



# ASN

American Society  
of Nephrology

Annual  
Report  
2018

[www.asn-online.org](http://www.asn-online.org)



ASN leads the fight to prevent, treat, and cure kidney diseases throughout the world by educating health professionals and scientists, advancing research and innovation, communicating new knowledge, and advocating for the highest quality care for patients.

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## Dear Colleagues,

This 2018 annual report highlights the achievements and progress that your support for, and participation in, ASN have made possible. ASN, the ASN Foundation for Kidney Research, the Kidney Health Initiative, and Nephrologists Transforming Dialysis Safety took the lead on several initiatives to better serve the more than 850 million people worldwide with kidney diseases, the Society's members, and the nephrology community at large.

Our commitment to be essential in your professional life is evident in what we do for you throughout the year. This year has been one to celebrate:

- Membership surpassed 20,000 worldwide, including every member of the inter-professional kidney healthcare team (physicians, scientists, doctors of pharmacy, pharmacists, advanced practice providers, nurses, dietitians, and social workers).
- ASN and the U.S. Department of Health and Human Services (HHS) established the Kidney Innovation Accelerator (KidneyX), advancing a shared desire to encourage new therapies in the kidney space.
- Data collection and analysis at ASN continues to support nephrologists and other kidney health professionals at every stage of their careers in providing the highest quality care for people with kidney diseases.
- ASN policy efforts helped increase funding for the National Institutes of Health (NIH) by \$3 billion in 2018—an 8.8% increase over 2017 funding levels.
- The ASN Foundation for Kidney Research distributed \$2,753,729.00 to 44 grant recipients whose research will advance knowledge and care.
- Thousands of volunteers contributed their time, energy, and insights in numerous ways, from serving on committees to reviewing journal submissions to participating as faculty and speakers.

Thank you for all you did to make this a great 2018. We look forward to another year serving our members and accomplishing our mission of leading the fight to prevent, treat, and cure kidney diseases throughout the world by educating health professionals and scientists, advancing research and innovation, communicating new knowledge, and advocating for the highest quality care for patients.

Sincerely,



**Mark D. Okusa, MD, FASN**  
President 2018



**Mark E. Rosenberg, MD, FASN**  
President 2019

## 2018 ASN Council

### **President**

Mark D. Okusa, MD, FASN

### **Past President**

Eleanor D. Lederer, MD, FASN

### **President-Elect**

Mark E. Rosenberg, MD, FASN

### **Secretary-Treasurer**

John R. Sedor, MD, FASN

### **Councilor**

Anupam Agarwal, MD, FASN

### **Councilor**

Susan E. Quaggin, MD, FASN

### **Councilor**

Barbara T. Murphy, MB BCh

### **Councilor**

David H. Ellison, MD, FASN



# Lead the kidney community by focusing on education, communications, policy, and collaboration

## Announcing the Hidden Epidemic of Kidney Diseases Worldwide

More than 850 million people worldwide have some form of kidney disease—roughly double the number of people who live with diabetes and 20 times more than the prevalence of cancer. The global burden of kidney diseases was determined through concerted effort by the American Society of Nephrology (ASN), the European Renal Association—European Dialysis and Transplant Association (ERA-EDTA), and the International Society of Nephrology (ISN).

In addition to using high-impact data to communicate the kidney disease pandemic and raise awareness of kidney diseases, ASN/ERA-EDTA/ISN are collaborating to compare the realities across the global nephrology workforce and to prioritize ethical issues confronting nephrologists.

## Transitioning to a New JASN EIC, Launching an Open Access Journal

*Journal of the American Society of Nephrology* (JASN) remains the most cited nephrology journal that publishes original research about the kidney and kidney diseases. Under the leadership of new Editor-in-Chief Josephine P. Briggs, MD, JASN introduced a new cover displaying a short Table of Contents, began publishing Letters to the Editor, and improved the time from submission to publication.

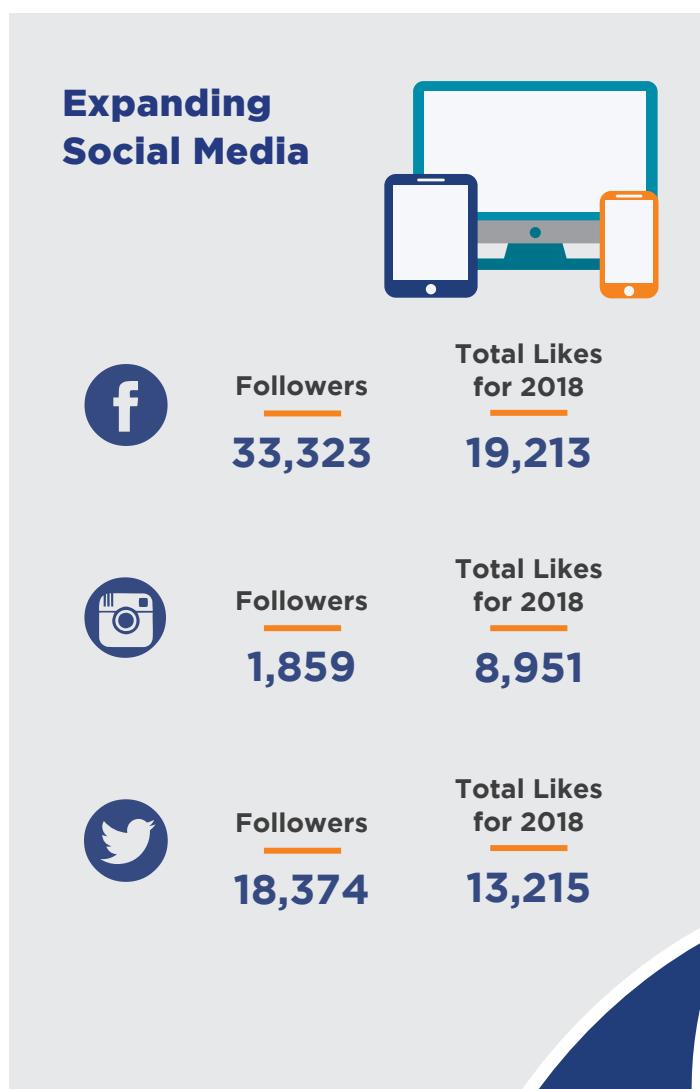
*Clinical Journal of the American Society of Nephrology* (CJASN) introduced monthly Patient Voice editorials to provide the patient perspective on research articles, and now includes Visual Abstracts for all research articles. CJASN's impact factor rose by more than 20% over the past year.

In 2020, ASN will introduce *Kidney360*, an open access, online-only general kidney journal. *Kidney360* will facilitate timely and broad dissemination of global kidney science, encourage data sharing, and incorporate innovative publishing tools to maximize discourse within the kidney field.

## Expanding Social Media, Communities

ASN's social media presence is strong and growing. ASN's main Twitter page @ASNKidney experienced a 28% increase in followers since 2017; @ASNadvocacy, @KidneyNews, @JASN\_News, and @CJASN experienced even higher levels of growth. The society launched the @Kidney\_X Twitter handle in April 2018. #AskASN Twitter chats remain popular, attracting a growing number of nephrology fellows and trainees.

ASN Communities allow kidney health professionals and other stakeholders to network, collaborate, and discuss issues facing the specialty on an online platform. ASN members from more than 130 countries composed approximately 17,000 posts across 19 Communities and Exchanges, led by 47 community leaders.





**‘While BRCU helped me prepare for recertification, it also provided great updates in the field of nephrology and references for future cases. I will attend the course in the future and encourage my colleagues to do the same.’**

Anna B. Gopaniuk-Folga, MD

### **Broadening the Board Review Course & Update (BRCU)**

BRCU now has an expanded leadership team of two Education Directors and an Education Deputy Director. The course’s leaders have increased the number of female speakers from 16% in 2017 to 33% in 2018 and added a lecture, “How to Study for the Boards; How to Approach a Board Question.”

Each week for the eight weeks between the conclusion of BRCU and the fall American Board of Internal Medicine Nephrology Board examination, ASN emailed course participants a selection of nephrology “pearls of wisdom”—things to know about important board topics. Each email included seven “pearls” plus one nephrology diagnostic algorithm to help clarify thinking and focus studying.

