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Date of birth September 10th, 1973
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01-10/2017 Diploma in Genetics (Austrian Medical Association)

11/2013 Habilitation (postdoctoral qualification): "Systembiologic Analyses of Renal Genexpression in Stable and Progressive Chronic Kidney Diseases"

02-03/2012 Visiting scientist/clinician at the Dept. of Nephrology and Dialysis at the Ospedali Riuniti di Bergamo, Italy, Dir. Prof. Giuseppe Remuzzi

02/2010 FASN – Fellow of the American Society of Nephrology

12/2009 until present Senior Nephrologist (Oberarzt)

11/2009 Certification in Nephrology (Austria)

11/2007-10/2009 Nephrology fellow at the Dept. of Internal Medicine IV - Nephrology and Hypertension at the University Hospital Innsbruck/Medical University Innsbruck

11/2007 Certification in Internal Medicine (Austria)

10/2001-10/2007 Internal Medicine fellow at the Division of Nephrology and at the Dept. of Internal Medicine at the University Hospital Innsbruck/Medical University Innsbruck

08-09/2001 Post-doctoral fellow at the Div. of Nephrology, Innsbruck

10/1993-05/2001 Medical School at the University of Vienna, Austria

12/1994-02/1999 Technician at the research laboratories of the Div. of Nephrology at the University Hospital of Vienna

10/1993-07/1994 Civil service at the University Hospital of Vienna

1988-1993 Technical highschool, division of biochemistry, biotechnology and genetic engineering (*Höhere Technische Bundeslehr- und versuchsanstalt für Biochemie, biochemische Technologie und Gentechnik*), Vienna

1984-1988 Gymnasium (high-school), Vienna

Research experience

- 2010-2012 Principal Investigator of the collaborative research project "PD-associated peritonitis – epidemiology and risk factors in Austrian centers"
- 2009-2014 Co-Investigator of the collaborative large scale integrating research project funded by the EU: "Systems Biology towards Novel Chronic Kidney Disease Diagnosis and Treatment (SysKid)", grant no. HEALTH-F2-2009-241544
- 2007-2012 Co-Investigator of the research project funded by the Fonds zur Förderung der wissenschaftlichen Forschung (FWF) "Functional significance of gene expression changes associated with renal ageing"
- 2002-2006 Supervising scientist of the research project funded by the Fonds zur Förderung der wissenschaftlichen Forschung (FWF) „Gene expression pattern in renal tubular epithelial cells obtained from patients with kidney diseases"
- 08-10/2001 Visiting scientist at Stanford University School of Medicine, Department of Nephrology, CA, USA. Main interest: "Gene expression profiling using cDNA microarrays"
- 1999-2001 MD-Thesis: "VDJ-recombination, somatic hypermutation, polymerase μ and their potential relationship to the mechanism of chromosomal translocation in follicular lymphoma", group of Prof.U.Jaeger, Division of Hematology, University of Vienna
- 1994-1999 Technical research assistant, group Dr.G.Cohen, Division of Nephrology (head: Prof.W.H.Hörl), Department of Internal Medicine III, University of Vienna (main research interest: isolation, characterisation and functional testing of uremic toxins from serum, HD-fluid and PD-fluid from uremic patients)

Participation in sponsored studies

A Randomized, Double-Blind, Placebo-Controlled, Phas 3 Study to Evaluate the Safety and Efficacy of CCX168 (Avacopan) in Patients with ANCA-Associated Vasculitis Treated Concomitantly with Rituximab or Cyclophosphamide/Azathioprin (*sub-investigator*)

Study of Diabetic Nephropathy with Atrasentan (SONAR) NCT01858532 (*sub-investigator*)

A Study to Evaluate the Safety and Efficacy of CCX168 in Subjects With ANCA-Associated Renal Vasculitis NCT01363388 (*primary investigator*)

CONNECT: Evaluation of the Benefits and Risks in Maintenance Renal Transplant Recipients Following Conversion to Nulojix® (belatacept)-based Immunosuppression NCT01820572 (*sub-investigator*)

ARTS-DN: Safety and Efficacy of Different Oral Doses of BAY94-8862 in Subjects With Type 2 Diabetes Mellitus and the Clinical Diagnosis of Diabetic Nephropathy NCT01874431 (*sub-investigator*)

FIND-CKD: Ferric Carboxymaltose Assessment in Subjects With Iron Deficiency Anaemia and Non-dialysis-dependent CKD NCT00994318 (*sub-investigator*)

A multicenter, randomized, placebo-controlled, double-blind study on the efficacy, safety and tolerability of Certican in preventing end-stage renal disease (ESRD) in

patients with autosomal dominant polycystic kidney disease (ADPKD) NCT00414440
(*sub-investigator*)

The Effect of Sulodexide in Overt Type 2 Diabetic Nephropathy NCT00130312 (*sub-investigator*)

The Effect of Sulodexide in Patients with Type 2 Diabetes and Microalbuminuria NCT00130208 (*sub-investigator*)

