





Program

Welcome & Keynote Lecture

Thursday

17:00 - 17:10	Welcome by ISN President Adeera Levin, Canada
17:10 - 17:15	Welcome by the ISN Nexus Committee Chair Kumar Sharma, USA
17:15 - 17:20	Welcome by ISN Nexus Symposium Co-Chairs Hans-Joachim Anders, Germany David Jayne, United Kingdom Brad Rovin, USA
17:20 - 18:15	Keynote Lecture 1: Unmet medical needs in nephrology: Different priorities in different regions around the world Adeera Levin, Canada

18:15 - 19:15 Welcome & Networking Reception



Friday

Session 1:	Moderators: Steven Sacks, United Kingdom and Matthias Mack, Germany
Humoral Med	liators
08:30 - 09:25	Keynote Lecture 2: From bench to bedside, the past, present and future of biological drugs Paul Brunetta, USA
09:25 - 09:50	The missed target: Why not blocking TNF in kidney disease? Charles Pusey, United Kingdom
09:50 - 10:05	Oral Presentation from Abstract Submission: A novel mouse model of membranous nephropathy induced with heterologous rabbit anti-THSD7A antibodies Nicola Tomas, Germany
10:05 - 10:30	Novel cytokine targets in renal vasculitis Stephen Holdsworth, Australia
10:30 - 10:55	Resolution of kidney inflammation Jinhua Li, Australia
10:55 - 11:25	Coffee Break & Poster Viewing
10:55 - 11:25 Session 2:	Coffee Break & Poster Viewing Moderators: Chaim Putterman, USA and Hans-Joachim Anders, Germany
	Moderators: Chaim Putterman, USA and Hans-Joachim Anders, Germany
Session 2:	Moderators: Chaim Putterman, USA and Hans-Joachim Anders, Germany
Session 2: Immune Cell	Moderators: Chaim Putterman, USA and Hans-Joachim Anders, Germany Depletion Myeloid cell depletion in kidney disease, how and when?
Session 2: Immune Cell 11:25 - 11:50	Moderators: Chaim Putterman, USA and Hans-Joachim Anders, Germany Depletion Myeloid cell depletion in kidney disease, how and when? Jeremy Hughes, United Kingdom Oral Presentation from Abstract Submission: Ofatumumab for B cell depletion therapy in patients with systemic lupus erythematosus who are intolerant of rituximab





12:55 - 14:25 Networking Lunch (Lunch boxes) & Poster Viewing

Joint ISN / IWG Lunch Symposium

Moderator: Rosanna Coppo, Italy

Influence of Recent Advances on Clinical Practice in Immune-Mediated Renal Disease

13:10 - 13:30	Corticosteroids in IgA nephropathy - lessons from recent studies Rosanna Coppo, Italy
13:30 - 13:50	Lupus nephritis, quo vadis? Hans-Joachim Anders, Germany
13:50 - 14:10	Anti-PR3 and anti-MPO vasculitis: different diseases to be treated in different way? David Jayne, United Kingdom

A lunch box will be available for all delegates in Room Barcelona III (Networking area). Those delegates wishing to attend the Lunch Symposium may take the lunch box in the session room.

Session 3:	Moderators: Brad Rovin, USA and Detlef Schlondorff, USA
Chances and	Problems of Translational Research
14:25 - 14:50	Genomic and post-genomic approaches and target identification Eoin McKinney, United Kingdom
14:50 - 15:05	Oral Presentation from Abstract Submission: Characterizing the immune profile of serial kidney biopsies differentiates treatment responders from non-responders in lupus nephritis Samir Parikh, USA
15:05 - 15:30	Predictive value of animal models in renal inflammation Anne Davidson, USA
15:30 - 15:55	Translating scientific discovery into therapeutic reality for kidney disease Jeremy Duffield, USA
15:55 - 16:25	Coffee Break & Poster Viewing



Session 4:	Moderators: Marlies Reinders, the Netherlands and Jurgen Floege, Germany
Innate Immunity Approaching the Clinic	
16:25 - 16:50	TLR2/OPN-305 trial in delayed graft function Mary Reilly, USA
16:50 - 17:05	Oral Presentation from Abstract Submission: The effect of peptigylarginine deiminase 4 inhibitor on MPO-ANCA production in mouse model <i>Yoshihiro Kusunoki, Japan</i>
17:05 - 17:30	CCR2 as a target in diabetic nephropathy Thomas J. Schall, USA
17:30 - 17:55	MCP-1 Spiegelmers in diabetic nephropathy Dirk Eulber, Germany



Meet the Expert Breakfast

07:30 - 08:25

Session 5:	Moderators: Jurgen Floege, Germany and Charles Pusey, United Kingdom
Target Validation	on in Immune Complex Glomerulonphritis
08:30 - 08:55	Models mimicking the pathophysiology of IgAN Yusuke Suzuki, Japan
08:55 - 09:10	Oral Presentation from Abstract Submission: RORyt+ FoxP3+ biTregs promote lupus nephritis via IL-17 secretion and suppression of Th2 responses <i>Malte Kluger, Germany</i>
09:10 - 09:35	Target validation for ANCA vasculitis Ralf Kettritz, Germany
09:35 - 10:00	Antigen bioassays versus proteinuria as activity markers in glomerulonephitis Rolf Stahl, Germany

14:35 - 15:00

15:00 - 15:25



10:00 - 10:30	Coffee Break & Poster Viewing
Session 6:	Moderators: David Jayne, United Kingdom and Stephen Holdsworth, Australia
Unselective Ir	mmunosuppressants
10:30 - 10:55	Steroids for IgAN: TESTING and STOP IgA Jurgen Floege, Germany
10:55 - 11:10	Oral Presentation from Abstract Submission: Generation, phenotype and function of ex vivo induced human regulatory T cells <i>Alberto Fierro, Chile</i>
11:10 - 11:35	Mycophenolate dosing in different races Tak Mao Chan, Hong Kong (China)
11:35 - 12:00	Leflunomide in autoimmune kidney disease Ming-Hui Zhao, China
12:00 - 13:30	Networking Lunch & Poster Viewing
Cossion 7	
Session 7:	Moderators: Liz Lightstone, United Kingdom and Brad Rovin, USA
Designing Cli	nical Trials in Kidney Disease
13:30 - 13:55	Do's and don'ts in clinical trial design Dick de Zeeuw, the Netherlands
13:55 - 14:20	Trial design in orphan versus common kidney diseases Piero Ruggenenti, Italy
14:20 - 14:35	Oral Presentation from Abstract Submission: Vitamin D receptor activation reduces inflammatory cytokines and plasma microRNAs in moderate chro-