### **ASN Kidney Week 2018**

ASN Kidney Week 2018 took place in San Diego, CA. ASN introduced several improvements to the meeting, including an expanded Fellows-in-Training Bowl, the KidneyX Innovations Showcase, the Basic Research Forum for Emerging Kidney Physiologists, a Hands-On Workshop on Ultrasound-Guided Procedures, an LGBTQ and Allies Reception, a more inclusive policy on registering children for the meeting, ASN TV, and iPosters.

ASN Kidney Week 2018 had 12,503 participants, 4.6% more than the 2017 meeting in New Orleans, LA. In 2018, Kidney Week received 4,971 total abstract submissions, up 6.1% from the previous year.

Trade Show Network News named ASN Kidney Week 2018 “one of the top 250 trade shows” in the United States. Kidney Week was one of 10 of the top 250 meetings held in San Diego last year.



# Transform kidney research through discovery and innovation to prevent, treat, and cure kidney diseases



Members of the KHI Patient and Family Partnership Council with HHS Secretary Alex Azar, Deputy HHS Secretary Eric Hargan, and former HHS Chief Technology Officer Bruce Greenstein to discuss incorporating the patient perspective into KidneyX.

### Establishing KidneyX to Spur Innovation

Established in April 2018 with a Memorandum of Understanding between ASN and the U.S. Department of Health & Human Services, KidneyX will improve the lives of the 850 million people worldwide currently affected by kidney diseases by accelerating the development of drugs, devices, biologics, and other therapies across the spectrum of kidney care including prevention, diagnostics, and treatment.

KidneyX will engage a community of patients, researchers, innovators, and investors to develop breakthrough therapies through a series of prize competitions. The first KidneyX prize competition, aimed at improving kidney replacement therapies for patients, launched on October 25, 2018. Learn more at [KidneyX.org](http://KidneyX.org).

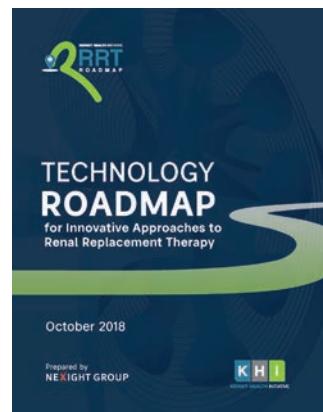
### Continuing to Expand the Kidney Health Initiative (KHI)

The largest collaborative in the kidney arena, KHI is a public-private partnership between ASN, the U.S. Food and Drug Administration, and the nephrology community. KHI now includes more than 90 organizations. KHI workgroups and the KHI Patient and Family Partnership Council advance the collaborative's mission to enhance patient safety and foster innovation in kidney diseases.

KHI's signature initiative, "Developing a Roadmap for Innovative Alternatives in Renal Replacement Therapy," will be submitted for publication in early 2019. KHI published eight additional articles in 2018, including "Prioritizing Symptoms of ESRD Patients for Developing Therapeutic Interventions" in the CJASN. Four new projects were launched, and work continues for six ongoing projects.

**'While we should not underestimate the complexities of both the technological challenges and regulatory requirements involved in bringing innovative ESRD products to market, a roadmap will help to bring innovators from various fields into the "kidney space" with new ideas, "out of the box" approaches, and substantive financial resources.'**

Joseph V. Bonventre, MD, PhD, FASN



Kidney Health Initiative RRT Roadmap.



**ASN Innovation and Discovery Task Force Meeting.**

**'The ASN Foundation research funding is essential to the future of nephrology research and medicine, as it provides vital support to the careers of trainees and young independent investigators'**

Amar J. Majmundar, MD, PhD

### **Supporting the Future through the ASN Foundation for Kidney Research**

At Kidney Week 2018, the ASN Foundation for Kidney Research announced that the *Securing the Future Campaign* to endow the Career Development Grants Program raised more than \$22,600,000 in gifts and pledges, including those from ASN, Akebia Therapeutics, Amgen, Keryx Biopharmaceuticals, and individual donors. These funds endowed five career development grants in 2018, including one Joseph V. Bonventre Career Development Grant, two Carl W. Gottschalk Research Scholar Grants, one John P. Merrill Grant in Transplantation, and one Norman J. Siegel Research Scholar Grant.

### **Implementing Recommendations from the ASN Innovation and Discovery Task Force**

The ASN Innovation and Discovery Task Force is working on several initiatives to support future innovators in nephrology, to educate clinicians about breakthrough treatments and approaches, and to identify mechanisms and funding sources to generate evidence for and success of cutting-edge clinical research about kidney diseases. Initiatives include support for the development of a clinical trial finder, mandatory clinical trial training during nephrology fellowships, and seed funding for, and advisement to small companies to help ideas progress to the proof-of-concept stage.



# Encourage every kidney health professional in the world to contribute to, and benefit from, ASN



**Rasheeda K. Hall, MD, MS**  
ASN-AMFDP 2019 Award  
Recipient

### Expanding the ASN-Amos Medical Faculty Development Program

To address the shortage of scholars from historically disadvantaged backgrounds with academic and research appointments in nephrology, ASN partners with the Robert Wood Johnson (RWJ) Foundation to administer the ASN-Amos Medical Faculty Development Program (ASN-AMFDP) award. The program offers four-year postdoctoral research awards. The first recipient is continuing his work on gene discovery in African Americans with familial focal segmental glomerulosclerosis.

ASN and RWJ announced a second ASN-AMFDP award recipient to be honored in 2019: Rasheeda K. Hall, MD, MS, whose research aims to develop an evidence-based approach to deprescribe potentially inappropriate medications for older dialysis patients.

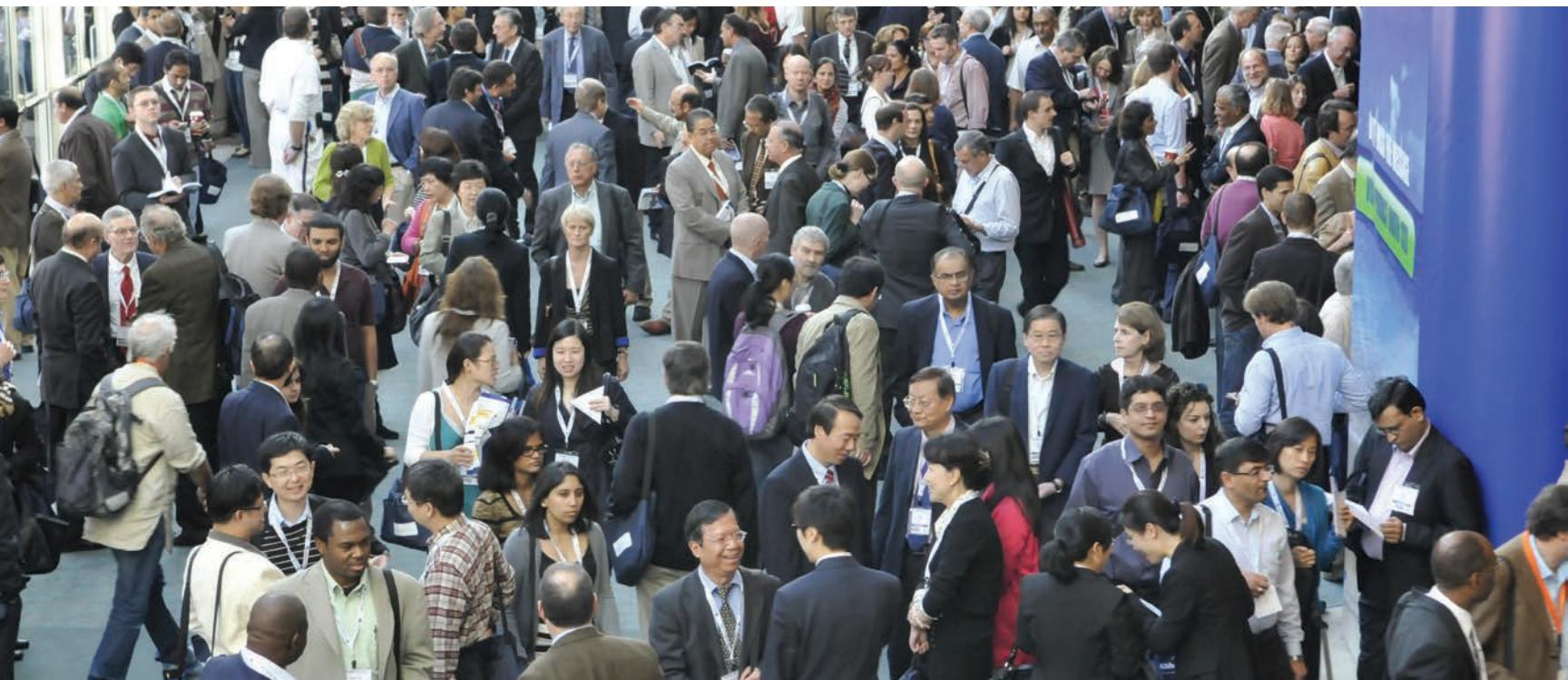
### Initiating the LGBTQ and Allies Member Reception at Kidney Week; #IAmASN Promotion

ASN held its first ever lesbian, gay, bisexual, transgender, queer and questioning (LGBTQ) and ally member reception at Kidney Week 2018. The event was an evening of networking and gathering to discuss ways of serving LGBTQ participants in Kidney Week and supporting LGBTQ members of the kidney community.

