BENELUX KIDNEY MEETING 2015

NEDERLANDSE FEDERATIE VOOR NEFROLOGIE & BELGISCHE VERENIGING VOOR NEFROLOGIE, SOCIÉTÉ BELGE DE NÉPHROLOGIE

DUTCH & BELGIAN SOCIETIES FOR NEPHROLOGY

Date
Friday, October 9th, 2015

Venue
Evoluon, Eindhoven

Address
Noord Brabantlaan 1A
5652 LA Eindhoven
The Netherlands

Detailed Directions & Public Transportation
Please visit: http://www.evoluon.com/en/contact/address-route

Contact
Dr. T. Nijenhuis (Tom.Nijenhuis@Radboudumc.nl) and dr. J. van der Vlag (Johan.vanderVlag@Radboudumc.nl); T +31 (0)24 3614761

Program – Benelux Kidney Meeting 2015
## Program at a glance

### Welcome

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.00-10.30</td>
<td>Welcome with coffee and tea</td>
</tr>
</tbody>
</table>

### Morning Session & Poster Highlights

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.30-11.00</td>
<td>Senior invited lecture: HOW SUPER IS SUPAR?</td>
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<tr>
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<td>Prof. dr. B. Meijers</td>
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<td></td>
<td>Division of Nephrology, University Hospital Leuven, Belgium</td>
</tr>
<tr>
<td>11.00-12.40</td>
<td>Oral abstract presentations</td>
</tr>
<tr>
<td>12.24-12.42</td>
<td>Short (3-minute) plenary oral presentations of selected posters</td>
</tr>
</tbody>
</table>

### Break & Poster Discussion

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.45-13.30</td>
<td>Lunch and time for discussion</td>
</tr>
<tr>
<td>13.30-14.30</td>
<td>Moderated parallel poster sessions A through G</td>
</tr>
</tbody>
</table>

### Afternoon Session & Awards

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.30-15.54</td>
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</tr>
<tr>
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</tr>
<tr>
<td>16.30-16.45</td>
<td>News from PLAN (Platform AIO’s Nefrologie)</td>
</tr>
<tr>
<td>16.45-16.55</td>
<td>Prizes for best oral presentations and posters will be awarded</td>
</tr>
<tr>
<td>16.55-17.30</td>
<td>Drinks</td>
</tr>
</tbody>
</table>

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**Friday October 9th, 2015**

**Evoluon**

**Noord Brabantlaan 1A**

**5652 LA Eindhoven**
Full Program

Welcome
10.00-10.30  Welcome with coffee and tea

Morning session
Chair: Prof. dr. R.T. Gansevoort

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| 10.30-11.00  | Senior invited lecture: HOW SUPER IS SUPAR?  
                  Prof dr. B. Meijers  
                  Division of Nephrology, University Hospital Leuven, Belgium |
| 11.00-11.12  | O1. THE CALCIUM-DEPENDENT PROTEINASE CALPAIN-1 LINKS TRPC6 ACTIVITY TO  
                   PODOCYTE INJURY  
                   Ramon Sonneveld, Johan van der Vlag, Tom Nijenhuis  
                   Department of Nephrology, Radboud university medical center, Nijmegen, The Netherlands |
| 11.12-11.24  | O2. MICROBIOTA DERIVED PHENYLACETYLGLUTAMINE ASSOCIATES WITH  
                   SURVIVAL AND CARDIOVASCULAR DISEASE IN PATIENTS WITH CKD  
                   Ruben Poesen, Pieter Evenepoel, Björn Meijers  
                   Division of Nephrology, University Hospitals Leuven, Belgium |
| 11.24-11.36  | O3. A BLUNTED RESPONSE TO THIAZIDE DIURETICS IS NOT SPECIFIC FOR  
                   PATIENTS WITH GITELMAN SYNDROME  
                   Anneke P. Bech, Jack F.M. Wetzels, Ernie M.H.F. Bongers, Tom Nijenhuis  
                   Department of Nephrology and  
                   Department of Human Genetics, Radboud university medical center, Nijmegen, The Netherlands |
| 11.36-11.48  | O4. HAEMODYNAMIC RESPONSE TO OXYGEN SUPPLEMENTATION IN CKD:  
                   EVIDENCE AGAINST THE EXISTENCE OF A KIDNEY HYPOXIA INDUCED PRESSOR  
                   EFFECT IN CHRONIC KIDNEY DISEASE  
                   R. van der Bel, M. Caliskan, R.A. van der Hulst, J.J. van Lieshout, E.S.G. Stroes, C.T.P. Krediet  
                   Departments of Internal Medicine, Hyperbaric Medicine, Academic Medical Center at the University of Amsterdam, The Netherlands |
| 11.48-12.00  | O5. CALCINEURIN INHIBITOR TACROLIMUS IMPAIRS HOST IMMUNE RESPONSE  
                   AGAINST URINARY TRACT INFECTION BY AFFECTING TLR4 NEGATIVE REGULATORS  
                   Diba Emal, Alessandra Tammaro, Marcel P. Jansen, Gwendoline J. Teske, Nike Claessen, Jaklien C. Leemans, Sandrine Florquin and Mark C. Dessing  
                   Department of Pathology, Academic Medical Center, University of Amsterdam, Amsterdam, The Netherlands,  
                   Department of Pathology, Radboud University Nijmegen Medical Center, Nijmegen, Netherlands |
06. OUTCOMES OF RENAL TRANSPLANTATION FROM DECEASED DONORS FOR RECIPIENTS OVER THE AGE OF 75 COMPARED WITH RECIPIENTS BETWEEN 65 AND 74 OF AGE – A DUTCH COHORT STUDY
Hessel Peters-Sengers1, Jaap J. Homan van der Heide1, Martin B.A. Heemskerk2, Ineke R.J. ten Berge1, Mirza M. Idz1, Michiel G.H. Betjes4, Arjan D. van Zuilen5, Maarten H. Christiaans6, Luuk B. Hilbrands1, Aiko P.J. de Vries6, Azam S. Nurmohamed9, Stefan P. Berger10, Frederike J. Beemelman1
Department of Nephrology, The Netherlands, 1Academic Medical Center, 4Erasmus University Medical Center Rotterdam, 5University Medical Center Utrecht, 6Leiden University Medical Center, 7Radboud University Medical Center, 8Leiden University Medical Center, 9VU Medical Center, 10University Medical Center Groningen. 2Organ Centre, Dutch Transplant Foundation, Leiden. 3Department of Surgery, Academic Medical Center, The Netherlands

