTH AND DISEASE
Chair: Kenneth S. Korach, Natl Inst of Environ Hlth Scis/NIH
LXR and Cholesterol Transport
Ira G. Schulman, Univ of Virginia
Differential Functionality of ERR in Estrogen Mediated Metabolic Regulation
Yukitomo Arai, Natl Inst of Environ Hlth Scis/NIH
Fxr in the Control of Adipose Tissue Biology
C. Daniel De Magalhaes Filho, Salk Inst for Biol Stud
ROR, An Emerging Regulator of Breast Cancer Progression, and Clinical Outcomes
George E.O. Muscat, Univ of Queensland (Australia)

SAFETY AND LONG-TERM OUTCOMES OF PEDIATRIC THERAPEUTICS IN GROWTH AND PUBERTY DISORDERS
Chair: Saul Malozowski, NIH
Long-Term Outcomes and Safety of rhGH-1
Steven D. Chernausek, Univ of Oklahoma Hlth Sci Ctr
Efficacy and Safety of Long-Acting GnRH Analogs
Erika A. Eustace, Indiana Univ Sch of Med/Riley Hosp for Children
Inhaled Corticosteroids and Growth: Still an Issue after All These Years
David B. Allen, Univ of Wisconsin Sch of Med and Pub Hlth

4:45 – 6:15 PM
T 20TH ANNIVERSARY OF THE SODIUM IODIDE SYMPORTER (NIS): WHAT’S NEW?
Chair: John C. Morris, Mayo Clinic
New Insights into the Transporter Mechanisms of NIS
Juan Pablo Nicola, Univ Natl de Cordoba (Argentina)
Signaling Pathways that Regulate NIS
Sissy M. Jhiang, The Ohio State Univ
NIS as Molecule Used in Molecular Imaging and Treatment
Christine Spitzweg, Univ Hsepo of Munich (Germany)

ADRENAL INSUFFICIENCY ACROSS THE AGES: NEW INSIGHTS INTO PATHOPHYSIOLOGY AND TREATMENT
Chair: Richard J. Autsch, Univ of Michigan
Adrenal Insufficiency or Mineralocorticoid Resistance in the Newborn: From Physiology to Pathology
Letticia Martinerie, INSERM U1185 (France)
Can We Predict Recovery of the HPA Axis after Cure of Cushing Syndrome?
Guido DI Dalmazi, Med Klinik und Poliklinik IV Klinikum der Univ Munchen (Germany)
Traditional and Novel Approaches to Glucocorticoid Replacement
Stephanie Hahner, Univ Wurzburg (Germany)
ANDROGEN EXCESS IN WOMEN: CHALLENGES FROM DIAGNOSIS TO MANAGEMENT
Chair: Ricardo Aziz, Georgia Regents Univ
Clinical Hyperandrogenism: How to Define and Diagnose?
Duarte L. Pigatto, Hosp São João (Portugal)
Biological Hyperandrogenemia: What to Measure and Which Assay to Use?
Brian G. Keevil, Univ Hosp of South Manchester (UK)
Unwanted Excessive Hair: Is There an Evidence-Based Solution?
Alessandra Gambineri, Univ di Bologna (Italy)

CURRENT STATUS OF THYROID CANCER MONITORING
Chair: Anna M. Sawka, Univ Hlth Network/Univ of Toronto (Canada)
Are Stimulated Thyroglobulin Levels Useful in the Era of Highly Sensitive Tg Assays?
Robert C. Smallridge, Mayo Clin
Parks and Pitfalls of Thyroglobulin Assays
Jonathan S. Lopresti, Univ of Southern California
Ultrasound and Thyroid Cancer Surveillance
Susan J. Mandel, Univ of Pennsylvania Perelman Sch of Med

ENDOCRINE FUNCTIONS OF BONE
Chair: Beata Lecka-Czernik, Univ of Toledo Coll of Med
Bone and Cognition
Gerard Karsenty, Columbia Univ
FGF23: A Skeletal Regulator of Phosphate Metabolism
Beate Lanske, Harvard Sch of Dental Med
Substrate Utilization by Bone and Fat Cells Affects Impacts Fate Determination
Clifford J. Rosen, Maine Med Ctr Res Inst

FROM BOYS TO MEN: DISORDERS OF MALE PUBERTY
Chair: Nelly Pitteloud, Centre Hosp Univ Vaudois (CHUV) (Switzerland)
Genotype and Phenotype of Delayed and Precocious Puberty in Boys
Francesco Chiarelli, Univ of Chieti (Italy)
Pubertal Development in Obese Boys
Jack A. Yanovski, Eunice Kennedy Shriver Natl Inst of Child Hlth and Human Development/NH
Diagnosis and Treatment of Delayed Puberty in Boys
Anders Juul, Univ of Copenhagen, Rigshospitalet (Denmark)

HORMONES AND STEM CELLS IN DEVELOPMENT AND DISEASE
Chair: Carol Ann Sartorius, Univ of Colorado-Denver Anschutz Med Campus
Estrogenic Signaling as Key Regulators of Prostate Stem Cells
Gail S. Prins, Univ of Illinois-Chicago
Role of ER, AR, and VDR in Breast Differentiation and Stem Cells
Tan A. Ince, Univ of Miami Miller Sch of Med
Thyroid Hormone Receptor and Intestinal Epithelium Steinness
Michelina Plateroti, Ctr de Res en Cancérologie de Lyon (France)

NEW INSIGHTS IN GONADOTROPE BIOLOGY
Chair: Daniel J. Bernard, McGill Univ (Canada)
Stress Signaling and Translational Control of Gonadotropins by GnRH
Mark A. Lawson, Univ of California-San Diego
Mechanisms of Gonadotropin Gene Regulation
Stuart C. Sealton, Icahn Sch of Med at Mt Sinai
Leptin Action in Gonadotropes
Gwen V. Childs, Univ of Arkansas for Med Scis

NOVEL MECHANISMS FOR PROTECTION OF Beta CELL MASS
Chair: Gordon C. Weir, Joslin Diabetes Ctr/Harvard Med Sch
Nutrient Regulation of Beta Cells
Ernesto Bernal-Mizrachi, Univ of Michigan Comprhns Diabetes Ctr
Epigenetic Mechanisms of Beta Cell Reprogramming and Regeneration
Senta Georgia, Children’s Hosp Los Angeles
Hepatic Regulation of Beta Cells
Mehboob Ali Hussain, Johns Hopkins Univ Sch of Med

NUCLEAR RECEPTORS IN ENERGY HOMEOASTIS
Chair: Franck Mauvais-Jarvis, Tulane Univ Hlth Scis Ctr
Nuclear Receptors in Energy Balance
Karen Ryan, Univ of California-Davis
Estradiol Regulates Brown Adipose
Tissue Thermogenesis via Hypothalamic AMPK
Miguel Lopez, Univ of Santiago de Compostela (Spain)
Estrogen Receptor-α in the Medial Amygdala Regulates Energy Balance in Both Genders
Yong Xu, Baylor Coll of Med

TRANSCRIPTIONAL SUPER ENHANCERS AND CANCER
Chair: Donald B. DeFranco, Univ of Pittsburgh Sch of Med
Intro to Super Enhancers and Cancer
Richard A. Young, Whitehead Inst, Massachusetts Inst of Technology
Role of Tissue Microenvironment in Shaping Macrophage Enhancers in Health and Disease
Christopher K. Glase, Univ of California-San Diego
Enhancers in Hormone-Dependent Cancer
Matthieu Lupien, Univ of Toronto (Canada)

SILENT HORMONE DEPENDENCE IN PROSTATE CANCER
Chair: Mehboob Ali Hussain, Johns Hopkins Univ Sch of Med
Transition of Care for the Patient with Hypopituitarism
Julia Kharlita, Univ of Pennsylvania