In another effort to highlight the diversity of ASN's membership, #IAmASN buttons were available at the ASN Services booth for pickup and display. Attendees were encouraged to put on a button, take a picture, and share on Twitter @ASNKidney with the #IAmASN hashtag.



**LGBTQ+A member reception at Kidney Week 2018.**



## Providing Travel Support for NIDDK NMRI and Exhibiting at SNMA and LMSA

ASN provides travel support to individuals conducting kidney-related research to ensure their attendance at the National Institute of Diabetes and Digestive and Kidney Diseases Network of Minority Health Research Investigators annual workshop. Over the past four years, ASN has supported 58 investigators.

ASN exhibited at the Latino Medical Student Association annual meeting for the first time in 2018 and, as it has done for the past five years, at the Student National Medical Association annual meeting. Fifty students interested in nephrology were provided ASN membership through this outreach to medical students at the Latino and Student National Medical Association meetings in 2018.

## Partnering with Renal Fellow Network Blog

Launched in 2008 as a forum for fellows to share experiences in training and kidney care, the Renal Fellow Network quickly grew and doubled its monthly visitors over a seven-year period. On the blog's 10th anniversary, ASN partnered with Renal Fellow Network to further increase its reach. Two nephrology or postdoctoral fellows will now serve two-year terms as coeditors under the guidance of faculty advisors. The blog will also expand its pool of contributors to include PhD students, postdoctorates, medical students, and residents. <https://www.renalfellow.org/>

## Increasing ASN Membership



**20,000+**

Kidney health professionals  
in over 130 countries now  
contribute to ASN as members

**30%**

Membership growth since 2014



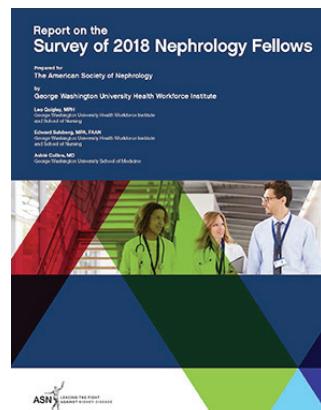
# Foster career development for current and future kidney health professionals

### Identifying Trends in Nephrology Training and Practice

The ASN Data Analytics Program identifies trends in nephrology training and practice in order to provide the kidney community with data key to informed decision-making.

In collaboration with investigators at George Washington University Health Workforce Institute, ASN conducted the 5th annual Nephrology Fellow Survey, which provides leading indicators on the nephrology job market and perceptions of training and clinical practice. The Early Practice Survey (of nephrologists out of training between two and 10 years) found key distinctions between physicians in group practices and those based in academic centers.

Continuing research collaborations overseen by the program include the joint ASN/ERA-EDTA/ISN *Global Nephrology Workforce Survey* to characterize nephrology practice across the world and quantify how nephrologists' roles differ within and between regions. Other ongoing efforts include monitoring trends in the current nephrology training landscape by analyzing data collated in the ASN Nephrology Graduate Medical Education Database. Future initiatives include the launch of the ASN Data Resource Center, a dedicated online repository for reports and other resources, and development of the biennial ASN State of Nephrology Practice Survey.



ASN released the report on the Nephrology Fellow Survey that finds improving job market and salaries for new nephrologists.



ASN Kidney TREKS participants screening for kidney disease with National Kidney Foundation.

### Launching the ASN Pre-Doctoral Fellowship Award Program

The ASN Foundation for Kidney Research launched the ASN Pre-Doctoral Fellowship program, which will award five two-year fellowships to nephrology PhD students annually.

In addition, the ASN Foundation funded 44 leading researchers who are working to cure kidney diseases, including 25 new projects and 19 projects continuing work begun in 2016 and 2017. The foundation provides more than \$3 million in funding for members at all stages of their careers.

The foundation funds the Career Development Grants Program, the Ben J. Lipps Research Fellowship Program, the William and Sandra Bennett Clinical Scholars Program, the American Society of Nephrology-Harold Amos Medical Faculty Development Program, and the new ASN Pre-Doctoral Fellowship Program.



Kidney TREKS 2018.

## Partnering with the American Physiological Society to Establish the APS/ASN Summer Conference Travel Support Program

In 2019, ASN will jointly present the American Physiological Society (APS) Renal Section's Summer Conference.

In addition to co-presenting the conference, ASN will provide travel support for up to 30 participants to attend the conference via a new APS/ASN Summer Conference Travel Support Program. This program underscores ASN's continued commitment to expand opportunities for ASN members interested in basic, or fundamental, science.

Other ASN initiatives to support basic science include holding two summits for PhDs since 2013, initiating a new grants program for PhD students, funding research fellowship and career development grants in basic science, and expanding Kidney TREKS (Tutored Research and Education for Kidney Scholars) to include PhD students. ASN also recently assessed program content at Kidney Week to confirm that the meeting now offers the same amount of basic science as in the past.

## Planning to Start ASN Midcareer Awards in 2019

In April 2018, the ASN Council unanimously approved a proposal from the Career Advancement Committee to add midcareer awards to the ASN awards portfolio. These awards will honor healthcare providers between 10 and 20 years from completion of their professional training who have demonstrated an impact in nephrology in the areas of clinical service, research, education, mentorship, and leadership.



**Morgan Grams, MD, PhD, recipient of the 2018 Donald W. Seldin Young Investigator Award, gives her address entitled, "Using Population Data to Inform Patient Care in Nephrology," during Kidney Week 2018.**

## Renaming the ASN Young Investigator Award

ASN partnered with the American Heart Association Council on the Kidney in Cardiovascular Disease to dedicate the Young Investigator Award to Donald W. Seldin, MD, FASN. Dr. Seldin, who died in 2018, helped establish nephrology as a medical specialty and create ASN, serving as the society's second president in 1967-1968.



### Assert the value of nephrology to health and science professionals, health care systems, and other stakeholders to ensure high-quality care for patients

**'The problem of infections in dialysis patients is now truly taking center stage.'**

**NTDS helped focus my attention on this important issue. My hope is that the NTDS seminars will galvanize nephrologists to appreciate the key role they play in setting goals and priorities in the dialysis unit, such as reducing infection rates in our dialysis patients.'**

James B. Wetmore, MD, MS



#### **Expanding Nephrologists Transforming Dialysis Safety (NTDS) to Include Human Factors Engineering**

ASN's partnership with the Centers for Disease Control and Prevention (CDC) engages nephrologists to take the lead in bringing about the cultural changes needed to transform infection prevention in dialysis facilities.

NTDS expanded to include human factors engineering to identify barriers and facilitators to facility adherence to infection prevention practices. Six facility observations will take place in the first year of the contract. NTDS also contributed an infection prevention section to the ASN Virtual Mentor Curriculum, compiled an Ebola Gap Analysis, launched a vascular access initiative, published an infection prevention series of manuscripts in *CJASN*, and produced three webinars in the "Targeting Zero Infections" series: "Infectious Disease Reporting: State Requirements and Resources," "Environmental Decontamination," and "Hepatitis C Detection, Prevention, and Treatment,"

In its third year, NTDS will offer two additional webinars, publish a Hepatitis Screening Algorithm, and present recommendations on blood culture standardization. It will further produce a *NephSAP* special edition on infection prevention and an infection prevention curriculum for fellows.