Evidence-based medicine and health care budget priorities

Approving renal medicines: Challenges and solutions, the FDA's view

nic kidney disease – A randomized trial

Ladan Mansouri, Sweden

Larissa Lapteva, USA

Loic Guillevin, France



15:25 - 15:55	Coffee Break & Poster Viewing
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Session 8:	Moderators: Andy Rees, Austria and Ulf Panzer, Germany
Novel Targets	
15:55 - 16:20	Where to inhibit complement: C3 versus C5? Steven Sacks, United Kingdom
16:20 - 16:35	Oral Presentation from Abstract Submission: Intestinal Th17 cells drive renal tissue injury in crescentic glomerulonephritis Christian Krebs, Germany
16:35 - 17:00	From bench to bedside, upcoming targets in renal vasculitis David Jayne, United Kingdom
17:00 - 17:25	Irinotecan, an upcoming treatment option for lupus nephritis? Steffen Frese, Germany

Sunday

Session 9:	Moderators: Paul Brunetta, USA and David Jayne, United Kingdom
Lupus Nephri	tis Trials
08:30 - 09:25	Keynote Lecture 3: What it needs to set up a translational kidney research program Giuseppe Remuzzi, Italy
09:25 - 09:50	How to assess novel drugs for Lupus nephritis in clinical trials Brad Rovin, USA
09:50 - 10:05	Oral Presentation from Abstract Submission: IL-2 therapy reduces renal inflammation and cellular activity of intrarenal CD4+ conventional T cells in lupus prone mice with active lupus nephritis Angelika Rose, Germany
10:05 - 10:30	Mono- versus add-on anti-CD20 therapy in lupus nephritis Liz Lightstone, United Kingdom
10:30 - 10:55	Targeting inflammation rather than autoimmunity in lupus Chaim Putterman, USA





10:55 - 11:25 Coffee Break & Poster Viewing

Session 10: Mesenchymal Stem Cells as Disease Modulators 11:25 - 11:50 MSC for diabetes complications REDDSTAR/NEPHSTROM Hans-Joachim Anders, Germany 11:50 - 12:05 Oral Presentation from Abstract Submission: Human CD362+ mesenchymal stromal cell therapy for diabetic kidney disease in Lepr db/db mice Satish Kumar Devarapu, Germany 12:05 - 12:30 MSC trial in living donor kidney transplantation Ton Rabelink, the Netherlands MSC to prevent allograft rejection and to induce allograft tolerance

Marlies Reinders, the Netherlands

Closing Remarks

12:55 - 13:00

Hans-Joachim Anders, Germany David Jayne, United Kingdom Brad Rovin, USA

Siographies

Speaker Biographies

Hans-Joachim Anders is a professor of medicine at the University of Munich. He attended medical school at the Universities of Goettingen and Wuerzburg and performed his MD thesis in experimental cardiology with Georg Ertl in Wurzburg. He received his clinical training at the University of Munich were he joined the group of Detlef Schlondorff who aroused his enthusiasm for the immunology of the kidney. HJ Anders is a board-certified internist, nephrologist, and rheumatologist with an interest in immune-mediated

kidney diseases. He is currently chair of the Inner City Department of Nephrology at the University of Munich and spends much of his time on teaching experimental and clinical nephrology. Dr. Anders runs a lupus nephritis clinic and supports related clinical trials. His international research group continues to work on the role of innate immunity and how it drives kidney injury and regeneration. Dr. Anders was awarded in the year 2009 with the Franz-Volhard Award by the German Society of Nephrology. He is a member of the international scientific advisory boards of the Dutch Kidney Foundation and the ERA/EDTA.



Dr. Paul Brunetta is an Associate Group Medical Director at Genentech in South San Francisco and works within Global Product Development in Immunology for Roche. Dr. Brunetta's focus over the past 10 years has been the development of novel therapeutics for immunologic disease. He is a member of the PROBE Cluster in Development pursuing improved evaluations of rare diseases.

Dr. Paul Brunetta is a Pulmonologist who received his undergraduate degree at Johns Hopkins University in Biology, and then attended Tufts University School of Medicine before Internal Medicine residency, Medical Chief Residency (San Francisco General Hospital) and Pulmonary and Critical Care fellowship training at the University of California San Francisco. He was on the clinical faculty at UCSF for 4 years before joining Genentech. Most recently, Dr. Brunetta led the team that successfully filed the RAVE results (rituximab in ANCA associated vasculitis) with the FDA and regulatory bodies around the world. This effort was recognized by an Partnerships in Progress Award by the National Organization of Rare Diseases in 2012.He is currently the Global Development Team Leader for rituximab and obinutuzumab immunology and is an adjunct Associate Professor of Pulmonary and Critical Care Medicine at UCSF.



Daniel T M Chan is Chief of Nephrology at University of Hong Kong (HKU). After graduating from HKU in 1985, he received training in Hong Kong and London, UK. He was promoted to Professor in 1999, Chair Professor in 2005, and received the Yu Chiu Kwong Professorship in Medicine in 2012. He is a Fellow of the UK Royal Colleges of Physicians, Hong Kong College of Physicians (HKCP), and Hong Kong Academy of Medicine. He was Associate Dean of Medical Faculty and is currently a Member of HKU Senate.

He has previously served as President of Hong Kong Society of Transplantation, HKCP Nephrology Board Chairman, Chairman of Hong Kong Hospital Authority Coordinating Committee for Internal Medicine, and is currently HKCP Council Member. He was President of Asian Pacific Society of Nephrology (APSN) in 2008-2010, and sits on Executive Committees of APSN and Asian Society of Transplantation. He serves on research grant and healthcare advisory committees of government Bureau and Ministries in Hong Kong and People's Republic of China. He received the APSN Kenzo Oshima Award in 2014 in recognition of his contributions to the development of Nephrology.