FREE HORMONE MEASUREMENTS IN BLOOD: WHAT CLINICIANS SHOULD KNOW
Co-Sponsored by the American Association for Clinical Chemistry
Chair: Hershel Raff, Med Coll of Wisconsin
Free Hormones in the Blood: Technical Issues Influencing Clinical Interpretation
Steven J. Soldin, NIH
Free Thyroid Hormones
Jacqueline Jonklaas, Georgetown Univ Med Ctr
Free Steroid Hormones
Jean-Benoit Corcuff, Ctr Hosp Univ de Bordeaux (France)

FUELING HORMONE-DEPENDENT CANCERS: LIFESTYLE TO LIPIDS
Chair: Colleen Nelson, Queensland Univ of Technology (Australia)
Obesity, Insulin Resistance, and Inflammation
Speaker To Be Determined
Lifestyle and Dietary Factors in the Prevention of Lethal Prostate Cancer
Lorelei Mucci, Harvard TH Chan Sch of Public Hlth
Understanding Lipid Metabolism in Prostate Cancer
Matthew J. Watt, Monash Univ (Australia)
SCIENTIFIC PROGRAM (CONTINUED)

E HYPOPARATHYROIDISM: MORE THAN JUST HYPOCALCEMIA
Chair: Michael Mannstadt, Massachusetts Gen Hosp
Hypoparathyroid Bone Disease
Mishaela R. Rubin, Columbia Univ Coll of Phys and Surgs
Advances in Parathyroid Hormone Replacement Therapy
Karen K. Winer, NIH
Hypoparathyroidism: Impact of Treatment on Quality of Life
Tamara J. Vokes, Univ of Chicago

E INNOVATIONS IN PROFILING THE BASIS FOR INSULIN RESISTANCE
Chair: K. Sreekumaran Nair, Mayo Clin
Mitochondrial Metabolism as a Mediator of Fatty Liver Disease: Taming the Beast of Burden
Shawn C. Burgess, Univ of Texas SW Med Ctr
“Omics” Part 2: Lipids and Amino Acids
Christopher B. Newgard, Duke Univ Med Ctr
Molecular Signatures of Insulin Resistance and Type 2 Diabetes Risk
Mary Elizabeth Patti, Joslin Diabetes Ctr

E MOLECULAR CLASSIFICATIONS OF ADRENAL TUMORS IN THE GENOMICS ERA
Chair: Margaret E. Wierman, Univ of Colorado Sch of Med and Res Svcs/VAMC
Genomic Landscape of Pediatric Adrenocortical Tumors
Emilia Modolo Pinto, St Jude Children’s Res Hosp
Genomics of Pheochromocytoma
Nelly Burnichon, INSERM (France)
Genomic Profiling of Adrenocortical Cancer in the Adult
Siyuan Zheng, Univ of Texas MD Anderson Cancer Ctr

E MOLECULAR LEVEL EXPLORATION OF GPCR STRUCTURE, FUNCTION, AND REGULATION
Chair: P. Michael Conn, Texas Tech Univ Hlth Sci Ctr
GPCR Activation and Effector Coupling: Insights from Crystallographic Structures
Andrew Kruse, Harvard Univ
The Many Flavors of Receptor Efficacy: Multidimensional Ligand Profiling Using BRET Reporters
Stephane A. Laporte, McGill Univ/McGill Univ Hlth Ctr (Canada)
Rationale Design of GPCR Agonists:
Brian Finan, Helmholtz Zentrum München/Technische Universität München (Germany)

E NEUROENDOCRINE CONTROL: IS IT ALL IN YOUR BRAIN?
Chair: Martin J. Kelly, Oregon Hlth and Scis Univ
Development of Gonadotropin-Releasing Hormone Secretion and Pituitary Response
Suzanne M. Moenter, Univ of Michigan
Optogenetic Regulation of GnRH and Kisspeptin Neurons to Control Gonadotropin Secretion
Allan E. Herbsison, Univ of Otago (New Zealand)
Organizing the Terminal: Control of Gonadotropin Releasing Hormone Secretion Within the Median Eminence
Iain J. Clarke, Monash Univ (Australia)

E NUCLEAR RECEPTOR TRANSREPRESSION, CROSSSTALL, AND NOVEL SIGNALING
Chair: Hannele Heemers, Cleveland Clin
Talking to the Androgen Receptor Through Cellular Kinases
Susan Katherine Logan, New York Univ Sch of Med
PPAR-gamma Transrepression in Granulosa Cell Tumors
Simon Chin, Hudson Inst of Med Res and Monash Univ (Australia)
Systems Biology of Gene and Metabolic Regulation by ERs and Kinases in Breast Cancer
Zeynep Madak Erdogan, Univ of Illinois at Urbana-Champaign
Regulation of Metabolism by Extra-Nuclear ER-α
Ellis R. Levin, Univ of California-Irvine and Long Beach VAMC

E OVARIAN DEVELOPMENT
Chair: Raymond J. Rodgers, Univ of Adelaide (Australia)
Cell Fate Commitment during Gonadal Differentiation
Bianca Capel, Duke Univ
Wnt Signaling in the Developing Ovary
Seppo J. Vainio, Oulu Univ (Finland)
Metabolic Disruption in Ovarian Follicles in Response to Obesity
Rebecca L. Robker, Univ of Adelaide (Australia)

E PREVENTING AND REVERSING OBESITY IN MINORITY CHILDREN
Chair: Joan C. Han, Univ of Tennessee Hlth Sci Ctr
Insulin Resistance and Obesity in Adolescents
Melanie Cree-Green, Children’s Hosp Colorado
Promotion of Physical Activity in Adolescents and Young Adults in Minority Populations: The Role of Technology
Nefertiti H. Durant, Univ of Alabama-Birmingham
Sleep, Mood, and Obesity in Children
Iliene Fennov, Columbia Univ

E UPDATE ON GENOMICS IN PEDIATRIC ENDOCRINOLOGY
Chair: Sally Radovick, Johns Hopkins Sch of Med
Congenital Hypopituitarism
Mayhul T. Dattani, Univ Coll London, Inst of Child Hlth (UK)
Genetic Defects Affecting Adrenal Development in Humans and Mice: Lessons from cAMP Signaling and Related Pathways
Constantine A. Stratakis, NICHD/NIH
Genetics of Parathyroid Diseases
Rajesh V. Thakker, Univ of Oxford (UK)

4:45 – 6:15 PM

G BARIATRIC SURGERY: CHANGING YOUR JEANS
Chair: Marziah Saleh, Univ of Cincinnati Coll of Med
Genetic Underpinnings of Bariatric Surgery
Lee M. Kaplan, Massachusetts Gen Hosp/Harvard Med Sch
Bariatric Surgery and Proglucagon Peptides
Darleen Sandoval, Univ of Michigan
Hypoglycemia: The Dark Side of Gastric Bypass
Allison B. Goldfine, Joslin Diabetes Ctr

G THE CLINICAL POTENTIAL OF GENOMICS IN ENDOCRINE TUMORS
Chair: James A. Fagin, Mem Sloan Kettering Cancer Ctr
Pharmacogenomics as an Approach for Cancer Treatment
James M. Rae, Univ of Michigan
The Clinical Potential of Genomics in Endocrine Tumors
Tobias Else, Univ of Michigan
Application of Tumor Kinome Profiling: Are We There Yet?
Gordon B. Mills, Univ of Texas MD Anderson Cancer Ctr

