

CURRICULUM VITAE

Richard F. Ransom, Ph.D.

CONTACT

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PERSONAL DATA

Place of Birth: Traverse City, Michigan
Citizenship: United States of America

EDUCATION

9/85 – 6/91 Purdue University, West Lafayette, Indiana, Ph.D. (Biochemistry)
9/79 – 12/83 Michigan State University, East Lansing, Michigan, B.S. (Biochemistry)
9/75 – 6/79 Traverse City Senior High, Traverse City, Michigan

POSTDOCTORAL TRAINING

1/91 – 6/92 Postdoctoral fellow, Department of Plant Pathology, University of California, Riverside, California.
1/93 – 10/96 Postdoctoral Fellow, Department of Energy Plant Research Laboratory, Michigan State University, East Lansing, Michigan.
11/96 – 4/97 Producer of fungal toxins on contract with Pioneer Hi-Bred Seed, MBI International, East Lansing, Michigan.
5/97 – 7/98 Research Associate I, Division of Pediatric Nephrology, University of Michigan, Ann Arbor, Michigan.
8/98 – 7/99 Research Associate II, Division of Pediatric Nephrology, University of Michigan, Ann Arbor, Michigan.
8/99 – 5/01 Senior Research Associate, Division of Pediatric Nephrology, University of Michigan, Ann Arbor, Michigan.

ACADEMIC APPOINTMENTS

6/01 – 8/05 Research Investigator, Department of Pediatric Nephrology, University of Michigan, Ann Arbor, Michigan
9/05 – 10/07 Research Assistant Professor, Department of Pediatric Nephrology, University of Michigan, Ann Arbor, Michigan
10/07 – 5/13 Principal Investigator, The Research Institute at Nationwide Children's Hospital, Columbus, Ohio
10/07 – 5/13 Assistant Professor, Department of Pediatrics, Ohio State University Medical Center, Columbus, Ohio

ACADEMIC ADMINISTRATIVE APPOINTMENTS

9/02 – 6/07 Director, Microscopic Imaging Core Facility, Department of Pediatrics, University of Michigan Medical School, Ann Arbor, Michigan
7/04 – 6/07 Member, Research Advisory Committee, Department of Pediatrics, University of Michigan Medical School, Ann Arbor, Michigan
8/05 – 6/07 Member, Information Technology Faculty Advisor Committee, University of Michigan Medical School, Ann Arbor, Michigan
8/05 – 6/07 Medical School Software Review Committee, University of Michigan Medical School, Ann Arbor

- 2/09 – 5/13 Member, Institutional Animal Use and Care Committee, The Research Institute at Nationwide Children's Hospital, Columbus, Ohio
- 2/10 – 5/13 Member, Research Information Technology Advisory Council, The Research Institute at Nationwide Children's Hospital, Columbus, Ohio

SCIENTIFIC ACTIVITIES

Editorial Boards

- 2013 – Journal of Cytology & Molecular Biology

Manuscript Reviews (most journals ongoing since start date)

- 2002 – Kidney International
2002 – European Journal of Cell Biology
2004 – Cell Biology and Toxicology
2004 – American Journal of Physiology – Renal Physiology
2005 – Pediatric Nephrology
2005 – Journal of the American Society of Nephrology
2005 – Proteomics
2005 – Nephrology, Dialysis, Transplantation
2006 – Pediatric Research

Ad hoc reviewer:

- 2005 – National Kidney Foundation of Illinois
2006 – NIH Center for Scientific Review, PBKD Study Section, NIH–NIDDK
2009 – NIH Center for Scientific Review, Special Emphasis Panel ZRG1 DKUS–A, NIH–NIDDK
2010 Kids Kidney Research, UK
2011 – 2012 Italian Ministry of Health, IT
2010 – 2012 Singapore National Medical Research Council
2013 Medical Research Council, UK

GRANT SUPPORT

Most Recent

R01 DK075533 (**Richard F. Ransom, P.I.**) 8/01/2007–12/31/2013 7.2 calendar months
NIH–NIDDK \$175,000/yr

Mechanisms of Glucocorticoid Action in Podocytes

Objective: The overall aims of the proposed studies are to measure the therapeutic action of glucocorticoids against experimental nephrotic syndrome in transgenic animals with podocyte-specific expression of a highly sensitive glucocorticoid receptor or with podocyte specific knockout of small heat shock proteins, and to determine the mechanism of small heat shock protein action in glucocorticoid therapy for nephrotic syndrome.