His research interests include lupus nephritis and viral hepatitis in patients with kidney diseases, focusing on clinical management and renal parenchymal inflammatory or fibrotic processes. Results from his team, published in N Engl J Med, J Am Soc Nephrol, Kidney Int, Nat Rev Nephrol, Arthritis Rheumatol, J Autoimmun, Gastroenterology, Hepatology, and Am J Transplant, have translated into improved clinical outcome of patients.



Rosanna Coppo MD (Turin University, Italy) spent research periods at Wayne State University, Detroit; Scripps Clinic & Research Foundation, La Jolla; Case Western University, Cleveland; Hopital H.Herriot, Lyon; Hopital Necker, Paris.

She was appointed as head of Nephrology, Dialysis and Transplantation, Regina Margherita Hospital, Turin in 1989-2015.

She was Chief of the ERA-EDTA Offices, Chairperson of the CME programme and President of the Scientific Programme for the 2013 ERA-EDTA Congress. She was Secretary General of ESPN and President of the Italian Society of Nephrology.

Author of 55 chapters in books, 284 publications in PubMed.

She was coordinator of the BioMed2 EU Concerted Action on ACE-inhibitors in young patients with IgA nephropathy (IgAN), involving 11 European Countries. She was in the Steering committee of the International IgAN group developing the new classification of IgAN and she is the coordinator of the European Validation study on the Oxford classification of IgAN (VALIGA), involving 52 Centers from 13 European Countries, enrolling 1147 patients with IgAN.



Anne Davidson, MBBS received her MBBS degree from the University of Melbourne, Australia and is a board-certified rheumatologist. She is currently an Investigator at the Feinstein Institute for Medical Research, New York and Professor of Molecular Medicine at Hofstra North Shore LIJ School of Medicine New York, USA.

Dr Davidson's research is focused on pathogenesis and therapy of SLE. She has worked extensively with mouse models of SLE, using newly discovered

pathways of immune activation to determine the mechanisms of action of novel therapies for SLE. The results of these studies are then used to design mechanistic studies in the context of human SLE clinical trials. One focus of the laboratory is to understand how B-cell tolerance is dysregulated in SLE. A second major area of interest is to understand the mechanisms of inflammation within the SLE kidney, using a combination of systems biology and functional studies. She is a past recipient of the Dubois Award for SLE Research and the ACR Basic Science Distinguished Investigator Award.

Dr Davidson is a standing member of the NIH study section PBKD and co-chairs the grant review committee of the animal models subsection for the Lupus Research Institute. She is also the Program Director of the North Shore LIJ Rheumatology fellowship program.



Dr Dick de Zeeuw earned his MD from the University of Groningen in 1975. His finished his PhD thesis in 1980 on the topic of renal hypertension in the Renal Department of the Groningen University. Trained in clinical and experimental renal research at the Renal Department in Groningen, and trained in Clinical Pharmacology at the University of Dallas (1984-1985). He was Board Certified in 1996 at the University of Groningen. Dr de Zeeuw is currently Professor and Chair of the Research Section of the Department

of Clinical Pharmacy and Pharmacology. He serves (served) on the editorial board of several international journals, including Kidney International, Journal of Hypertension, JRAAS, Current Opinion in Nephrology and Hypertension, Journal of Geriatric Urology and Nephrology, NEPHRON, Clinical Nephrology, Clinical Kidney Journal, European Journal Preventive Cardiology.

He is Director of the Groningen University Institute for Drug Exploration (GUIDE), Council member of International Society of Nephrology (ISN), and member of the Advisory Committee Clinical trials of the ISN.

His research interests include: optimize the current and find new therapy approaches to reduce

the progressive loss of cardiovascular and renal function, both in diabetic and non-diabetic renal disease. The role of albuminuria/proteinuria and microalbuminuria as biomarker for cardiac and renal disease progression has his particular interest, not only trying to establish the independent "causal" role of albumin leakage in renal and cardiovascular disease progression, but also to establish intervention strategies that lower albuminuria/proteinuria with the supposed organ protective results. In his "albuminuria" quest he initiated large cohort studies such as PREVEND (general population) and GIANTT (type 2 diabetes), and was/is involved in the leadership of several clinical trials on preventing diabetic cardiovascular and renal progression such as RENAAL (All receptor antagonist), PLANET (statin), TREAT (EPO), VITAL (vitD), SUN (sulodexide), ALTITUDE (renin-inhibition), CANVAS and CREDENCE (SGLT2-inhibition), RADAR and SONAR (atrasentan), BEACON (bardoxolone).

Unraveling the reasons for individual therapy resistance and creating a response score to evaluate the total effect of drugs are the topics that he judges to be the important focus for the next decades.

He has authored more than 560 international scientific publications and more than 60 book chapters, and received the Lennart Hansson Memorial Lecture Award from the European Society of Hypertension, the International Distinguished Medal from the American National Kidney Foundation, and a special lecture award from the Japanese Society of Nephrology.



I am a Physician Scientist with a background in Developmental Biology (Masters) and Innate Immunity (PhD). I have recently moved my laboratory from University of Washington, Seattle to the Fortune 500 Biotech Company, Biogen, in Cambridge MA, where my Lab is working on injury repair mechanisms in kidney and lung disease and I am jointly heading up the Tissue Injury & Fibrosis Therapeutic Area. I maintain affiliate positions with the University of Washington maintaining a laboratory there and

strong collaborations. We have a special interest in fibrogenic cells, fibrogenic pathways, and the interaction of fibrogenic cells with the microvasculature, and translating this research into novel therapeutics for human disease. We also work on the mechanisms by which monocyte lineage cells, macrophages, promote both injury with fibrosis, and also repair following injury, including study of mechanisms of macrophage activation in inflammation. We are very interested in pericyte endothelial interactions in the kidney and factors that regulate pericyte biology at the interface with capillaries. The lab has strong interest in WNT pathway VEGFR and PDGFR signaling pathways and the crosstalk of these signaling pathways in the pathogenesis of fibrosing disease. My lab has a strong track record in training PhD and Post-Doctoral Scientists, many of whom are now senior Academics and though leaders in the study of chronic diseases. At Biogen I serve on the Post-Doc program committee, overseeing an academic program of 60 post docs. I continue to practice Nephrology part-time at Massachusetts General Hospital.