07. THE EPIGENETIC SIGNATURE OF OLDER DONOR KIDNEYS
Line Heylen1,2,3,4, Maarten Naesens1,2, Matthieu Moisse3,4, Ina Jochmans2,5, Diethard Monbaliu2,3, Jacques Pirenne2,5, Bernard Thiennepont3,4, Dirk Kuypers1,2, Diether Lambrechts3,4 & Ben Sprangers1,2
1Department of Nephrology and Renal Transplantation, University Hospitals Leuven, Leuven, Belgium. 2Department of Immunology and Microbiology, KU Leuven, Leuven, Belgium. 3Laboratory of Translational Genetics, Department of Oncology, KU Leuven, Leuven, Belgium. 4Vesalius Research Center, VIB, Leuven, Belgium, 5Department of Abdominal Transplant Surgery, University Hospitals Leuven, Leuven, Belgium

Poster Highlights (plenary session)
Chair: Prof. dr. R.T. Gansevoort

P1. PROGRESSIVE DECLINE IN TACROLIMUS CLEARANCE AFTER RENAL TRANSPLANTATION IS PARTIALLY EXPLAINED BY DECREASING CYP3A4 ACTIVITY AND INCREASING HEMATOCRIT
Hylke de Jonge1, Thomas Vanhove1, Henriette de Loor2, Kristin Verbeke3, Dirk R J Kuypers1
Departments of 1Nephrology and Renal Transplantation and 3Translational Research Center for Gastrointestinal Disorders (TARGID), University Hospitals Leuven, Leuven, Belgium, 2Laboratory of Nephrology, Department of Microbiology and Immunology, University of Leuven, Leuven, Belgium

P2. HISTOLOGICAL SCORING SYSTEM PREDICTS RENAL OUTCOME OF POSTTRANSPLANTATION ACUTE TUBULAR NECROSIS
* Contributed equally
Department of Nephrology and Pathology, University Medical Center Utrecht, The Netherlands

P3. RENAL CONCENTRATING CAPACITY AND COPEPTIN CONCENTRATION IN PATIENTS WITH ADPKD AND IgAN NEPHROPATHY WITH IMPAIRED RENAL FUNCTION
Debbie Zittema*, Niek F. Casteleijn*, Stephan J.L. Bakker, Casper F.M. Franssen, Carlo A.J.M. Gaillard and Ron T. Gansevoort * Authors contributed equally
Department of Nephrology, University Medical Center Groningen, The Netherlands

P4. ROLE OF SKIN AND ENDOTHELIAL SURFACE LAYER HEPARAN SULFATES IN BLOOD PRESSURE REGULATION
R.H.G. Olde Engberink1, J. de Vos2, A. van Weert2, N. van Vlies3, B.J.H. van den Born*, E. van Bavel1, L. Vogt1
Department of Nephrology1, Biomedical Engineering and Physics2, Laboratory of Genetic Metabolic Disease3, Vascular Medicine2, AMC Amsterdam, The Netherlands
12.36-12.39  P5. METFORMIN TREATMENT PROTECTS AGAINST RENAL FAILURE DEVELOPMENT AND PRESERVES NORMAL PHOSPHORUS AND CALCIUM BALANCE
E. Neven1, K. Brand2, B. Vervaet1, G. Behets1, A. Verhuijst1, M.E. De Broe1 and P.C. D’Haese1
1Laboratory of Pathophysiology, University of Antwerp, Wilrijk, Belgium. 2Merck KGaA, Darmstadt, Germany