HONORS AND AWARDS

- 1985 USDA National Needs Fellow
1979 National Merit Finalist

MEMBERSHIPS AND OFFICES IN PROFESSIONAL SOCIETIES

- 2000 – American Society of Nephrology
2006 – American Society of Pediatric Nephrology

TEACHING ACTIVITIES

- 1987 – Graduate Teaching Assistant, Biochemistry 207. Anna Wilson, Instructor, Department of Biochemistry, Purdue University, West Lafayette, IN.

- 2001 – Mentor to Dr. Virginia Vega–Warner, Ph.D., postdoctoral researcher under my supervision. Responsible for supervision of her day–to–day laboratory work, preparation of grants, manuscripts, and presentations at international meetings, as well as for career development assistance.
- 2002 – Director, Pediatric Imaging Facility. Responsible for training of all facility users, establishment of protocols for use of the Facility instrumentation, and consultations with users and potential users on methods design and implementation.
- 2009 – Instructor, MCDB 800/890. Molecular Cell and Developmental Biology, Ohio State University, Columbus, OH
- 2011 – Instructor, IBGP 851, Integrated Biomedical Graduate Program, Ohio State University, Columbus, OH
- 2012 – Instructor, MCDB 800/890. Molecular Cell and Developmental Biology, Ohio State University, Columbus, OH

EXTRAMURAL INVITED PRESENTATIONS

1. Protection from and enhanced recovery of cultured murine podocytes from PAN injury via an hsp27-dependent mechanism. Invited speaker, podium presentation. Research conference, Department of Internal Medicine, Division of Nephrology, University of Louisville. April 26, 2002.
2. Glucocorticoids protect and enhance recovery of podocytes from PAN-induced injury via an hsp27-dependent mechanism. Invited speaker, podium presentation. 2002 Pediatric Academic Societies' Annual Meeting. Baltimore, Maryland. May 4, 2002.
3. Functional identification of the hsp27 binding protein sop2p. Invited speaker, podium presentation, 2003 American Society of Nephrology Meeting, San Diego, California. November 16, 2003.
4. Inhibition of multiple drug resistance protein (ABCB1) in podocytes results in enhancement of protective effect of glucocorticoids. Invited speaker, podium presentation. 6th International Podocyte Congress, Helsinki, Finland. June 9, 2006
5. Glucocorticoid action in podocytes. Invited speaker, podium presentation. Podocytes: In Vitro Conference, Dublin, Ireland. June 8th, 2007.
6. Glucocorticoids in nephrotic syndrome. Invited speaker, podium presentation. Children's Research Institute, Columbus, Ohio. July 27th, 2007.
7. Cell culture and rodent models of podocyte function in disease and therapy. Invited speaker. Abbott Laboratories, Abbott Park, IL. July 30th, 2012.
8. Transcriptome sequencing of paired samples from nephrotic children: A comparison of bioinformatic and statistical analyses to identify critical components determining steroid response. Invited speaker, podium presentation. Mathematical and Computational Medicine Conference, 2012, Xcaret, Mexico. December 2nd, 2012.
9. Nationwide Children's presents a multifaceted computational approach to pediatric care. Invited speaker, podium presentation. Molecular Med Tri-Con 2013 meeting, San Francisco, CA. February 12th, 2013.
10. Critical considerations in basic science research on clinical topics. Invited speaker, podium presentation. World DNA and Genome Day 2013, Nanjing, China. April 26th, 2013.

BIOGRAPHY

Peer-Reviewed Publications

1. Traylor EA, Shore SH, **Ransom RF**, Dunkle LD. (1987) Pathotoxin effects in sorghum are also produced by mercuric chloride treatment. *Plant Physiol* **84**: 975-978.
2. **Ransom RF**, Hipskind J, Leite B, Nicholson RL, Dunkle LD. (1992) Effects of elicitor from *Colletotrichum graminicola* on the response of sorghum to *Periconia circinata* and its pathotoxin. *Physiol Mol Plant Path* **41**: 75-84.