Dr. Dirk Eulberg, MBA, serves as Vice President for Project Management at NOXXON Pharma in Berlin. Following his diploma in microbiology he made his PhD thesis in molecular evolution of biochemical pathways in Stuttgart, Germany. During his 15 years of professional experience in pharmaceutical R&D, he became acquainted with all relevant aspects of discovery and development of Spiegelmers, i.e. L-RNA-based aptamers. He has been responsible for the development of the CCL2 antagonist emapticap pegol

from lead identification and optimization via pharmacological profiling and formal pre-clinical development into the clinic until Proof-of-Concept in patients.





Professor Jürgen Floege received his clinical training at the Hannover Medical School. His particular interest in renal diseases developed during various research periods in physiology, pharmacology, nephrology and pathology at the Hannover Medical School, Germany, the Albert Einstein College of Medicine, New York and the University of Washington, Seattle, USA. He was appointed as head of the Division of Nephrology and Immunology at the University of Aachen, Germany in 1999.

Professor Floege is a former executive council member of the International Society of Nephrology (ISN) and the European Renal Association (ERA-EDTA). He is a Distinguished Fellow of the ERA-EDTA as well as member of the American Society of Nephrology Glomerular Disease Advisory Board. He is currently the president of the German Society of Nephrology as well as honorary member of the Polish, Portugese, Serbian and Slowakian Society of Nephrology. Together with Professors Richard Johnson and John Feehally he edits the best-selling textbook "Comprehensive Clinical Nephrology". Finally, Professor Floege is co-editor of the ERA-EDTA journal Nephrology Dialysis Transplantation and a member of the editorial board of Journal of the American Society of Nephrology, Kidney International, Nature Reviews Nephrology, Journal of Nephrology and others. Research interests encompass both basic research, i.e. studies on growth factors, cytokines, angiogenesis, stem cells and fibrosis in the course of renal disease, as well as clinical problems in immune-mediated renal disease and renal disease progression as well as in dialysis patients, such as bone and mineral disorders and cardiovascular risk factors.

His scientific work encompasses more than 420 original papers, reviews and editorials, and 40 book chapters.



Born 1971 in Germany. 1991-1995 medical faculty Friedrich-Schiller-University Jena, Germany . 1995-1997 doctoral thesis "Cellular and subcellular distribution of PI-3K γ ", Max-Planck-Society, Jena, Germany. 1997-1999 medical faculty University of Jena. 2000 research fellow Laboratory of Thoracic Surgery, University of Bern, Switzerland. 2001-2004 and 2006-2007 assistant physician Division of Thoracic Surgery, University Hospital Bern, and Bürgerspital Solothurn, Switzerland. 2005-2006 and

2007-20013 staff surgeon Regionalspital Interlaken and Division of Thoracic Surgery, University Hospital Bern, Switzerland. Board certification in general surgery 2007. Since 2013 staff surgeon Evangelische Lungenklinik Berlin-Buch, Germany. 2014 board certification in thoracic surgery. 2001-2014 research group leader Department of Clinical Research, University of Bern, Switzerland. Projects: 1. Sensitization for receptor-mediated apoptosis. 2. Treatment of lupus nephritis using the topoisomerase I inhibitor irinotecan. 2011 Privatdozent in thoracic surgery, University of Bern, Switzerland. 2014 foundation of the non-profit organization LUNIRI (Lupus Nephritis and Irinotecan, www.luniri.com). Since 2015 research associate at German Rheumatism Research Centre.



Professor of Medicine and Therapeutics. Cochin Hospital, University of Paris Descartes, Sorbonne Paris Cité; National Referral Centre for Rare Autoimmune and Systemic diseases, Vasculitis and Scleroderma.

Loïc Guillevin is also the Coordinator and President of the French Vasculitis Study Group. He is member of several national and international scientific society boards and is involved in several groups of interest on systemic and autoimmune diseases. He was president of the French committee for

clinical research and president of the French National Society of Internal Medicine. He chairs the Paris Hospital Committee for evaluation of technological innovations in Medicine. He is presently President of the Transparency Commission of the Haute Autorité de Santé and member of the board.

Loïc Guillevin is Master of the American College of Rheumatology, Fellow of the Royal College of Physicians (UK) and Honorary Fellow of the American College of Physician and Honorary fellow of the European Federation of Internal Medicine. He is corresponding member of the French Académie Nationale de Médecine.

Loïc Guillevin has published 900 scientific and teaching papers and published or participated to several scientific books.





Professor Stephen Holdsworth is a clinician scientist trained primarily in nephrology in Australia then in immunology at Scripps Clinic and Research Institute in San Diego. He has served Monash University as Head of Medicine at Monash Health Medical Centre, inaugural Head of the Southern Clinical School at Monash Health and Associate Dean Research in the Faculty of Medicine. He established the Centre for Inflammatory Diseases in the Monash Faculty of Medicine. At Monash Health Medical Centre he

has been Head of Medicine and Chairman of the Senior Medical Staff. Currently he is Head of the Department of Diagnostic and Clinical Immunology and Allergy, renal consultant in the Department of Nephrology and Director of Research Strategy at Monash Health. He is also Head of the Immunomodulation in Autoimmune Renal Diseases Group in the Monash Centre for Inflammatory Diseases. He has supervised 34 successful PhD candidates (predominately nephrologists). His research interests involve clinical research in vasculitis and autoimmune glomerulonephritis and experimental research into mechanisms of injury and immunoregulation in animal models of these diseases. Current research themes include the development of animal models of vasculitis and their exploitation to better define critical molecular events in the development of anti myeloperoxidase (MPO) autoimmunity and the effector responses of this autoimmunity that induce and perpetuate renal injury. This work has led to the development of a number of strategies to induce therapeutic immunoregulation.



Jeremy Hughes is Professor of Experimental Nephrology at the University of Edinburgh and an honorary consultant nephrologist at the Royal Infirmary, Edinburgh. He graduated in medicine from the Universities of Cambridge and London and focused upon glomerular inflammation for his PhD studies as a MRC Clinical Training Fellow at the Royal Postgraduate Medical School in London. After a University lectureship in Nottingham, he was a Wellcome Trust Advanced Fellow in Professor Richard Johnson's laboratory in Seattle

where he studied various experimental models of renal disease. He became a Wellcome Trust Senior Fellow in Clinical Science at Edinburgh University in 2000. His research interests include macrophage biology, hemeoxygenase-1, acute kidney injury, renal fibrosis, diabetic nephropathy and aging. He is a member of the Editorial Board of Kidney International (2007-10 & 2012-current). He is a member of the Kidney Research UK Research Grants Committee (2011-current) and was appointed Chair of the committee in 2013.