WPC Pulsens1, J Bublitz1, LA Joosten2, S Florquin3,4, CA Dinarello2,5, LB Hilbrands1, J van der Vlag1
1Dept. of Nephrology, 2Dept. of General Internal Medicine and 3Dept of Pathology, Radboud University Medical Center, Nijmegen, The Netherlands; 4Dept. of Pathology, Academic Medical Center, Amsterdam, The Netherlands; 5Dept. of Medicine, University of Colorado, Denver, Aurora, CO USA

Break
12.45-13.30  Lunch and time for discussion

Poster Discussion (parallel sessions)
13.30-14.30  Poster sessions A through G (maximal 7 minutes per poster)
(See page 7 - 15 of the program for details)

Afternoon Session
Chair: Prof. dr. D. Kuypers

14.30-14.42  O8. MITOCHONDRIAL FEEDBACK IS A KEY FEATURE OF KIDNEY GRAFT SENESCENCE
Katrien De Vusser1, Kevin Hochstenbach2, Ellen Winckelmans3, Evelyne Lerut1, Dirk Kuypers1, Tim Nawrot1, Maarten Naesens1
UZ Leuven1, U Hasselt2, U Hasselt3

14.42-14.54  O9. THIAZIDE DIURETICS FOR HYPERTENSION IN KIDNEY TRANSPLANT RECIPIENTS USING TACROLIMUS
Arthur David Moes1,*, Dennis Alexander Hesselink1, Anton H. Van den meiracker1, Robert Zietse1 and Ewout J. Hoorn1
1Internal Medicine, Erasmus Medical Center, Rotterdam, The Netherlands

14.54-15.06  O10. EFFECTS OF DIETARY SODIUM RESTRICTION IN RENAL TRANSPLANT RECIPIENTS ON RAAS BLOCKADE: A RANDOMIZED CLINICAL TRIAL
Laura V. de Vries3, Linn C. Dobrowolski2, Jacqueline J.O.N. van den Bosch1, C.T. Paul Krediet2, Frederike J. Bemelman3, Stephan J.L. Bakker4, Gerjan Navis1
1Department of Nephrology, University Medical Center Groningen, The Netherlands. 2Renal Transplant Unit, Academic Medical Center Amsterdam, The Netherlands

15.06-15.18  O11. URINE OF PREMATURE NEONATES AS SOURCE OF NEPHRON PROGENITOR CELLS
Fanny Oliveira Arcolino1, Silvia Zia1, Katharina Held1, Elii Papadimitriou5, Benedetta Bussolati1, Anke Raaijmakers1,2, Karel Allegaert1,3, Jan Deprest1,2, Joris Vriens1, Jaan Toelen1,2, Lambertus van den Heuvel1,2, Elena Levchenko1,2
1Department of Development and Regeneration, Organ System Cluster, Group of Biomedical Sciences, KU Leuven, Belgium, 2Department of Pediatrics, University Hospitals Leuven, Belgium, 3Neonatal Intensive Care Unit, University Hospitals Leuven, Belgium, 4Department of Molecular Biotechnology and Health Sciences, University of Turin, Turin, Italy, 5Radboud UMC, Department of Pediatric Nephrology, Nijmegen, The Netherlands
15.18-15.30  O12. NEUTROPHIL EXTRACELLULAR TRAPS CONVERT ENDOTHELIAL CELLS TO A MESENCHYMAL PHENOTYPE IN SYSTEMIC LUPUS ERYTHEMATOSUS
Elmar Pieterse¹, Nils Rother¹, Marjolein Garsen¹, Olivier van der Heijden², Jo Berden¹, Julia Hofstra¹, Luuk Hilbrands¹ and Johan van der Vlag¹
¹Nephrology Research Laboratory, Department of Nephrology, ²Department of Obstetrics & Gynecology, Radboud University Medical Center, Nijmegen, The Netherlands

15.30-15.42  O13. ACETAZOLAMIDE: AN IMPROVED TREATMENT FOR LITHIUM-INDUCED NEPHROGENIC DIABETES INSIPIDUS?
Mohammad Alsady, Theun de Groot and Peter M.T. Deen
Department of Physiology, Radboud Institute for Molecular Life Sciences (RIMLS), Radboud Univ. Med. Center, Nijmegen, The Netherlands

N.F. Casteleijn¹, J.D. Blais², F.S. Czerwiec², A.M. Leliveld³, V.E. Torres⁴ and R.T. Gansevoort¹
¹Dept. of Nephrology, University Medical Center Groningen, Groningen, The Netherlands; ²Otsuka PDC, Rockville, USA; ³Dept. of Urology, University Medical Center Groningen, Groningen, The Netherlands; ⁴Dept. of Nephrology and Hypertension, Mayo Clinic, Rochester, USA