## Asserting the Value of Nephrology with Community and Congressional Stakeholders

ASN convened the Fourth Annual Kidney Community Advocacy Day (KCAD) and the Sixth Annual annual Kidney Health Advocacy Day (KHAD) in Washington, DC, to urge funding and legislation to improve care for kidney patients and innovation in kidney medicine. In partnership with the American Association of Kidney Patients, 49 patient and physician advocates met during KHAD with congressional delegations about the urgent need to accelerate innovations in kidney care.

At KCAD, 75 advocates from 15 organizations representing the spectrum of patient and professional groups in the kidney and transplant community called on their congressional delegations to increase funding for kidney research, support increased innovation in kidney medicine, including KidneyX, and pass the Living Donor Protection Act.

ASN opposed a proposal from the Centers for Medicare & Medicaid Services (CMS) that would reduce physician payment under Evaluation and Management codes. Coupled with a proposal to reduce the documentation burden—a concept ASN has long supported and favors overall—the proposed reimbursement changes could have wide-ranging effects. ASN is partnering with other medical specialties to urge CMS to work in collaboration to develop more nuanced, less harmful, policies.

## Holding a Disaster Relief Summit

ASN convened a Disaster Relief Summit in June 2018 to address the current state of disaster preparedness and relief in the United States and Caribbean. The summit brought together experts in disaster preparedness and response from across the country, as well as a representative from the ISN Disaster Relief Task Force and a nephrologist from the Caribbean.

Participants identified challenges and gaps to achieving high quality performance in pre- and post-disaster situations and recognized ASN's role in setting policies concerning disaster preparedness and in helping to facilitate availability of healthcare professionals during and after disasters.



**Kidney Community Advocacy Day with Senator Todd Young.** Senator Young is committed to kidney patients and support of research funding, the Living Donor Protection Act, and Kidney X.



**Kidney Advocates on Capitol Hill for Kidney Community Advocacy Day.**

## Bringing Together a Group of Division Chiefs to Discuss the Need to Reassert the Value of Nephrology

To stress the value of nephrology to a diverse array of stakeholders, the ASN Council is reimagining what the specialty will stand for in the future and articulating the aspects that are core to achieving that vision. The topic will be an area of focus at a Summit of Division Chiefs in 2019.

Looking ahead, ASN plans to publish a manuscript defining the scope of nephrology practice and articulating a vision for nephrology in the future.

# 2018 ASN Award Recipients

## Robert G. Narins Award



**Nancy Day Adams, MD,** is the recipient of the 2018 Robert G. Narins Award for her outstanding contributions in nephrology education.

## John P. Peters Award



**William G. Couser, MD, FASN,** is the recipient of the 2018 John P. Peters Award for his substantial nephrology research contributions and achievements in academic medicine.

## Belding H. Scribner Award



**John T. Daugirdas, MD, FASN,** is the recipient of the 2018 Belding H. Scribner Award for his outstanding contributions to renal patient care.

## Homer W. Smith Award



**M. Amin Arnaout, MD, FASN,** is the recipient of the 2018 Homer W. Smith Award for his outstanding research contributions which fundamentally affect the science of nephrology.

## Donald W. Seldin Young Investigator Award



**Morgan Grams, MD, PhD,** is the recipient of the 2018 Donald W. Seldin Young Investigator Award for her outstanding record of achievement and creativity in basic and patient-oriented kidney research.

*This award is co-sponsored with the Council on the Kidney in Cardiovascular Disease of the American Heart Association.*

## President's Medal



**Griffin P. Rodgers, MD,** is the recipient of the 2018 President's Medal. ASN awards the ASN President's Medal to individuals who have helped advance ASN's mission.

**ASN is honored to have had more than 200 kidney professionals volunteer on 17 key committees in 2018. It is through the steadfast commitment of our volunteers and staff that we continue to deliver on our mission and promise.**

Award Selection Committee

Career Advancement Committee

Continuous Professional Development Committee

Diversity and Inclusion Committee

Ethics and Professional Standards Committee

Executive Committee

Grants Review Committee

Investment Committee

Media and Communications Committee

Nominating Committee

Policy and Advocacy Committee

Postgraduate Education Committee

Program Committee

Publications Committee

Quality Committee

Workforce and Training Committee

Young Investigator Award Selection Subcommittee



## 2018 Career Development Grant Program Recipient Spotlight

### HANA A. ITANI, PhD, FASN

For her project, "New Immune Mechanisms in Hypertension"

#### DESCRIBE THE IMPORTANCE OF HAVING GRANT FUNDING AVAILABLE THROUGH THE ASN FOUNDATION.

This grant is a great opportunity to allow me to establish my independence and obtain preliminary data to secure extramural uninterrupted funding such as an NIH R01 and other funding mechanisms.

#### WHAT HAS SURPRISED YOU MOST ABOUT YOUR CAREER?

I have been fortunate to receive exceptional training by outstanding mentors who provided me with great support and mentoring. Yet, as a woman scientist, it has been a challenge to achieve a successful career trajectory while maintaining an ideal work-life balance.

#### WHAT ARE YOUR CAREER GOALS AT THE END OF THE GRANT PERIOD AND BEYOND?

My goal is to advance my academic career and mature as an independent, tenure-track investigator in inflammation-mediated cardiovascular and renal disease. This award will assist me in achieving my goals: (1) establish myself as an academic research scientist, (2) develop an independent research program, (3) compete for extramural uninterrupted funding (NIH R01 and other funding mechanisms), (4) continue to publish peer-reviewed manuscripts, and (5) continue to serve in professional societies.

#### SOMETHING YOU MAY NOT KNOW ABOUT ME IS...

I have exemplified, as a female scientist and a single mom, a record of success, dedication, and commitment to a career as a research scientist despite all challenges in academia.

# ASN Foundation for Kidney Research

## Our Mission is to Prevent and Cure Kidney Diseases Through Research and Innovation

Established in 2012, the ASN Foundation for Kidney Research provides \$3,000,000 annually to fund the ASN Pre-Doctoral Fellowship Award Program, the Ben J. Lipps Research Fellowship Program, the Career Development Grants Program, the William and Sandra Bennett Clinical Scholars Program, and the American Society of Nephrology-Harold Amos Medical Faculty Development Program Award.

**The ASN Foundation for Kidney Research congratulates the talented group of researchers and educators who were awarded grants in 2018.**

### Career Development Grants Program

The program invests \$100,000 a year per investigator for two years to foster independent research careers and ensure a pipeline of innovative research in the field of nephrology. The Career Development Grants Program is supported by contributions provided by ASN, Akebia Therapeutics, Amgen, Keryx Biopharmaceuticals, and individual donors.

#### Carl W. Gottschalk Research Scholar Grants

Alexander Grabner, MD  
Duke University  
*The Role of FGFR3 and FGFR4 in Cardio-Renal Syndrome*

Hana A. Itani, PhD, FASN  
American University of Beirut  
*New Immune Mechanisms in Hypertension*

David E. Leaf, MD, FASN  
Brigham and Women's Hospital  
*Hepcidin, Dysregulated Iron Homeostasis, and Anemia in Human Acute Kidney Injury*

Ali Poyan-Mehr, MD  
Kaiser Foundation Research Institute  
*Metabolic and Molecular Predictors of Acute Kidney Injury in Humans and Their Clinical Response to NAD<sup>+</sup> Augmentation*

Roderick J. Tan, MD, PhD  
University of Pittsburgh  
*Tubular-to-Glomerular Crosstalk in Proteinuric Chronic Kidney Disease*

Brandi M. Wynne, MS, PhD  
Emory University  
*Renal Dendritic Cell-Derived Interleukin 6 Increases Sodium Reabsorption and Blood Pressure*

#### John Merrill Grant in Transplantation

Nicholas Zwang, MD, FASN  
University of Illinois at Chicago  
*Defining STAT3- and BCR-mediated Signaling and Activation Mechanisms in Human Transitional B Cells*

#### Joseph V. Bonventre Career Development Grant

Nishank Jain, MBBS, MPH, FASN  
University of Arkansas for Medical Sciences  
*A Mechanistic Study in Patients with Non-Dialysis Chronic Kidney Disease to Investigate Altered Platelet Response to Antiplatelet Therapy (CKD-Platelet Study)*

#### Norman Siegel Research Scholar Grant

Meghan Pearl, MD  
University of California, Los Angeles  
*Understanding the Interface of Allo and Auto-Immunity: The Impact of Angiotensin II Type 1 Receptor Antibodies in Pediatric Kidney Transplant Recipients*

## **Ben J. Lipps Research Fellowship Program**

Funding 10 new research applicants and 10 continuing projects annually, the program distributes \$50,000 a year per fellow for two years to conduct original, meritorious research. The Ben J. Lipps Research Fellowship Program is fully endowed by contributions provided by Fresenius Medical Care, ASN, the American Renal Patient Care Foundation, Inc., Amgen, Baxter, and the PKD Foundation.

