

# NEWS

# ISN

ISN NEWS 41 May 2012

## Sustainability: ISN and education for the future



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Advancing Nephrology Around the World



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# EDITORIAL

## Connections make for sustainable education



Education has always been at the heart of ISN activities, advancing nephrology worldwide. ISN Fellows sharing their experiences, ISN Sister Renal Center pairs working together to improve kidney care, Educational Ambassadors teaching in emerging countries. These dedicated initiatives reveal how ISN is engaging doctors to create sustainable forms of education and training.

How can education remain sustainable? This is what we would like to highlight in this edition of ISN News. Through ISN's programs, events and activities, we are connecting medical communities and encouraging them to share information across borders. We are also raising our profile to pathologists and pediatricians, giving them the chance to specialize in nephrology. In today's fast-paced society, this is more important than ever as many communities are missing out on the best education, training and learning resources.

ISN has established a new education strategy to integrate and modernize its educational activities, making training more accessible to nephrologists in developed and developing countries. The new ISN education website is key to getting the ball rolling and sharing the educational resources that we have. A large, broadly representative sample of ISN membership, is currently reviewing the tool, which will go live this June.

I am very excited about how this tool will help to involve more experts, ISN members and the broader nephrology community in our mission, encouraging them to comment on and contribute to new knowledge, state-of-the-art technologies and the changing landscape of nephrology.

### David Harris

Chair ISN Education Committee

David Harris is a nephrologist in Sydney Australia, and Chair of the ISN Fellowship Program, Publications and Education Committees.

### ISN News

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ISN acknowledges our corporate members for their contributions.

# News in brief

## ISN admitted into official relations with World Health Organization

The start of 2012 marked ISN's acceptance into official relations with the World Health Organization (WHO). ISN is one of only 182 non-governmental organizations worldwide to currently be in official relations with the WHO, as well as the first and only kidney-related organization to have attained this prestigious status.

ISN President, John Feehally welcomed the announcement, "I am excited that ISN now has official relations with WHO. I am sure this will give ISN new opportunities to make clear the importance of kidney disease to global health, and show how cost-effective changes in healthcare systems can make a real difference to the problems caused by kidney disease worldwide."

Giuseppe Remuzzi, ISN President Elect, is leading ISN's efforts with the WHO and looking at how this new relationship can assist ISN's programs. "The ISN-WHO official relationship will hopefully implement detection and prevention programs, reduce the costs of chronic kidney disease and prevent cardiovascular complications of obesity and diabetes and ultimately improve public health."



## Global Outreach Postings: submit your manuscripts now!

ISN is proud to launch Global Outreach Postings, a new initiative that will help nephrologists around the world spread their knowledge. As part of ISN GO program activities and in collaboration with the ISN Education Program, Global Outreach Postings is an online publication scheme for nephrologists residing and working in emerging countries.

Saraladevi Naicker, Chair of the ISN Global Outreach Postings Committee whose members will review the manuscripts, says: "We strongly believe that this initiative will allow nephrologists from emerging countries to publish manuscripts that are in line with ISN's mission and of interest to readers from around the world."

Submitting manuscripts for publication within ISN's new Global Outreach Postings is free of charge, but some strict requirements need to be met. The articles must be concise, written in English and come from ISN members who are living and working in emerging countries.

Thanks to a simple application form, manuscripts will be reviewed within two months. Successful manuscripts will be posted on ISN's website and promoted to some 10,000 ISN members worldwide.

For more information, visit:

[www.theisn.org/gopostings](http://www.theisn.org/gopostings)



## Membership

### Make a difference

ISN connects science and humanitarian efforts. Through education, ISN is reaching out to global medical communities, giving them the knowledge and support to reduce the impact of kidney disease worldwide. Membership to ISN supports these activities and provides specific benefits including exclusive eligibility for ISN capacity building programs, online and print subscription to *Kidney International* and *Nature Reviews Nephrology*, and reduced registration fees to ISN events. Not yet a member? Visit: [www.theisn.org/join](http://www.theisn.org/join).

### Update your membership and profile

To ensure you receive all your benefits, please keep your profile up to date and renew your membership in a timely manner. Access or update your profile at: [www.theisn.org/memberlogin](http://www.theisn.org/memberlogin).