G CUSHING DISEASE: AN UPDATE ON PATHOGENESIS, DIAGNOSIS, AND MEDICAL TREATMENT
Chair: Beverly M.K. Biller, Massachusetts Gen Hosp
New Concepts in Corticosterone Adena Pathogenesis and Experimental Treatments
Günter K. Stalla, Max Planck Inst of Psychiatry (Germany)
Laboratory Diagnosis of Cushing Disease: Advances and Pitfalls
Hershel Raff, Med Coll of Wisconsin
Selecting a Target in Refractory Cushing Disease: Corticosterone Tumor, Adrenal Steroidogenesis, or Glucocorticoid Receptor?
Maria Fleseriu, Oregon Hlth and Sci Univ
ENDOCRINE HEALTH DISPARITIES IN UNUSUAL SITUATIONS
Chair: Gilberto J. Paz-Filho, Australian Natl Univ (Australia)
Double Burden of Diabetes and Infectious Diseases in Developing Countries
Rocio I. Pereira, Univ of Colorado
Double Burden of Diabetes in People Affected by War
Nizar Ablaiche, Aleppo Univ Hosp (Syria)
Double Burden of Diabetes in People Affected by Disasters
Vivian A. Fonseca, Tulane Univ Hlth Sci

HYPERINSULINISM IN INFANCY AND CHILDHOOD
Chair: Charles A. Stanley, Children's Hosp of Philadelphia
The Role of Genetic Testing for Hyperinsulinism
Sian Ellard, Univ of Exeter Med Sch (UK)
Diagnosis, Management, and Long-Term Outcomes
Diva Del Carmen De Leon-Crutchlow, Children's Hosp of Philadelphia
New Therapeutic Approaches: mTOR Inhibitors and Beyond
Khalid Hussain, Great Ormond Street for Children (UK)

NEW DEVELOPMENTS IN THE ROLE AND REGULATION OF THE ANDROGEN RECEPTOR
Chair: Irina U. Agoulnik, Baylor Coll of Med
Cell Cycle Checkpoint Signaling to the AR in Prostate Cancer
Daniel Giocci, Univ of Virginia
AR Variants in Prostate Cancer
Nancy L. Weigel, Baylor Coll of Med
An Androgen Receptor N-Terminal Domain Antagonist for Treating Prostate Cancer
Marianne D. Sadar, BC Cancer Agency (Canada)

PATHOPHYSIOLOGIC CONSEQUENCES OF ABERRANT HETEROTRIMERIC G PROTEIN REGULATION
Chair: Peter A. Friedman, Univ of Pittsburgh Sch of Med
Role of G Proteins in Central Regulation of Energy and Glucose Metabolism
Lee S. Weinstein, NIDDK/NIH
The Role of Gs Signaling in Mesenchymal Stem Cell Differentiation and Skeletal Development
Yingli Yang, Harvard Sch of Dent Med
Trimeric G Protein Signaling beyond GPCRs: Teaching New Tricks to an Old Dog
Mikel Garcia-Marcos, Boston Univ

SEX, DRUGS, AND ROCKY ROAD: NEUROENDOCRINE CONTROL OF BEHAVIOR
Chair: Cheryl L. Sisk, Michigan State Univ
Estradiol and Vulnerability to Drug Addiction
Jill Becker, Univ of Michigan
Melanocortin Regulation of Libido and Reproductive Capacity
Jennifer W. Hill, Univ of Toledo Sch of Med
The Cellular and Molecular Basis of Eating Disorders
Michael Lutter, Univ of Iowa

THE GENETIC ERA IN OSTEOPOROSIS TREATMENT
Chair: Robert A. Nissenson, San Francisco VAMC/Univ of California-San Francisco
Pathophysiology of Age-Related Osteoporosis
Robert L. Jilka, Univ of Arkansas for Med Scs
Human Pluripotent Stem Cells to Model Skeletal Disease
Edward C. Hsiao, Univ of California-San Francisco
MicroRNA and Epigenetic Pathways Regulating Bone Homeostasis
Jane B. Lian, Univ of Vermont Coll of Med

TRANSジェンダー MEDICINE 2016
Chair: Guy G. T'Sjoen, Ghent Univ Hosp (Belgium)
Transgender Youth: Current Concepts and Priorities for Research
Stephen M. Rosenthal, Univ of California-San Francisco
Confirming Gender Dysphoria and Readiness for Transition: A Primer for the Endocrinologist
Walter O. Bockting, Columbia Univ
Differences Among Hormone Treatment Paradigms: Data and Expert Opinion
Madeline B. Deutsch, Univ of California-San Diego

FOLLOWING THE PATHWAY LEADS TO THERAPEUTIC TARGETS: SIGNALS REGULATING PITUITARY TUMORS
Chair: Sally A. Camper, Univ of Michigan
Altered cAMP Signaling By AIP Inactivation
Dries Pituitary Tumorigenesis
Audi Karhu, Univ of Helsinki (Finland)
The Role of MAPK and PI3K in Regulating Lactotrope Differentiation and Proliferation
Arthur Gutierrez-Hartmann, Univ of Colorado/Anschatz Med Campus
Stem Cell Signals Driving Craniopharyngioma
Juan Pedro Martinez-Barbera, Univ Coll London (UK)

GROWTH HORMONE IN AGING, METABOLISMS, AND CANCER: ARE THEY ALL LINKED?
Chair: Andrzej Bartke, Southern Illinois Univ Sch of Med
GH Receptor-IGF1 Receptor Interactions: Implications for GH Signaling
Stuart J. Frank, Univ of Alabama-Birmingham/Veterans Affairs Med Ctr
Growth Hormone Effects on Adiposity, Metabolism, and Aging
Darlene E. Berryman, Ohio Univ Functions of Autocrine Growth Hormone in Cancer Progression
Peter E. Lobie, Natl Univ of Singapore (Singapore)

MOLECULAR INSIGHTS INTO ANDROGEN ACTION IN THE OVARY
Chair: Janette M. McAllister, Pennsylvania State Univ
Critical Role of Androgen Action in Normal and Pathological Ovarian Function
Kirsty A. Walters, ANZAC Res Inst, Univ of Sydney (Australia)
From the Outside Looking In: Many Faces of Androgen Signaling in the Ovary
Arturo Sen, Univ of Rochester
Androgens and Early Follicular Development
Kate Hardy, Imperial Coll London (UK)

NEW ASPECTS OF ADIPOSE REGULATION
Chair: Aaron M. Cypess, NIDDK/NIH
Adipogenesis in Obesity
Philipo E. Scherer, Univ of Texas SW Med Ctr
Metabolic Regulation in Human Brown Fat
Sven M. Enerbäck, Univ of Gothenburg (Sweden)
Adipose Inflammation and Energy Balance
Alan R. Saltiel, Univ of California-San Diego

FOR MORE INFORMATION, VISIT ENDO2016.ORG
SCIENTIFIC PROGRAM (CONTINUED)

55  SECONDARY OSTEOPOROSIS: WHEN GOOD HORMONES GO BAD
Chair: Elizabeth Shane, Columbia Univ College of Phys and Surgs
Reproductive Hormones in Bone
Kirsty M. Nicks, Mayo Clin
Thyroid Hormone and Bone Disease: Thyroxine or Thyrotropin?
John Howard Duncan Bassett, Imperial Coll London (UK)
Glucocorticoid Excess: From Osteoporosis to Fuel Metabolism and Aging
Markus J. Selbel, Univ of Sydney, Concord Med Sch (Australia)

56  THE NEW AMERICAN THYROID ASSOCIATION THYROID NODULE AND CANCER GUIDELINES: WHAT YOU NEED TO KNOW IN ADULTS
Co-Sponsored by the American Thyroid Association
Chair: R. Michael Tuttle, Mem Sloan Kettering Cancer Ctr
Ultrasound and Molecular Diagnostics in the Evaluation of Thyroid Nodules
Jennifer A. Sipos, The Ohio State Univ, Wexner Med Ctr
Radioactive Iodine: To Treat or Not To Treat
Low Risk Thyroid Cancer
Megan R. Haymart, Univ of Michigan
Multikinase Inhibitor Therapy: When to Pull the Trigger
Naifa L. Busaidy, Univ of Texas MD Anderson Cancer Ctr