16.00-16.30  Junior invited lecture:
THE EMERGENCE OF THE GLOMERULAR PARIETAL EPITHELIAL CELL
Dr. B. Smeets
Department of Pathology, Radboud university medical center Nijmegen, The Netherlands

16.30-16.45  News from PLAN (Platform AIO’s Nefrologie)

Awards, Tea & Departure
16.45-16.55  Prizes will be awarded:
• 2x 500 EURO, first prize oral presentations (1x BEL and 1x NL)
• 2x 200 EURO, poster prize (1x BEL and 1x NL)

16.55-17.30  Drink (“borrel”)
P1. PROGRESSIVE DECLINE IN TACROLIMUS CLEARANCE AFTER RENAL TRANSPLANTATION IS PARITIALLY EXPLAINED BY DECREASING CYP3A4 ACTIVITY AND INCREASING HEMATOCRIT
Hylke de Jonge1, Thomas Vanhove1, Henriëtte de Loor2, Kristin Verbeke3, Dirk R J Kuypers1
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2Laboratory of Nephrology, Department of Microbiology and Immunology, University of Leuven, Leuven, Belgium

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* Contributed equally
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* Authors contributed equally.
Department of Nephrology, University Medical Center Groningen, The Netherlands

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Department of Nephrology1, Biomedical Engineering and Physics2, Laboratory of Genetic Metabolic Disease3
Vascular Medicine4, AMC Amsterdam, The Netherlands

P5. METFORMIN TREATMENT PROTECTS AGAINST RENAL FAILURE DEVELOPMENT AND PRESERVES NORMAL PHOSPHORUS AND CALCIUM BALANCE
E. Neven1, K. Brand2, B. Vervaet1, G. Behets1, A. Verhulst1, M.E. De Broe1 and P.C. D’Haese1
1Laboratory of Pathophysiology, University of Antwerp, Wilrijk, Belgium. 2Merck KGaA, Darmstadt, Germany

P6. INTERLEUKIN-37 DIMinishes the INFLAMMATORY RESPONSE OF ISCHEMIA/REPERFUSION-SUSCEPTIBLE RENAL TUBULAR EPITHELIAL CELLS
WPC Pulskens3, J Bublitz3, LA Joosten5, S Florquin3,4, CA Dinarello2,5, LB Hilbrands1, J van der Vlag1
1Dept. of Nephrology, 2Dept. of General Internal Medicine and 3Dept of Pathology, Radboud University Medical Center, Nijmegen, The Netherlands; 4Dept. of Pathology, Academic Medical Center, Amsterdam, the Netherlands, 5Dept. of Medicine, University of Colorado, Denver, Aurora, CO USA
P7. EXPLORING THE EXOCYST AND ITS ASSOCIATION WITH THE CILIUM AND RETINAL-RENAL CILIOPATHIES

I. Lamers², S. van Beersum¹, S. Letteboer¹, J. van Reeuwijk¹, K. Boldt², M. Ueffing², F. Cremers³, R. Roepman³, and H. Arts¹,*¹,²

¹Department of Human Genetics, Nijmegen Centre for Molecular Life Sciences, Radboud University Nijmegen Medical Centre, The Netherlands; ²Division of Experimental Ophthalmology and Medical Proteome Center, Center of Ophthalmology, University of Tübingen, Germany; ³Department of Biochemistry, University of Western Ontario, London, Canada

P8. THE USE OF SCREENING MR ANGIOGRAPHY IN ADPKD

C. Christiaens, R. Poesen, D. Kuypers, B. Bammens, B. Meijers

Division of Nephrology, University Hospitals Leuven, Belgium

P9. DIAGNOSTIC MANAGEMENT OF SUSPECTED ACUTE CYST COMPLICATION IN PATIENTS WITH AUTOSOMAL DOMINANT POLYCYSTIC KIDNEY DISEASE

Marie Neuville¹, Roland Hustinx¹, Jean-Marie Krzesinski¹,², François Jouret¹,³

¹Division of Nephrology, University of Liège Hospital (Ulg CHU), Liège, Belgium; ²Division of Nuclear Medicine, University of Liège Hospital (Ulg CHU), Liège, Belgium; ³Groupe Interdisciplinaire de Génoprotéomique Appliquée (GIGA), Cardiovascular Sciences, University of Liège, Liège, Belgium

P10. URINARY BIOMARKERS AND PREDICTION OF DISEASE PROGRESSION IN AUTOSOMAL DOMINANT POLYCYSTIC KIDNEY DISEASE

A.L. Messchendorp¹, E. Meijer¹, W. Boertien¹, N.F. Casteleijn¹, E.M. Spithoven¹, R.T. Gansevoort¹, on behalf of the DIPAK Consortium.