# Being a nephrologist

## How is ISN helping to sustain education?

**It is an exciting time to start a career in nephrology in the developing and developed world. There is a huge need for nephrologists as the number of patients with acute and chronic kidney disease is growing. With an explosion of knowledge, there is also a lot of information to translate into real treatment benefits for kidney disease patients.**

**As Chair of the ISN Publications and Educational Committees, David Harris shares his thoughts on the challenges for kidney doctors worldwide. He tells ISN News what the future holds for the next generation of nephrologists and how technology will change the way we learn.**



### **How easy is it to become a nephrologist?**

Training to become a nephrologist is challenging, as there is such a broad body of basic and clinical knowledge that needs to be understood. However, applying relatively simple information can benefit patients greatly. Focusing on individual fields within nephrology can enhance the ability to translate new knowledge into clinical practice fast. In emerging countries, one of the greatest challenges is the limited number of established nephrologists available to train and supervise young nephrologists.

In the developed world, educational opportunities for nephrologists are substantial, both for trainees and practicing nephrologists, in all fields of nephrology. However, in developing countries training and continuing education often depend on external sources and experts.

### **How is ISN improving educational opportunities?**

Nearly everything that ISN does has an educational component to it, for young and established nephrologists alike. For nephrologists from the developed world, ISN meetings, the new website and ISN's journals are key elements in ISN's education strategy. For young and established nephrologists in developing countries, all of the ISN Global Outreach Programs provide additional opportunities. In addition, the new Global Outreach Postings are specifically targeted at nephrologists from developing countries.

### **What does sustainable education mean to you?**

To me sustainable education refers to education that can be maintained at a level of sophistication that benefits nephrologists around the world. It is regarded by nephrologists as being valid and relevant, and gains momentum so it becomes self-replenishing. It needs to provide the infrastructure and tools for learning, while having a continuous positive impact on, and being an integral component of, the daily practice of nephrology in all of its forms.

### **How does technology fit into education today?**

Technology can be harnessed to deliver more educational opportunities, making them easily accessible, affordable, relevant, up-to-date and state-of-the-art. All ISN's educational activities will be featured on its new education website and technology will increasingly become a powerful vehicle for all meetings and educational resources. ●

# ISN educational website taking education resources to the next level

Key to disseminating ISN's education strategy is the new ISN education website. A large, broadly representative sample of ISN membership, is currently reviewing the website and after that it will go live in June.

ISN has partnered with Jordan Weinstein and UKidney to bring a state-of-the-art, highly accessible and user-friendly format, which will showcase all of ISN's educational activities and resources.

It will foster active involvement in the educational experience by encouraging commentary and contributions from experts, ISN members and the broader nephrology community.

Its key elements will include:

- An 'Ask the Expert' feature
- A directory of key nephrology resources
- Case reports and presentations from ISN meetings
- Clinical practice guidelines with links to other organizations such as KDIGO, DOPPS and Cochrane
- Histopathology collections and interventional nephrology resources
- Global Outreach Postings (free online publication of manuscripts of nephrologists from developing countries)
- Key extracts from *Kidney International*
- And other features of interest to nephrologists from all regions of the world.

ISN's education website will be continually updated and expanded in response to suggestions from ISN members, new knowledge, state-of-the-art technologies and the changing landscape of nephrology. ●

**“Sustainable education is regarded by nephrologists as being valid and relevant, and gains a momentum so that it becomes self-replenishing.”**



# ISN

# GLOBAL OUTREACH (GO) PROGRAMS

**BUILDING KIDNEY HEALTH EQUALITY  
THROUGH EDUCATION, TRAINING  
AND RESEARCH**

**“All ISN GO Program volunteers donate their time and expertise to contribute to a very humanitarian mission.** Seen as the foundations of ISN, they are dedicated to assessing the needs and providing educational opportunities to renal care providers in the developing world. In return, medical communities from emerging countries receive the current training they deserve, share the latest knowledge and skills with their visiting international colleagues and ultimately improve the level of local patient care.”