3. **Ransom RF**, Wilder J, Dunkle LD. (1994) Purification and distribution of pathotoxin-enhanced proteins in sorghum. *Physiol Mol Plant Path* **45**: 385-395.
4. Brosch G, **Ransom RF**, Lechner T, Walton JD, Loidl P. (1995) Inhibition of maize histone deacetylases by HC toxin, the host-selective toxin of *Cochliobolus carbonum*. *Plant Cell* **7**: 1941-1950.
5. **Ransom RF**, Walton JD. (1996) Purification and characterization of extracellular β -xylosidase and α -arabinosidase from the plant pathogenic fungus *Cochliobolus carbonum*. *Carbohydrate Research* **297**: 357-364.
6. **Ransom RF**, Walton JD. (1997) Histone hyperacetylation in maize in response to treatment with HC-toxin or infection by the filamentous fungus *Cochliobolus carbonum*. *Plant Physiol* **115**: 1021-1027.
7. Benndorf R, **Ransom RF**, Gilmont RR, Hayess K, Welsh MJ. (1998) Inhibition of mammalian small heat shock protein 25 (hsp25) kinase. *Emerging Therapeutic Targets* **2**(1): 147-149.
8. Wegener S, **Ransom RF**, Walton JD. (1999) A unique eukaryotic β -xylosidase gene from the phytopathogenic fungus *Cochliobolus carbonum*. *Microbiology* **145**: 1089-1095.
9. Smoyer WE, **Ransom RF**, Harris RC, Welsh MJ, Lutsch G, Benndorf R. (2000) Ischemic acute renal failure results in differential renal expression of small heat shock proteins. *J Am Soc Nephrol* **11**: 211-221.
10. Jia Y, **Ransom RF**, Shibamura M, Liu C, Welsh MJ, Smoyer WE. (2001) Identification and characterization of hic-5/ARA-55 as an hsp27 binding protein. *J Biol Chem* **276**:39911-8.
11. Smoyer WE, **Ransom RF** (2002) Hsp27 regulates podocyte cytoskeletal changes in an *in vitro* model of podocyte process retraction. *FASEB J* **16**:315-326.
12. Vega-Warner V, **Ransom RF**, Vincent AM, Brosius FC, Smoyer WE (2004) Induction of antioxidant enzymes in murine podocytes precedes injury by puromycin aminonucleoside. *Kidney Int* **66**:1881-9.
13. Eichler TE, **Ransom RF**, Smoyer WE (2005) Differential induction of podocyte heat shock proteins by prolonged single and combination toxic metal exposure. *Toxicol Sci* **84**:120-8.
14. Hirano S, Sun X, Deguzman CA, **Ransom RF**, McLeish KR, Smoyer WE, Shelden EA, Welsh MJ, Benndorf R (2005) p38 MAPK/HSP25 signaling mediates cadmium-induced contraction of mesangial cells and renal glomeruli. *Am J Physiol Renal Physiol* **288**:F1133-43.
15. **Ransom RF**, Vega-Warner V, Smoyer WE, Klein JB (2005) Differential proteomic analysis of proteins induced by glucocorticoids in cultured murine podocytes, *Kidney Int* **67**:1275-85.
16. **Ransom RF**, Lam NG, Hallett M, Atkinson S, Smoyer WE (2005) Glucocorticoids protect and enhance recovery of cultured murine podocytes against injury via actin filament stabilization. *Kidney Int* **28**:2473-2483
17. Eichler TE, Ma Q, Kelly C, Mishra J, Parikh S, **Ransom RF**, Devarajan P, Smoyer WE (2006) Single and combination toxic metal exposures induce apoptosis in cultured murine podocytes exclusively via the caspase 8 pathway. *Toxicol Sci* **90**:392-399
18. Reddy GR, Pushpanathan MJ, **Ransom RF**, Holzman LB, Brosius FC 3rd, Diakonova M, Mathieson P, Saleem MA, List EO, Kopchick JJ, Frank SJ, Menon RK (2007) Identification of the glomerular podocyte as a target for growth hormone action. *Endocrinology* **148**:2045-55.
19. Reddy GR, Kotlyarevska K, **Ransom RF**, Menon RK. (2008) The podocyte and diabetes mellitus: is the podocyte the key to the origins of diabetic nephropathy? *Curr Opin Nephrol Hypertens* **1**:32-36
20. Guess A, Agrawal S, Wei CC, **Ransom RF**, Benndorf R, Smoyer WE (2010) Dose- and time-dependent glucocorticoid receptor signaling in podocytes. *Am J Physiol Renal Physiol* **299**:F845-53.