Dr. David RW Jayne is Director of the Vasculitis and Lupus Clinic and Reader in Vasculitis at The University of Cambridge, UK.

Dr. Jayne received his bachelor of surgery degree and medical degree from Cambridge University, Cambridge, England. He received postgraduate training at several London hospitals and Harvard University. He is a fellow of the Royal Colleges of Physicians of London and Edinburgh, and the Academy of Medical Science. He is a certified nephrologist and an Honorary

Consultant Physician at Addenbrooke's Hospital, Cambridge UK.

He is a medical advisor to UK, US, and EU regulatory bodies, patient groups, and professional organizations. He has published more than 250 peer-reviewed journal articles, book chapters, and reviews. He was elected the first President of the European Vasculitis Society in 2011 is a member of the ERA-EDTA immunopathology working group. His research includes investigator-initiated international trials and the introduction of newer therapies in vasculitis and SLE with collaborators in five continents.





Ralph Kettritz is a graduate in medicine of Leipzig University (1984). After residency in Internal Medicine at the Department for Nephrology and Hypertension in Charite Campus Buch (with Professor Rudolph Natusch and Professor Friedrich C. Luft) he spent postdoctoral years from 1994-1996 at the University at North Carolina at Chapel Hill (with Ronald Falk and Charles Jennette). After returning to Berlin he established a vasculitis research laboratory at the Franz-Volhard Clinic (Charite, Campus-Buch)

and completed his training in nephrology. He became board certified in nephrology in 2002. In 2004 he was appointed a C3 professor for nephrology and hypertension at the Charite, Universitätsmedizin Berlin. Since then is heads the vasculitis research group at the Experimental and Clinical Research Center (ECRC), a joint cooperation between the Charité and the Max-Delbrück Center for Molecular Medicine (MDC) and is an attending at the Clinic for Nephrology and Intensive Care Medicine, Charité Campus Virchow.



Dr. Larissa Lapteva is Director of the Division of Therapeutic Performance in the Office of Generic Drugs at the Food and Drug Administration. She is a clinician and board-certified rheumatologist with long-standing experience in clinical research in studies investigating renal disease in systemic lupus erythematosus, Sjogren's syndrome and other rheumatic conditions. Since joining FDA in 2006, Dr. Lapteva has held leadership positions in the Office of New Drugs and the Office of Generic Drugs in the Center for

Drug Evaluation and Research where she provided regulatory and scientific advice for clinical development programs with investigational new drugs and biological products as well as generic drug products in various therapeutic areas. Dr. Lapteva has authored a number of publications in the scientific peer-reviewed literature. She received Medical Doctor degree from Moscow Medical Academy and degree of Master of Health Sciences from Duke University, North Carolina.



Dr Levin is a Professor of Medicine, Head Division of Nephrology at the University of British Columbia, and Consultant nephrologist at Providence Health Care/ St Paul's Hospital, in Vancouver Canada.

She is the Executive Director of the BC Renal Agency, which oversees the care, planning and budgets for Kidney services in the province of British Columbia.

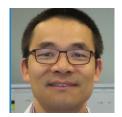
She is active in international activities across the spectrum of kidney activities, and has served as Secretary General of the International Society of Nephrology (ISN), and is now President of ISN.

Her major research areas of interest include non-traditional risk factors for CVD in CKD patients, (with particular focus on anemia, phosphate and vitamin D, and progression of CKD variability) as well as models of care. She has over 300 peer reviewed publications, numerous book chapters, has co-edited a textbook on CKD. She is the inaugural Editor-in-Chief of the new Canadian Journal of Kidney Health & Disease. She is the Principal Investigator on a large cohort study CAN-PREDDICT, and holds numerous peer reviewed grants. She collaborates with investigators across Canada and internationally

She has received numerous teaching and research awards from local and national groups. In 2013, she was awarded the Canadian Society of Nephrology Outstanding Contributions to Canadian Nephrology, and 2014 was awarded the Kidney Foundation Research Medal of Excellence, inducted as a fellow into the Canadian Academy of Health Sciences, and in 2015 was awarded the Aubrey J Tingle Research Award for contributions to the province of BC; and the Order of Canada.







Dr Jinhua Li is a Senior Research Fellow and Head of the Laboratory of Renal Fibrosis Research at the Department of Anatomy and Developmental Biology, Monash University, Australia.

Dr Li received his MBBS in China and PhD at Monash University in Australia in 2006. He was a clinical doctor for over 10 years. He received his postdoctoral training at the Department of Medicine/Division of Nephrology, Baylor College of Medicine, Houston, USA from 2001 to 2003.

Diabetic nephropathy is becoming an increasingly important cause of morbidity and mortality worldwide owing to the increasing prevalence of type 2 diabetes. Dr Li's study focuses on the role of TGF-β/Smad signalling in the pathogenesis of diabetic nephropathy and kidney regeneration. Inflammation and fibrosis are two determinants driving the development and progression of diabetic kidney disease. TGF-β/Smad signalling modulates both inflammation and fibrosis. He uses genetic means and lead compounds to block the over activation of TGF-β/Smad signalling in vitro and in vivo. Recently he identified the pivotal role of Smad3/Smad4/CDK9 complex formation in the development and progression of renal fibrosis and the co-administration of Smad3 inhibitor and CDK9 inhibitor achieved better reduction in renal fibrosis compared with administration of single inhibitor in mouse models of organ fibrosis and inflammation. He published more than 30 publications with more than 2500 citations. His publications include Diabetes, J Am Soc Nephrol, FASEB J, Kidney Int., J Pathol, Am J Pathol, Stem Cells, J Biol Chem., etc.



Liz Lightstone is Professor of Renal Medicine in the Division of Immunology and Inflammation, Department of Medicine, Imperial College London, and an Honorary Consultant Renal Physician in the Imperial College Healthcare NHS Trust Renal and Transplant Centre. She trained in nephrology at the Hammersmith Hospital & undertook a PhD in Immunology at University College London, funded by a Medical Research Council (MRC) Training Fellowship; following 4 years as an MRC Clinician Scientist Fellow at the

Royal Postgraduate Medical School she was appointed Senior Lecturer in 1995.