### **Donald E. Wesson Research Fellow**

Yuenting Diana Kwong, MD  
University of California, San Francisco  
*Identification of Sub-phenotypes in Sepsis Associated Acute Kidney Injury*

### **Jared J. Grantham Research Fellow**

Amar J. Majmundar, MD, PhD  
Boston Children's Hospital  
*Whole Exome Sequencing to Identify Novel Monogenic Causes of Nephrolithiasis*

### **Joseph A. Carlucci Research Fellow**

Ke Wang, MD  
University of Washington  
*Proximal Tubule Secretion: A Complementary Marker to GFR in Kidney Disease*

### **Sharon Anderson Research Fellow**

Rebecca C. Hjorten, MD  
Cincinnati Children's Hospital Medical Center  
*Modeling APOL1 Disease in Drosophila Melanogaster*

### **ASN Foundation for Kidney Research Fellow**

Kaice A. LaFavers, PhD, MPH  
Indiana University School of Medicine  
*The Role of Uromodulin in Oxidant Stress During Sepsis-Induced Kidney Injury*

### **Ben J. Lipps Research Fellows**

Mark Hepokoski, MD  
University of California, San Diego  
*Mitochondrial Dysfunction in ARDS due to AKI*

Jiahua Li, MD, PhD  
Brigham and Women's Hospital  
*Targeting Proximal Tubule Metabolism in AKI to CKD Transition in Diabetic Nephropathy*

Kabir O. Olaniran, MD  
Massachusetts General Hospital  
*Risk Factors and Risk Modification for Chronic Kidney Disease in Black Sickle Cell Trait Patients*

Jin Wei, PhD  
University of South Florida  
*Relaxin Receptor, Tubuloglomerular Feedback and Preeclampsia*

Jie Zhang, PhD  
University of South Florida  
*Renal Mechanism for Hypertension in Diabetes*

## **William and Sandra Bennett Clinical Scholars Program**

Funded annually, the program provides \$50,000 a year for two years to a nephrology educator to conduct a project to advance all facets of nephrology education and teaching.

Georges Nakhoul, MD, FASN  
Cleveland Clinic Foundation  
*Shaping the Renal Curriculum of the Future: Creating and Assessing a 3D-Augmented Reality Platform of Nephron Function*

## ASN Pre-Doctoral Fellowship Award Program

New in 2018: The ASN Pre-Doctoral Fellowship Award Program provides funding to early career PhD students to conduct original research projects and make contributions to the understanding of kidney biology and disease.

Sunjae Bae  
Johns Hopkins University  
*Tailored Immunosuppression for Kidney Transplant Recipients*

Vasileios Gerakopoulos  
University of Oklahoma Health Sciences Center  
*An Essential Role of the Polycystin Complex in Ciliary Disassembly*

Fatimah Khalaf  
University of Toledo  
*Paraoxonase-1 Regulation of Renal Inflammation in Chronic Kidney Disease*

Rhiannon Reed  
University of Alabama at Birmingham  
*Evaluating the Implementation and Effectiveness of the Living Donor Navigator Program*

Katherine Shipman  
University of Pittsburgh  
*Megalin Traffic in Dent Disease*

## Founders Circle Members

The ASN Foundation for Kidney Research gratefully acknowledges our Founders Circle Members for their generous contributions. With the help of our Founding Members, the ASN Foundation is making great strides in supporting the next generation of nephrology clinicians, researchers, and educators who will fuel innovation and translate findings into improved quality of life for patients.

### Career Development Grants Program Donors



\$15,000,000



\$1,000,000

### Ben J. Lipps Research Fellowship Program Donors



\$10,000,000



\$6,500,000



\$1,000,000



\$1,000,000



\$1,000,000



\$500,000

# ASN Foundation for Kidney Research Supporters

## Visionary Circle

The Visionary Circle recognizes individuals who have donated, pledged, or made a bequest of \$75,000 or more to the ASN Foundation or its programs:

Bob Alpern and Pat Preisig  
William and Sandra Bennett  
Jonathan and Deb Himmelfarb  
Paula Messenheimer and Ray Harris  
William E. Mitch and Alexandra F. Mitch



## Securing the Future Campaign Donors

Donations to the Securing the Future Campaign support efforts to endow the Career Development Grants Program.

### Benefactors (\$50,000+)

Mark D. Okusa and Diane L. Rosin Okusa  
Ambra Pozzi and Roy Zent

### Patrons (\$25,000+)

Sharon Anderson  
Tomas Berl  
Joseph V. Bonventre  
Linda and Tom DuBose  
William and Mary Henrich  
Thomas H. Hostetter  
Allison and Tod Ibrahim  
Sharon and John Moe  
Barbara T. Murphy  
Prabir Roy-Chaudhury  
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John Sedor and Geri Presti  
Wanda and Donald E. Wesson

### Advocates (\$10,000+)

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The Hakim Family Fund  
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Julie Lin and Frank S. David  
Rajnish Mehrotra  
Susan E. Quaggin  
John R. and Margaret Duffey Raymond  
Matthew R. Weir  
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Uptal Patel  
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Detlef O. Schlondorff  
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### Friends (under \$5,000)

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Alan S. L. Yu  
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Anonymous (18)

## Annual Fund Donors

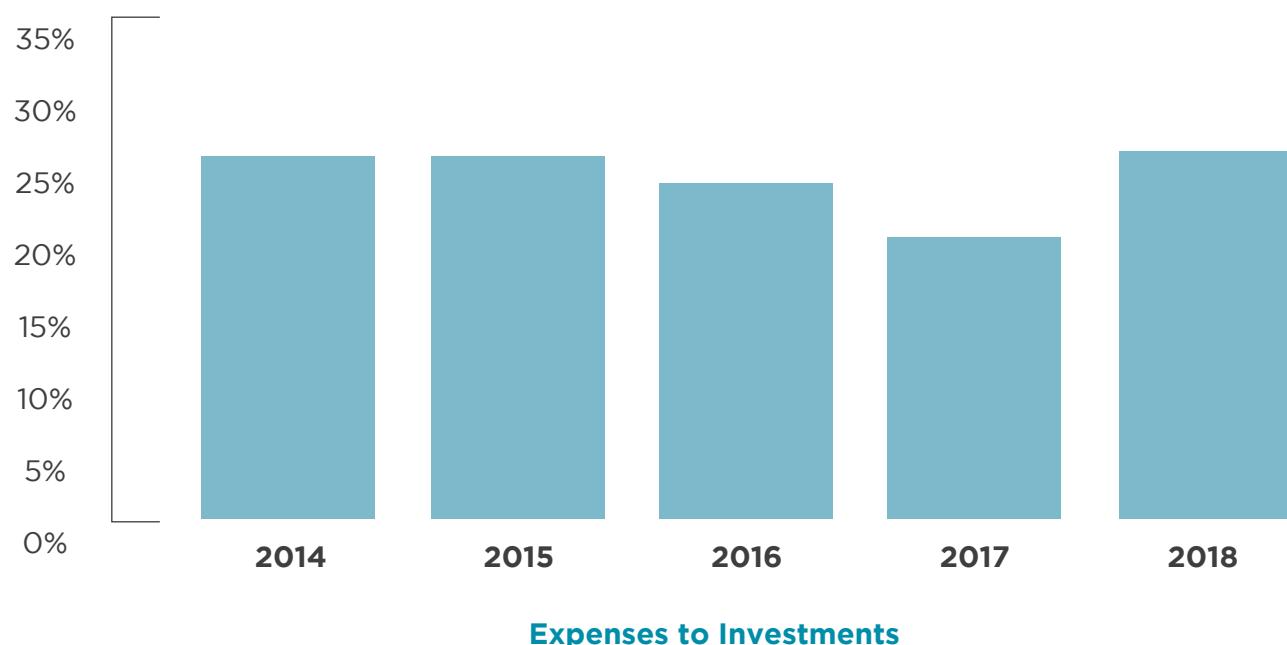
Annual fund donors have contributed to general Foundation activities.