21. Pengal R, Guess AJ, Agrawal S, Manley J, **Ransom RF**, Mourey RJ, Benndorf R, Smoyer WE (2011) Inhibition of the protein kinase MK-2 protects podocytes from nephrotic syndrome-related injury. *Am J Physiol Renal Physiol.* **301**:F509-19.
22. Chittiprol S, Chen P, Petrovic-Djergovic D, Eichler T, **Ransom RF** (2011) Marker expression, behaviors, and responses vary in different lines of conditionally-immortalized cultured podocytes. *Am J Physiol Renal Physiol.* **301**:F660-71.
23. Ozaltin F, Li B, Rauhauser A, An SW, Soylemezoglu O, Gonul II, Taskiran EZ, Ibsirlioglu T, Korkmaz E, Bilginer Y, Duzova A, Ozen S, Topaloglu R, Besbas N, Ashraf S, Du Y, Liang C, Chen P, Lu D, Vадnagara K, Arbuckle S, Lewis D, Wakeland B, Quigg RJ, **Ransom RF**, Wakeland EK, Topham MK, Bazan NG, Mohan C, Hildebrandt F, Bakkaloglu A, Huang CL, Attanasio (2012) MDGKE variants cause a glomerular microangiopathy that mimics membranoproliferative GN. *J Am Soc Nephrol* **24**:377-84.

In Review

1. Petrovic-Djergovic D, Chen P, Chittiprol S, Eichler T, Patel H, Dyas M, Chang M, Greenbaum L, Srivastava T, Nester C, Iorember F, Van Why SK, Kump T, Modi P, Freiling M, Ferris M, **Ransom RF**, and the Midwest Pediatric Nephrology Consortium (2011) Steroid responsiveness of TIF2 expression in leukocytes predicts steroid response of pediatric patients with nephrotic syndrome: a MWPNC Study. *J Am Soc Nephrol*
2. Petrovic-Djergovic D, Popovic M, Chittiprol S, Eichler T, Chen P, **Ransom RF**. Mifepristone is as effective as methylprednisolone as therapy for experimental nephrotic syndrome. *J Am Soc Nephrol*

In Preparation

1. Petrovic-Djergovic D, Popovic M, Chittiprol S, Partida-Sanchez S, **Ransom RF**. Secretion of CXCL10 by podocytes coordinates trafficking of interferon- γ -activated macrophages in puromycin aminonucleoside nephrosis in rats. *Eur J Immunol*

Chapters in Books

1. Walton JD, Ahn J-H, Pitkin JW, Cheng Y, Nikolskaya AN, **Ransom RF**, Wegener S. "Enzymology, molecular genetics, and regulation of biosynthesis of the host-selective toxin HC-toxin" In: Molecular Genetics of Host-Specific Toxins in Plant Disease. Edited by Kohmoto K, Yoder OC, Kluwer Academic Publishers, Dordrecht, The Netherlands, 1997, pp. 25-34.
2. Scott-Craig JS, Apel-Birkhold PC, Gorlach JM, Nikolskaya A, Pitkin JW, **Ransom RF**, Sposato P, Ahn J-H, Tonukari NJ, Wegener S, Walton JD. "Cell wall degrading enzymes in HST-producing fungal pathogens" In: Molecular Genetics of Host-Specific Toxins in Plant Disease. Edited by Kohmoto K, Yoder OC, Kluwer Academic Publishers, Dordrecht, The Netherlands, 1997, pp. 245-252.
3. Walton, JD; **Ransom, RF**; Pitkin, JW. "Northern corn leaf spot: Chemistry, enzymology, and molecular genetics of a host-selective phytotoxin: In: Plant-Microbe Interactions. Edited by Stacey G, Keen NT, Chapman and Hall, Inc., New York, NY, 1997.
4. **Ransom RF**. "Podocyte Proteomics" In: Contributions to Nephrology, v. 141, Proteomics in Nephrology. Edited by Thogboonkerd V, Klein JB. Karger, Basel, Switzerland, 2004, pp 189-211.

