RENAL WEEK 2009

Preliminary Program

RENAL WEEK 2009: OCTOBER 27 – NOVEMBER 1 | EXHIBIT DATES: OCTOBER 29 - 31

THREE WAYS TO REGISTER:

Online: www.asn-online.org

Mail: ASN Registration
PO Box 890658
Charlotte, NC 28289-0658

Fax: (905) 479-9297
Most of the country will wear winter attire in November, but Renal Week 2009 participants can leave their parkas at home when traveling to a city the U.S. National Weather Service calls the “most nearly perfect climate in America.”

In San Diego, attending Renal Week programs is one of the only reasons to stay indoors. San Diego’s beaches provide a wide assortment of activities for the adventurous and a picturesque paradise for those who prefer to relax. Attendees can enjoy a 70-mile long stretch of sand and sea and more than 33 beaches.

Other San Diego attractions include the world-famous San Diego Zoo, Wild Animal Park, SeaWorld, Reuben H. Fleet Science Center, Cabrillo National Monument, Maritime Museum of San Diego, Legoland California, and more than 90 golf courses (Golf Digest named San Diego
Accreditation
The American Society of Nephrology (ASN) is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

CME Credit Designation
ASN designates this educational activity for a maximum of 33 AMA PRA Category 1 Credits™. Physicians may only claim credit commensurate with the extent of their participation in the activity.

Educational Objectives
At the conclusion of this meeting, attendees will be able to:

1. Identify recent discoveries in basic, translational, and clinical research in nephrology.
2. Construct new research questions in nephrology based on updated scientific and clinical advances in nephrology-related disciplines.
3. Translate recent advances in the areas of general nephrology dialysis, transplantation, and hypertension into new standards and approaches to clinical care of patients with kidney diseases and related disorders.

Target Audience
• Physicians
• Researchers
• Fellows-in-Training

ASN® Trademark
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After all the Renal Week activities, you will definitely want to relax and network with colleagues over world class cuisine. For more information about the city’s 6,000 restaurants, or other city information, visit The San Diego Convention and Visitors Bureau at http://www.sandiego.org/visitorcenter.asp.

See you in San Diego!
### Renal Week Highlights

#### Renal Week 2009

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<td>October 27 - 28</td>
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<td>Epigenetics: Regulating the Genome in Development and Disease</td>
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<td>In-Depth Nephrology Courses</td>
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<td>Professional Development Seminar</td>
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<td>Early and Mid-Career Components</td>
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<td>42nd Annual Meeting and Scientific Exposition</td>
<td>October 29 - November 1</td>
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#### Future Renal Week Dates

<table>
<thead>
<tr>
<th>Year</th>
<th>Dates</th>
<th>Location</th>
<th>City</th>
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<tbody>
<tr>
<td>2010</td>
<td>November 16 - 21, 2010</td>
<td>Colorado Convention Center</td>
<td>Denver, Colorado</td>
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#### Renal Week 2009 Learning Pathways:
- Acute Kidney Injury
- Bone and Mineral Metabolism
- Cell and Transport Physiology
- Chronic Kidney Disease
- Development
- Dialysis
- Glomerulonephritis
- Hypertension and Cardiovascular Disease
- Novel Translational Approaches
- Pathology
- Renal Cystic Diseases
- Transplantation/Immunology

#### Renal Week 2009 Meetings-Within-a-Meeting:
- Epithelial Transport and Cell Biology
- Renal Immunology and Transplantation
- New Insights into Glomerular Structure and Function
- Kidney Development and Stem Cells

#### Renal Week Faculty

The Renal Week faculty list is online at www.asn-online.org. Please note that this list is updated periodically. You may direct any questions regarding the faculty and/or the educational program to education@asn-online.org.

### State-of-the-Art Lecturers

- Roger Tsein, PhD
- Kári Stefánsson, MD
- Bruce Beutler, MD
- Tony Fawson, PhD

### Endowed Lecturers

- Barry M. Brenner Lecture: Oliver Smithies, PhD
- Robert W. Schrier Lecture: Thomas Kleyman, MD
- Jack W. Coburn Lecture: L. Darryl Quarles, MD
- Christopher R. Blagg Lecture: Bernard Lo, MD

### ASN Award Winners

- John P. Peters Award: William E. Mitch, MD, FASN
- Young Investigator Award: Mattias Kretzler, MD
- Robert G. Narins Award: Burton D. Rose, MD
- Homer W. Smith Award: René Bindels, MD
- Belding H. Scribner Award: James E. Cimino, MD
President’s Message

I am pleased to invite you to attend Renal Week 2009, taking place in San Diego, California, October 27 - November 1, 2009. The theme for the annual meeting is “Improving Lives through Kidney Care, Research, and Education.”

This year’s program, designed to appeal to all Renal Week participants, covers major areas in basic, translational, and clinical sciences. In particular, four featured topics will be highlighted at this year’s meeting: Epithelial Transport and Cell Biology; Renal Immunology and Transplantation; New Insights into Glomerular Structure and Function; and Kidney Development and Stem Cells. Each day will begin with a plenary State-of-the-Art lecture given by an internationally recognized scientist on topics that interest a broad range of attendees. Thursday morning, the 2008 recipient of the Nobel Prize in Chemistry, Roger Tsien, PhD, will discuss his groundbreaking work on “The Use of Fluorescent Proteins for Biomedical Discovery”; Friday morning Kári Stefánsson, MD, will speak on “Genetic Associations in Complex Human Diseases”; Saturday morning Bruce Beutler, MD, will deliver a lecture on “Genetic Insights into the Innate Immune System,” and Sunday morning Tony Pawson, PhD, will deliver a lecture on “Signal Transduction Mechanisms in the Kidney.”

Each featured topic will be the focus of its own Meeting-Within-a-Meeting, which will consist of clinical and basic science symposia as well as free communication (oral) sessions on exciting aspects of the featured topic. Each Meeting-Within-a-Meeting will take place in the same physical location throughout Renal Week to encourage a sense of community and promote scientific interchange.

