

Nephrotic Syndrome Rare Disease Clinical Research Network

Abstracts Presented at Conferences

1. Cattran D. Critical Review of New Therapies: MMF, Rituximab, ACTH, Tacrolimus. Paper presented at: American Society of Nephrology (ASN) Renal Week; November 16-21, 2010; Denver, CO.
2. Cattran D. Treatment of membranous nephropathy and idiopathic MPGN. Paper presented at: American Society of Nephrology (ASN) Renal Week; November 16-21, 2010; Denver, CO.
3. Kretzler M. NEPTUNE: The Nephrotic Syndrome Study Network in the Rare Diseases Clinical Research Network. Paper presented at: American Society of Nephrology (ASN) Renal Week; November 16-21, 2010; Denver, CO.
4. Adler S. ClinicoPathologic Correlation. Paper presented at: American Society of Nephrology (ASN) Renal Week; November 16-21, 2010; Denver, CO.
5. Kopp J. MYH9 and FSGS. Paper presented at: American Society of Nephrology (ASN) Renal Week; November 16-21, 2010; Denver, CO.
6. Kopp J. MYH9 is a major-effect risk gene for focal segmental glomerulosclerosis. Paper presented at: American Society of Nephrology (ASN) Renal Week; November 16-21, 2010; Denver, CO.
7. Reiser J. Proteolytic regulation of podocyte function. Paper presented at: American Society of Nephrology (ASN) Renal Week; November 16-21, 2010; Denver, CO.
8. Cattran D. Critical review of new therapies: MMF, Rituximab, ACTH, Tacrolimus. Paper presented at: American Society of Nephrology (ASN) Renal Week; November 16-21, 2010; Denver, CO.
9. Gipson D. Current evidence-based management of FSGS/MDC in children. Paper presented at: American Society of Nephrology (ASN) Renal Week; November 16-21, 2010; Denver, CO.
10. Bruggeman LA, Drawz PE, Kahoud N, Lin K, Barisoni L, Nelson PJ. TNFR2 Interposes the Proliferative and NF- κ B-mediated inflammatory response by podocytes to TNF- α . Poster presented at: American Society of Nephrology (ASN) Renal Week; November 16-21, 2010; Denver, CO.
11. Fervenza FC, Dillon JJ, Erickson SB, Greene E, Hickson LJ, Hogan MC, Leung N. Rituximab versus Cyclosporine in patients with membranous nephropathy. Poster presented at: American Society of Nephrology (ASN) Renal Week; November 16-21, 2010; Denver, CO.
12. Zhdanova O, Srivastava S, Di L, Johnstone DB, Holzman LB, Barisoni L, Skolnik EY. Deletion of drosha in podocytes results in collapsing glomerulopathy. Poster presented at: American Society of Nephrology (ASN) Renal Week; November 16-21, 2010; Denver, CO.
13. George B, Verma R, Soofi AA, Holzman LB. Crk1/2 forms a complex with nephrin and p130cas and is essential for nephrin-induced cell spreading. Poster presented at: American Society of Nephrology (ASN) Renal Week; November 16-21, 2010; Denver, CO.
14. Hogan MC, Zenka R, Johnson KL, Charlesworth C, Harris PC, Bergen R, Ward CJ. In-depth proteomic analysis of podocin-rich exosomes in human urine. Poster presented at: American Society of Nephrology (ASN) Renal Week; November 16-21, 2010; Denver, CO.