Sharon G. Adler  
Susan C. Brigman  
Arnold S. Berns  
Kathleen L. Frei  
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Thomas H. Hostetter  
Benjamin D. Humphreys  
Jane Johnston  
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Carol Licht  
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Nancy Markle Gift Fund held by Fidelity Charitable  
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David J. Salant  
Wendy Marie Selde  
Risé Siegel  
John C. Stivelman  
Penny Westendorf  
Matthias Wolf  
Byron Yoburn  
Anonymous (1)

## Consolidated Net Assets, Liabilities, and Investments

	2018	2017	2016	2015	2014
<b>Total Liabilities</b>	\$8,962,339	\$8,972,244	\$10,308,147	\$10,673,245	\$10,618,659
<b>Total Net Assets</b>	\$99,645,276	\$104,606,161	\$87,691,111	\$77,561,417	\$75,338,984
<b>Total Liabilities and Net Assets</b>	\$108,607,615	\$113,578,405	\$97,999,258	\$88,234,662	\$85,957,643

	2018	2017	2016	2015	2014
<b>Total Investments</b>	\$93,297,021	\$99,151,805	\$84,107,568	\$74,138,196	\$72,675,122



**26%**

Ratio of  
Expenses to  
Investments  
in 2018

Monitoring the ratio of expenses to investments is critical in supporting ASN's continued growth and preserving ASN's stable financial health.

## Organizational Snapshot

American Society of Nephrology and the ASN Foundation for Kidney Research consolidated statements of financial position.

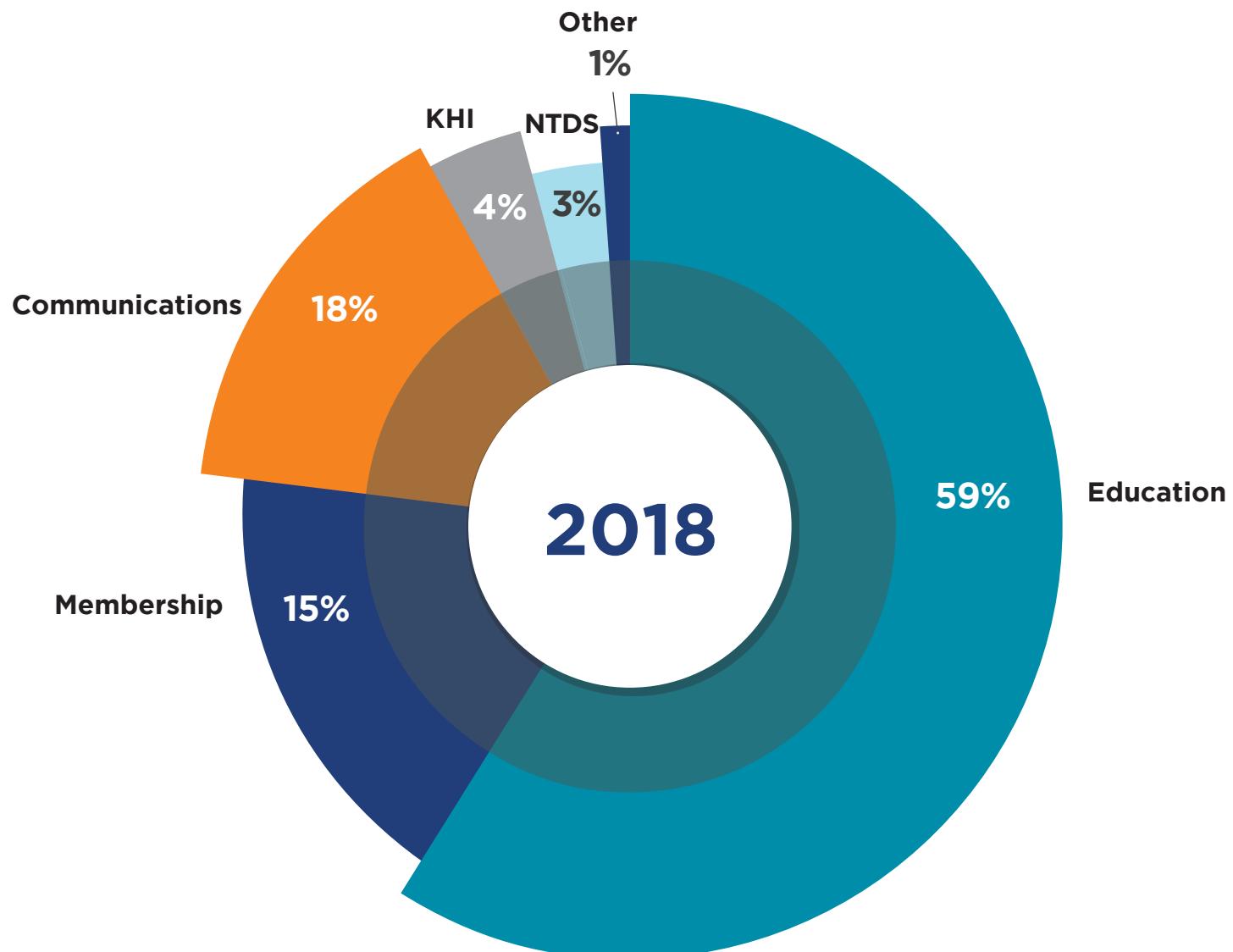
Assets	2018	2017
<b>Cash</b>	\$4,964,808	\$3,968,656
<b>Accounts receivable, net</b>	\$1,199,280	\$1,322,061
<b>Grant receivable</b>	\$500,000	\$300,000
<b>Pledges receivable, net</b>	\$482,238	\$899,799
<b>Investments</b>	\$93,297,021	\$99,151,805
<b>Prepaid expenses and deposits</b>	\$649,684	\$201,966
<b>Property held for sale</b>	\$7,294,102	\$-
<b>Property and Equipment, net</b>	\$152,150	\$7,665,786
<b>Artwork</b>	\$68,332	\$68,332
<b>Total Assets</b>	<b>\$108,607,615</b>	<b>\$113,578,405</b>

Liabilities	2018	2017
<b>Accounts payable and accrued expenses</b>	\$1,369,406	\$1,087,314
<b>Deferred revenue</b>	\$3,427,059	\$3,034,934
<b>Interest rate swap agreement</b>	\$54,179	\$113,739
<b>Tax exempt bond</b>	\$4,111,695	\$4,736,257
<b>Total Liabilities</b>	<b>\$8,962,339</b>	<b>\$8,972,244</b>

Net Assets	2018	2017
<b>Without donor restrictions</b>	\$99,163,038	\$103,706,362
<b>With donor restrictions</b>	\$482,238	\$899,799