The Program Committee and the Postgraduate Education Committee have developed a truly outstanding and broad array of Clinical Nephrology Conferences and Basic and Clinical Science Symposia. Additional highlights include the Barry M. Brenner lecture on “The Gel Filtration Hypothesis” by Oliver Smithies, PhD; the Robert W. Schrier lecture on “Proteolytic Regulation of ENaC in Health and Disease” by Thomas Kleyman, MD; the Jack W. Coburn lecture on “FGF23 and its Receptors: Lessons From Studies in Mice” by L. Darryl Quarles, MD; and the Christopher R. Blagg lecture on “How to Identify and Manage Conflicts” by Bernard Lo, MD. I am particularly grateful to Program Committee Chair Raymond Harris, MD, FASN, and Postgraduate Education Director, Renal Week Mark Rosenberg, MD, for their brilliant leadership, and to the dedicated members of the Program and Postgraduate Education Committees for their hard work and creativity in formulating a spectacular program. The close collaboration between Dr. Harris and Dr. Rosenberg contributed greatly to the success of the programming process.

Renal Week is a wonderful occasion to celebrate the legacy of leaders in nephrology research, clinical care, and education at the morning plenary sessions. On Thursday morning, the John P. Peters Award will be presented to William E. Mitch, MD, FASN. On Friday morning, Mattias Kretzler, MD will present a lecture about his work applying systems biology to the study of kidney diseases when he receives the Young Investigator Award. This will be followed by presentation of the Robert G. Narins Award to Burton D. Rose, MD. On Saturday morning, René Bindels, MD will discuss his groundbreaking work on the epithelial channels for calcium and magnesium in the kidney during his receipt of the Homer W. Smith Award. On Sunday morning, the Belding H. Scribner Award will be presented to James E. Cimino, MD.

The San Diego Convention Center, a lovely venue on San Diego Bay, has consistently drawn the praise of annual meeting participants. In short, Renal Week 2009 will be terrific. I urge you to join old and new friends in attending the world’s largest and most outstanding meeting devoted to the latest advances in nephrology research, clinical care, and education.

Thomas M. Coffman, MD, FASN
President, American Society of Nephrology
ADVANCES IN RESEARCH CONFERENCE
Tuesday, October 27 - Wednesday, October 28, 2009

Epigenetics: Regulating the Genome in Development and Disease
ASN thanks its Basic Science Committee for assistance with this program.
Chairs: Gregg Dressler, PhD and Richard Quigg, MD
Twenty internationally renowned investigators will discuss current topics in epigenetics and gene regulation as they relate to human development and disease states. Epigenetic regulation of the human genome is essential for determining the differentiated state of cells and maintaining pluripotency of stem cells in all tissues of the body. The first session will introduce the latest developments in chromatin biology, including nucleosome assembly and structure, the regulation of histone methylation and demethylation, and the impact of DNA methylation on gene expression. Session two will address more specific topics in stem cell biology and development that highlight mechanisms essential for cell lineage determination and stem cell identity. The third session will focus on the role of non-coding and micro RNAs in regulating genome activation and repression and whole genome technology for mapping epigenetic effects. The impact of epigenetic phenomenon on the initiation and progression of human disease is the focus of the last session.

In-Depth Nephrology Courses
Tuesday, October 27 - Wednesday, October 28, 2009

CKD and CVD from the Vascular Viewpoint: Merging Basic and Clinical Sciences to Optimize Treatment
ASN thanks its Chronic Kidney Disease and Hypertension Advisory Groups and the American Heart Association – Kidney Council (AHA – KC) for assistance with this program.
Chairs: Frank C. Brosius, III, MD; Moshe Levi, MD, FASN; and Raymond R. Townsend, MD
The linkage between cardiovascular disease (CVD) and chronic kidney disease (CKD) is well established. Specific segments in the chain will be examined to review where the “weak” links are, how to leverage them in treatment regimens, and what remains to be done in this vital area.

Critical Care Nephrology: 2009 Update
ASN thanks its Acute Kidney Injury Advisory Group for assistance with this program.
Chairs: Lakhmir S. Chawla, MD and Paul M. Palevsky, MD, FASN
This course is designed for trainees and practicing nephrologists who care for critically ill patients with kidney disease. Critical care medicine topics relevant to the practicing nephrologist and nephrologic issues encountered in the ICU will be reviewed, with focus on pharmacologic and dialytic management of acute kidney injury (AKI) and the treatment of intoxications.

Fundamentals of Renal Pathology
ASN thanks the Renal Pathology Society (RPS) for assistance with this program.
Chair: Agnes B. Fogo, MD
Lectures and hands-on workshops will provide a basic introduction to renal pathology, including the common medical conditions affecting the kidney and transplanted kidney. Participants are provided with microscopes and slides of key biopsies that they will review with the course faculty pathologists.

Geriatric Nephrology: An Epidemiologic and Clinical Challenge
ASN thanks the International Society for Geriatric Nephrology and Urology (ISGNU) for assistance with this program.
Chairs: Dimitrios G. Oreopoulos, MD, PhD; Jeff M. Sands, MD, FASN; and Jocelyn Wiggins, BM, BCH
Training in geriatric nephrology is now a mandatory requirement for nephrology fellowship programs. This course will provide an introduction for fellows and an outline for training and faculty who want to teach geriatric nephrology. It will highlight unique considerations in managing older patients with chronic kidney disease and other conditions common in the elderly.
Glomerulonephritis Update: Diagnosis and Therapy 2009
ASN thanks its Glomerular Diseases Advisory Group for assistance with this program.

Chairs: Gerald B. Appel, MD, FASN; Patrick H. Nachman, MD, FASN; and Jai Radhakrishnan, MD, FASN

This course reviews the newest data on the pathology, pathogenesis, and clinical management of the various glomerular diseases. Lectures, case-based discussions and an interactive audience response system will provide participants with the latest information on the common glomerular syndromes and managing the more unusual disorders.