57  STARVING THE MUSCLE: IMPAIRED ANGIOGENESIS IN DIABETES
Chair: Zheng Liu, Univ of Virginia Hlth Syst
Dysfunctional Angiogenesis/Arteriogenesis in Diabetes
Theodore P. Cialardi, Univ of California-San Diego
Diabetes Associated Impaired Angiogenesis in Peripheral Vascular Disease
Ayudunde O. Dokun, Univ of Virginia Hlth Syst
VEGF and Insulin Regulation of Muscle Angiogenesis
George L. King, Joslin Diabetes Ctr/Harvard Med Sch

58  STEROID HORMONES AND THE INNATE IMMUNE SYSTEM
Chair: Stefan R. Bornstein, Technische Univ Dresden (Germany)
Toll and NOD Receptors
Jenny Ting, Univ of North Carolina-Chapel Hill
Sex Hormone Regulation of Innate Immunity in the Female Reproductive Tract
Charles R. Wira, Geisel Sch of Med at Dartmouth
Glucocorticoids and Innate Immunity
Robert Schleimer, Northwestern Univ Feinberg Sch of Med

59  THE HORMONAL ASPECTS OF SLEEP APNEA
Developed in Collaboration with NHLBI and NIDDK
Chairs: Michael J. Twery, NHLBI/NIH and Corinne M. Silva, NIDDK/NIH
Androgens and Sleep Apnea
Peter Y. Liu, Harbor-Univ of California-Los Angeles Med Ctr/Los Angeles Biomed Res Inst
Pregnancy and Sleep Apnea
Francesco Facco, Magee-Women’s Hosp
PCOS, Type 2 Diabetes, and Sleep Apnea
Esra Tasali, Univ of Chicago
Menopause, Estrogens, and Sleep Apnea
Hadine Joffe, Brigham and Women’s Hosp, Dana Farber Cancer Inst/Harvard Med Sch

60  HORMONES IN METABOLIC ADAPTATIONS
Chair: James E. Blevins, VA Puget Sound Hlth Care Syst
Neural Circuits Governing the Effects of Oxytocin in Energy Balance
Gareth Leong, Univ of Edinburgh (UK)
Leptin Signaling in Metabolic Adaptations of Pregnancy
Jose Donato, Univ of Sao Paulo (Brazil)
Oxytocin Effects on Caloric Intake and Metabolism in Humans
Elizabeth A. Lawson, Massachusetts Gen Hosp

61  MALE REPRODUCTIVE HEALTH PROBLEMS: FROM FERTILIZATION TO SENESCENCE
Chair: Peter Y. Liu, Harbor-UCLA Med Ctr and Los Angeles Biomed Res Inst
Fetal Programming of Adult Male Reproductive Function and Disorders
Richard M. Sharpe, Univ of Edinburgh, The Queen’s Med Res Inst (UK)
Declining Fertility Rates and Male Reproductive Disorders
Niels Erik Skakkebaek, Rigshospitalet and Univ of Copenhagen (Denmark)
The Testosterone Trials: What We Have Learned
Peter J. Snyder, Univ of Pennsylvania

62  METABOLIC AND THERAPEUTIC ASPECTS OF GROWTH HORMONE: USES, ABUSES, AND NOVEL THERAPEUTICS
Chair: Andrew R. Hofman, VA Palo Alto Hlth Care Syst
Adult Growth Hormone Replacement: Does It Make a Difference?
Whitney W Woodmansee, Brigham and Women’s Hosp/Harvard Med Sch
Abusing Growth Hormone to Enhance Athletic Performance
Larry D. Bowers, US Anti-Doping Agency
Long-Acting Growth Hormone: More Than Just Convenient?
Christian J. Strasburger, Charité-Universitätsmedizin (Germany)

63  NEW ROLES FOR RELAXIN IN HEALTH AND DISEASE
Chair: Robert G. Bennett, VA Nebraska-Western Iowa Hlth Care Syst
Relaxin and Its Roles in Organ Function and Disease
Christian S. Samuel, Monash Univ (Australia)
Hemodynamic Effects of Relaxin in Pregnancy and Beyond
Kirk P. Conrad, Univ of Florida Coll of Med
An Update on INSL3
Ravinder Anand-Ivell, Univ of Nottingham (UK)

64  NEW TECHNOLOGIES IN TYPE 1 DIABETES
Chair: Marie E. McDonnell, Brigham and Women’s Hosp
New Insulins: Are They Getting Better?
Chantal Mathieu, Catholic Univ Leuven (Belgium)
CGM: Past, Present, and Future
Larry A. Fox, Nemours Children’s Specialty Cln
Automating Glycemic Management in Diabetes
Melitus with a Bionic Pancreas
Steven J. Russell, Massachusetts Gen Hosp
**DIAGNOSIS AND TREATMENT OF ADULT MALE HYPOGONADISM**
Chair: Frederick C. W. Wu, Manchester Univ (UK)
Primary Hypogonadism
Claus H. Grawholt, Aarhus Univ Hosp (Denmark)
Secondary Hypogonadism
Shalender Bhasin, Brigham and Women’s Hosp/Harvard Med Sch
Alternatives for Testosterone in the Treatment of Late-Onset Hypogonadism
Mathis Grossmann, Univ of Melbourne/Austin Hlth (Australia)

**ENDOCRINE THERAPY RESISTANCE IN BREAST CANCER PATIENTS: PATHOGENESIS AND ITS CONQUEST**
Chair: Evan R. Simpson, Prince Henry’s Inst of Med Res (Australia)
Changes of Steroid Signatures in Breast Cancer after Endocrine Therapy
Man-Ho Choi, Korea Inst of Sci and Technology (South Korea)
Androgen Receptors in Breast Cancers Resistance to Estrogen Receptor-Driven Endocrine Therapies
Jennifer K. Richer, Univ of Colorado Anschutz Med Campus
Increased Androgen Actions in Breast Carcinoma
Kiyoshi Takagi, Tohoku Univ Graduate Sch of Med (Japan)
Profiling Circulating DNA for ER Mutations to Predict Tumor Progression
Steffi Oesterreich, Univ of Pittsburgh

**EPIGENETICS IN DIABETES: FROM DIAGNOSIS TO COMPLICATIONS**
Chair: Evan D. Rosen, Beth Israel Deaconess Med Ctr
Epigenetic Changes in Patients with Type 2 Diabetes and Impact on Insulin Secretion and Action
Charlotte Ling, Lund Univ Diabetes Ctr, Lund Univ Clinical Res Ctr (Sweden)
Epigenomic and Transcriptional Mechanisms of Insulin Resistance
Sona Kang, Beth Israel Deaconess Med Ctr
Epigenomic Identification of Regulatory Networks Underlying Insulin Resistance in Human Adipocytes
Linus Tzu-Yen Tsai, Beth Israel Deaconess Med Ctr
Epigenetic Diabetic Complications and Metabolic Memory
Rami Natarajan, Beckman Res Inst of City of Hope

**GLUCOCORTICOIDS IN BRAIN REMODELING**
Chair: Ashley B. Grossman, Univ of Oxford (UK)
Spine Remodeling in Stress
Freddy Jeanneteau, Inst de Genomique Fonctionnelle INSERM (France)
Stress and Memory Formation
Marian Joëls, Univ Med Ctr Utrecht (Netherlands)
Medial Prefrontal Cortex Involvement in Adaptive and Maladaptive Responses to Stress
Jason J. Radley, Univ of Iowa

**IGF IN AGING**
Chair: Charles T. Roberts, Oregon Natl Primate Res Ctr
The Role of Growth Hormone and Insulin-like Growth Factor-I in Aging Humans
Sofiya Milman, Albert Einstein Coll of Med
IGFs, Metabolism, and Aging
Christian Sell, Drexel Univ Coll of Med
IGF-1 and the Regulation of Brain and Cerebrovascular Aging
William E. Sonntag, Univ of Oklahoma Hlth Sci Ctr