¹Department of Nephrology, University Medical Center Groningen, University of Groningen, Groningen, The Netherlands

P11. A NONSENSE MUTATION IN THE WNT11 GENE CAUSES A HUMAN CILIOPATHY-LIKE PHENOTYPE

Zeineb Bakey¹,², Ellen Thomas³, Amelia Shoemark³, Kirsten Renkema³, Nine V.A.M. Knoers⁵, Friedhelm Hildebrandt¹, Ernie M.H.F. Bongers¹, Iris van Rooij¹, Stefanie Weber⁶, Leema Robert⁷, Miriam Schmidts¹,²,⁹

¹Department of Human Genetics, Radboud University Medical Center, Nijmegen, The Netherlands; ²Radboud Institute for Molecular Life Sciences, Nijmegen, The Netherlands; ³Division of Nuclear Medicine, Guy’s Hospital, London, UK; ⁴Electron Microscopy Unit, Royal Brompton Hospital, London, UK; ⁵University Medical Center Utrecht, Utrecht, The Netherlands; ⁶Department of Medicine, Boston Children’s Hospital, Harvard Medical School, Boston, USA; ⁷Department of Health Evidence, Radboudumc, Nijmegen, The Netherlands; ⁸Children’s Hospital, Pediatrics II, University of Duisburg-Essen, Essen, Germany; ⁹Pediatric Genetics division, Center for Pediatrics and Adolescent Medicine, University Hospital Freiburg, Germany

P12. GENETIC DEFECTS IN A PATIENT WITH A NEW CONGENITAL DISORDER OF GLYCOSYLATION PRESENTING WITH RENAL- AND LIVER CYSTS, SKELETAL DYSPLASIA, AND SEVERE COMBINED IMMUNODEFICIENCY

Machteld M. Oud¹,², Naomi van Vlies³, Alex M. de Bruin⁴, Zemin Ren⁵, Marielle Alders⁴, Ronald J.A. Wanders⁴, Daniela A. Braun⁶, Jennifer Lawson⁶, Friedhelm Hildebrandt¹, Steven T. Pals³, Han G. Brunner¹, Jan-Maarten Cobben⁷, Ronald Roepman³, Heleen H. Arts¹,²,³**, Taco W. Kuypers⁷,²**

***First authors contributed equally, ** Senior authors contributed equally

¹Dept. of Human Genetics, Radboud Institute for Molecular Life Sciences, Radboud University Medical Centre, Nijmegen, The Netherlands; ²Department of Pediatric Metabolic Diseases, Academic Medical Center, University of Amsterdam, Amsterdam, The Netherlands; ³Department of Pathology, Academic Medical Center, University of Amsterdam, Amsterdam, The Netherlands; ⁴Department of Clinical Genetics, Academic Medical Center, University of Amsterdam, Amsterdam, The Netherlands; ⁵Laboratory of Genetic Metabolic Diseases, Academic Medical Centre, Amsterdam, The Netherlands; ⁶Department of Medicine, Boston Children’s Hospital, Harvard Medical School, Boston, Massachusetts, USA; ⁷Department of Pediatrics, Academic Medical Center University Hospital, Amsterdam, The Netherlands; ⁸Department of Biochemistry and Robarts Research Institute, University of Western Ontario, London, Ontario, Canada
P13. VHL IS ESSENTIAL FOR MAINTENANCE OF PROXIMAL TUBULE AND GLOMERULUS INTEGRITY DURING ZEBRAFISH DEVELOPMENT

G. van de Hoek1,2, E. van Rooijen1, I. Logister1, K.Y. Renkema3, V.V.A. Knoers2, R.H. Giles1

1Dept. of Nephrology and Hypertension, University Medical Center Utrecht, Utrecht, The Netherlands; 2Dept. of Medical Genetics, University Medical Center Utrecht, Utrecht, The Netherlands; 3Children’s Hospital Boston, Harvard University, Boston, USA
P14. INDOLEAMINE 2,3-DIOXYGENASE ACTIVITY AND LATE GRAFT FAILURE AFTER KIDNEY TRANSPLANTATION
Laura V. de Vries¹, Claude P. van der Ley², Casper F.M. Franssen¹, Gerjan Navis³, Ido P. Kema² and Stephan J.L. Bakker³
¹Department of Nephrology, University Medical Center Groningen, The Netherlands; ²Department of Laboratory Medicine, University Medical Center Groningen, The Netherlands

P15. ABATACEPT TREATMENT AND B7-1 IMMUNOSTAINING IN PATIENTS WITH PRIMARY AND POST-TRANSPLANT FSGS
Rutger J. Maas¹, Brigith Willemsen², Henry B. Dijkman², Catharina M. Haring², Jeroen K. Deegens¹, Jack F. Wetzels³
¹Department of Nephrology, Radboud University Medical Center, Nijmegen, The Netherlands. ²Department of Pathology, Radboud University Medical Center, Nijmegen, The Netherlands. ³Department of Nephrology, Deventer Ziekenhuis, Deventer, The Netherlands