Abstracts, Preliminary Communications, Clinical Papers

1. Walton JD, Ahn J-H, Akimitsu K, Pitkin JW, **Ransom RF**. Leaf-spot disease of maize: Chemistry, biochemistry, and molecular biology of a host-selective cyclic peptide. International Molecular Plant-Microbe Interactions Congress, Edinburgh, Scotland, 1993. Published In: Advances in Molecular Genetics of Plant-Microbe Interactions. Edited by Daniels MJ, Downie JA, Osborne AE, Kluwer Academic Publishers, Dordrecht, The Netherlands, 1994, 3: 231-237.

2. Scott-Craig J, Pitkin JW, Apel PC, Murphy JM, Sposato P, **Ransom RF**, Schaeffer HJ, and Walton JD. Cell wall degrading enzymes of fungal plant pathogens. Fungal Genetics Conference, Asilomar, CA, 1995.
3. Smoyer WE, Harris RC, **Ransom R**, Welsh MJ, Benndorf, RC. Differential renal expression of hsp27 and α B-crystallin in rats following acute ischemia. American Society of Nephrology, San Antonio, TX, 1997.
4. Smoyer WE, **Ransom RF**, Harris RC, Welsh MJ, Lutsch G, Benndorf R. Ischemic acute renal failure in rats results in differential induction of hsp27 and α B-crystallin. Midwest Stress Response and Chaperone Meeting, Evanston, IL, 1998.
5. Smoyer WE, **Ransom RF**. Modulation of hsp25 expression regulates PAN-induced cytoskeletal changes in differentiated cultured podocytes in an *in vitro* model of nephrotic syndrome. University of Michigan, Department of Pediatrics Annual Research Symposium, Ann Arbor, MI, 1999.
6. **Ransom RF**, Shelden EA, Smoyer WE. Intracellular redistribution of hsp25 and actin in cultured podocytes after protamine sulfate and oxidant stress. American Society of Nephrology, Miami Beach, FL, 1999.
7. Smoyer WE, **Ransom RF**. Altered hsp25 expression regulates PAN-induced cytoskeletal changes in cultured podocytes in an *in vitro* model of nephrotic syndrome. American Society of Nephrology, Miami Beach, FL, 1999.
8. Smoyer WE, **Ransom RF**. Hsp27 protects against PAN-induced cellular injury in an *in vitro* model of podocyte spreading and retraction. Pediatric Academic Society Meeting, MN, 2000.
9. Smoyer WE, **Ransom RF**. Altered hsp27 expression regulates PAN-induced cellular injury in an *in vitro* model of podocyte spreading and retraction. Symposium on Podocyte Biology, Ann Arbor, MI, 2000.
10. Jia Y, Welsh MJ, **Ransom RF**, Liu C, Smoyer WE. Identification, characterization, and functional analysis of hic-5 as a new glomerular hsp27 binding protein. American Society of Nephrology, Toronto, Canada, 2000.
11. **Ransom RF**, Smoyer WE. Hsp27 regulates paxillin expression and distribution after PAN in cultured podocytes. American Society of Nephrology, Toronto, Canada, 2000.
12. **Ransom RF**, Shelden EA, Smoyer WE. Protamine sulfate induces *in vitro* podocyte spreading and actin disruption reversible by heparin. American Society of Nephrology, Toronto, Canada, 2000.
13. Smoyer WE, **Ransom RF**. Altered hsp27 expression regulates PAN-induced cellular injury in an *in vitro* model of podocyte spreading and retraction. American Society of Nephrology, Toronto, Canada, 2000.
14. Lam N, **Ransom RF**, Smoyer WE. Long and short term effects of dexamethasone on the accumulation and phosphorylation states of hsp25 in murine podocyte cells. Student Biomedical Research Forum, Ann Arbor, MI, 2000.
15. Jia Y, **Ransom RF**, Liu C, Smoyer WE, Welsh MJ. Identification of hic-5 as a novel hsp27 binding protein in rat glomeruli and functional analysis of hic-5: hsp27 interactions. Cellular and Molecular Biology Graduate Program Fall Symposium, Ann Arbor, MI, 2000.
16. Jia Y, **Ransom RF**, Welsh MJ, Smoyer WE. Identification, characterization, and functional analysis of hic-5 as a new glomerular hsp27 binding protein. Department of Pediatrics Annual Research Symposium, University of Michigan, Ann Arbor, MI, 2000.
17. Smoyer WE, **Ransom RF**. Altered hsp27 expression regulates PAN-induced cellular injury in an *in vitro* model of podocyte spreading and retraction. Department of Pediatrics Annual Research Symposium, University of Michigan, Ann Arbor, MI, 2000.
18. Jia Y, **Ransom RF**, Liu C, Smoyer WE, Welsh, MJ. Identification and analysis of hic-5 as an hsp27 binding protein. 6th Annual Midwest Stress Response and Chaperone Meeting. Evanston. IL, 2001.
19. Smoyer WE, **Ransom RF**. Hsp27 protects against PAN-induced cellular injury in an *in vitro* model of podocyte spreading and retraction. Society for Pediatric Research. Baltimore. MD, 2001.

