



## **2021 American Pediatric Society Election Candidate**

**Position:** President-elect  
**Candidate:** Dr. Lisa Robinson  
**Candidate Institution:** University of Toronto  
**Candidate Subspecialty:** Pediatric Nephrology

## **Lisa A. Robinson, MD, FRCP(C), FASN**

I have served on many scientific, career advancement, and advocacy committees committed to child health. On SPR Council, I served on the Young Investigator Coaching Program Committee, and serve on the Diversity Workgroup. I served on the Research and Career Development Committees of the American Society of Pediatric Nephrology (ASPN) and Scientific Program Committees of ASPN and the International Pediatric Nephrology Association. As a member of the American Society of Nephrology, I served on the Innovation and Discovery Taskforce, the Career Advancement Committee, and now the Health Equity and Justice Committee. In these roles, I helped develop many programs and sessions addressing innovation in research and clinical care, new training pathways and support for clinician-scientists, mentoring emerging leaders, and equity in academic medicine. My basic and translational research program has been continuously funded; it brings together clinical and fundamental scientists and embraces learners of diverse backgrounds.

I am deeply committed to excellence through equity. My science outreach programs have engaged >20,000 high-school students from underserved communities. I created mentorship programs for minoritized medical students and leadership development opportunities for faculty underrepresented in medicine (UIM). As Associate Dean and Vice Dean, I co-created and -direct pathway programs for UIM students. Recently very few, these students are now 15% of the University of Toronto medical class. I co-led the Faculty of Medicine's Academic Strategic Plan, spurring the largest philanthropic gift ever made in Canada.

I would be privileged to serve the APS and aspire to engage its members to create new strategies to attract and support pediatric researchers; to enhance mentorship, sponsorship, and leadership development of pediatric scholars; to address physician wellness, professional fulfilment, and career transitions; and to lead with science in the pursuit of equity and justice.

## **Lisa A. Robinson, MD, FRCP(C), FASN**

### **Education and Postgraduate Training**

1987 - 1991	M.D., University of Toronto, Toronto, Ontario, Canada
1991 – 1992	Intern in Internal Medicine, The Toronto Hospital, Toronto, Ontario
1992 - 1995	Resident in Pediatrics, The Children's Hospital of Western Ontario, London, Ontario
1994 - 1995	Chief Resident in Pediatrics, The Children's Hospital of Western Ontario
1995 - 1999	Pediatric Nephrology Fellowship, Duke University Medical Center
1996 – 1999	Research Fellowship Training, Pediatric Scientist Development Program, Duke University Medical Center

### **Faculty Positions**

1999 - 2002	Assistant Professor of Pediatrics, Duke University Medical Center
2002 - 2005	Scientist-track Investigator, Program in Cell Biology, The Hospital for Sick Children Research Institute, Toronto
2002 - 2008	Assistant Professor, Department of Paediatrics, Faculty of Medicine, University of Toronto
2005 - 2010	Associate Member, Institute of Medical Science, School of Graduate Studies, University of Toronto
2005 - 2013	Scientist, Program in Cell Biology, The Hospital for Sick Children Research Institute, Toronto
2005 - 2015	Canada Research Chair (Tier 2) in Leukocyte Migration in Inflammation and Injury
2008 - 2014	Associate Professor, Department of Paediatrics, Faculty of Medicine, University of Toronto
2010 - 2020	Head, Division of Nephrology, The Hospital for Sick Children, Toronto
2016 - 2018	Chief Diversity Officer, Faculty of Medicine, University of Toronto
2018 - 2020	Associate Dean, Inclusion & Diversity, Faculty of Medicine, University of Toronto

### **Current Position**

2002 -	Staff Nephrologist, The Hospital for Sick Children, Toronto
2010 -	Full Member, Institute of Medical Science, School of Graduate Studies, University of Toronto
2013 -	Senior Scientist, Program in Cell Biology, The Hospital for Sick Children Research Institute
2014 -	Professor, Department of Paediatrics, Faculty of Medicine, University of Toronto
2020 -	Canada Research Chair (Tier 1) in Vascular Inflammation and Kidney Disease
2021 -	Vice Dean, Strategy & Operations, Temerty Faculty of Medicine, University of Toronto

## Selected Society and Committee Memberships

2000 -	American Society of Transplantation
2002 -	Society for Pediatric Research (Council member 2013-2016; Young Investigator Coaching Program Committee member 2013-2016; Diversity Workgroup 2016- )
2002 -	American Society of Pediatric Nephrology (Program Committee member 2017-2019; Research Committee member 2007-2012; Career Development Committee member 2007-2012)
2002 -	Canadian Association of Paediatric Nephrologists (President 2015-2017, Executive 2013-2019)
2004 -	American Society of Nephrology (Career Advancement Committee member 2017-2020; Innovation and Discovery Task Force 2017-2019; Health Equity and Justice Committee 2021- )
2009 -	Founder/Member, Women Leaders in Transplantation, The Transplantation Society (TTS)
2010 -	International Pediatric Nephrology Association (Congress Scientific Committee 2013; Congress Scientific Committee 2022)
2013 -	American Pediatric Society

## Areas of Research Interest

Despite the significant morbidity associated with kidney disease in children, effective therapies to slow progression remain elusive. My research program explores new strategies to prevent inflammation and vascular injury associated with acute kidney injury, and to combat the progressive kidney scarring that follows, particularly in the setting of transplantation. One arm of our research program explores signals that recruit leukocytes in inflammation, and another explores signals that act as natural repellents of leukocytes, preventing kidney injury and scarring. My research team studies how inflammatory signals induce injury versus repair with an approach that combines various techniques, including molecular biology, biochemistry, cell biology, 'omic' analyses, and state-of-the-art microscopy, with rodent and large animal models.

I also co-founded and co-lead a translational research program that explores a novel means of donor kidney preservation, namely, warm or normothermic *ex vivo* kidney perfusion (NEVKP). Using porcine models of kidney transplantation, our team has used NEVKP to successfully repair and transplant donor kidneys subjected to severe ischemic injury, and which otherwise would not function after transplantation. The program's procedures were recently piloted in human patients, and promise to improve the practice of kidney transplantation by expanding the pool of available donor kidneys. Our team is performing detailed analyses of the molecular and cellular mechanisms by which NEVKP improves the health and function of kidney grafts.

In my laboratory, high-school, undergraduate, and graduate students closely interact with post-doctoral fellows, research staff, clinicians, and clinician-scientists. The fundamental and translational aspects of my research provide a unique opportunity for clinical-, fundamental-, and surgeon-scientists to interact and synergize their efforts. My research has been continuously funded by federal granting agencies, including the Canadian Institutes of Health Research, and has resulted in several patents. I have served on numerous national and international grant review panels, and have published my work in top scientific and sub-specialty journals including *Nature Communications*, *Circulation*, *Journal of the American Society of Nephrology*, *American Journal of Transplantation*, and *Cell Reports*. I currently serve on Editorial Boards of two leading kidney journals, namely, *Journal of the American Society of Nephrology* and *the American Journal of Physiology Renal Physiology*.