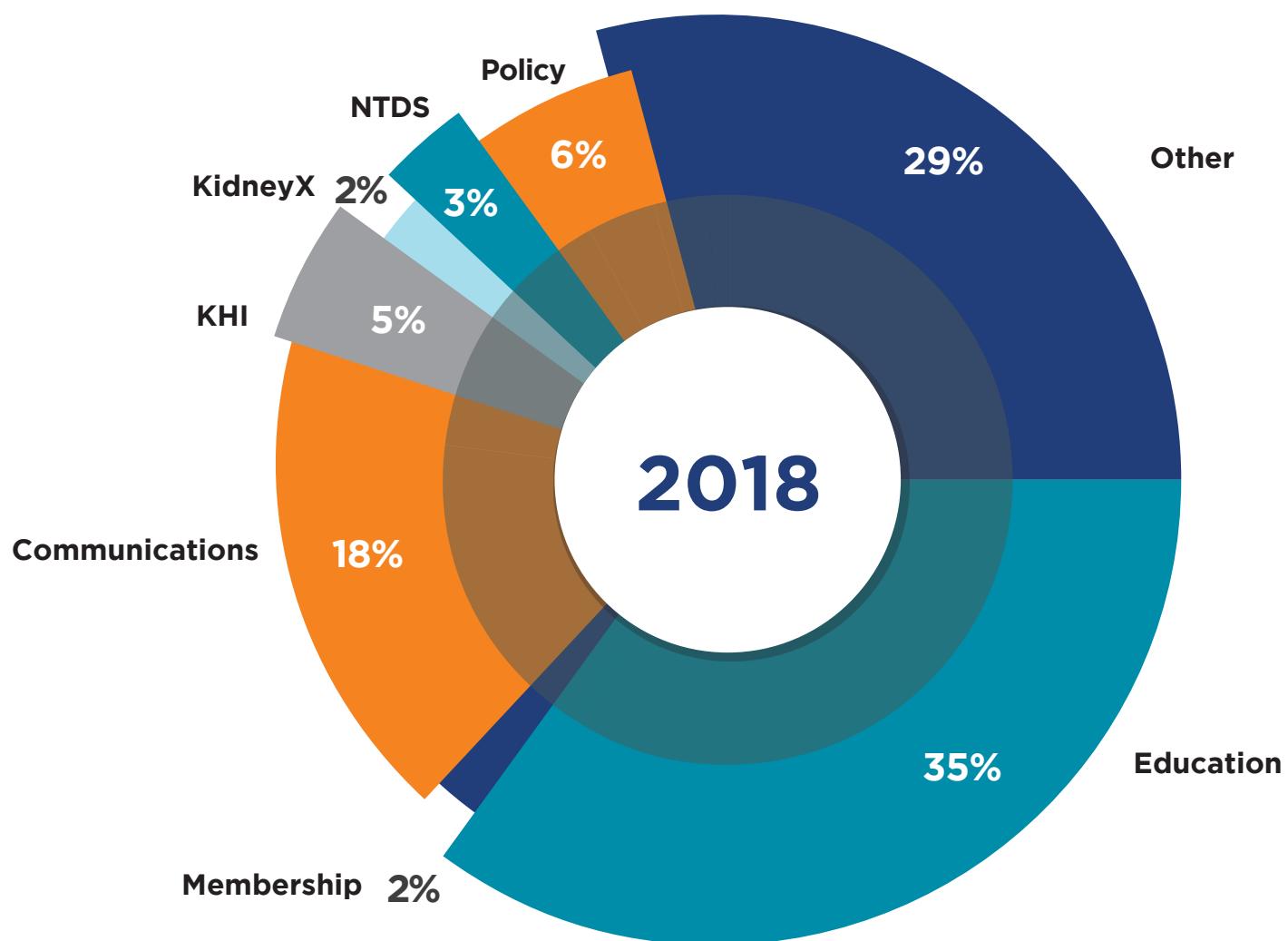
<b>Total Net Assets</b>	<b>\$99,645,276</b>	<b>\$104,606,161</b>
<b>Total Liabilities and Net Assets</b>	<b>\$108,607,615</b>	<b>\$113,578,405</b>

## ASN Sources of Revenue



	2017	2016	2015	2014	2013	2012
<b>Education</b>	57%	62%	63%	61%	61%	62%
<b>Communications</b>	21%	20%	22%	23%	22%	23%
<b>Membership</b>	14%	13%	19%	21%	22%	13%
<b>Other</b>	2%	—	1%	1%	1%	2%
<b>KHI</b>	3%	4%	2%	—	—	—
<b>NTDS</b>	3%	1%	—	—	—	—

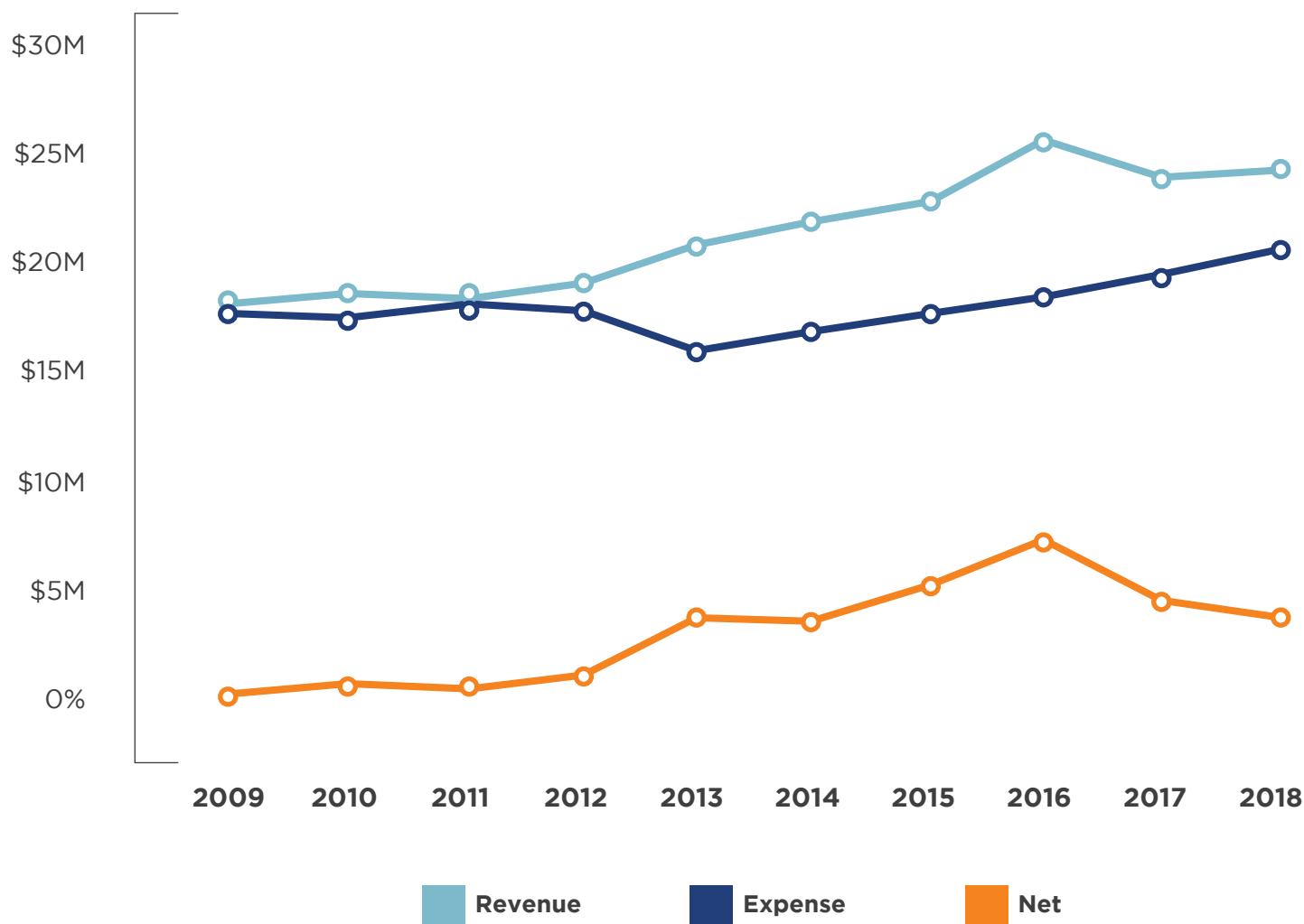
## ASN Sources of Expenses



	2017	2016	2015	2014	2013	2012
<b>Education</b>	37%	45%	43%	48%	48%	43%
<b>Communications</b>	18%	22%	23%	22%	25%	22%
<b>Other</b>	29%	21%	22%	19%	19%	30%
<b>Policy</b>	6%	4%	5%	5%	4%	3%
<b>Membership</b>	2%	2%	2%	2%	2%	2%
<b>KHI</b>	6%	4%	5%	4%	2%	—
<b>NTDS</b>	2%	2%	—	—	—	—
<b>KidneyX</b>	—	—	—	—	—	—