15. Yaddanapudi S, Altintas MM, Kistler AD, Reiser J. Cathepsin I is transcriptionally regulated by dendrin and drives glomerular disease progression. Poster presented at: American Society of Nephrology (ASN) Renal Week; November 16-21, 2010; Denver, CO.
16. Kim JH, Konieczkowski M, Sedor JR. WT1 Interacting protein (WTIP) regulates podocyte phenotype by cell-cell contact reorganization. Poster presented at: American Society of Nephrology (ASN) Renal Week; November 16-21, 2010; Denver, CO.
17. Wickman L, Fukuda A, Venkatareddy MM, Qing S, Chowdry MA, Wiggins JE, Kershaw DB, Kretzler M, Wiggins RC. Urinary podocin: nephrin mRNA Molar Ratio (PNMR) as a non-invasive biomarker of podocyte stress. Poster presented at: American Society of Nephrology (ASN) Renal Week; November 16-21, 2010; Denver, CO.
18. Hodgins JB, Eichinger F, Vining C, Randolph A, Sankaranarayanan P, Satchell S, Saleem M, Kretzler M. RNA-seq defined glomerular cell-lineage enriched transcripts in human glomerular diseases. Poster presented at: American Society of Nephrology (ASN) Renal Week; November 16-21, 2010; Denver, CO.
19. Fervenza FC, Abraham R, Erickson SB, Irazabal-Mira MV, Eirin A, Specks U, Nachman P, Bergstralh EJ, Leung N, Cosio FG, Hogan MC, Dillon JJ, Hickson LJ, Cattran D. Efficacy, durability, and immunological analyses following Rituximab therapy in idiopathic membranous nephropathy: a 2-year study. Poster presented at: American Society of Nephrology (ASN) Renal Week; November 16-21, 2010; Denver, CO.
20. Lionaki S, Derebail V, Hogan SL, Hladunewich M, Barbour S, Hu Y, Jennette CE, Jennette JC, Falk RJ, Cattran D, Nachman P, Reich H. Hypoalbuminemia is a risk factor of venous thromboembolism in membranous nephropathy (MN). Poster presented at: American Society of Nephrology (ASN) Renal Week; November 16-21, 2010; Denver, CO.
21. Barbour S, Greenwald A, Djurdjev O, Levin A, Hladunewich M, Cattran D. Disease-specific risk of venous thromboembolism events in idiopathic glomerulonephritis. Poster presented at: American Society of Nephrology (ASN) Renal Week; November 16-21, 2010; Denver, CO.
22. Wei C, Hindi SE, Li J, Burke GW, Fornoni A, Karumanchi SA, Yap HK, Saleem M, Daftarian P, Ruiz P, Reiser J. Identification of soluble urokinase receptor as circulating FSGS factor. Poster presented at: American Society of Nephrology (ASN) Renal Week; November 16-21, 2010; Denver, CO.
23. Kretzler M. CKD Mechanisms of Progression, Network Gene Analysis. Paper presented at: World Congress of Nephrology 2011; April 8-12, 2011; Vancouver, Canada.
24. Kretzler M. Translational Biology of the Renal Podocyte - Systems Biology. Paper presented at: Experimental Biology 2011; April 9-13, 2011; Bethesda, MD.
25. Adler S. What can you learn from uncontrolled studies: the NEPTUNE study. Paper presented at: American Society of Nephrology (ASN) Renal Week; November 8-13, 2011; Philadelphia, PA.
26. Reich H. A molecular signature of proteinuria in glomerulonephritis. Paper presented at: American Society of Nephrology (ASN) Renal Week; November 8-13, 2011; Philadelphia, PA.
27. Reich H. Treatment of IgA nephropathy. Paper presented at: American Society of Nephrology (ASN) Renal Week; November 8-13, 2011; Philadelphia, PA.