**NOVEL DIAGNOSTIC APPROACHES IN ENDOCRINE HYPERTENSION**
Chair: Irima Bancos, Mayo Clin
Biomarkers of Adrenal Hypertension
Graeme Eisenhofer, Univ Hosp Carl Gustav Carus (Germany)
Clinical Applications of Steroid Hormone Measurements in Hair
Elisabeth F.C. van Rossum, Erasmus Univ Med Ctr (Netherlands)
Functional Imaging for Differential Diagnosis of Endocrine Hypertension
Andrew S. Powlish, Univ of Cambridge (UK)

**OMICS IN PCOS**
Chair: Helena Jane Teede, Monash Univ (Australia)
Functional Genomics of PCOS
Janette M. McAllister, Pennsylvania State Univ
Evolution and Pharmacogenomics in PCOS
Manuela Simoni, Univ di Modena e Reggio Emilia (Italy)
GWAS in PCOS
Andrea Dunaf, Northwestern Univ Feinberg Sch of Med

**THE EATOLOGY OF ENERGY BALANCE: NEURONAL CIRCUITS THAT REGULATE APPETITE**
Chair: Eleftheria Maratos-Flier, Beth Israel Deaconess Med Ctr
Unraveling Melanocortin Neural Circuits
Malcolm J. Low, Univ of Michigan Med Sch
Molecular Mechanisms Involved in Hypothalamic Development
Sebastien G. Bouret, Univ of Southern California
Central Regulation of Feeding and Reward by GLP-1
Karolina P. Skibicka, Inst of Neurosci and Physiol, Univ of Gothenburg (Sweden)
MEET-THE-PROFESSOR SESSIONS

For times and dates of MTP sessions, visit endo2016.org.

ADRENAL HPA AXIS

Adrenal Insufficiency in Intensive Care Patients
Baha M. Arafah, Univ Hosp Case Med Ctr/Case Western Reserve Univ

Adrenal Insufficiency: Individualized Management
Eystein S. Husebye, Haukeland Univ Hosp (Norway)

Congenital Adrenal Hyperplasia
Maria Vogiatzi, Children’s Hosp of Philadelphia

Pheochromocytomas and Paragangliomas
Lauren M. Fishbein, Univ of Pennsylvania

Primary Aldosteronism
William F. Young, Jr., Mayo Clinic

Primary Aldosteronism and Cardiometabolic Risk
Gail K. Adler, Brigham and Women’s Hosp

BONE, CALCIOTROPIC HORMONES, AND VITAMIN D

Applying DEXA and Other Imaging to Clinical Conundrums
Micol S. Rothman, Univ of Colorado Sch of Med

Cancer Treatment and Bone Health
Azeez Farooki, Mem Sloan Kettering Cancer Ctr

Hyperparathyroidism Management after Unsuccessful Parathyroid Surgery
Shonni J. Silverberg, Columbia Univ

Osteoporosis Drug Holidays: Data and Opinions
Nelson Watts, Mercy Hlth

Osteoporosis in Premenopausal Women
Elizabeth Shane, Columbia Univ Coll of Phys and Surg

Osteoporosis: Managing Patients Who Fracture on Osteoporosis Treatment
Carolyn Becker, Brigham and Women’s Hosp

Rickets
John M. Pettifor, Univ of Witwatersrand (South Africa)

Vitamin D Replacement in Patients with Malabsorption Disorders
Michael F. Holick, Boston Univ Med Ctr

DIABETES AND GLUCOSE METABOLISM

CGMS: Informing Day-to-Day Insulin Dose Decisions
Steven V. Edelman, Univ of California-San Diego VAMC

Diabetic Peripheral Neuropathy
Rodica P. Busui, Univ of Michigan

Controversies and Consequences of Gestational Diabetes for Mother and Child: More than Glucose
Linda A. Barbour, Univ of Colorado Hlth Scis

Exercise Prescriptions for Patients with Type 2 Diabetes
Irene E. Schauer, Univ of Colorado Sch of Med

Hyperglycemia Management in the Inpatient Setting
Cecilia C. Low Wang, Univ of Colorado Sch of Med

Individualizing Management with Insulin Pumps
Anthony L. McCall, Univ of Virginia Hlth Syst

Management of Hypoglycemia and Impaired Awareness of Hypoglycemia in Diabetes
Elizabeth R. Seaquist, Univ of Minnesota

Management of Type 1 Diabetes in Athletes
Michael C. Riddell, York Univ (Canada)

Management of Type 2 Diabetes in the Older Patient
Graham T. McMahon, Accreditation Council for Continuing Med Ed

U-500 Insulin: When and How to Use
Wendy S. Lane, Mountain Diabetes and Endocrine Ctr

LIPIDS AND VASCULAR BIOLOGY

Advanced Lipoprotein Analysis
Kenneth Feingold, Univ of California-San Francisco

Hypertriglyceridemia and Low HDL
Maria F. Lopes-Virella, Med Univ of South Carolina

Management of Severe Hypercholesterolemia
Marc-Andre Cornier, Univ of Colorado Sch of Med

NEUROENDOCRINOLOGY AND PITUITARY

Diabetes Insipidus: Principles of Diagnosis and Treatment
Joseph G. Verbalis, Georgetown Univ Med Ctr

Growth Hormone Deficiency
Ulla Feldt-Rasmussen, Copenhagen Univ Hosp, Rigshospitalet (Denmark)

Nonfunctioning Pituitary Adenomas and Incidentalomas
Jens Bollerslev, Oslo Univ Hosp (Norway)

Prolactinomas
Mark E. Molitch, Northwestern Univ Feinberg Sch of Med

Traumatic Brain Injury
Melinda Sheffield-Moore, Univ of Texas Med Br
OBESITY, ADIPOCYTE BIOLOGY, AND APPETITE

Bariatric Surgery Nutritional Management
William T. Donahoo, Kaiser Permanente

Obesity Medications
Louis J. Aronne, Weill Cornell Med Coll

Post-Bariatric Surgery Hypoglycemia
John P. Bantle, Univ of Minnesota

PEDICIAN ENDOCRINIOLOGY

Diabetes Insipidus in Children
Craig A. Alter, Children’s Hosp of Philadelphia

Bone Fragility in Children: When to Worry and What to Do
Laura K. Bachrach, Stanford Med Ctr

Disorders of Sexual Differentiation in Newborns, Infants, and Children
Nils P. Krone, Univ of Birmingham Ctr for Endocrinology, Diabetes and Metab (UK)

Endocrine Effects of Cancer Treatment
Sebastian J.C.M.M. Neggers, Erasmus Univ Med Ctr (Netherlands)

Hypoparathyroidism in Children
Rachel I. Gafni, Natl Inst of Dent and Craniofacial Res/NIH

MODY and Other Monogenic Forms of Diabetes
Mark A. Sperling, Children’s Hosp of Pittsburgh/Univ of Pittsburgh Sch of Med

Puberty Disorders in Girls
Sally Radovick, Johns Hopkins Sch of Med

Thyroid Nodules and Cancer Guidelines in Children
Gary L. Francis, Med Coll of Virginia

REPRODUCTIVE ENDOCRINOLOGY

Bioidentical Hormone Replacement
JoAnn V. Pinkerton, Univ of Virginia

Care of the Adult Woman with Turner Syndrome
Amanda Vincent, Monash Med Ctr/Monash Hlth (Australia)

Female Sexual Dysfunction: Do Hormones Help?
Susan R. Davis, Monash Univ (Australia)

Menopause: Weighing the Options
Janet E. Hall, Natl Inst of Environ Hlth Scis/NIH