William Couser,  
Chair of the ISN  
GO Programs

Blood testing in Nepal



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Advancing Nephrology Around the World



# Raising the profile of nephropathology

**ISN Fellow encourages more Indian pathologists to specialize in nephropathology.**

**T**he relationship between a nephropathologist and a nephrologist is crucial to achieve a more precise diagnosis for kidney disease patients. Anila Abraham knew this when she joined the ISN Global Outreach (GO) Fellowship Program to specialize in nephropathology.

ISN GO Fellowships help young doctors visit developed centers and gain valuable experience from them. This is also the case for pathologists who wish to train further in nephropathology. “Without ISN support, it would be very difficult to access some of the most reputed centers. This training is definitively beneficial in the day-to-day work of a pathologist,” explains Abraham.

The concept of sub-specialization in pathology is still in its infancy in India. Only a handful of centers have a dedicated nephropathologist. Among these, only three or four centers have an electron microscopic facility. With about 1,000 registered nephrologists and a large number of dialysis and transplantation centers across the country, there is a strong need for trained nephropathologists.

“Once my Masters Degree in pathology was complete, I immediately joined the Muljibhai Patel Urological Hospital in Nadiad, Gujarat, an exclusive nephrology-urology institute. I worked under Mohan Rajapurkar, an eminent nephrologist who encouraged me to apply for the ISN Fellowship program.”

Abraham says she was keen to improve her skills further and get hands-on experience using an electron microscope. “I was invited to spend three months at LSU Health Sciences Center Shreveport. I can confidently say that the training has improved my diagnostic skills,” she adds.

Once Abraham returned to India in June 2010, she set up the protocols and systems, based on those in US centers. This greatly improved the quality of the reports generated from the home institute. She has set up an exclusive renal pathology center at the Madras Medical Mission, a tertiary care referral center in South India.

She states that: “in the past year, we have received biopsies from about 50 centers across southern and eastern India, reporting about 250-300 biopsies a month. With the experience I gained in electron microscopy, Madras Medical Mission is in the process of establishing an electron microscopic facility in our city.”

To add to these activities, Abraham conducts monthly clinicopathologic meetings for nephrology fellows and practicing nephrologists from institutes in Chennai. During a recent Continuous Medical Education course, she got positive feedback from many participants and hopes that this will spark more interest in nephropathology from budding pathologists.

Her experience reveals the sustainable aspect of ISN educational opportunities, encouraging fellows to stay connected and continue learning. “My host mentor still continues to provide invaluable support in terms of expert opinion on the cases I send him. He also performs electron microscopic studies for my challenging cases.” ●



# ISN gives voice to transplantation and donation

**On March 8, 2012, World Kidney Day focused on the positive outcome of kidney transplantation and the life-saving aspect of donation. ISN would like to thank all ISN leaders and councilors for their enthusiasm and dedication to this year's campaign.**

## Leading the way for ISN

In the run up to the big day, ISN leaders and councilors were out and about supporting this cause. ISN President John Feehally spoke about transplantation at the Jordan Society of Nephrology's annual congress. ISN President-Elect Giuseppe Remuzzi wrote an editorial on World Kidney Day published in *OK Salute*, a supplement in the Italian newspaper *Corriere della Sera*. ISN Secretary General Adeera Levin was in Boston, Massachusetts meeting with students and researchers, discussing her own research and giving a lecture on the global burden of chronic kidney disease.

## Outreach activities

There are different ways to show support for this important cause. Organizing talks and public screenings were how ISN councilors got involved in this year's campaign. In her laboratory in Toronto, Susan Quaggin hosted an institution-wide "Kidney Drop-In" with the help of her students and post-doctorate fellows to promote knowledge, interest and collaborations in kidney research.

Sanjay Agarwal from the All India Institute of Medical Science says that: "patients on dialysis received counseling for renal transplants. They were also given dietary and other treatment advice." Several screenings were carried out at the High Technology Medical Center University Clinic in Georgia, where the largest department of nephrology is established. "More than 1,000 people with diabetes and hypertension underwent the screening," adds Irma Tchokhanelidze. Outreach activities also took place in Armenia, Russia and Azerbaijan.

Mona Nasir Alrukhaimi, Co-chair of the ISN GO Middle East Committee spoke at the Jordan Society of Nephrology. Various activities took place in the United Arab Emirates in hospitals, malls and in public parks including free screenings. The KDIGO guidelines for care of transplant patients were printed in a booklet format and distributed to all renal physicians for easy access during their daily practice. Also the DICC brochure to educate patients against buying a kidney was printed in Arabic and English and distributed to the public.