Prof Lightstone's research focuses on Lupus Nephritis as well as Pregnancy in Women with Kidney Disease. She is Chief Investigator on the international multicentre randomised RITUXILUP trial funded by Arthritis Research UK. She is an author on the 2012 Eular Guidelines on the Management of Lupus Nephritis and on the EU Executive committee of the Lupus Nephritis Trials Network. She is a member of the recently awarded MRC MASTERPLANS Consortium which aims to define stratified approaches to treatment of patients with lupus. She was the inaugural National Coordinator of the Pregnancy and Chronic Kidney Disease Rare Disease group (2012-2014), is joint editor of the upcoming Consensus Guidelines on Managing Renal Disease in Pregnancy and pioneered the use of tacrolimus in the treatment of lupus nephritis in pregnancy. Her main clinical interests are in lupus nephritis – she jointly manages a combined renal / rheumatology lupus clinic following ~400 patients - and the management of women with kidney disease in pregnancy – she established and runs a Renal Obstetric clinic and a preconception counselling clinic for women with kidney disease.



Matthias Mack has completed Medical School at the University of Munich, Germany in 1996. He has specialized in Internal Medicine and Nephrology and is currently Professor for Medicine at the University Hospital Regensburg. His research focus is translational research in the fields of nephrology and immunology. He has developed the first bispecific single-chain antibodies (known as BiTEs) for efficient depletion of target cells. Key aspects of his current research are the interaction of basophils and B cells, novel pathways

of B cell inhibition, the role of monocytes subsets in inflammation and the cellular origin of renal fibrosis.





Eoin studied clinical medicine in Keble College, Oxford University and then Edinburgh University before obtaining his PhD from Pembroke College, Cambridge University in 2011. After his PhD he has continued to work in the Cambridge Institute for Medical Research as a Wellcome-Beit Research Fellow in with Professors Ken Smith and David Jayne in a programme of translational research in autoimmune disease in addition to working as a nephrologist in Addenbrooke's Hospital, Cambridge. His research uses

a 'systems immunology' analysis of immune cell transcriptomes isolated from patients with a broad range of autoimmune, inflammatory and infectious diseases. A major focus of this work to date has been the identification of pathways driving and marking severe, relapsing autoimmune disease with a view to developing both predictive biomarkers and novel therapeutic targets. With a recent focus on T cell differentiation states, including T cell exhaustion, he has explored parallel ways in which the immune response deals with persistent infection and persisting self-antigen using a combination of transcriptomic data from untreated autoimmune patients and cellular models of primary human T-cell differentiation.



Ulf Panzer is a nephrologist at the III. Medizinische Klinik of the University Medical Center in Hamburg, Germany. Since 2009 he has been Professor at the University of Hamburg and is currently the deputy leader of the Collaborative Research Center 1192 "Immune-Mediated Glomerular Diseases" in Hamburg. The focus of his research group has been the function of chemokines and chemokine receptors in T cell trafficking in renal autoimmune disease, with a special focus on crescentic glomerulonephritis.

More recently he focused on the role of CD4+ $\,$ T cell subsets, including TH17 cells , with particular interest in developing new therapies for autoimmune kidney diseases



Charles D Pusey DSc FRCP FRCPath FMedSci FRSB is Professor of Medicine and Head of the Renal and Vascular Inflammation Section in the Department of Medicine at Imperial College London, and Honorary Consultant Physician in the Directorate of Renal Medicine and Transplantation at Imperial College Healthcare NHS Trust. He qualified in Medicine from Cambridge University and Guy's Hospital, London, and trained in Renal Medicine in the Royal Air Force and at the Royal Postgraduate Medical School, Hammersmith

Hospital. His research is focused on autoimmunity and inflammation in renal disease, including the mechanisms underlying primary and secondary glomerulonephritis, and he has a particular clinical interest in systemic vasculitis.





Dr. Putterman is Professor of Medicine and Microbiology & Immunology, and Chief of the Division of Rheumatology at the Albert Einstein College of Medicine and Montefiore Medical Center (Bronx, New York). Dr. Putterman's major research interests are in the field of immunology and autoimmune diseases, and specifically the identification and characterization of novel mechanisms, biomarkers, and treatment approaches to immune mediated nephritis and and systemic lupus erythematosus. Dr. Putterman's laboratory

has received funding from the National Institute of Health, Alliance for Lupus Research, Lupus Research Institute, Arthritis Foundation, and Biogen Idec, and he has published more than 180 articles and book chapters in the medical and scientific literature. He was elected to the American Society of Clinical Investigation, and is a member of the American College of Rheumatology and the American Association of Immunologists. Dr. Putterman has served on multiple NIH and international study sections, and is currently a member of several editorial boards.



Ton J Rabelink, MD, PhD, is professor of Medicine at the Leiden University Medical Center. He received his MD PhD agree from Utrecht University. After completing his residency and fellowships in internal medicine and nephrology he joined faculty of Utrecht Medical School in 1993. He subsequently became chairman of medicine in the University Hospital Utrecht from 1999 to 2004. In 2004 he moved to Leiden University Medical Center and became head of the department of Nephrology and Transplantation and in 2010

chairman of medicine again. His main research interest has been in the area of vascular biology and its implications for renal function and development of cardiovascular disease in patients with renal disease and in regenerative medicine.



A biologist by education, Andreas Radbruch did his PhD at the Genetics institute, Cologne University. In 1996, Andreas Radbruch became Director of the German Rheumatism Research Centre Berlin, a Leibniz institute, and in 1998, Professor of Rheumatology at the Charité Medical School of the Humboldt University of Berlin.

Andreas Radbruch has been President of the German Society for Rheumatology, the German Society for Immunology and is President of the

International Society for Advancement of Cytometry (ISAC). He is editorial chair of the European Journal of Immunology. He was awarded the Carol Nachman Prize and an advanced research grant of the European Research Council and elected a Fellow of the American Institute for Medical and Biological Engineering (AIMBE). He is recipient of the Avery Landsteiner Award. In 2015, he became Spokesman of Section C of the Leibniz Association.