Interventional Nephrology for the General Nephrologist
ASN thanks the American Society of Diagnostic and Interventional Nephrology (ASDIN) for assistance with this program.

Chairs: Ivan D. Maya, MD and Steven Wu, MD

Interventional nephrology has grown exponentially in the last 10 years. This in-depth course offers general nephrologists and renal fellows an opportunity to learn state-of-the-art diagnostic ultrasound for vascular access and kidneys, renal biopsy, placement of tunneled hemodialysis catheters and peritoneal dialysis catheters, monitoring, and interventional procedures of hemodialysis vascular access. This course emphasizes different interventional techniques in workshops providing hands-on training.

Kidney Transplantation for the General Nephrologist
ASN thanks its Transplant Advisory Group and the American Society of Transplantation (AST) for assistance with this program.

Chairs: Anil Chandraker, MBChB, FASN and Milagros D. Samaniego-Picota, MD, FASN

Renal transplantation accounts for an ever-increasing segment of the clinical nephrologist’s practice. This course translates relevant knowledge in transplant physiology, pathophysiology, and pharmacology into practical guidelines for care. The target audience includes nephrologists with an interest in transplantation, transplant physicians, and trainees in nephrology.

Maintenance of Certification - ABIM Modules and NephSAP Review
ASN thanks the American Board of Internal Medicine (ABIM) and the American College of Physicians (ACP) for assistance with this program.

Chair: Biff F. Palmer, MD, FASN

Those who certified in internal medicine and in the subspecialties in or after 1990 must renew their certificates through the American Board of Internal Medicine (ABIM) Maintenance of Certification (MOC) program. This two-day course is directed at the self-evaluation in medical knowledge component of MOC. It will provide 50 of the required 100 points by reviewing internal medicine and nephrology updates using ABIM Medical Knowledge Modules and ASN NephSAP questions.

A Primer on Epidemiology and Outcomes Research in Nephrology
ASN thanks its Clinical Science Committee and the Kidney, Urology, and Hematology (KUH) Division of the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK-NIH) for assistance with this program.

Chairs: Kamyar Kalantar-Zadeh, MD, PhD, FASN and Wolfgang C. Winkelmayer, MD, ScD, FASN

Epidemiology and outcomes research are important tools to study the occurrence of kidney diseases, their correlates, and consequences, and are increasingly informing renal health policy and research funding allocation. This course will review the fundamental concepts and techniques of epidemiologic methods and biostatistical analytical methods including meta-analysis. It will provide participants with the basic knowledge and skills necessary to design and perform clinical research projects, write grants for competitive funding, identify relevant data sources, analyze and interpret their findings, and summarize and publish the results in peer-reviewed journals.
**Professional Development Seminar**

**Wednesday, October 28, 2009**

**Early and Mid-Career Components**

ASN thanks Women In Nephrology (WIN) for assistance with this program.

**Chairs: Rochelle M. Cunningham, MD and Anne Pesenson, MD**

This course, open to women and men, is composed of two parallel tracks that benefit those who are early in their nephrology and research-related careers as well as those who are at the mid-career stage. In addition to addressing nephrologists pursuing careers in academics, the course has been updated to include sessions aimed towards individuals entering private practice or industry, as well as those who are considering a change in career path.

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**Dates to Remember**

**Registration**

- Membership Deadline – Friday, September 18, 2009 – (join ASN to receive the reduced meeting rate and take advantage of all ASN member benefits)
- Pre-meeting Registration Deadline – Thursday, October 15, 2009
- Deadline to Request Refund – Thursday, October 15, 2009 – Fax written requests to (905) 479-9297
- Pre-meeting Exhibitor Registration Deadline – Thursday, October 15, 2009

**Housing**

- International Tour Group Deadline – Friday, July 31, 2009
- Suite Reservation Deadline – Friday, August 28, 2009
- Group Exhibitor Deadline – Friday, September 11, 2009
- Attendee Reservation Deadline – Friday, September 25, 2009
- Individual Exhibitor Deadline – Friday, September 25, 2009
ASN will try to accommodate all participants’ first choice for the Advances in Research Conference, In-Depth Nephrology Courses, or Professional Development Seminar; however, programs will be filled on a first-come, first-served basis.

THREE WAYS TO REGISTER:

Online: www.asn-online.org
Mail: ASN Registration
PO Box 890658
Charlotte, NC 28289-0658
Fax: (905) 479-9297

Registration Fees
All registration fees for these courses should be paid in US Currency only.

<table>
<thead>
<tr>
<th>Registration Fees</th>
<th>Advances in Research (Two-Day) On or Before 10/15</th>
<th>In-Depth Nephrology (Two-Day) On or Before 10/15</th>
<th>Professional Development (One-Day) On or Before 10/15</th>
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<tr>
<td>ASN Member</td>
<td>$490</td>
<td>$490</td>
<td>$265</td>
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<tr>
<td>Fellow-in-Training Member</td>
<td>$155</td>
<td>$335</td>
<td>$185</td>
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<tr>
<td>Nonmember</td>
<td>$595</td>
<td>$595</td>
<td>$370</td>
</tr>
<tr>
<td>Nonmember Other*</td>
<td>$440</td>
<td>$440</td>
<td>$290</td>
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*(medical student, resident, technician, administrator)

Take advantage of pre-meeting registration fees, as onsite registration fees will increase by $100 in all categories.

Onsite Registration Hours for these programs:
Tuesday, October 27 7:00 am - 5:00 pm
Wednesday, October 28 7:00 am - 10:00 am

Travel Support
Participants in the Advances in Research Conference and the Professional Development Seminar may be eligible for monetary support to help defray travel expenses. Travel support must be applied for through the ASN website at www.asn-online.org by Friday, July 10, 2009 at 4:00 pm, EDT.