Polycystic Ovarian Syndrome
Margaret E. Wierman, Univ of Colorado Sch of Med and Res Svc/VAMC

Testosterone Replacement Therapy in Hypogonadal Men
Alvin M. Matsumoto, VA Puget Sound Hlth Care Syst

THYROID/HPT AXIS

Graves’ Orbitopathy: Evaluation and Management
Marius N. Stan, Mayo Clin

Hyperthyroidism: Difficult Cases
Henry B. Burch, Walter Reed Natl Milt Med Ctr

Hypothyroidism in the Elderly
Anne R. Cappola, Univ of Pennsylvania Perelman Sch of Med

Hypothyroidism: Patients Who Don’t Have Perfect Outcomes with Levothyroxine
James V. Hennessey, Beth Israel Deaconess Med Sch

Thyroid Disease in Pregnancy
Elizabeth N. Pearce, Boston Univ Med Ctr

OTHER TOPICS

Hypoglycemic Disorders
Adrian Vella, Mayo Clinic

Endocrine Consequences of Opiate Therapy
Ken Ho, Princess Alexandra Hosp (Australia)

Neurohumoral Syndromes
Aaron I. Vinik, Eastern Virginia Med Sch

Sports Medicine and Endocrinology
Lauren M. Sparks, Florida Hosp/Sanford-Burnham Med Res Inst, Translat Res Inst for Metab and Diabetes

What’s New in the Management of Multiple Endocrine Neoplasia Type 2
Robert F. Gagel, Univ of Texas MD Anderson Cancer Ctr

FOR MORE INFORMATION, VISIT ENDO2016.ORG
CASE MANAGEMENT FORUM SESSIONS

Case Management Forums are designed to provide an interactive and patient-oriented management discussion for clinicians attending ENDO 2016. For times and dates of CMF sessions, visit endo2016.org.

**ADRENAL HPA AXIS**
Adrenal Insufficiency, Subclinical, and Adrenal Fatigue
James W. Findling, Med Coll of Wisconsin
Richard J. Auchus, Univ of Michigan

Adrenal Mass Evaluation and Management
Mouhammed A. Habra, Univ of Texas MD Anderson Cancer Ctr
Anand Vaidya, Brigham and Women's Hosp/Harvard Med Sch

**DIABETES AND GLUCOSE METABOLISM**
ADA and AACE Guidelines for Individualized Diabetes Management
Lawrence Blonde, Ochsner Med Ctr
Silvio E. Inzucchi, Yale Sch of Med

**NEUROENDOCRINOLOGY AND PITUITARY**
Acromegaly: Navigating the Difficult Cases
Peter J. Trainer, Christie NHS Fdn Trust (UK)
Katja Kiseljak-Vassiliades, Univ of Colorado Sch of Med

Cushing Disease: Challenging Cases
Lynnette K. Nieman, NIH
Janice M. Kerr, Univ of Colorado Anschutz Med Campus

Imaging and Radionuclide Therapy of Neuroendocrine Tumors
David A. Pattison, Peter MacCallum Cancer Ctr (Australia)
Thomas M. O’Dorisio, Univ of Iowa

**REPRODUCTIVE ENDOCRINOLOGY**
Transgender Care in Adults
Joshua D. Safer, Boston Univ Sch of Med
Benjamin Boh, Dartmouth-Hitchcock Med Ctr

**THYROID/HPT AXIS**
Euthyroid Sick Syndrome: To Treat or Not?
Gregory A. Brent, VA Greater Los Angeles Hlthcare Syst/Univ of California–Los Angeles
Alan P. Farwell, Boston Med Ctr

Thyroid Cancer: Advanced Cases
Mona M. Sabra, Mem Sloan Kettering Cancer Ctr
Bryan R. Haugen, Univ of Colorado Med Sch

Thyroid Function Tests That Don’t Make Sense
Jacqueline Jonklaas, Georgetown Univ Med Ctr
Virginia D. Sarapura, Univ of Colorado-Denver/Anschutz Med Campus

Thyroid Nodules: What Molecular Markers are Most Useful?
Steven P. Hodak, New York Univ/Langone Med Ctr
Bryan McIver, Moffitt Cancer Ctr

**OTHER TOPICS**
Endocrine Tumor Genetics: Challenging Issues
Márta Korbonits, Barts and London Sch of Med (UK)
Tobias Else, Univ of Michigan

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**1969**

Discovery of Thyrotropin-Releasing Hormone (TRH)
R. Guillemin and A. V. Schally

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**Discovery of Thyrotropin-Releasing Hormone (TRH)**

R. Guillemin and A. V. Schally
OTHER SCIENTIFIC SESSIONS

MASTER CLINICIAN SESSIONS

DIABETES MELLITUS: CHALLENGES TO OPTIMAL MANAGEMENT
SATURDAY, APRIL 2
4:45 – 5:45 PM
Moderator: Jane Reusch, Univ of Denver-Colorado/ Denver VAMC
Experts: Jennifer Larsen, Univ of Nebraska and Olufemi A. Fasanmade, Lago Univ Teaching Hosp (Nigeria)

EVALUATION AND MANAGEMENT OF ADRENAL NEOPLASIAS
SUNDAY, APRIL 3
4:45 – 5:45 PM
Moderator: Richard A. Feelders, Erasmus Med Ctr (Netherlands)
Experts: Hirotaka Shibata, Oita Univ (Japan) and Ana Claudia Latronico, Univ of São Paulo (Brazil)

CLINICAL PRACTICE GUIDELINES SESSIONS

MOC available for guideline sessions.

DIABETES TECHNOLOGY: AN ENDOCRINE SOCIETY CLINICAL PRACTICE GUIDELINE
FRIDAY, APRIL 1
9:45 – 10:45 AM
Moderator: Jane Reusch, Univ of Denver-Colorado/ Denver VAMC
Task Force Chair: Anne Peters, Univ of Southern California

HORMONAL REPLACEMENT IN HYPOPITUITARISM: AN ENDOCRINE SOCIETY CLINICAL PRACTICE GUIDELINE
SATURDAY, APRIL 2
8:30 – 9:30 AM
Moderator: Steve Waguespack, Univ of Texas MD Anderson Cancer Ctr
Task Force Chair: Maria Fleseriu, Oregon Hlth and Sci Univ

PREVENTION AND TREATMENT OF PEDIATRIC OBESITY: AN ENDOCRINE SOCIETY CLINICAL PRACTICE GUIDELINE
SUNDAY, APRIL 3
8:30 – 9:30 AM
Moderator: Ilene Fennoy, Columbia Univ Med Ctr
Task Force Chair: Dennis Styne, Univ of California-Davis Med Ctr

ENDOCRINE “YEAR IN” SESSIONS

FRIDAY, APRIL 1
11:30 – 12:30 PM
A Century of Progress in Thyroid Physiology and Disease
Paul W. Ladenson, Johns Hopkins Univ Sch of Med
12:15 – 1:15 PM
A Year in Progress in GPCR Research
Deborah L Segaloff, Univ of Iowa Carver Coll of Med

SUNDAY, APRIL 3
2:00 – 3:00 PM
The Year In Endocrine Genetics
Mark Goodarzi, Cedars-Sinai Med Ctr

EX-VIVO MODELS OF ENDOCRINE TISSUES: BREAST AND PROSTATE
SUNDAY, APRIL 3
3:30 – 4:15 PM
Renea Taylor, Monash Univ (Australia) and Second Speaker To Be Determined

CRISPR-CAS9 TECHNOLOGY
SUNDAY, APRIL 3
3:30 – 4:15 PM
Speaker To Be Determined

ENDOCRINE DEBATE
ARE THERE LONG-TERM RISKS IN PEDIATRIC GROWTH HORMONE TREATMENT?
SATURDAY, APRIL 2
2:15 – 3:00 PM
Point: Risks with Long-Term Use of GH are Plausible
Jean-Claude Carel, Robert Debré Hosp, Univ Paris Diderot (France)
Counter Point: Long-Term Use of GH is Safe
Ron G. Rosenfeld, Oregon Hlth and Sci Univ/STAT5, LLC