Andreas Radbruch has (co-)authored over 250 original publications on immunological memory, antibody class switching, T and B lymphocyte differentiation, cytometry and cell sorting. His research group described the organization of memory plasma cells and memory T helper lymphocytes in bone marrow, and identified memory plasma cells secreting pathogenic antibodies as novel target in chronic immune-mediated diseases. He demonstrated that antibody class switch recombination in activated B lymphocytes is targeted to distinct switch regions by transcription. He advanced our understanding of Th1 and Th2 cytokine memory, its imprinting and plasticity. He has identified critical molecular adaptations of Th effector memory cells to chronic inflammation and developed the MACS technology and the cytometric secretion assay.





Mary Reilly joined the Opsona management team in March 2005 to head up the pharmaceutical development of its pre-clinical candidates.

Her role is to direct the development of lead compounds from discovery through pharmaceutical development including chemistry, manufacturing and controls (CMC) and their progression through the clinic.

She has extensive experience in drug development from late-stage discovery to registration and approval of products at all stages of the development

cycle within Europe and the USA.

Before joining Opsona she worked for 15 years with Elan Pharmaceuticals where she was Associate Director and Project Leader for development projects. She also has experience in parenteral sterile drug development, manufacture and registration.

Mary Reilly currently oversees the Pharmaceutical and Clinical Development on OPN-305 and is also responsible for Operations. She has QP qualifications in line with EU clinical directive 2001/20/EC.



Dr Marlies Reinders is a Nephrologist and has long experience working on alloimmunity and renal transplantation. She performed research focused on leukocyte-endothelial cell biology in transplantation at the Transplant Immunology Laboratory, Children's Hospital, Harvard Medical School, Boston. Dr Reinders is member of STELLAR, an EU financed research consortium interested in developing an alternative to renal replacement therapy using stem cell based therapy for kidney repair. In addition, she is

principal investigator of 2 clinical trials of MSC treatment in transplant recipients. Besides the clinical research, Dr. Reinders is involved in the organization of the new curriculum of the Faculty of Medicine of the University of Leiden and in the integration of novel forms of education in transplant medicine for (under)graduate students and professionals. She is lead educator of the MOOC 'clinical kidney transplantation' on Coursera.



Director of the Department of Medicine of the Ospedali Riuniti di Bergamo (Papa Giovanni XXIII Hospital), Italy and Director of the Division of Nephrology and Dialysis of the same hospital. "Chiara Fama" Professor of Nephrology, University of Milan. He also directs the Negri Bergamo Laboratories of the "Mario Negri" Institute for Pharmacological Research, a group of basic scientists and clinicians devoted to the study of human renal diseases and their corresponding animal models from the perspective of pathophysiology

and therapeutic intervention. He touched major advances in many areas of nephrology. Work focused on improving the outlook for patients with end stage renal disease. Giuseppe Remuzzi pays tribute to the work of pioneers such as Barry Brenner, who delved deep into the processes behind glomerular function and their possible reversibility. Studies on immunologic mechanisms that influence the survival of transplanted organs, understanding of immunologic tolerance in the disorders that are linked to autoimmunity and finally, genetic diseases of the kidney have also been areas of investigation. Actually he is investigating the kidney's ability to regenerate itself. He authored and co-authored more than 1274 scientific articles, reviews and monographs and serves on editorial boards of numerous journals, he is member of the International Advisory Board of The Lancet and was Editorial Board member of the New England Journal of Medicine from 1995-2013. From June 2013 till March 2015, he was President of the International Society of Nephrology (ISN) and creator of the ISN global initiative called "0 by 25": Nobody should die of preventable and treatable Acute Kidney Injury (AKSI9 by 2025".





Dr. Rovin is the Lee A. Hebert Distinguished Professor of Medicine and Pathology at the Ohio State University College of Medicine. He is the Director of the Division of Nephrology and is the Vice Chairman of Medicine for Research. Dr. Rovin was the Program Director for the Nephrology Fellowship at Ohio State University for several years, and now directs an advanced fellowship in Glomerular Diseases. Dr. Rovin has been at the Ohio State University for 24 years and has been recognized by Best Doctors® for

his work in the area of glomerular diseases. Dr. Rovin received his Bachelor of Science in chemical engineering at Northwestern University followed by his Doctor of Medicine from the University Of Illinois College Of Medicine in Chicago. He completed a residency in Internal Medicine at Barnes Hospital in St. Louis and a fellowship in Nephrology at Washington University.



Dr. Piero Ruggenenti was born in Milan, Italy in 1958. He holds a MD from the University of Milan in 1983, he received specialty training in Cardiology and Nephrology (Cum Laude) at the University of Milan and in Pharmacological Research at the 'Mario Negri' Institute for Pharmacological Research in Bergamo. He completed his internship, clinical and research training at the Negri Bergamo Laboratories of 'Mario Negri' Institute, and at the Azienda Ospedaliera Ospedali Riuniti di Bergamo.

Dr. Piero Ruggenenti is an Assistant-Professor in the Division of Nephrology and Dialysis of the Azienda Ospedaliera Papa Giovanni XXIII, Bergamo, Italy and is Head of the Department of Renal Medicine at the Clinical Research Center for Rare Diseases "Aldo e Cele Daccò" of the Mario Negri Institute for Pharmacological Research in Bergamo.

Since 1984 he has been member of Organizing Secretariat of the International Registry of HUS. He is member of the Editorial Board of "Journal of Nephrology" and "Current Diabetes Reviews". Dr. Ruggenenti has authored or co-authored of more than 320 scientific articles, reviews and monographs, especially in the field of renal disease progression, renal vascular biology in uremia, the role of protein trafficking in renal disease progression and the understanding of the pathophysiology of hemolytic uremic syndrome.



Steven Sacks is Director of the MRC Centre for Transplantation, Head of the Division of Transplantation Immunology and Mucosal Biology at King's College London and NIHR Senior Investigator. His research focuses on how inflammation (complement) affects the results of transplantation of solid organs, tissues and cells. Steven set up Complement UK to facilitate research translation and training in degenerative and other diseases. He has a longstanding interest in ethical regulation of research and

has particular expertise of first-in-man studies. He has served policy on the advancement of health research through work with the Medical Research Council and Arthritis Research UK, and as a fellow of the Academy of Medical Sciences. He is a Fellow of King's College London.