P16. TUBULOINTERSTITIAL EXPRESSION OF CONNECTIVE TISSUE GROWTH FACTOR IN RENAL ALLOGRAFT PROTOCOL BIPSIES AT 3 MONTHS PREDICTS INTERSTITIAL FIBROSIS AT 5 YEARS
Thomas Vanhove¹, Hiroshi Kinashi²,³, Tri Q. Nguyen³, Evelyne Lerut⁴, Roel Goldschmeding⁵, Dirk R.J. Kuypers¹
¹Department of Nephrology and Renal Transplantation, University Hospitals Leuven, Leuven, Belgium. ²Department of Pathology, University Hospitals Leuven, Leuven, Belgium. ³Department of Immunology and Microbiology, KU Leuven, Leuven, Belgium. ⁴Laboratory of Translational Genetics, Department of Oncology, KU Leuven, Leuven, Belgium. ⁵Vesalius Research Center, VIB, Leuven, Belgium

P17. ISCHEMIA-INDUCED DNA METHYLATION CHANGES IN KIDNEY TRANSPLANTATION
Line Heylen¹,²,³, Maarten Naesens¹,², Matthieu Moisse³,⁴, Ina Jochmans²,⁵, Diethard Monbaliu¹,², Jacques Pirenne⁵, Hui Zhao³,⁴, Bernard Thienpont³,⁴, Dirk Kuypers¹,², Diether Lambrechts⁴ & Ben Sprangers¹,²
¹Department of Nephrology and Renal Transplantation, University Hospitals Leuven, Leuven, Belgium. ²Department of Immunology and Microbiology, KU Leuven, Leuven, Belgium. ³Laboratory of Translational Genetics, Department of Oncology, KU Leuven, Leuven, Belgium. ⁴Vesalius Research Center, VIB, Leuven, Belgium. ⁵Department of Abdominal Transplant Surgery, University Hospitals Leuven, Leuven, Belgium

P18. THE INTRARENAL RESISTIVE INDEX MEASURED AFTER TRANSPLANTATION IS DETERMINED BY THE UPSTREAM VASCULAR SYSTEM OF THE RECIPIENT
Line Heylen¹,²,³, Maarten Naesens¹,², Ben Sprangers¹,², Sam Heye²,⁶, Peter Verhamme³,⁷, Ina Jochmans⁴,⁵, Diethard Monbaliu¹,², Jacques Pirenne³,⁴, Dirk Kuypers¹,², Kathleen Claes¹,²
¹Departments of Nephrology and Renal Transplantation, Radiotherapy, Cardiovascular Medicine and Abdominal Transplant Surgery, University Hospitals Leuven, and the Department of Immunology and Microbiology, Imaging and Pathology and Cardiovascular Sciences, KU Leuven – both in Leuven, Belgium

P19. THE IMPACT OF RENAL TRANSPLANTATION ON MICROBIOTA DERIVED UREMIC RETENTION SOLUTES
Ruben Poesen, Pieter Evenepoel, Dirk Kuypers, Maarten Naesens, Björn Meijers
Division of Nephrology, University Hospitals Leuven, Belgium
Poster session D (Dialysis and RAAS)

Restaurant

Chairs: TBA

P20. A HEPARIN-GRAFTED MEMBRANE PLUS CITRATE CONTAINING DIALYSATE VS. REGIONAL CITRATE ANTICOAGULATION: RESULTS OF THE CITED STUDY
Christoph Metalidis, Ruben Poese, Annelore De Winter, Dirk Kuypers, Pieter Evenepoel, Björn Meijers
Division of Nephrology, University Hospitals Leuven, Belgium

P21. PRE-DIALYSIS DECLINE OF mGFR BUT NOT eGFR IS A RISK FACTOR FOR MORTALITY ON DIALYSIS
Chava L. Ramspek¹, Hakan Nacak², Merel van Diepen³, Marjolijn van Buren¹,²,³, Raymond T. Krediet¹, Joris I. Rotmans³, Friedo W. Dekker¹
¹Department of Clinical Epidemiology, Leiden University Medical Center, Leiden, The Netherlands. ²Department of Internal Medicine, Haga Hospital, The Hague, The Netherlands. ³Department of Nephrology, Leiden University Medical Center, Leiden, The Netherlands. ⁴Department of Nephrology, Academic Medical Center, Amsterdam, The Netherlands