- 28.** Reich H. Thrombotic complications of nephrotic syndrome. Paper presented at: American Society of Nephrology (ASN) Renal Week; November 8-13, 2011; Philadelphia, PA.
- 29.** Barisoni L, Jennette JC, Hodgin JB, Herzenberg A, Kopp J, Conway C, Hewett S, Nast C. The NEPTUNE pathology scoring system: a novel virtual microscopy protocol for evaluation of nephrotic syndrome. Paper presented at: American Society of Nephrology (ASN) Renal Week; November 8-13, 2011; Philadelphia.
- 30.** Kretzler M, Holzman LB, Ojo A, Gadegbeku C, Gipson D. NEPTUNE: the Nephrotic Syndrome Study Network in the Rare Diseases Clinical Research Network. Paper presented at: American Society of Nephrology (ASN) Renal Week; November 8-13, 2011; Philadelphia.
- 31.** Lionaki S, Barbour S, Hu Y, Hogan SL, Jennette CE, Falk RJ, Cattran D, Nachman P, Reich H. The occurrence of cancer in patients with membranous nephropathy. Paper presented at: American Society of Nephrology (ASN) Renal Week; November 8-13, 2011; Philadelphia.
- 32.** Mahoney S, Derebail V, Biddle A, Hu Y, Hladunewich M, Falk RJ, Cattran D, Reich H, Nachman P. Factors influencing treatment choice in idiopathic membranous nephropathy. Paper presented at: American Society of Nephrology (ASN) Renal Week; November 8-13, 2011; Philadelphia.
- 33.** Barisoni L. Overview of the pathology of minimal change disease and focal segmental glomerulosclerosis. Paper presented at: ISN (International Society of Nephrology) Update Course in Nephrology; December 9-12, 2011; Dubai, UAE.
- 34.** Kretzler M. NEPTUNE. Paper presented at: 9th International Podocyte Conference; April 22-25, 2012; Miami, FL.
- 35.** Kretzler M. Transcriptional Networks in Glomerular Failure. Paper presented at: 49th European Renal Association - European Dialysis and Transplant Association (ERA-EDTA) Congress; May 24-27, 2012; Paris, France.
- 36.** Kretzler M. Translational research in nephrotic syndrome across disciplines and continents. Paper presented at: 2012 International Society of Nephrology (ISN) Continuous Medical Education (CME) on "Forefronts in Glomerular Disease" August 23-25, 2012; Nanjing, China.
- 37.** Barisoni L, Nast C, Jennette J, et al. The NEPTUNE Digital Pathology Protocol for Evaluation of Nephrotic Syndrome. Paper presented at: American Society of Nephrology (ASN) Kidney Week; October 30 - November 4, 2012; San Diego, CA.
- 38.** Kretzler M, Holzman L, Gadegbeku C, Gipson D, Consortium TNSSN. NEPTUNE: The Nephrotic Syndrome Study Network in the Rare Diseases Clinical Research Network. Paper presented at: American Society of Nephrology (ASN) Kidney Week; October 30 - November 4, 2012; San Diego, CA.
- 39.** Wickman L, Afshinnia F, Yang Y, et al. Profiling Human Urinary mRNA. Paper presented at: American Society of Nephrology (ASN) Kidney Week; October 30 - November 4, 2012; San Diego, CA.
- 40.** Gipson D. Pediatric Nephrotic Syndrome. Paper presented at: International Pediatric Nephrology Kidney Fellows Conference; January 21-24, 2013; Wyndham Rio Mar, Puerto Rico.
- 41.** Kretzler M. Biobanking for rare renal disease, forefronts in nephrology. Paper presented at: Eurenomics General Assembly Meeting; April 3-6, 2013; Heidelberg, Germany.

42. Barisoni L. A new role of renal pathology in systems biology era of nephrotic syndrome. Paper presented at: The Second International Renal Meeting and Mayo Clinic Day Meeting; April 30 - May 3, 2013; Cagliari, Italy.
43. Kretzler M. International collaborations in rare disease. Paper presented at: Rare Diseases Clinical Research Network (RDCRN) Steering Committee Meeting; May 1, 2013; Rockville, MD.
44. Gibson K, Ehrmann B, Yu N, et al. Immunosuppressive Exposure in Children with Incipient Nephrotic Syndrome. Paper presented at: Pediatric Academic Societies (PAS) Annual Meeting; May 4-7, 2013; Washington, DC.
45. Wickman L, Meyers K, Moxey-Mims M, et al. Prevalence of Hypertension in Children with Nephrotic Syndrome. Paper presented at: Pediatric Academic Societies (PAS) Annual Meeting; May 4-7, 2013; Washington, DC.
46. Trachtman H, Sethna C, Gibson K, et al. Focal Segmental Glomerulosclerosis (FSGS) in Pediatrics: Comparison of Patients enrolled in an Observational Versus Interventional Trial. Paper presented at: Pediatric Academic Societies (PAS) Annual Meeting; May 4-7, 2013; Washington, DC.
47. Gipson D. Therapeutic Guidelines in Pediatric Nephrotic Syndrome. Paper presented at: National Meeting on Nephrotic Syndrome; May 12, 2013; New Delhi, India.
48. Gibson K, Greenbaum L, Trachtman H, et al. NEPTUNE Cohort Study: Pediatric Perspectives. Paper presented at: International Pediatric Nephrology Association Congress; August 30 - September, 2013; Shanghai, China.
49. Gipson D. Patient Reported Outcomes in Nephrotic Syndrome. Paper presented at: Rare Disease Clinical Research Network (RDCRN) Steering Committee Meeting; October 2, 2013; Rockville, MD.
50. Barisoni L. Molecular Diagnosis and Classification of FSGS. Paper presented at: American Society of Nephrology Kidney Week; November 5-10, 2013; Atlanta, GA.
51. Barisoni L, Nast C. The NEPTUNE Digital Pathology Morphologic Profiling Of Nephrotic Syndrome. Paper presented at: American Society of Nephrology Kidney Week; November 5-10, 2013; Atlanta, GA.
52. Gibson K, Troost J, Trachtman H, et al. Baseline Immunosuppression Exposure in Neptune Study Cohort. Paper presented at: American Society of Nephrology Kidney Week; November 5-10, 2013; Atlanta, GA.
53. Gipson D. Moving toward a selective approach to therapy in the child with Nephrotic Syndrome. Paper presented at: American Society of Nephrology Kidney Week; November 5-10, 2013; Atlanta, GA.
54. Ju W, Nair V, Smith S, et al. Tissue transcriptome-Driven-Approach Facilitates Discovery Of Non-Invasive Biomarkers for Chronic Kidney Disease. Paper presented at: American Society of Nephrology Kidney Week; November 5-10, 2013; Atlanta, GA.