## *Donate Kidneys for Life Receive*

### Talking to the press

Down Under, Peter Kerr from Australia held a media event giving journalists the chance to tour the renal facilities at Monash University hospital in Melbourne. In a country like Australia, he believes that increasing the transplant message is important to improve awareness of organ donation.

Zhi-Hong Liu, ISN councilor and President of the Chinese Society of Nephrology, celebrated WKD with the Chinese Society of Transplantation and the Red Cross Society of China. She participated in a press conference in Nanjing to raise awareness about kidney disease and transplantation. A public health announcement was also broadcast on national television about the lack of donor organs and the use of deceased donor organs.

Francesco Locatelli spoke at the Senate in Rome, Italy, generating strong media presence across the country. Kai-Uwe Eckardt helped organize a press conference in Germany where a patient who received a combined kidney and pancreas transplant two years ago told his story.

### Engaging with doctors

ISN's Affiliated Societies were also very active preparing meetings and giving lectures in The Netherlands and Spain. In Vietnam, Tran Xuan Truong took part in a meeting on transplantation and transplant recipients. Gathering some 200 specialists from South Vietnam, it was a valuable meeting for him and his colleagues.

Laszlo Rosivall, President of the Hungarian Nephrological Society, helped plan road shows and screenings to promote kidney donation. He also organized the 19th Budapest Nephrology School and 13th IFKF Annual Meeting in Budapest.

Further south, Martha Franco was in Mexico City for a meeting supported by several medical and philanthropic institutions supporting programs to help patients with renal disease. "Several nephrologists talked about renal disease in children, chronic renal disease in adults, peritoneal and hemodialysis, renal transplants in Mexico and nutrition for patients with renal disease," she adds.

In Chile, Sergio Mezzano lectured in Valdivia, at an event dedicated to CKD and supported by the Ministry of Health, political representatives and the Red Cross. ●

**World Kidney Day is a joint initiative between ISN and the International Federation of Kidney Foundations. This year activities grew with 801 events reported in 154 countries. 66 Journals published the WKD Scientific Editorial. Next year's campaign takes place on March 14 and will focus on acute kidney injury, visit: [www.worldkidneyday.org](http://www.worldkidneyday.org)**



# Caring for younger generations

**ISN/IPNA collaboration helps pediatric nephrology grow worldwide, provide better care for children with kidney disease.**

Pediatric nephrology is a small but important field. There are very few pediatric nephrologists in emerging countries. Some general pediatricians have an interest in nephrology but this really depends on the motivation of adult nephrologists. So, teamwork development is a must when it comes to training adult and pediatric nephrologists.

"It's important that these groups learn from each other," explains Mignon McCulloch who has been teaching pediatric nephrology in Ghana through the ISN Global Outreach (GO) Fellowship and Sister Renal Center (SRC) Programs. For 10 years, she worked at the Red Cross Children's Hospital in Cape Town teaching pediatrics and helped establish pediatric transplantation in Tunisia in 2010.

Since 2003, ISN and the International Pediatric Nephrology Association (IPNA) have co-funded 16 fellows in Kenya, Nigeria, Benin, Ghana and Sudan. John Feehally says that: "Africa is not the only region, but a very good example of the 'added value' of working together. These ISN/IPNA Fellowships last up to two years helping pediatricians complete their training. We are now seeing the fruit of that, with much potential to come."

A good example of this success and sustainable education is the ISN GO SRC partnership between Ghana and the UK. The link between this pair is Sampson Antwi who trained with McCulloch from 2008 to 2009. Antwi returned to his home institution to establish a pediatric renal unit in Kumasi.

With the help of the UK center, an acute peritoneal dialysis program was put in place for children, gathering funding for two years using donor money. "This partnership really strengthened support between adult and pediatric nephrologists and raised their profile to pediatric kidney disease professionals and administrators," continues McCulloch.

Moreover, the two centers have managed to establish pediatric nephrology as an accepted practice, teaching and training doctors and nurses. They will also work towards setting up acute peritoneal dialysis services and then move on to chronic dialysis. On a recent trip to Ghana, McCulloch gave a workshop on acute peritoneal dialysis. She also sourced some appropriate pediatric peritoneal dialysis catheters. "Hopefully, we can roll this out to other regions," she adds.