Eligibility
To receive travel support, a recipient must:
1) Be a current ASN member.
2) Register and attend ONLY the program for which travel support is issued.

Deadline: Friday, July 10, 2009 at 4:00 pm, EDT. Applications must be submitted online. To apply for travel support, visit www.asn-online.org and click “Grants and Funding.”
Thursday, October 29, 2009

8:00 am - 9:30 am
Plenary Session

Presidential Address
Thomas M. Coffman, MD, FASN

John P. Peters Award
William E. Mitch, MD, FASN

State-of-the-Art Lecture
Roger Y. Tsien, PhD
“The Use of Fluorescent Proteins for Biomedical Discovery”

Roger Tsien received his AB in Chemistry and Physics from Harvard College and his PhD in Physiology from the University of Cambridge, where he remained as a Research Fellow until 1981. He then became an Assistant, Associate, then full Professor at the University of California, Berkeley. In 1989, he moved to the University of California, San Diego, where he is an Investigator of the Howard Hughes Medical Institute and Professor in the Departments of Pharmacology and Chemistry & Biochemistry. He is a scientific co-founder of Aurora Biosciences Corporation and of Senomyx Inc. His honors include First Prize in the Westinghouse Science Talent Search (1968), Searle Scholar Award (1983), Artois-Baillet-Latour Health Prize (1995), Gairdner Foundation International Award (1995), Award for Creative Invention from the American Chemical Society (2002), Heineken Prize in Biochemistry and Biophysics (2002), Wolf Prize in Medicine (shared with Robert Weinberg, 2004), Rosenstiel Award (2006), E.B. Wilson Medal of the American Society for Cell Biology (shared with M. Chalfie, 2008), and Nobel Prize in Chemistry (shared with O. Shimomura and M. Chalfie, 2008). He is a member of the National Academy of Sciences and the Royal Society.

9:30 am - 5:00 pm
Exhibit Hall and Poster Sessions Open

10:00 am - Noon
Scheduled Authors Present at Posters

Clinical Nephrology Conferences

- Cardiorenal Syndrome
- Desperately Seeking a Donor: Difficult Choices in Kidney Donation
- Peritoneal Dialysis: A Bright Past and Unknown Future
- Primary Care for Nephrologists: HIV Nephropathy
- Reducing Health Disparities in CKD

12:00 pm - 1:15 pm
Educational Symposia

1:30 pm - 3:30 pm
Basic and Clinical Science Symposia

- A Fresh Look at Atherogenesis
- A Picture is Worth a Thousand Words: Novel Imaging Techniques and Biology
- Aging: Is the End Inevitable?
- Biomarkers in Kidney Disease
- Immunosuppression Update
- Macrophages and Mast Cells in Renal Injury and Health
- Molecular and Cellular Mechanisms of Phosphate Control
- Molecular Mechanisms of Nephrotic Syndrome: Novel Insights
- Renal Anemia and ESA
- Reprogramming and Induced Pluripotency: Does this Apply to the Kidney?
- Thrombotic Microangiopathies: The Complement-Clot Connection
- Updates on Clinical Trials: CRIC, CKiD, AASK Cohort and FSGS Trial Findings

Meeting-Within-a-Meeting

- The Epigenetic Epidemics
- Thick Ascending Limb Function and Dysfunction: The Steven C. Hebert Memorial Symposium

Public Policy Forum

- Conflicts of Interest in Medicine-The Christopher R. Blagg Endowed Lectureship will be presented in this session by Bernard Lo, MD

United States Renal Data System (USRDS)

4:00 pm - 6:00 pm
Clinical Nephrology Conferences

- Are We Making Progress in Vascular Access?
- Hepatitis C and Renal Disease
- Hypertensive Nephrosclerosis: Cause or Consequence of Hypertension
- Literature Review: ICU Nephrology and Critical Care Medicine
- Management of Common Problems in Polycystic Kidney Disease

Free Communication Sessions

6:15 pm - 8:30 pm
Educational Symposia
Friday, October 30, 2009

6:30 am - 7:45 am
Educational Symposia

8:00 am - 9:30 am
Plenary Session
Young Investigator Award and Address
Matthias Kretzler, MD
Robert G. Narins Award
Burton D. Rose, MD
State-of-the-Art Lecture
Kári Stefánsson, MD
“Genetic Associations in Complex Human Diseases”

Kári Stefánsson received his MD from the University of Iceland. From 1993 until April 1997, Dr. Stefánsson was a professor of Neurology, Neuropathology, and Neuroscience at Harvard University. In addition, from 1993 through December 1996 he was Director of Neuropathology at Beth Israel Hospital in Boston, Massachusetts. From 1983 to 1993, he held faculty positions in Neurology, Neuropathology, and Neurosciences at the University of Chicago. Dr. Stefánsson has served as President, Chief Executive Officer, and a Director of deCODE genetics, which he co-founded in 1996. Dr. Stefánsson was appointed the Chairman of the Board of Directors of deCODE genetics in 1999. He has published numerous articles on the genetics of common/complex diseases.