55. Hogan M, Reich H, Nelson P, et al. Random Urine Protein to Creatinine Ratio (UPCR) Is a Relatively Poor Predictor of 24 hr Protein Excretion in Patients with Glomerular Disease. Paper presented at: American Society of Nephrology Kidney Week; November 5-10, 2013; Atlanta, GA.
56. Komorowsky C, Nair V, Weil J, et al. Systems genetics identifies drivers of early diabetic Kidney Disease. Paper presented at: American Society of Nephrology Kidney Week; November 5-10, 2013; Atlanta, GA.
57. Kretzler M. A Systems View of Genetics in CKD. Paper presented at: American Society of Nephrology Kidney Week; November 5-10, 2013; Atlanta, GA.
58. Kretzler M. Molecular and Genetic Tools for CKD Diagnosis and Prognosis. Paper presented at: American Society of Nephrology Kidney Week; November 5-10, 2013; Atlanta, GA.
59. Kretzler M, Holzman L, Gadegbeku C, Lienczewski C, Taylor-Moon D, Gipson D. On Behalf of the Nephrotic Syndrome Study Network, NEPTUNE: The Nephrotic Syndrome Study Network. Paper presented at: American Society of Nephrology Kidney Week; November 5-10, 2013; Atlanta, GA.
60. Nast C, Barisoni L, Troost J, Gasim A, Appel G, Catran D. Glomerular Descriptors Enhance Standard Renal Biopsy Diagnoses. Paper presented at: American Society of Nephrology Kidney Week; November 5-10, 2013; Atlanta, GA.
61. O'Toole J, Madhavan S, Thomas D, Barisoni L, Bruggeman L, Sedor J. APOL1 is an innate immunity effector that induces stress autophagy by interacting with SNARE protein, VAMP8. Paper presented at: American Society of Nephrology Kidney Week; November 5-10, 2013; Atlanta, GA.
62. Sampson M, Otto E, Troost J, Gadegbeku C, Kretzler M. Monogenic Forms Of Nephrotic Syndrome Occur in Diverse Genes across the Lifespan in North American Subjects. Paper presented at: American Society of Nephrology Kidney Week; November 5-10, 2013; Atlanta, GA.
63. Sampson M, Tan A, Gadebeku C, Kretzler M, Hang H. Genetic Epidemiology and Other Genetic Studies of Common Kidney Diseases. Paper presented at: American Society of Nephrology Kidney Week; November 5-10, 2013; Atlanta, GA.
64. Trachtman H, Lafayette R. Pathobiology: Clinical/Diagnostic Renal Pathology and Lab Medicine – II. Paper presented at: American Society of Nephrology Kidney Week; November 5-10, 2013; Atlanta, GA.
65. Wickman L, Afshinnia F, Wang S, et al. Urine Podocyte mRNAs, Proteinuria, and Progression in Human Glomerular Diseases. Paper presented at: American Society of Nephrology Kidney Week; November 5-10, 2013; Atlanta, GA.
66. Tanzer M, Smith K, Light C, Shereff D, Kretzler M, Gipson D. Assessment of the Educational Experience for Patients with a New Chronic Illness. Paper presented at: Pediatric Academic Society 2014 Annual Meeting; May 3-6, 2014; Vancouver, Canada.
67. Tanzer M, Smith K, Light C, Shereff D, Kretzler M, Gipson D. Educational Topics for Patients Newly Diagnosed with Nephrotic Syndrome: The Patient's Perspective. Paper presented at: Pediatric Academic Society 2014 Annual Meeting; May 3-6, 2014; Vancouver, Canada.