During her visit, she raised awareness about pediatric nephrology, meeting specialists at pediatric centers in Accra and Kumasi and spoke to representatives from Sustainable Kidney Care who were supportive to provide dialysis fluid for two years with acute peritoneal dialysis catheters. "In addition, I have contacted companies producing acute peritoneal dialysis catheters in the UK who are looking at ways of assisting this kind of initiative," says McCulloch.

This story reveals the effect of partnerships with sister organizations such as IPNA. They are valuable in setting up educational opportunities that continue well into the future, advancing care for all kidney patients worldwide, whether they are children or adults. ●



# Taking on a sustainable education mission

**ISN Educational Ambassadors volunteer to share their knowledge with those who have not benefitted from the same opportunities. Our Educational Ambassadors reveal how learning really goes both ways.**

Italian nephrologist **Giovanni Battista Fogazzi** believes that being an ISN Educational Ambassador is rewarding on a professional and emotional level. He learned to adapt his knowledge to what was available locally.



“With a growing number of local nephrologists and a government program for hemodialysis, the situation is gradually improving in Benin. However, basic diagnostic facilities such as renal biopsies are not available yet. Peritoneal dialysis and renal transplantation are also missing.”



**Ravindra Mehta** travelled to India to talk to post-graduate students and faculty about Acute Kidney Injury. His support gave the students more confidence to manage early-case patients.

“Doing the rounds, meeting patients and looking at how care is delivered gives you a wider approach to treatment and care.”

**Helmut Rennke**, from the United States, wanted to show his approach to analyzing kidney biopsies. His visit revealed how pathologists and nephrologists should work together to provide patients with the most precise diagnosis.

“To be a good ambassador, you have to be willing to give what you have. Being approachable is essential and, in some countries, good language skills are vital to communicate.”



**Moira Finlay**, a pathologist from Australia, brought her practical point of view to the staff at a laboratory at Ho Chi Minh City University of Medicine and Pharmacy.

She created interaction between local pathologists and nephrologists. They each picked up different techniques depending on their training and discovered easier and less time-consuming procedures that have changed how they currently work. She also explained some recurring terms and the best language to use when writing reports.



**Ayo Shinibare** from Nigeria left Cameroon feeling he had made a positive impact on the lives of many patients. They will now benefit from better quality dialysis as a result of good vascular access.

“My visit was a welcomed development for the local medical community who were keen to learn these procedures. It is comforting to know that these procedures will now be carried out by locally-trained surgeons.”



**Arthur Cohen**, from the United States, focused his visit to Russia on renal pathology. He gave local doctors the chance to discuss tissue handling and talk about challenges regarding a lack of electron microscopy.

“This program helps local medical communities into the future as it helps transfer knowledge but also build interaction with experts to clarify any issues in the future.” ●

**The application deadline for the ISN GO Educational Ambassadors Program has now been extended to May 31<sup>st</sup>, 2012. Visit [www.theisn.org](http://www.theisn.org) for more information.**

# Reaching out on a regional level

**ISN GO Regional Workshops help medical communities share knowledge and face challenges across regions together.**

The ISN Global Outreach (GO) Programs embody ISN's mission of advancing nephrology worldwide, increasing educational and training opportunities for nephrologists everywhere. They have sought to bridge gaps in training and make a real difference.

The ISN GO Programs have now taken one step further to strengthen connections between ISN leaders, members and other interested individuals in eight developing regions. In 2011, ISN GO began holding informal regional workshops and has now decided to hold one in each region every two years.

"These workshops really provide an open setting where everyone in a region who is working on any ISN GO Program can meet to discuss, and provide feedback on the programs. It definitely helps to promote interaction and networking between different ISN GO Programs conducted within the same region as well as between ISN leaders and the beneficiaries of our programs in the field," explains ISN GO Program Chair, William Couser.

To maximize attendance, these workshops are generally held at large regional meetings or during ISN GO Continuous Medical Education courses. ISN GO leaders and respective regional committee chairs conduct them jointly.