20. Smoyer WE, **Ransom RF**. Hsp27-dependent dexamethasone protection against and enhanced recovery from PAN-induced podocyte injury. International Symposium on Podocyte Biology, Heidelberg, Germany, 2001.
21. Li Y, **Ransom RF**, Smoyer WE. Effect of toxic metals and metal mixtures on hsp27 expression and phosphorylation in cultured murine podocytes. American Society of Nephrology. San Francisco. CA, 2001.
22. Jia Y, **Ransom RF**, Welsh MJ, Smoyer WE. The glomerular hsp27-binding protein, hic-5, regulates hsp27-mediated actin polymerization. American Society of Nephrology. San Francisco. CA, 2001.
23. **Ransom RF**, Li Y, Lam NG, Smoyer WE. Dexamethasone induces hsp27-dependent protection against and enhances recovery from PAN-induced podocyte injury. American Society of Nephrology. San Francisco, CA, 2001.
24. Jia Y, **Ransom RF**, Smoyer WE, Welsh MJ. The role of hic-5 in focal adhesion formation and in hsp27-mediated actin filament stabilization. 20th Annual Cellular and Molecular Biology Graduate Program Fall Symposium, University of Michigan, Ann Arbor, MI, 2001.
25. Jia Y, **Ransom RF**, Welsh MJ, Smoyer WE. The role of hic-5 in focal adhesion formation and in hsp27-mediated actin filament stabilization. Department of Pediatrics Annual Research Symposium, University of Michigan, Ann Arbor, MI, 2001.
26. Li Y, **Ransom RF**, Smoyer WE. Effect of toxic metals and metal mixtures on hsp27 expression and phosphorylation in cultured murine podocytes. Department of Pediatrics Annual Research Symposium, University of Michigan, Ann Arbor, MI, 2001.
27. **Ransom RF**, Li Y, Lam N, Smoyer WE. Dexamethasone induces hsp27-dependent protection against and enhances recovery from PAN-induced podocyte injury. Department of Pediatrics Annual Research Symposium, University of Michigan, Ann Arbor, MI, 2001.
28. **Ransom RF**, Li Y, Lam N, Smoyer WE. Glucocorticoids protect and enhance recovery of podocytes from PAN-induced injury via an hsp27-dependent mechanism. Pediatric Academic Societies' Annual Meeting, Baltimore, MD, 2002.
29. **Ransom RF**, Li Y, Lam N, Smoyer WE. Glucocorticoids stabilize podocyte microfilaments protect and enhance recovery from PAN-induced injury. American Society of Nephrology. Philadelphia, PA, 2002.
30. Vega-Warner V, **Ransom RF**, Brosius FC, Smoyer WE. Induction of antioxidant enzyme activities in podocytes precedes injury in an *in vitro* PAN model. American Society of Nephrology. Philadelphia, PA, 2002.
31. Siu B, **Ransom RF**, Vega-Warner V, Smoyer WE, Brosius FC. High glucose causes podocyte apoptosis within 12 hours. American Society of Nephrology. American Society of Nephrology . Philadelphia, PA, 2002.
32. Vega-Warner V, **Ransom RF**, Brosius FC, Smoyer WE. Induction of antioxidant enzyme (AOE) activities in podocytes precedes injury by puromycin aminonucleoside (PAN) in an *in vitro* model. Department of Pediatrics Annual Research Symposium, University of Michigan, Ann Arbor, MI, 2002.
33. **Ransom RF**, Li Y, Lam N, Smoyer WE. Glucocorticoids protect and enhance recovery of podocytes from PAN-induced injury and stabilize podocyte microfilaments. Department of Pediatrics Annual Research Symposium, University of Michigan, Ann Arbor, MI, 2002.
34. Vega-Warner V, **Ransom RF**, Brosius FC, Smoyer WE. Podocyte antioxidant enzyme activity induction in an *in vitro* model of podocyte injury. FASEB Meeting San Diego, CA. 2003
35. Vega-Warner V, **Ransom RF**, Brosius FC, Smoyer WE. Antioxidant enzyme activity induction in murine podocytes precedes *in vitro* injury by puromycin aminonucleoside. Society for Pediatric Research. Seattle. 2003.
36. Li X, **Ransom RF**, Jia Y, Welsh MJ, Smoyer WE. Functional identification of the hsp27 binding protein sop2p. Department of Pediatrics Annual Research Symposium, University of Michigan, Ann Arbor, MI, 2003.