P22. ABDOMINAL ARTERIAL CALCIFICATION IS HIGHLY PREVALENT AMONG PERITONEAL DIALYSIS PATIENTS AND PROGRESSES AFTER KIDNEY TRANSPLANTATION
M.K. van Gelder¹, R. Kockelkoren², M.C. Verhaar¹, P.A. de Jong², A.C. Abrahams¹
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P23. EXTRACELLULAR VESICLES IN PERITONEAL EFFLUENT
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P24. AGE AND GENDER SPECIFIC LIFETIME RISK OF RENAL REPLACEMENT THERAPY
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P25. INTRAVOXEL INCOHERENT MOTION ANALYSIS OF DIFFUSION WEIGHTED IMAGING TO MEASURE GLOMERULAR FILTRATION FRACTION: PROOF OF CONCEPT
R. van de Bel¹†, O.J. Gurney-Champion²†, W.V. Potters², H.J. Verberne³, L. Vogt¹, E.S.G. Stroes¹, A.J. Nederveen³, C.T.P. Krediet¹ both authors contributed equally to this work
Academic Medical Center at the University of Amsterdam, departments of Internal Medicine¹, Radiology² and Nuclear Medicine³

P26. THE SUCCINATE RECEPTOR 1 IS A PHYSIOLOGICAL REGULATOR OF THE RENIN-ANGIOTENSIN ALDOSTERONE SYSTEM
Claudia Carmone, Joris H. Robben, Ana Carolina Ariza, Steef Kurstjens, Olivier Devuyst, Peter M.T. Deen
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P27. MAGNETIC RESONANCE IMAGING DERIVED RENAL OXYGENATION AND PERFUSION DURING CONTINUOUS, STEADY-STATE ANGIOTENSIN-II INFUSION IN HEALTHY HUMANS
R. van de Bel¹, A.J. Nederveen³, B.F. Coolen³, W.V. Potters², H.J. Verberne³, L. Vogt¹, E.S.G. Stroes¹, C.T.P. Krediet¹
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**Poster session E (Chronic Kidney Disease)**

*Saturn zaal*

*Chairs: TBA*

**P28. THE SUCCINATE RECEPTOR CONTRIBUTES TO OBESITY-INDUCED TYPE II DIABETES AND CHRONIC KIDNEY DISEASE**

Claudia Carmone, Joris H. Robben, Janna van Diepen, Ana Carolina Ariza, Olivier Devuyst, Rinke Stienstra, and Peter M.T. Deen

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**P29. THE INFLUENCE OF CHRONIC KIDNEY DISEASE ON GUT MICROBIAL METABOLISM**

Ruben Poesen, Karen Windey, Pieter Evenepoel, Vicky De Preter, Kristin Verbeke, Björn Meijers

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**P30. HYPERTENSION INDUCES PROGRESSION OF RENAL DAMAGE IN LDLR/- MICE ON HIGH FAT DIET**

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**P31. ATTENUATION OF RENAL FIBROSIS AFTER UNILATERAL ISCHEMIA REPERFUSION MAY REQUIRE A MULTI-TARGET APPROACH**

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**P32. TARGETING CARDIORENAL CONNECTORS REDUCES RENAL FIBROSIS IN RATS WITH SUBTOTAL NEPHRECTOMY FOLLOWED BY CORONARY LIGATION**

Nykie R. Oosterhuis, Lennart G. Bongartz, Marianne C. Verhaar, Caroline Cheng, Yan Juan Xu, Arianne van Koppen, Maarten J. Cramer, Roel Goldschmeding, Carlo A. Gaillard, Pieter A. Doevendans, Branko Braam, Jaap A. Joles

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**P33. PATHOGENESIS OF REDUCED GFR IN CHILDREN WITH NEPHROTIC SYNDROME**

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Department of Pediatrics, Hospital Universiti Sains Malaysia (HUSM), Malaysia; Department of Pediatrics, UZ Gent, Belgium; Department of Pediatrics, s’Lands Hospital, Suriname

**P34. GUT MICROBIOTA DERIVED TRIMETHYLAMINE-N-OXIDE IS NOT A BIOMARKER FOR MORTALITY AND CARDIOVASCULAR DISEASE IN EUROPEAN CKD PATIENTS**

Ruben Poesen, Pieter Evenepoel, Björn Meijers

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**P35. CONCEPTUALISATION AND VALIDATION OF A PARADIGM BASED ON URAEMIC TOXINS FOR MANAGEMENT OF CHRONIC KIDNEY DISEASE IN PAEDIATRIC PATIENTS**

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Poster session F (Glomerulonephritis, atypical HUS and other)

Pluto zaal

Chairs: TBA

P36. ALTERNATIVE PATHWAY COMPLEMENT ACTIVATION IN C3 GLOMERULOPATHY
Elena B. Volokhina1, Maroes Michels1, Joop Goertz2, J.F.M. Wetzels1, Nicole C. van de Kar1,4, Tom Erik Mollnes4,5, Lambertus P. van den Heuvel1,2,6

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P37. DIFFERENCES BETWEEN PATIENTS WITH DEFINITE AND SUSPECTED ANCA-ASSOCIATED VASCULITIS IN A SECONDARY CARE HOSPITAL
Eline Houben1, Willem A. Bax1, Walentina A. Sleker2, Bastiaan Van Dam1, Gideon Verhave1, Fenneke C.P. Frerichs1, and Erik Lars Penne1