"As ISN leaders, we get a better understanding of local and regional needs through direct person-to-person interactions with leaders in the regions. Participants get a better understanding of what the five ISN GO Programs can potentially offer them," he adds. "Together we can then develop a plan to make the best use of ISN resources to advance nephrology in that region."

In February 2011, the first regional workshop was organized at the AFRAN meeting in Dakar, Senegal with help from the ISN African Regional Committee. ISN representatives met past ISN Fellows who set up new clinical nephrology programs to improve the knowledge and capacity of local developing centers.

Last year, a further two workshops took place in Russia, the Middle East, with a third in Latin America this April. There are also three more planned for 2012. The East and Central European regional workshop will be organized in France after the ERA-EDTA congress in Paris (May), the Oceania regional workshop in Malaysia following the ISPD meeting in Kuala Lumpur (September) and the East Asia regional workshop at the Chinese Society of Nephrology meeting (October).

This exciting initiative is targeted at any ISN members or interested parties in the region, ISN Affiliated Societies and other national/regional renal societies, ISN Regional Committee chairs and members, and ISN regional councilors.

For further information about this program, get in touch with ISN GO Program Manager Sophie Dupuis at [sdupuis@theisn.org](mailto:sdupuis@theisn.org) ●



John Feehally speaking at the ISN-GO Middle East Workshop



William Couser addressing participants at the ISN-GO Middle East Workshop



Dubai 2011



Russia 2011

# YNC Corner

New activity engages communities to share knowledge.

facebook

Let us know how you are involved in YNC activities by posting regular updates on ISN's Young Nephrologist Facebook page.

**M**any young investigators, particularly from developing countries leave their home country to train at institutions in developed regions and gain international experience in highly reputable research centers, several of them supported by ISN.

After time abroad, most of them cannot find their place and look for national and international visibility to start their academic careers. "The Young Nephrologists Committee has launched a new educational activity based on the success of other programs such as the YNC Educational Workshop and the Mentorship program," explains Young Nephrologists Committee Chair Roberto Pecoits-Filho.

The first meeting of this kind will kick off on September 5, 2012 during the Brazilian Congress of Nephrology and will focus on vascular calcification and uremic toxicity topics. It is supported by ISN, the Brazilian Society of Nephrology, the University of Picardie Jules Verne and the French Institut National de la Santé et Recherche Médicale (INSERM) and is sponsored by AMGEN.

The congress has an international scope, with an international scientific committee, composed of high-level specialists in this area, and well-recognized institutions such as the University of Washington (Seattle, USA) and INSERM (U-1088, Amiens, France).

"We will welcome young and senior researchers from Brazil, France and USA, as well as Brazilian medical students interested in nephrology," adds Rodrigo Bueno de Oliveira from the Brazilian Society of Nephrology who is organizing this event with the YNC's Roberto Pecoits-Filho and Ziad A. Massy (UPJV/INSERM).

This event will include a series of presentations from young investigators living in a specific region. "They have recently completed successful research training and will share emerging scientific results based on their experiences," continues Bueno de Oliveira. The themes of this workshop will be grouped into common areas of investigation. In this case, vascular calcification and uremic toxicity.

The following young investigators will be present:

- Felipe Barreto, Rodrigo Bueno and Daniela Barreto, who are from Sao Paulo and trained in Amiens France
- Sergio Bucharles (Curitiba), who trained in Curitiba, Brazil
- Cristina Karohl (PortoAlegre), who trained in Atlanta, USA

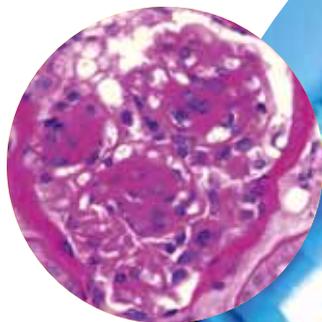
Their presentations will be a mixture of well-known investigations in the area. The list of international guests includes Ziad Massy (France), Tilman Druke (France), Cecilia Giachelli (USA) and the Brazilian faculty.