BEST OF JCEM 2015
SUNDAY, APRIL 3
12:45 – 2:45 PM
4:45 – 6:45 PM
Best of JCEM 2015 will feature authors whose manuscripts were most highly rated by our peer-review process and appeared in print during the year 2015. Each sub-specialty area of endocrinology will be represented by one presentation. This is an ideal opportunity to celebrate the quality of work published in JCEM and catch up on outstanding progress in areas you may not have been able to keep up with.
OTHER SCIENTIFIC SESSIONS (CONTINUED)

SPECIAL FOOD AND DRUG ADMINISTRATION SESSION

INSIDE THE FDA: AN OVERVIEW OF CLINICAL CHALLENGES
SUNDAY, APRIL 3
3:30 – 4:30 PM

Introduction to the FDA
Smita Abramson, Ctr for Drug Evaluation and Research, US Food and Drug Administration

Clinical Challenges Facing the FDA
Jean-Marc P. Guettier, Ctr for Drug Evaluation and Research, US Food and Drug Administration

SPECIAL SESSION ON ENDOCRINE DISRUPTING CHEMICALS

INTERACTIVE LEARNING ABOUT ENDOCRINE DISRUPTING CHEMICALS: YOUR VOTE COUNTS
FRIDAY, APRIL 1
2:15 – 3:45 PM

Jean-Pierre Bourguignon, Univ of Liege
R. Thomas Zoeller, Univ of Massachusetts

SPECIAL MEET-THE-PROGRAM DIRECTORS SESSIONS

FRIDAY, APRIL 1
3:30 – 4:15 PM

Meet the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) Program Directors

SATURDAY, APRIL 2
3:30 – 4:15 PM

Meet the Eunice Kennedy Shriver National Institute of Child Health (NICHD) Program Directors

SUNDAY, APRIL 3
3:30 – 4:15 PM

Meet the National Institute of Environmental Health Sciences (NIEHS) Program Director and the Center for Scientific Review (CSR) Officer

ORAL AND POSTER PREVIEW SESSIONS

ORAL SESSIONS
FRIDAY, APRIL 1 – SUNDAY, APRIL 3
11:45 AM – 1:15 PM

MONDAY, APRIL 4
10:00 – 11:30 AM

POSTER PREVIEW PRESENTATIONS
FRIDAY, APRIL 1 – SUNDAY, APRIL 3
11:30 – 11:45 AM

Prior to select oral sessions, exceptional poster presenters with high-scoring abstracts will give brief podium presentations as a poster preview. Up to four presenters, each having three minutes and three slides, will highlight the significance of their research and details to when and where their full poster will be displayed.

POSTER SESSIONS
FRIDAY, APRIL 1 – SUNDAY, APRIL 3
Located in the ENDOExpo hall

Visit the Expo and view the latest scientific research among the more than 2,000 anticipated posters spread across three days. Take the opportunity to explore, network, and meet the author during the afternoon presentations.

POSTERS ON DISPLAY DAILY
10:30 AM – 3:30 PM

PRESENTATIONS
1:15 – 3:15 PM

PRESIDENTIAL POSTER COMPETITION
FRIDAY, APRIL 1 – SUNDAY, APRIL 3
1:15 – 3:15 PM

Located in the ENDOExpo hall

Trainees who have first-authored top-scoring abstracts selected for poster presentation are invited to participate in the Presidential Poster Competition. Competitors will be acknowledged on the ENDOExpo floor and judged by expert faculty in their respective field of endocrinology. This prestigious competition recognizes excellence in endocrine research.
**TRAVEL**

**TOUR INFORMATION**
The greater Boston area is a wonderful blend of stylish sophistication and historic New England charm. You can easily uncover the city’s past while enjoying its distinctively modern edge. There is something for everyone. Attend one of the many events, walk the famous Freedom Trail, dine in one of the new restaurants or an old favorite, shop, take a tour... the possibilities are endless! For more information on things to do in Boston, visit bostonusa.com/visit/bostoneveryday.

**LETTER OF INVITATION**
If you require a letter of invitation to participate in ENDO 2016, check the appropriate box on the online registration website and a letter will be forwarded to you with your confirmation. Pre-registration is required.

**ITALIAN PHARMA SPONSORSHIP**
Italian pharmaceutical companies wishing to sponsor ENDO 2016 should refer (as imposed by the Italian Ministry of Health) to:

Mr. Angel Napolitano
Official Agency for AIFA, Italian Ministry of Health
Viva Group Srl serving ABTS Convention Services
Viale di Trastevere, 244
Rome, ITALY
Email: napolitano@abtscs.com
Phone: +39 (06) 9028 6041

**ONLINE APPLICATION REQUIRED FOR OVERSEAS VISITORS**
Please visit travel.state.gov/content/visas/en/visit/visa-waiver-program.html for up-to-date information on the Visa Waiver Program and official travel policies to the United States.

**PARKING**
Valet parking and self-parking options are available via Summer Street during ENDO 2016 hours. Visit signatureboston.com/bcec/getting-to-the-bcec.aspx for full directions to the parking locations.

**PRICING**
Valet parking: $25
Self-parking (BCEC South Parking Lot): $15 for standard vehicles, $30 for oversized vehicles

**PUBLIC TRANSPORTATION TO BOSTON CONVENTION AND EXHIBITION CENTER**
The Boston Convention and Exhibition Center is located at 415 Summer Street, Boston, MA 02210. The Massachusetts Bay Transportation Authority (MBTA) subway system’s Silver Line stops at all Boston Logan Airport terminals and has two stops with access to the BCEC at South Station and World Trade Center. For full information on subway locations and schedules, visit mbta.com.

**TRAVEL DISCOUNTS**
MacNair Travel Management is the official travel company for ENDO 2016. Take advantage of the following cost-saving benefits:

**DELTA AIRLINES**
Up to 10% off depending on booking class.
Valid travel dates: March 28 – April 7, 2016
Discount Code: NMMLE

**UNITED AIRLINES**
Up to 10% off depending on booking class.
Valid travel dates: March 29 – April 7, 2016
Discount Code: ZVWF (Z-Code) 644978 (Agreement Code)

**RESERVATIONS**
MacNair Travel consultants are available for reservations Monday through Friday, 8:30 AM to 7:00 PM ET (US). Make reservations by calling +1.855.484.0545 (domestic), +1.703.687.1791 (international), or emailing orobinson@macnairtravel.com. You may also receive ENDO 2016 discounts when you call your own agency or book directly through participating airlines.

**AIRPORT SHUTTLE**
Go Boston Shuttle offers affordable shared airport shuttle service to and from your hotel. To book your reservation, visit gobostonshuttle.com.
HOUSING

KEY DEADLINES
Regular Attendee Reservation Deadline:
March 8, 2016 at 5:00 PM ET (US)
Group/Exhibitor Reservation Deadline:
March 8, 2016 at 5:00 PM ET (US)

ENDO 2016 HOUSING BLOCK
Book your hotel reservation through the ENDO 2016 Housing Bureau and reap the benefits. You will receive the best rates, optimal location, and best networking opportunities.

METHODS OF HOUSING RESERVATION
Important Notice Regarding Hotel Reservation:
onPeak is the only officially-endorsed housing company for ENDO 2016
The Society has received reports that other companies are posing as official housing vendors for ENDO 2016. They are NOT affiliated with ENDO 2016 in any capacity. For your own protection, we ask that you exercise caution when making your hotel arrangements. Unofficial vendors cannot provide the same benefits and protection onPeak offers. ENDO 2016 only guarantees hotel room rates or availability during the show dates for reservations made through onPeak, the official housing company.