36. Eichler TE, **Ransom RF**, Smoyer WE. Single and multiple toxic metal exposure induces differential expression of heat shock proteins in cultured murine podocytes. Department of Pediatrics Annual Research Symposium, University of Michigan, Ann Arbor, MI, 2003.
37. **Ransom RF**, Smoyer WE, Klein J. Proteomic analysis of protein expression altered by glucocorticoids in cultured murine podocytes. Department of Pediatrics Annual Research Symposium, University of Michigan, Ann Arbor, MI, 2003.
38. Li X, **Ransom RF**, Jia Y, Welsh MJ, Smoyer WE. Functional identification of the hsp27 binding protein sop2p. American Society of Nephrology. San Diego, CA. 2003.
39. Eichler TE, **Ransom RF**, Smoyer WE. Single and multiple toxic metal exposure induces differential expression of heat shock proteins in cultured murine podocytes. American Society of Nephrology. San Diego, CA. 2003.
40. **Ransom RF**, Smoyer WE, Klein J. Proteomic analysis of protein expression altered by glucocorticoids in cultured murine podocytes. American Society of Nephrology. San Diego, CA. 2003.
41. Eichler T, Ma Q, Kelly C, Mishra J, Parikh S, **Ransom RF**, Devarajan P, Smoyer WE. Environmental toxic metals induce apoptosis in cultured murine podocytes via the Fas-Fadd caspase 8 pathway. Pediatric Academic Societies' Meeting. San Francisco, CA, 2004.
42. **Ransom RF**, Vega-Warner V, Smoyer WE, Klein J. Identification of proteins in cultured murine podocytes whose expression is altered by glucocorticoids. 5th Podocyte Conference, Seattle, WA, 2004.
43. **Ransom RF**, Vega-Warner V, Klein J, Smoyer WE. Increased hsp27 expression mimics the protection from injury and actin filament disruption caused by dexamethasone. American Society of Nephrology, St. Louis, 2004.
44. Eichler TE, **Ransom RF**, Smoyer WE. Role of metallothionein in toxic metal-induced injury to cultured podocytes. Pediatric Academic Societies' Annual Meeting, Washington, DC, 2005.
45. Vega-Warner V, Eichler TE, **Ransom RF**, Jia Y, Smoyer WE. Regulation of podocyte focal adhesion dynamics and actin polymerization by hic-5 in cultured murine podocytes. Pediatric Academic Societies' Annual Meeting, Washington, DC, 2005.
46. Vega-Warner V, Eichler TE, **Ransom RF**, Jia Y, Smoyer WE. Hic-5 regulates podocyte focal adhesion dynamics in two murine podocyte cell lines. American Society of Nephrology. Philadelphia, PA, 2005.
47. **Ransom RF**, Eichler TE, Smoyer WE. Increases in expression of hsp25 and α B-crystallin are associated with dexamethasone-induced protection of glomerular podocytes from puromycin aminonucleoside injury. Pediatric Academic Societies' Annual Meeting, San Francisco, CA, 2006.
48. Eichler TE, Streetman DS, Smoyer WE, **Ransom RF**. Inhibition of multiple drug resistance protein (ABCB1) in podocytes results in enhancement of protective effect of glucocorticoids. 6th International Podocyte Congress, Helsinki, Finland, 2006.
49. **Ransom RF**, Thornton A, Jia Y, Smoyer WE. Hsp27 interacts with both ArpC1a and ArpC1b in podocytes. 6th International Podocyte Congress, Helsinki, Finland, 2006.
50. **Ransom RF**, Eichler TE, Holthöfer H, Kuusniemi A-M, Jalanko H, Mundel P, Shirato I, Smoyer WE. Induction of glomerular Hsp27 represents a generalized podocyte stress response in both humans and animal models of nephrotic syndrome. American Society of Nephrology, San Diego, CA, 2006.
51. Thornton A, **Ransom RF**, Jia Y, Smoyer WE. Interaction of Hsp27 with Arp2/3 actin initiation complex homologs ArpC1a and ArpC1b in podocytes. American Society of Nephrology, San Diego, CA, 2006.
52. Eichler TE, Streetman DS, Smoyer WE, **Ransom RF**. Inhibition of multiple drug resistance pump (ABCB1) in podocytes enhances the protective effects of glucocorticoids. American Society of Nephrology, San Diego, CA, 2006.