Not available at time of print



Dr. Detlef Schlöndorff is visiting professor of medicine at the Icahn School of Medicine at Mount Sinai School since 2007 and professor emeritus of the Ludwig Maximilians University Munich Germany.

He serves as Editor in Chief of Kidney International since 2012.

From 1993 to 2007, he was Chair and Professor of Medicine and Director of the Medical Policlinic Hospital of the Ludwig Maximilians University, Munich. From 1976-1993 he was a member of the faculty of the Albert Einstein

College of Medicine in New York and Professor of Medicine and Chief of the Nephrology Division from 1988 to 1993.

Dr. Schlöndorff obtained his MD at the Ludwig Maximilians University in Munich in 1968 and trained in internal medicine and nephrology in Munich (1968-69) and New York (1970-1975).

Dr. Schlöndorff is an elected member of the American Society for Clinical Investigation, the Association of American Physicians, the German Academy of Science Leopoldina of 1652, and the French Academie Nationale de Medicine. He is a recipient of the Franz Volhard Medal by the German Nephrology Society and of the International Prize Luis Hernando by the Spanish Renal Foundation.

Dr. Schlöndorff major areas of research include the function of eicosanoids, cytokines and chemokines and their interactions with the innate immune system in the generation and progression of renal diseases. He has published over 300 articles and chapters and edited two books on kidney disease.



Dr. Sharma's research efforts have focused on the pathogenesis of diabetic kidney disease (DN). His laboratory helped define the central role of the cytokine Transforming Growth Factor-b (TGF-b) in DN using cell culture and animal models and has translated these findings to the human condition. These studies contributed to the development of the highly innovative antifibrotic approaches that are currently being tested in clinical research trial. Recently, Dr. Sharma has focused his attention on the contribution of the

kidney to cardiovascular disease in diabetes and obesity using metabolomics and systems biology approaches. His group was the first to describe the role of adiponectin on podocyte function. His group has also identified that reduced mitochondrial function is a major contributor in diabetic complications and that stimulation of energy sensing pathways are beneficial in diabetic and obesity-related kidney disease. The goal of his research efforts is to develop new diagnostic and therapeutic approaches for personalized medicine in diabetes complications and chronic kidney disease. He has been continuously funded with grants from the NIH and private foundations. He serves as the Chair of the ISN Nexus Core Committee.

Dr. Sharma has maintained a strong clinical practice with a focus on patients with type 1 and type 2 diabetes and kidney disease. He has conducted NIH-funded and industry supported investigator-initiated clinical trials. He has a major interest in the development of clinical biomarkers of kidney disease progression.





Dr. Rolf AK Stahl, M.D. is a Professor of Medicine at the University of Hamburg, currently holding the position of the Head of the III. Medical Clinic. He received his post graduate education at the Universities of Tübingen and Freiburg im Breisgau, in Germany at the SUNY of Buffalo, USA and at the UW Seattle, USA. In 1987 Dr. Stahl became an Associate Professor of Medicine at the University of Frankfurt, Germany and in1993 full Professor of Medicine and Head of the Division of Nephrology at the University of

of Medicine and Head of the Division of Nephrology at the University of Hamburg, Germany. Dr. Stahl was Chairman of the Department of Medicine and was Dean of the Medical Faculty.

Dr. Stahl's scientific work initially focused on the role of arachidonic acid metabolites in the regulation of salt and water excretion with a particular interest on the renin angiotensin system and the effects on hypertension. His interest then became more directed towards the role which eicosanoids play in the pathogenesis of inflammatory renal diseases, specifically the role in glomerulonephritis. Dr. Stahl studied the interaction of eicosanoids and chemokines and was among the first to define their roles in the onset and progression of immune mediated glomerular diseases. In the past decade he focused on the role which chemokines may have in human ANCA associated glomerulonephritis and the pathogenesis of membranous nephropathy. Dr. Stahl has recently contributed a body of clinical and experimental data on the pathogenesis of these diseases and discovered together with other researchers a new antigen in patients with membranous nephropathy.



Professor Yusuke Suzuki is currently Associate Professor of Division of Nephrology, Department of Internal Medicine in Juntendo University Faculty of Medicine, Tokyo, Japan. His academic positions include Councilor and Secretary of Japanese Society of Nephrology (JSN), Secretary of 56th JSN Annual Meeting, Secretary-General of Asian Pacific Congress of Nephrology 2014 (APCN2014), Liaison officer in ISN sister renal center (SRC) program for JSN/Vietnam, Allotment Researcher of Special Research Group of IgA

Nephropathy in Progressive Renal Diseases Research on Intractable Disease from the Ministry of Health, Labour and Welfare of Japan, Chief Researcher of Clinical Research of Secondary Screening of Hematuria by Novel Noninvasive Biomarker for IgA nephropathy, Research on Intractable Disease, from the Ministry of Health, Labour and Welfare of Japan, Allotment Researcher of IgA nephropathy project in Strategic Japanese-Swiss Cooperative Program by Japan Science and Technology Agency (JST) and Eidgenössische Technische Hochschule Zürich (ETHZ), Chief Researcher of "Clinical Trial with novel pathogenic biomarkers for preventing the progression of IgA nephropathy to ESKD", Research on Intractable Disease from Japan Agency for Medical Research and Development (AMED).

His research mainly focused on clarifying the pathogenesis of IgA nephropathy using animal models and translational approaches, and role of RAS in inflammatory renal diseases, and brain-renal interaction. So far, his study was supported by 45 scientific research grants. He has 125 publications, among which 110 papers were indexed by SCI, including Kidney Int, JASN, J Clin Invest etc. He has also won 4 awards, and his group won 18 awards from Special IgA nephropathy group in Japan in 11 consecutive years.



Dr Zhao is Chairman of ISN North & East Asia Regional Board; Vice President of Chinese Society of Internal Medicine and Vice President of Chinese Society of Nephrology.

Dr Zhao had his medical training in Beijing Medical University in the 1980s and PhD training in Department of Medicine, University Cambridge, UK in the 1990s. His major research interest focuses on CKD prevention and autoimmune renal diseases.

He is currently supported by a major grant from National Natural Science Foundation of China for Innovative Research Group (81021004). Dr. Zhao has over 200 manuscripts published in peer-reviewed English journals.