9:30 am - 5:00 pm
Exhibit Hall and Poster Sessions Open

10:00 am - Noon
Scheduled Authors Present at Posters
Clinical Nephrology Conferences
- Debates in Renal Disease (audience response session)
- Infectious Risk in Renal Replacement Therapy
- The Changing Face of FSGS/MCD
- Thrombotic Microangiopathies
- Vascular Calcification

12:00 pm - 1:15 pm
Educational Symposia

1:30 pm - 3:30 pm
Basic and Clinical Science Symposia
- Appealing to the Base: New Approaches to Diagnosis and Treatment of Acidosis in the ICU
- A Bench to Bedside View of Uremic Toxins
- An Expanding Role for HIF and VHL in the Kidney
- Defense Mechanisms Against AKI
- Kidney-Brain: Emerging Parallels in Cell Biology
- Nephrolithiasis
- The History and Challenges Involving Nephrology and the FDA
- Therapies and Therapeutic Targets on the Horizon for Hypertension
- Vascular Calcification in CKD: Roles of Mineral Metabolism Disorder and Cross-Talk with Bone
- What’s New in Diabetic Nephropathy Research

Dialysis Outcomes and Practice Patterns Study (DOPPS)
- Modifiable Hemodialysis Practices: Latest Trends and Outcomes from the DOPPS

Meeting-Within-a-Meeting
- Inflammation and Immune Tolerance
- Nephron Formation from Beginning to End
- Signaling at the Slit and Beyond: Podocytes and Fruit Flies
- The Renal Basis of Hypertension and Edema – The Robert W. Schrier Endowed Lectureship will be presented in this session by Thomas Kleyman, MD

ASN Public Policy Board Symposium
- Health Care Delivery: Repairing a Broken System

4:00 pm - 6:00 pm
Clinical Nephrology Conferences
- Glomerular Injury in Progressive Renal Disease
- Nephrology Quiz & Questionnaire (audience response session)
- Quotidian (Daily) Dialysis
- The Importance of Proteinuria as a Surrogate for Outcome in CKD
- Update in Acute Kidney Injury

Free Communication Sessions

4:00 pm - 5:30 pm
Late-Breaking Clinical Trial Session

6:15 pm - 8:30 pm
Educational Symposia
**Saturday, October 31, 2009**

6:30 am - 7:45 am  
Educational Symposia

8:00 am - 9:30 am  
Plenary Session

Homer W. Smith Award and Address  
Rene J.M. Bindels, PhD

State-of-the-Art Lecture  
Bruce Beutler, MD  
“Genetic Insights into the Innate Immune System”

Bruce Beutler received his MD at the University of Chicago in 1981 and his PhD at Rockefeller University in the laboratory of Anthony Cerami, PhD. He became an Assistant Professor at Rockefeller University in 1985. He was also an Associate Physician at the Rockefeller University Hospital between 1984 and 1986. Beutler returned to Dallas in 1986 as an Assistant Professor in the Department of Internal Medicine of the University of Texas Southwestern Medical Center at Dallas, and an Assistant Investigator at the Howard Hughes Medical Institute, where he retained a position for the next 14 years. He became an Associate Professor and an Associate Investigator with HHMI in 1990 and a Professor in 1996. In 2000, Beutler moved to The Scripps Research Institute in La Jolla, CA, as a Professor in the Department of Immunology. In 2007, he became Chairman of the newly created Department of Genetics at Scripps. Beutler is a member of the National Academy of Sciences and the Institute of Medicine. His work has been recognized by numerous awards, including the Robert Koch Prize (2004), the William B. Coley Award (2006), the Gran Prix Charles-Leopold-Mayer (2006), the Balzan Prize (2007), and other honors.

9:30 am - 4:00 pm  
Exhibit Hall and Poster Sessions Open

10:00 am - Noon  
Scheduled Authors Present at Posters

Clinical Nephrology Conferences  
- Diabetic Nephropathy  
- Important Clinical Trials in Transplantation  
- Is Peritoneal Dialysis Membrane Failure Inevitable with Long-Term Use?  
- Renal Diseases of Children in Adults  
- The Kidney in End Stage Liver Disease

12:00 pm – 1:15 pm  
Educational Symposia

1:30 pm - 3:30 pm  
Basic and Clinical Science Symposia

- Advances in Research on the Renin-angiotensin System  
- Beyond SNPS: Novel Functional Genetic Polymorphisms and Human Disease  
- CKD-MBD and Outcomes: The Jack W. Coburn Endowed Lectureship will be presented in this session by L. Darryl Quarles, MD  
- Emerging Angiogenic Therapies and the Renal Vasculature  
- Hemodialysis Vascular Access  
- How Shall I Eat You: The Art and Science of Autophagy  
- Novel Therapeutic Approaches Against AKI  
- Obesity and Kidney Disease  
- The Genome Gets Personal: Progress, Uncertainty, and Challenges

Meeting-Within-a-Meeting

- Kidney Repair: How Does it Occur and do Renal Stem Cells Exist?  
- Monitoring the Renal Transplant Recipient  
- Novel Insights of Glomerular Function and Structure (Controversies): The Barry M. Brenner Endowed Lectureship will be presented in this session by Oliver Smithies, PhD  
- Tight Junctions in Kidney Health and Disease

ClinicoPathologic Conference

4:00 pm - 6:00 pm  
Clinical Nephrology Conferences

- Batten Down the Hatches: The Approaching Tidal Wave of Hypertension and Its Sequelae in the Young?  
- Management of Hyponatremia  
- Multiple Myeloma  
- Renal Biopsy: Clinical Correlations  
- Sex and the Kidney

Free Communication Sessions
Sunday, November 1, 2009

8:00 am - 8:30 am
ASN Business Meeting

8:30 am - 9:30 am
Plenary Session
Belding H. Scribner Award and Address
James E. Cimino, MD
State-of-the-Art Lecture
Tony Pawson, PhD
“Signal Transduction Mechanisms in the Kidney”

Tony Pawson, PhD is a Distinguished Scientist at the Samuel Lunenfeld Research Institute of Mount Sinai Hospital and Professor in the Department of Molecular Genetics at the University of Toronto. Dr. Pawson earned his undergraduate degree at the University of Cambridge, England, obtained his PhD from the University of London/Imperial Cancer Research Fund, and performed his postdoctoral work at the University of California, Berkeley. From 1980-1985, he was an Assistant Professor at the University of British Columbia and has been in Toronto since 1985. Dr. Pawson is a Fellow of the Royal Societies of London and Canada and a Foreign Member of the National Academy of Sciences. He has received a number of awards, including the AACR/Pezcoller Prize, the Heineken Prize, the Killam Award, the J. Allyn Taylor Prize, the Louisa Gross Horwitz Prize, the Wolf Prize in Medicine, and the Kyoto Prize in Basic Science. Dr. Pawson is the leader of the Dynactome project funded by the Genome Canada and Ontario Genomics Institute.