53. **Ransom RF**, Eichler TE, Holthöfer H, Kuusniemi A-M, Jalanko H, Mundel P, Smoyer WE. Glomerular hsp27 induction represents a generalized podocyte stress response in both humans and animal models of nephrotic syndrome. Pediatric Academic Societies' Annual Meeting, Toronto, Canada, 2007.
54. **Ransom RF**, Eichler TE. β -Crystallin and hsp25 modulate the protective effects of glucocorticoids on podocytes. Pediatric Academic Societies' Annual Meeting, Toronto, Canada, 2007.
55. **Ransom RF**. Comparative podocytomics: Analyses of conditionally-immortalized lines of cultured podocytes. American Society of Nephrology, San Diego, CA, 2009.
56. **Ransom RF**. Differential expression of markers and responses to podocyte toxins and glucocorticoids in conditionally-immortalized cultured podocytes. International Podocyte Conference, Bristol, England, 2010.
57. Eichler, TE, Petrovic-Djergovic D, Chittiprol S, **Ransom RF**. Glucocorticoid action in experimental nephrotic syndrome is modulated by P-glycoprotein and can induce increased P-glycoprotein activity. International Podocyte Conference, Bristol, England, 2010.
58. Petrovic-Djergovic D, Chittiprol S, **Ransom RF**. Immunomodulation of puromycin aminonucleoside-induced nephrotic syndrome in rats. International Podocyte Conference, Bristol, England, 2010.
59. Petrovic-Djergovic D, Chittiprol S, Chen P, Eichler T, **Ransom RF** and The MWPNC. TIF2/SRC2 expression in blood leukocytes is a determinant of steroid response in pediatric idiopathic nephrotic syndrome: a Midwest Pediatric Nephrology Consortium study, American Society of Nephrology, Philadelphia, PA, 2011.
60. Petrovic-Djergovic D, Popovic M, Chittiprol S, Eichler T, Chen P, **Ransom RF**. Mifepristone is as effective as methylprednisolone as therapy for experimental nephrotic syndrome. International Podocyte Conference, Miami Beach, FL, 2012.
61. Petrovic-Djergovic D, Popovic M, Chittiprol S, Partida-Sanchez S, **Ransom RF**. Podocyte CXCL10 coordinates trafficking of interferon- γ -activated macrophages in puromycin aminonucleoside nephrosis in rats. International Podocyte Conference, Miami Beach, FL, 2012.
62. Chen P, Eichler T, Kuusniemi A-M, Jalanko H, Holthöfer H, Smoyer WE, Ransom RF. Protective effects of glomerular small heat shock proteins. International Podocyte Conference, Miami Beach, FL, 2012.
63. Petrovic-Djergovic D, Popovic M, Chittiprol S, Eichler T, Chen P, **Ransom RF**. Mifepristone is as effective as methylprednisolone as therapy for experimental nephrotic syndrome. American Society of Nephrology, San Diego, CA, 2012 [submitted].
64. Petrovic-Djergovic D, Popovic M, Chittiprol S, Partida-Sanchez S, **Ransom RF**. Secretion of CXCL10 by podocytes coordinates trafficking of interferon- γ -activated macrophages in puromycin aminonucleoside nephrosis in rats. American Society of Nephrology, San Diego, CA, 2012 [submitted].
65. Smoyer WS, Papp AC, Webb A, Popovic M, Benndorf R, Agrawal S, Sadee W, **Ransom RF**. Transcriptome sequencing identifies potential steroid resistance biomarkers in childhood nephrotic syndrome. American Society of Nephrology, San Diego, CA, 2012.

Last Revised: 12/03/13