Do not use more than one method of reservation or you may be charged twice. Housing reservations without a credit card guarantee will not be processed. Group rates cannot be guaranteed past the deadline of March 8, 2016. If you wish to extend your stay beyond ENDO 2016, we will attempt to secure a room for you at your choice of hotel; however, room occupancy and group rates may not be available.

SHUTTLE SERVICE
Complimentary shuttle service between the official hotels and the Boston Convention and Exhibition Center (BCEC) will be provided to attendees who have made room reservations through the official housing company (onPeak).

Attendees who do not reserve their hotel rooms through the Society’s official housing company (onPeak) must purchase a shuttle pass to ride shuttle buses. The shuttle pass is $75.

CHANGES/CANCELLATIONS
Cancellations received within 72 hours of check-in will be charged one night’s room and tax by the hotel. Housing reservations must be received by the official ENDO housing company, onPeak, by March 8, 2016, at 5:00 PM ET (US). All changes and cancellations up to March 24, 2016, must be made online, email, or by phone with onPeak. Any changes after March 24, 2016 must be made directly with the hotel.

CHILDCARE INFORMATION
The Endocrine Society will not be sponsoring childcare. Those requiring childcare during the meeting must make arrangements on their own.

GROUP/EXHIBITOR HOUSING RESERVATIONS
Group/Exhibitor Reservation Deadline:
March 8, 2016, at 5:00 PM ET (US)
All groups and exhibiting companies requiring 10+ rooms must submit a request via the ENDO Online Group Housing Request Form. Requests will be approved on a first-come, first-served basis.

HAVE HOUSING QUESTIONS?
EMAIL: ENDOHotels@onpeak.com
PHONE (DOMESTIC): +1.855.992.3353
PHONE (INTERNATIONAL): +1.312.329.9513
REGISTRATION

PREMIUM REGISTRATION PACKAGE
Best value for clinical attendees. Save up to $150 on ENDO 2016 Session Recordings, and get a free Meet-the-Professor Endocrine Case Management book.

<table>
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<th>REGISTRATION TYPE</th>
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<th>REGULAR (Jan 14 – Feb 25)</th>
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STANDARD REGISTRATION
Includes ENDO 2016 registration only. DOES NOT include Session Recordings or Meet-the-Professor Endocrine Case Management book.

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<tr>
<td>Guest</td>
<td>$100</td>
<td>$100</td>
<td>$100</td>
</tr>
</tbody>
</table>

ONE DAY REGISTRATION PACKAGE

<table>
<thead>
<tr>
<th>REGISTRATION TYPE</th>
<th>EARLY (Now – Jan 13)</th>
<th>REGULAR (Jan 14 – Feb 25)</th>
<th>LATE (Feb 26 – Apr 4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Member</td>
<td>$269</td>
<td>$349</td>
<td>$399</td>
</tr>
<tr>
<td>Nonmember</td>
<td>$409</td>
<td>$519</td>
<td>$559</td>
</tr>
<tr>
<td>In-Training/PA/NP/RN/ENS Member</td>
<td>$139</td>
<td>$159</td>
<td>$189</td>
</tr>
<tr>
<td>Early Career Member</td>
<td>$169</td>
<td>$189</td>
<td>$219</td>
</tr>
</tbody>
</table>

KEY DATES

EARLY/GROUP REGISTRATION:
Now – January 13, 2016

LATE-BREAKING ABSTRACT SUBMISSION:
January 19 – February 17, 2016

REGULAR REGISTRATION:
January 14 – February 25, 2016

CANCELLATION AND REFUND REQUEST DEADLINE:
February 25, 2016

LATE/ONSITE REGISTRATION:
February 26 – April 4, 2016

HOUSING REQUEST DEADLINE
March 8, 2016

HOW TO REGISTER

Online: endo2016.org
Mail: Endocrine Society
c/o Convention Data Services
107 Waterhouse Road
Bourne, MA 02352
Phone: +1.774.247.4000
Fax: +1.508.743.9684

MARK YOUR CALENDARS FOR FUTURE MEETINGS

ENDO 2017
APRIL 1 – 4, 2017 (SATURDAY – TUESDAY)
Orlando, Florida
PAYMENT
Registrations without full payment will not be processed. Do not use more than one method of registration or you may be charged twice.

DISCOUNTED MEMBER REGISTRATION RATES
Become an Endocrine Society member to save up to $770 off the nonmember registration rate!* To receive the discounted registration rates, be sure to become a member before registering for ENDO 2016.** To apply or renew your membership, visit the Endocrine Society website at endocrine.org/renew.
*Membership registration rates are valid with paid 2016 membership dues.
**Current members must renew membership for 2016 prior to ENDO 2016 registration.

IN-TRAINING MEMBER GROUP DISCOUNT
Register two in-training members and get the third in-training member registration FREE. Must register by February 25, 2016, to qualify.
Other requirements:
• Hotel accommodations MUST be booked through ENDO 2016 Housing Bureau or offer will not be valid (does not apply to local registrants)
• Everyone in the group must be from the same organization, department, and city
• Group registration payment must be made with one transaction
• Maximum number of free registrants is four (4)
• All forms must be submitted at the same time

CHANGES/CANCELLATIONS
All cancellations must be received in writing. Registrants that cancel will not be provided the (MTP Case Management) book or Session Recordings. However, these publications and products are available for individual purchase on the Endocrine Society’s online store.
Cancellations made by January 13, 2016, will receive a full refund, minus a $75 processing fee. Requests for changing from the Premium Package to the Standard Package will not be honored.
Cancellations made between January 14, and February 25, 2016, will receive a 50% refund. After February 25, no refunds will be issued for cancellations or for no-shows.
The Endocrine Society reserves the right to charge the correct amount if different from the total payment listed. Send requests for refunds to:
MAIL: Endocrine Society
c/o Convention Data Services
107 Waterhouse Road
Bourne, MA 02352
PHONE: +1.774.247.4000
FAX: +1.508.743.9684
EMAIL: ENDO@xpressreg.net
CONTACT INFORMATION

ENDOCRINE SOCIETY
Phone: +1.202.971.3636
Toll Free in the US: 888.363.6274
Email: societyservices@endocrine.org

MEMBERSHIP
Phone: +1.202.971.3646
Email: societyservices@endocrine.org

MEDIA
Aaron Lohr
Phone: +1.202.971.3654
Email: media@endocrine.org

REGISTRATION
Regular, Group, or Exhibitor
Mail: Endocrine Society
c/o Convention Data Services
107 Waterhouse Road
Bourne, MA 02352
Phone: +1.774.247.4000
Fax: +1.508.743.9684
Email: ENDO@xpressreg.net

HOUSING
Regular, Group, or Exhibitor
Mail: Endocrine Society
c/o onPeak
350 N. Clark Street
Suite 200
Chicago, IL 60654
Phone (Domestic): +1.855.992.3353
Phone (International): +1.312.527.7300
Email: ENDOHotels@onpeak.com
Fax: +1.312.329.9513
If faxing, do not mail as well, or you will be double-charged.
ENDO 2016 SUPPORTERS
The Endocrine Society would like to thank the following supporters of ENDO 2016. The support helps the Society provide a relevant and superior program for all participants.

ENDO 2016 Supporters as of November 25, 2015.
SAVE WITH PREMIUM PACKAGE REGISTRATION

Register now for the Premium Registration Package. It includes ENDO 2016 registration fees, Session Recordings, and the *Meet-the-Professor Clinical Case Management* book.

ENDO 2016 Session Recordings features more than 100 clinical and translational sessions captured live.

- Audio synchronized with slides
- Delivered exclusively online
- Easy-to-download MP3 files
- Includes participating clinical and translational sessions

Take advantage of this special offer before prices increase!

[endo2016.org](http://endo2016.org)