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P38. TACROLIMUS-BASED REGIMENS IN THE TREATMENT FOR LUPUS NEPHRITIS: A SYSTEMATIC REVIEW
T. Kraaij1, O.W. Brederold1, T.W.J. Huizinga2, T.J. Rabelink1, Y.K.O. Teng1

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P39. Eculizumab treatment efficiently prevents C5 cleavage without CSA generation in vivo
Eli B Volokhina1, G Bergseth1, NCAJ van de Kar1, L P van den Heuvel1,2,3,4,5,6,7, and the Eculizumab Cohort Evaluation (ECO) Study Group

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P40. SENSITIVE, RELIABLE AND EASY-PERFORMED LABORATORY MONITORING OF Eculizumab therapy in atypical hemolytic uremic syndrome
Elena B. Volokhina1, Nicole C. A. J. van de Kar1, Grethe Bergseth1, Thea J. A. M. van der Velden1, Dineke Westra1, Jack F. M. Wetzels1, Lambertus P. van den Heuvel1,2,3,4,5, and Tom Erik Mollnes1,2,6,7

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P41. DESMOPRESSIN MELT IMPROVES SLEEP AND NEUROPSYCHOLOGICAL FUNCTIONING IN MONOSYMPOTOMATIC NOCTURNAL ENURESIS
C. Van Herzeele1, K. Dhondt2, A. Raes1, L.-A. Groen1, S. Roels1, P. Hoebeke1, and J. Vande Walle1

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P42. An enzyme immunoassay for urinary extracellular vesicles
Mahdi Salih1, Robert A. Fenton2, Robert Zietse1, and Ewout J. Hoorn1

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P43. DYSREGULATION OF THE CHOLESTEROL PATHWAY ASSOCIATES WITH ARTERIOSCLEROSIS AND INTRARENAL TELOMERE ATTRITION

Katrien De Vusser\textsuperscript{1}, Kevin Hochstenbach\textsuperscript{2}, Ellen Winckelmans\textsuperscript{2}, Evelyne Lerut\textsuperscript{1}, Dirk Kuypers\textsuperscript{1}, Tim Nawrot\textsuperscript{2}, Maarten Naesens\textsuperscript{1}

\textit{UZ Leuven\textsuperscript{1}, U Hasselt\textsuperscript{2}}
Poster session G (Electolytes and Water)
Lobby
Chairs: TBA

P44. AEROBIC GLYCOLYSIS IN LITHIUM-INDUCED NEPHROGENIC DIABETES INSIPIDUS
Mohammad Alsady, Theun de Groot and Peter M.T. Deen
Department of Physiology, Radboud Institute for Molecular Life Sciences (RIMLS), Radboud Univ. Med. Center, Nijmegen, The Netherlands

P45. LITHIUM NEPHROPATHY: A LONG-TERM COMPLICATION OF CHRONIC LITHIUM THERAPY
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P46. RAPID CORRECTION OF CHRONIC HYponatremia with low Sodium Increment induces gliotic phenotype in the brain
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P47. HYponatremia AS a RISK FACTOR FOR FRACTURES: A META ANALYSIS
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P48. SERUM MAGNESIUM AND THE RISK OF DEATH FROM CORONARY HEART DISEASE AND SUDDEN CARDIAC DEATH: A PROSPECTIVE POPULATION BASED-COHORT STUDY
Brenda C.T. Kieboom¹,²,³ Maartje N. Niemeijer¹, Maarten J.G. Leening¹,⁴,⁵ Marten E. van den Berg,⁶ Oscar H. Franco,⁶ Jaap W. Deckers,⁴ Albert Hofman,¹,⁵ Robert Zietse,² Bruno H. Stricker,¹,²,³ and Ewout J. Hoorn,²
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P49. DISREGULATED PROTEOSTASIS AND ER stress UNDERLIES BRAIN PATHOLOGIC RESPONSE TO RAPID CORRECTION OF CHRONIC HYponatremia IN RATS
Fabrice Gankam¹,², Bruno Couturier¹, Alain Soupart¹, Guy Decaux¹
¹Department of Internal Medicine, Research unit on hydromineral Metabolism, Erasme Hospital Brussels and ²Division of Nephrology, EpiCURA, Ath, Belgium

P50. HIGH SALT AFFECTS TOLL-LIKE RECEPTOR-INDUCED GENE EXPRESSION IN MACROPHAGES
David Severs, Martin Hoogduijn, A.H. Jan Danser, Robert Zietse, Ewout J. Hoorn
Department of Internal Medicine, Erasmus Medical Center, Rotterdam, The Netherlands

P51. RED HOT CHILI PEPPERS AND DRINKING WATER: A RISKY COMBINATION?
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