Journal Articles

1. Gadegbeku CA, Gipson DS, Holzman LB, et al. Design of the Nephrotic Syndrome Study Network (NEPTUNE) to evaluate primary glomerular nephropathy by a multidisciplinary approach. *Kidney Int.* Apr 2013;83(4):749-756. PMID: 23325076, PMCID: PMC3612359
2. Barisoni L, Nast CC, Jennette JC, et al. Digital pathology evaluation in the multicenter Nephrotic Syndrome Study Network (NEPTUNE). *Clin. J. Am. Soc. Nephrol.* Aug 2013;8(8):1449-1459. PMID: 23393107, PMCID: PMC3731905
3. Hogan MC, Johnson KL, Zenka RM, et al. Subfractionation, characterization, and in-depth proteomic analysis of glomerular membrane vesicles in human urine. *Kidney Int.* Nov 6 2013. PMID: 24196483, PMCID: PMC4008663
4. Wickman L, Afshinnia F, Wang SQ, et al. Urine Podocyte mRNAs, Proteinuria, and Progression in Human Glomerular Diseases. *J. Am. Soc. Nephrol.* Dec 2013;24(12):2081-2095. PMID: 24052633
5. Canetta PA, Kiryluk K, Appel GB. Glomerular diseases: emerging tests and therapies for IgA nephropathy. *Clin. J. Am. Soc. Nephrol.* Mar 2014;9(3):617-625. PMID: 24071652, PMCID: PMC3944769
6. Moeller S, Canetta PA, Taylor AK, et al. Lack of serologic evidence to link IgA nephropathy with celiac disease or immune reactivity to gluten. *PLoS ONE.* 2014;9(4):e94677. PMID: 24732864, PMCID: PMC3986214
7. Hogan MC, Lieske JC, Lienczewski CC, et al. Strategy and rationale for urine collection protocols employed in the NEPTUNE study. *BMC Nephrol.* 2015;16:190. PMID: 26577187, PMCID: PMC4650313
8. Spinale JM, Mariani LH, Kapoor S, et al. A reassessment of soluble urokinase-type plasminogen activator receptor in glomerular disease. *Kidney Int.* Mar 2015;87(3):564-574. PMID: 25354239, PMCID: PMC4344842
9. Sampson MG, Robertson CC, Martini S, et al. Integrative Genomics Identifies Novel Associations with APOL1 Risk Genotypes in Black NEPTUNE Subjects. *J. Am. Soc. Nephrol.* Jul 6 2015. PMID: 26150607
10. Sampson MG, Gillies CE, Robertson CC, et al. Using Population Genetics to Interrogate the Monogenic Nephrotic Syndrome Diagnosis in a Case Cohort. *J. Am. Soc. Nephrol.* Nov 3 2015. PMID: 26534921
11. Ju W, Nair V, Smith S, et al. Tissue transcriptome-driven identification of epidermal growth factor as a chronic kidney disease biomarker. *Sci Transl Med.* Dec 2 2015;7(316):316ra193. PMID: 26631632
12. Gipson DS, Troost JP, Lafayette RA, et al. Complete Remission in the Nephrotic Syndrome Study Network. *Clin. J. Am. Soc. Nephrol.* Jan 7 2016;11(1):81-89. PMID: 26656320