For further information, contact Nathalie Bouquet at INSERM U-1088 Amiens France: [nathalie.bouquet@u-picardie.fr](mailto:nathalie.bouquet@u-picardie.fr) ●



Young nephrologists - Amiens (France)

Cristina Karohl and Paulo Reggi



# ISN FOREFRONTS SYMPOSIUM 2012

## TUBULOINTERSTITIAL DISEASE IN DIABETIC NEPHROPATHY

### OCTOBER 4-7, 2012

#### MELBOURNE AUSTRALIA

**Sessions will focus on:**

- Micro RNA and extracellular matrix accumulation
- T regulatory cells in the tubulointerstitial compartment
- ATP production and energy bioenergetics in the proximal tubule
- Renal glucose uptake and gluconeogenesis
- Epithelial/Endothelial Myofibroblast Transdifferentiation
- Post translational modification
- Cell trafficking in the proximal tubule
- Taking things outside the body
- Redox imbalance and post-translational modifications
- Renal inflammation
- Lessons learnt from podocytes

**Co-Chairs**

Mark Cooper, Melbourne, Australia  
Josephine Forbes, Brisbane, Australia  
David Harris, Sydney, Australia

For more information  
[www.isnforefronts.org/2012/melbourne](http://www.isnforefronts.org/2012/melbourne)

Early  
registration deadline:  
**June 22, 2012**



# ISN Upcoming Events

**ISN Events connect global medical communities, giving them the knowledge and support to reduce the impact of kidney disease worldwide.**

## **Nexus engages nephrologists and experts in bone-related disciplines**

The bone and the kidney will take center stage during the upcoming ISN Nexus Symposium, taking place in Copenhagen, Denmark from September 20 to 23, 2012. The program aims to repeat the success of the first ever ISN Nexus meeting which took place in Copenhagen and focused on the renal aspects of bone disease. This edition of the meeting will look into cutting-edge physiology, pathophysiology, clinical aspects and treatments relating to bone and mineral metabolism disorders and cardiovascular disease in CKD patients.

It will also provide new insight into FGF23 and Klotho and their role in disturbed mineral metabolism and aging. This is a unique opportunity for renal scientists and clinicians to meet, learn and exchange views on recent advances on these issues. Basic and clinical researchers in orthopedics and rheumatology can also gain valuable insight into this important topic within nephrology.

The ISN Nexus symposium was recently granted 18 European CME credits (ECMEC) by the European Accreditation Council for Continuing Medical Education (EACCME). By linking research to practice, these meetings extend nephrology into interrelated fields of medicine.

So mark the date and register early online at [www.isnnexus.org/2012](http://www.isnnexus.org/2012)



## **ISN Forefronts Symposium - Systems Biology and the Kidney**

June 7-10, 2012, Ann Arbor, Michigan, USA  
[www.isnforefronts.org/2012/annarbor](http://www.isnforefronts.org/2012/annarbor)



## **Nexus Symposium 2012 - Bone and the Kidney**

September 20 -23, 2012, Copenhagen, Denmark  
[www.isnnexus.org/2012](http://www.isnnexus.org/2012)



## **ISN Forefronts Symposium - Tubulointerstitial Disease in Diabetic Nephropathy**

October 4-7, 2012, Melbourne, Australia  
[www.isnforefronts.org/2012/melbourne](http://www.isnforefronts.org/2012/melbourne)



## **ISN World Congress of Nephrology 2013**

May 31-June 4, 2013, Hong Kong, China  
[www.wcn2013.org](http://www.wcn2013.org)



For the full list of ISN events visit [www.theisn.org](http://www.theisn.org)

# ISN WORLD CONGRESS OF NEPHROLOGY 2013

May 31-June 4, 2013  
Hong Kong

Since ISN's first congress in 1960, the biennial World Congress of Nephrology (WCN) has provided vital guidance and support to advancing nephrology around the world. WCN, the International Society of Nephrology's (ISN) flagship scientific and educational congress, is the leading educational event in international nephrology attracting attendance from the worldwide nephrology community, including physicians, academicians, and clinical researchers, as well as other healthcare professionals involved in multidisciplinary nephrology care.

[www.wcn2013.org](http://www.wcn2013.org)



WORLD  
CONGRESS  
OF NEPHROLOGY

**WCN  
2013**

HONG KONG,  
MAY 31 - JUNE 4, 2013

Sustainability  
and  
Diversity



An event by



Advancing Nephrology Around the World

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