10:00 am - Noon
Basic and Clinical Science Symposia
- AKI in the ICU
- Environmental Exposure and Kidney Disease
- Fetal Programming: The Benefits of Being Well-Endowed
- IgA Nephropathy Update
- Lipid Mediators in the Kidney
- Molecular Nephropathology
- Personalized Medicine: From Here to Application in Nephrology

Meeting-Within-a-Meeting
- A Polarized View of Cysts
- B Cells in Transplantation: From Bench to Clinic
- Disease Association and Functionalization of DNA Variants
- Flow Regulation of Nephron Function

ESRD: State of the Art and Charting the Challenges for the Future

Kidney Disease Improving Global Outcomes (KDIGO) Update
Register Today!

14th Annual

Board Review Course & Update

August 29–September 4, 2009
The Palace Hotel | San Francisco, California

The primary preparatory course for the ABIM’s initial certification and MOC examinations in nephrology

The premier comprehensive update for the practicing nephrologist

Patterned after the ABIM nephrology examination blueprint

ASN
Leading the Fight against Kidney Disease
**Annual Meeting Registration**

### THREE WAYS TO REGISTER:

| Online: www.asn-online.org | Mail: ASN Registration  
|---------------------------|------------------------|
|                           | PO Box 890658  
|                           | Charlotte, NC 28289-0658 |
| Fax: (905) 479-9297 |

#### Pre-Meeting Registration Fees

<table>
<thead>
<tr>
<th>Category</th>
<th>Payment Before 10/15</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASN Member</td>
<td>$270</td>
</tr>
<tr>
<td>ASN Fellow-in-Training Member</td>
<td>$125</td>
</tr>
<tr>
<td>Nonmember</td>
<td>$425</td>
</tr>
<tr>
<td>Nonmember Other*</td>
<td>$270</td>
</tr>
</tbody>
</table>

*(medical student, resident, technician, administrator)*

Your registration is not considered confirmed until you receive an email confirmation from ASN.

To receive your badge in advance of the meeting, please register by **Tuesday, September 15, 2009**. The pre-registration deadline is **Thursday, October 15, 2009**. Participants who register for Renal Week after this date must do so in San Diego.

Children under 12 years of age are not permitted in ASN meeting rooms, session rooms, poster sessions or the Exhibit Hall at any time. Please visit the ASN website for child care options in San Diego.

#### Onsite Registration

Registration for the Annual Meeting will be held during the following hours:

- **Wednesday, October 28**: 8:00 am - 6:00 pm
- **Thursday, October 29**: 7:00 am - 6:00 pm
- **Friday, October 30**: 7:30 am - 5:00 pm
- **Saturday, October 31**: 7:30 am - 4:00 pm

#### Registration Forms

Registration forms for the **Advances in Research Conference, In-Depth Nephrology Courses, Professional Development Seminar** and for the **Annual Meeting** may be found online at www.asn-online.org. Participants may submit their registration forms online or may download and print registration forms. Downloaded and completed forms may be submitted via mail or fax.

ASN will not process any registration form without payment or credit card information included. To avoid duplicating your registration, please do not mail your form if you have already faxed it (and vice versa).

### Take advantage of the pre-meeting registration fees, as onsite registration fees will increase by $100 in all categories.

To receive the member registration rate, an ASN membership (user) number must be provided and membership must be current through 2009. **Friday, September 18, 2009** is the last day you can join ASN to receive the reduced meeting rate and take advantage of all other ASN member benefits.

#### Group Registration

Tour leaders must complete an individual registration form for each attendee at www.asn-online.org. The online registration system will allow tour leaders to process payment once for a group of registrants. Once the registrations have been processed, confirmations will be sent immediately to each email address provided, along with instructions on how to request changes and/or register additional group members.

#### Cancellation Policy

Refunds (less a $100 processing fee) will be granted for requests received in writing prior to 11:59 pm EDT on **Thursday, October 15, 2009**. Fax written requests to (905) 479-9297 or email to asn@showcare.com. Refunds are processed after the meeting. After October 15, 2009, all sales are final.

#### ASN Membership Registration Discount

To receive the pre-meeting registration fee, members must join ASN by **Friday, September 18, 2009**. Upon approval, members will have until **Thursday, October 15, 2009** to take advantage of pre-meeting registration fees. Please visit www.asn-online.org and become a member today.
Hotel Accommodations
Renal Week rooms have been reserved at 24 San Diego hotels. Hotel reservations should be completed online at www.asn-online.org. A complete list of hotels, descriptions, rates, and area maps are also listed.

Downloaded and completed forms may be submitted

Via mail:
ASN Housing Bureau
568 Atrium Drive
Vernon Hills, IL 60061

Or via fax to the following numbers:
(800) 521-6017 (US and Canada)
(847) 996-5401 (outside the US)

The housing reservation deadline is Friday, September 25, 2009.

Suite Reservations
To obtain a suite in San Diego, please contact the ASN office at (202) 367-1146 for a suite reservation form. Requests for suites must be received no later than Friday, August 28, 2009.

Hotel Confirmation
To receive a housing reservation confirmation, the ASN Housing Bureau must receive your reservation request no later than Friday, September 25, 2009. You will receive an acknowledgement from the ASN Housing Bureau either by fax, email, or mail within 10 days. This acknowledgment will indicate the hotel where your reservation has been made. You will not receive a confirmation from the assigned hotel. If you need to cancel or make any adjustments to your reservation before Friday, October 2, 2009, please contact the ASN Housing Bureau directly.

From October 3 - October 9, 2009, you will not be able to make changes to your reservation; the ASN Housing Bureau will be transferring reservation information to the hotels during this time. After Friday, October 9, 2009, you should contact your assigned hotel directly regarding changes.