## Financial Snapshot

2009-2018

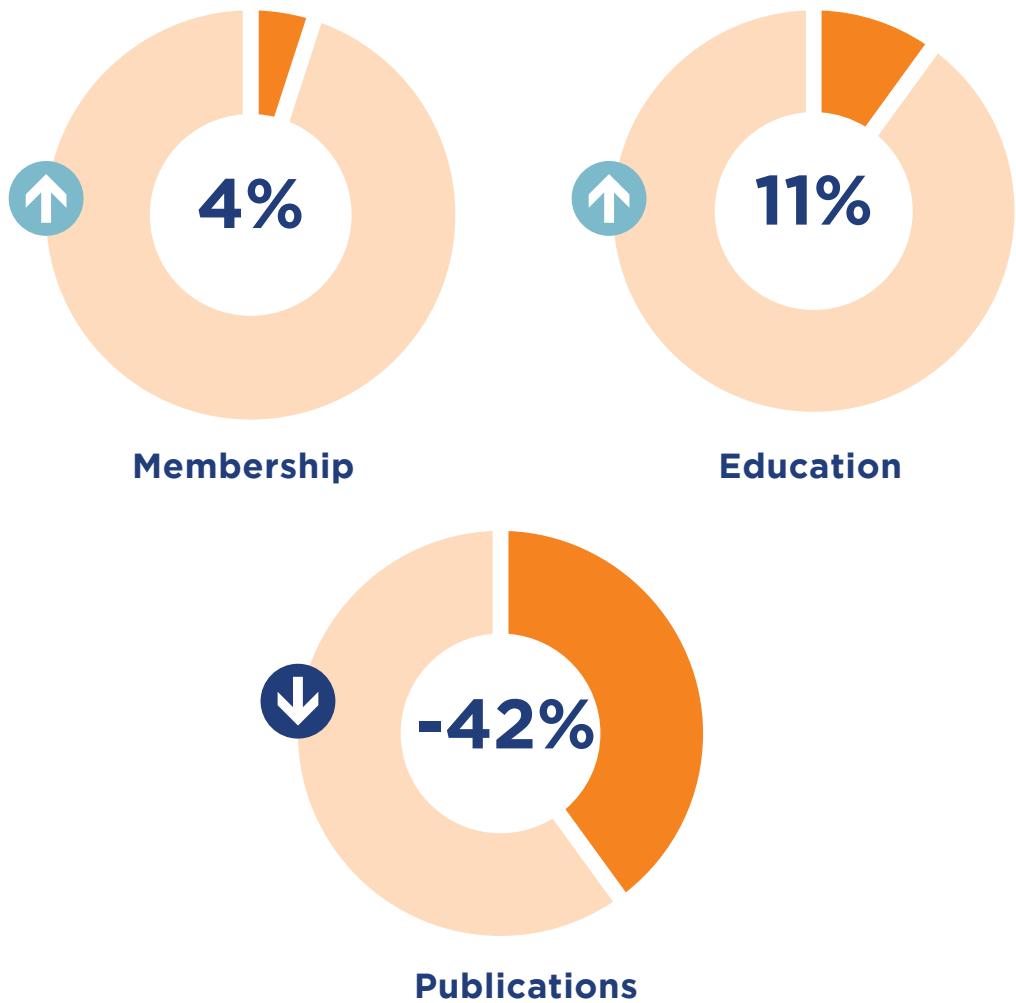


	2009	2010	2011	2012	2013
<b>Total Revenue</b>	\$18,143,666	\$18,553,510	\$18,472,188	\$19,412,239	\$20,586,347
<b>Total Expenses</b>	\$17,854,728	\$17,263,753	\$18,011,418	\$17,764,491	\$15,954,195
<b>Net</b>	\$288,938	\$1,289,757	\$460,770	\$1,647,748	\$4,632,152
<b>Total Liabilities</b>	\$2,560,490	\$12,166,749	\$12,692,878	\$11,950,610	\$11,076,846
<b>Total Net Assets</b>	\$38,997,753	\$44,460,455	\$43,214,638	\$49,206,628	\$70,506,984
<b>Total Liabilities and Net Assets</b>	\$41,558,243	\$56,627,204	\$55,907,516	\$61,157,238	\$81,583,830

## Performance in 2018

In FY 2018, growth in current programs and development of new initiatives, coupled with an 5% increase in overall revenue, resulted in a 18% decrease in net margin over 2017. A few of ASN's departments, particularly Membership and Education, experienced an increase in 2018.

### Net Margin Since 2017



	2014	2015	2016	2017	2018
<b>Total Revenue</b>	\$20,791,852	\$22,802,006	\$25,588,532	\$24,156,447	\$25,468,501
<b>Total Expenses</b>	\$16,680,177	\$17,297,439	\$18,645,417	\$19,235,442	\$21,456,666
<b>Net</b>	\$4,111,675	\$5,504,567	\$6,943,177	\$4,921,005	\$4,011,835
<b>Total Liabilities</b>	\$10,618,659	\$10,673,245	\$10,308,147	\$8,972,244	\$8,962,339
<b>Total Net Assets</b>	\$75,338,984	\$77,561,417	\$87,691,111	\$104,606,161	\$99,645,276
<b>Total Liabilities and Net Assets</b>	\$85,957,643	\$88,234,662	\$97,999,258	\$113,578,405	\$108,607,615

# Financial Health Dashboard

## Income Statement

Consolidated

Revenue	2018	2017	2016	2015	2014
<b>Revenue (unrestricted and restricted)</b>	\$25,468,501	\$25,243,677	\$26,428,322	\$23,726,773	\$21,608,877
<b>Growth rate %</b>	0.9%	-4.5%	11.4%	9.8%	-33.7%
Revenue Sources (% of total)	2018	2017	2016	2015	2014
<b>Membership Dues</b>	16.1%	15.0%	13.7%	14.1%	15.3%
<b>Government Grants</b>	2.0%	4.1%	3.1%	1.7%	0.5%
<b>All other grants and contributions</b>	0.60%	4.63%	2.0%	3.9%	4.3%
<b>Corporate Support</b>	16.9%	16.0%	17.3%	19.4%	19.2%
<b>Program Services Revenue</b>	64.4%	60.3%	63.9%	60.9%	60.7%
Expenses	2018	2017	2016	2015	2014
<b>Expenses</b>	\$24,139,293	\$22,063,996	\$21,070,612	\$19,759,900	\$19,770,889
<b>Growth Rate %</b>	9.4%	4.7%	6.6%	-0.1%	4.3%
<b>Personnel</b>	\$8,255,991	\$6,860,007	\$5,777,972	\$4,983,158	\$4,889,012
<b>Growth Rate %</b>	20.3%	18.7%	16.0%	1.9%	8.9%
Profitability	2018	2017	2016	2015	2014
<b>Change in Unrestricted Net Assets</b>	\$(4,543,324)	\$16,915,050	\$10,129,694	\$2,222,433	\$4,832,000
<b>As % of Expenses</b>	-18.8%	76.7%	48.1%	11.2%	24.4%
<b>Growth Rate %</b>	-4.3%	19.3%	13.1%	2.9%	6.9%

## Balance Sheet

Composition	2018	2017	2016	2015	2014
<b>Cash</b>	\$4,964,808	\$3,968,656	\$3,420,812	\$4,866,312	\$4,014,674
<b>Investment</b>	\$93,297,021	\$99,151,805	\$84,107,568	\$74,138,196	\$72,675,122
<b>Gross land, buildings, and equipment</b>	\$152,150	\$7,665,786	\$7,957,988	\$8,136,584	\$8,315,531
<b>Liabilities as % of assets</b>	8.3%	7.9%	10.5%	12.1%	12.4%
<b>Total unrestricted net assets</b>	\$108,607,615	\$113,578,405	\$87,691,111	\$77,561,417	\$75,338,984
Liquidity	2018	2017	2016	2015	2014
<b>Months of Cash</b>	2.5	2.2	1.9	3.0	2.4
<b>Months of Cash and Investments</b>	48.8	56.1	49.8	48.0	46.5

## 2018 Corporate Supporters

The ASN Corporate Support Program recognizes supporters year round for their generous contributions to the Society. Through this program, supporters help ASN lead the fight against kidney diseases. ASN gratefully acknowledges the following companies for their contributions in 2018.

### Diamond Level



### Platinum Level



### Gold Level

Horizon Pharma  
Janssen Pharmaceuticals, Inc.  
Sanofi Genzyme

### Silver Level

Alexion Pharmaceuticals, Inc.  
Baxter Healthcare Corporation  
Mallinckrodt LLC  
OPKO Pharmaceuticals, LLC  
Tricida, Inc.

### Bronze Level

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Daiichi Sankyo, Inc.  
Genentech  
Klotho Therapeutics Inc.  
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## Web Services