Changes and cancellations must be made in writing and faxed to the ASN Housing Bureau at (800) 521-6017 from the United States and Canada or to (847) 996-5401 from outside the US, or participants may email asn@experient-inc.com or call the ASN Housing Bureau with any questions at (800) 967-4590 or (847) 996-5875.

Please check your assigned hotel for specific check-in times. Additionally, please note that hotel cancellation policies vary. Be certain you know the cancellation policy for the hotel you have been assigned.

Exhibitor Housing
Exhibitors will have access to individual sleeping rooms at convention rates during Renal Week. Hotel reservation forms will be available on the ASN website once an exhibit booth has been assigned. All reservations require a deposit payment at the time of reservation. The hotel reservation form includes a section for credit card payment. Use of a credit card for the deposit payment will facilitate the reservation process. All individual reservation requests should be sent directly to the ASN housing company before September 25. Reservations are processed on a first-come, first-served basis. Please remember that hotels near the convention center will sell out quickly.

Exhibitor Group Housing Blocks
Group room blocks (10 rooms or more) must be approved by ASN prior to the annual meeting. Requests must be sent to ASN Headquarters in writing by Friday, September 11, 2009. Placement of group room blocks will be determined by the following factors:

- Date of submission of the housing request
- Availability

Exhibitor housing forms should be completed online at www.asn-online.org. The rules and regulations governing group blocks are detailed on the Group Block Reservation Form also available online.

International Group Housing Blocks
Special housing blocks have been created for international attendees using the services of a tour agent and traveling in groups of 25 people or more. These blocks are subject to space availability. These special blocks can only be requested through the ASN Office. Contact the ASN directly at (202) 367-1146 to request a Special Block Reservation Form. Requests must be made by Friday, July 31, 2009.
Travel Agency
Travel Corporate is the preferred travel agency for Renal Week 2009. Contact Travel Corporate today and receive ASN-negotiated air and car rental discounts. Travel Corporate offers the lowest available published fares for both low fare and major carriers. You may make your travel arrangements using one of the following methods:

- Contact Travel Corporate at (866) 880-6483, or collect at (312) 236-7356 Monday - Friday 7:00 am - 7:00 pm CT
- Email Travel Corporate at travel@travelcorporate.com
- Visit Travel Corporate online at www.asntravel.org

Mention that you are traveling for Renal Week 2009 and Travel Corporate will take care of the rest.

Airport Location
San Diego International Airport (SAN) is less than five miles from the San Diego Convention Center.

Conference Services
Special Needs
FM transmission will be available for the hearing-impaired in some meeting session rooms. Please indicate your need for this service and identify any other special needs you may have on the registration form found on the ASN website.

Renal Week Abstracts Online
The American Society of Nephrology will now publish meeting abstracts in online form only. ASN will no longer provide a hard-copy version of the JASN abstracts supplement. This decision is consistent with other professional societies similar to ASN. Society members and leaders have expressed growing concern regarding the size, weight and potential waste of printing this book. In addition, ASN recognizes that continuing to add features and capabilities to the abstracts online, which includes an itinerary builder, extensive keyword search, and PDA download option, is the best investment it can make on behalf of both members and Renal Week participants. ASN members can access the abstracts online from the ASN website or during Renal Week. The Society also encourages you to visit the abstracts archives (Renal Week 2003-2008) at www.asn-online.org.

Abstracts 2 View™
The popular Abstracts2View™ program is the first opportunity you have to view accepted abstracts, and the itinerary builder allows you to build a customized schedule and download it to your PDA. Visit www.asn-online.org for more information.

Ancillary Events
Meeting/function rooms will be available for rental to exhibiting companies and special-interest groups during Renal Week, at select San Diego hotels. This space must be requested through and approved by the ASN. For more information or to request function space, please call (202) 367-1146 or visit the ASN website at www.asn-online.org.

Shuttle Services
Complimentary shuttle service will be available Tuesday, October 27 - Sunday, November 1 between the San Diego Convention Center and all participating hotels except the San Diego Marriott Hotel & Marina, Manchester Grand Hyatt, Omni, Hard Rock Hotel, Marriott Gaslamp, Hilton Gaslamp, Hilton San Diego Bayfront in front of Omni, Hotel Solamar, Horton Grand and Embassy Suites—these hotels are in easy walking distance of the San Diego Convention Center and ASN headquarter hotels.

Ground Transportation
Taxi: A one-way taxi ride from the airport to downtown San Diego costs approximately $12 per person.

Bags, Inc. – Airport Check-In at the Convention Center!
The San Diego Convention Center, in partnership with Bags, Inc. (Baggage Airline Guest Services) offers an advanced airport check-in program with Alaska, American, Continental, Delta, JetBlue and United Airlines. Take advantage of this check-in service by visiting Bags, Inc. inside the lobby of the convention center. For a $10 per person fee, you can obtain a boarding pass and check up to two bags for your return flight, saving you time and eliminating the check-in lines at the airport. Standard baggage policies and costs for each airline will apply.
All scheduled ancillary events must adhere to ASN regulations and may only take place during the following specified dates and times:

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuesday, October 27, 2009</td>
<td>After 6:00 pm</td>
</tr>
<tr>
<td>Wednesday, October 28, 2009</td>
<td>Open to meetings all day</td>
</tr>
<tr>
<td>Thursday, October 29, 2009</td>
<td>12:00 am - 7:45 am</td>
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<tr>
<td></td>
<td>12:15 pm - 1:15 pm</td>
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<tr>
<td></td>
<td>6:15 pm - 11:59 pm</td>
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<tr>
<td>Friday, October 30, 2009</td>
<td>12:00 am - 7:45 am</td>
</tr>
<tr>
<td></td>
<td>12:15 pm - 1:15 pm</td>
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<tr>
<td></td>
<td>6:15 pm - 11:59 pm</td>
</tr>
<tr>
<td>Saturday, October 31, 2009</td>
<td>12:00 am - 7:45 am</td>
</tr>
<tr>
<td></td>
<td>12:15 pm - 1:15 pm</td>
</tr>
<tr>
<td></td>
<td>6:15 pm - 11:59 pm</td>
</tr>
<tr>
<td>Sunday, November 1, 2009</td>
<td>12:00 am - 7:45 am</td>
</tr>
</tbody>
</table>

Each ancillary event may be published in the Onsite Program. To request this service, please mark the correct box on the ancillary request form. Ancillary events received by Friday, August 7, 2009, may be published in the Onsite Program; events requested after this date may still be approved but they will not be listed in the Onsite Program. There will be a $100 processing fee applied to each meeting and function space request received prior to or on Friday, August 7, 2009. After August 7, 2009 a $200 processing fee applies to each meeting and function space request.

Educational Symposia
During the meeting, ASN offers breakfast, lunch, and dinner symposia to address specific areas in the field of nephrology. The Society recruits faculty, develops syllabus materials, selects menus, arranges audiovisual requirements, and administers continuing medical education. For information on supporting a symposium during Renal Week 2009, please contact the ASN at (202) 659-0599.

Hypertension, Dialysis, and Clinical Nephrology (HDCN) Subscription
ASN offers you the ability to subscribe to HDCN for a special Renal Week rate of $70 (ASN member) or $85 (nonmember). This option is available on the registration form. HDCN, an online education journal, provides up-to-date, selected information on renal disorders and their treatments (hemodialysis, peritoneal dialysis) and hypertension, dialysis, and clinical nephrology topics. HDCN is a resource for physicians and nurses who treat patients with kidney or renal disease. Here physicians and nurses can find answers to frequently asked hypertension, dialysis, and nephrology questions (FAQ), pointers to recent review articles, and summaries of hot new hypertension, dialysis, and nephrology papers, abstracts, and meeting presentations. Also, information about medical products, devices, services, and drugs pertaining to hypertension, dialysis, and clinical nephrology are provided, as is a list of links to relevant hypertension/dialysis/transplantation organizations, medical provider networks, and databases. Much of the information presented is collected from a distinguished editorial board composed of specialists in the field of kidney or renal disease.

Please note: The ASN member special rate is only available to ASN members.

Press Room
The ASN Press Room, available for use by journalists reporting on Renal Week, will be located in Room 13 of the San Diego Convention Center. The Press Room will be open during the following hours:

- Wednesday, October 28 1:00 pm - 5:00 pm
- Thursday, October 29 7:30 am - 6:00 pm
- Friday, October 30 7:30 am - 6:00 pm
- Saturday, October 31 8:00 am - 6:00 pm

Beverages will be available Thursday through Saturday, and lunch is provided on Press Briefing days.

Speaker Ready Room/Faculty Check-in
All speakers are required to check into the Speaker Ready Room at least two hours prior to their first lecture to ensure we have the latest version of your presentation.

The Speaker Ready Room will be located in Room 11 in the San Diego Convention Center and will be open during the following hours:

- Tuesday, October 27 6:30 am - 6:00 pm
- Wednesday, October 28 6:30 am - 6:00 pm
- Thursday, October 29 6:00 am - 6:00 pm
- Friday, October 30 7:00 am - 6:00 pm
- Saturday, October 31 7:00 am - 6:00 pm
- Sunday, November 1 7:00 am - 11:00 am

Scientific Exposition
A vital part of the Renal Week 2009 educational experience is found on the scientific exposition floor, Halls A/B/C of the San Diego Convention Center. This unparalleled international venue for the demonstration of products and services will enhance your understanding of the latest advancements in pharmaceuticals, devices, imaging, and services important to high-quality patient care. On the exposition hall floor, you can engage in peer-to-peer interactions with representatives and businesses that form an integral part of your day-to-day fight against kidney disease and view thousands of submitted abstract posters.
ASN gratefully thanks the following companies for helping the Society meet its mission and lead the fight against kidney disease.

**DIAMOND LEVEL**

- Abbott
- AMGEN
- Fresenius Medical Care
- Genzyme
- Watson

**PLATINUM LEVEL**

- AMAG
- Bristol-Myers Squibb
- Otsuka

**GOLD LEVEL**

- Astellas Pharma US, Inc.
- Centocor Ortho Biotech Inc.
- Genentech and Biogen Idec
- Novartis
IN SECONDARY HPT, IT CAN BE EASY TO OVERLOOK THE WARNING SIGNS

MORTALITY

Patients’ mortality risk is 51% greater over the next 3 months when all secondary HPT lab parameters are out of range.\(^1\)

- The attributable risk of mortality associated with elevations in all secondary HPT lab parameters was 17.5%, higher than inefficient dialysis (5.1%) or anemia (11.3%).\(^2\)

- Mortality risk increases 12% and 41%, respectively, when PTH or phosphorus is out of range for only 3 months. If PTH, calcium, or phosphorus is out of range for 1 year, the corresponding mortality risks increase further by 34%, 18%, and 62%, respectively.\(^3\)

CALCIFICATION

Just a 1-mg/dL increase in phosphorus carries the same risk of vascular calcification as nearly 2.5 years of dialysis treatment. With a 1-mg/dL calcium increase, the risk is similar to > 5 years of dialysis treatment.\(^3\)

FRACTURE

With iPTH in the range of 300-800 pg/mL, every 100 pg/mL increase raises patient risk of hip fracture by 15% and vertebral fracture by 33%.\(^4\)

Be aggressive—patients like Patrick deserve a closer look.

References:

HPT = hyperparathyroidism; CKD = chronic kidney disease; iPTH = intact parathyroid hormone; Ca = calcium; P = phosphorus.

\(^{*}\)Observational data. See discussion in preceding quarter.
\(^{1}\)Reference group.

Risk of death increases with each lab parameter out of range.*

![Graph showing risk of death increases with each lab parameter out of range]