Clinical experience

- Since 2015 Clinical focus an “Rare Diseases” with emphasis on renal diseases
- 08/2015 American Heart Association Certificate: Advanced Cardiovascular Life Support Course (Schockraummanagement Kurs)
- 02-03/2012 Visiting clinician at the Dept. of Nephrology and Dialysis at the Ospedali Riuniti di Bergamo, Italy, Dir. Prof. Giuseppe Remuzzi; Main interest: “*Remission Clinic (Chronic Kidney Disease)*” and “*Rituximab in the treatment of nephrotic diseases such as Membranous Nephropathy, Minimal Change Disease and Focal-segmental Glomerulosclerosis*”
- 03/2011 ERA-EDTA Introductory Course in Epidemiology, Salzburg, Austria
- 2009 until present Senior Nephrologist (Oberarzt)
- 2007-2009 Fellowship in Nephrology (Additivfacharzt für Nephrologie)
- 2001-2007 Fellowship in Internal Medicine (Facharzt für Innere Medizin)
- 03/2009 Nephrology 2009 course (Harvard Medical School, Boston, MA, USA)
- 09/2007 ERA-EDTA Introductory Course in Epidemiology, Leiden, the Netherlands
- 02/2005 Seminar on conducting phase III and IV clinical trials, Medical University Innsbruck, Austria
- 02/2003 CAPD course Amsterdam Medical University, the Netherlands
- 09/2002 European society of hypertension summer school, Glasgow, United Kingdom
- Special clinical interest: chronic kidney diseases and progression markers (biomarkers), nephrotic syndrome, hypertension, continuous ambulatory peritoneal dialysis, epidemiology

Teaching experience as tutor –Medical University Innsbruck

- Bedside teaching in Internal Medicine (students in the 5th and 6th year of medical school)
- Seminar in Evidence Based Medicine (students in 2nd year of medical school)
- Seminars in problem-based learning (PBL) in nephrology (students in 3rd year of medical school)
- Nephrology for dietitians and nurses

Memberships

ÖGN – Österreichische Gesellschaft für Nephrologie (Austrian Society of Nephrology)
Österreichische Gesellschaft für Hypertensiologie (Austrian Society of Hypertension)
DGfN – Deutsche Gesellschaft für Nephrologie (German Society of Nephrology)
ASN - American Society of Nephrology (Fellow of the ASN)
ISN – International Society of Nephrology
ERA-EDTA – European Renal Association – European Dialysis and Transplant Association
ESOT – European Society for Organ Transplantation

Original manuscripts

50. Loeschenberger B, Niess L, Würzner R, Schwelberger H, Eder IE, Pühr M, Guenther J, Troppmair J, **Rudnicki M**, Neuwirt H. Calcineurin inhibitor induced complement system activation via MAPK signaling is inhibited by SOCS-3. *Eur J Immunol.* 2017 *in press*
49. Bösmüller C, Messner F, Margreiter C, **Rudnicki M**, Öllinger R, Öfner D, Schneeberger S, Maglione M. Outcome in Pancreas Grafts After BK Virus Viremia in Simultaneous Pancreas-Kidney Transplants: A Single-Center Case Report. *Transplant Direct.* 2017 Apr 13;3(5):e154.
48. **Rudnicki M**. Rituximab for treatment of membranoproliferative glomerulonephritis and C3 glomerulopathies. *Biomed Res Int.* 2017;2017:2180508.
47. Zanchi C, Macconi D, Trionfini P, Tomasoni S, Rottoli D, Locatelli L, **Rudnicki M**, Vandesompele J, Mestdagh P, Remuzzi G, Benigni A, Zoja C. MicroRNA-184 is a down-stream effector of albuminuria in driving renal fibrosis in rats with diabetic nephropathy. *Diabetologia.* 2017 Jun;60(6):1114-1125.
46. Khurana R, Ranches G, Schafferer S, Lukasser M, **Rudnicki M**, Mayer G, Hüttenhofer A. Identification of urinary exosomal non-coding RNAs as novel biomarkers in Chronic Kidney Disease. *RNA.* 2017 Feb;23(2):142-152.
45. **Rudnicki M**, Mayr JA, Zschocke J, Antretter H, Regele H, Feichtinger RG, Windpessl M, Mayer G, Pözl G. MELAS Syndrome and Kidney Disease Without Fanconi Syndrome or Proteinuria: A Case Report. *Am J Kidney Dis* 2016 Dec;68(6):949-953.
44. **Rudnicki M**. FSGS Recurrence in Adults after Renal Transplantation. *Biomed Res Int.* 2016;2016:3295618.
43. Leierer J, **Rudnicki M**, Braniff SJ, Perco P, Koppelstaetter C, Mühlberger I, Eder S, Kerschbaum J, Schwarzer C, Schroll A, Weiss G, Schneeberger S, Wagner S, Königsrainer A, Böhmig GA, Mayer G. *Nephrol Dial Transplant.* 2016 Sep;31(9):1444-52.
42. **Rudnicki M**, Perco P, D'haene B, Leierer J, Heinzl A, Mühlberger I, Schweibert N, Sunzenauer J, Regele H, Kronbichler A, Mestdagh P, Vandesompele J, Mayer B, Mayer G. Renal microRNA- and RNA-profiles in progressive chronic kidney disease. *Eur J Clin Invest.* 2016 Mar;46(3):213-26.
41. Kronbichler A, Kerschbaum J, Gründlinger G, Leierer J, Mayer G, **Rudnicki M**. Evaluation and validation of biomarkers in granulomatosis with polyangiitis and microscopic polyangiitis. *Nephrol Dial Transplant.* 2015 Sep 26. pii: gfv336.
40. **Rudnicki M**, Beckers A, Neuwirt H, Vandesompele J. RNA expression signatures and posttranscriptional regulation in diabetic nephropathy. *Nephrol Dial Transplant.* 2015 Aug;30 Suppl 4:iv35-42.
39. Kronbichler A, Gut N, Zwerina J, Neuwirt H, **Rudnicki M**, Mayer G. Extending the spectrum of a chameleon: IgG4-related disease appearing as interstitial nephritis and mimicking anti-neutrophil cytoplasmic antibody-associated vasculitis. *Rheumatology (Oxford).* 2015 Jul 9.

38. Biegstraaten M, Arngrímsson R, Barbey F, Boks L, Cecchi F, Deegan PB, Feldt-Rasmussen U, Geberhiwot T, Germain DP, Hendriksz C, Hughes DA, Kantola I, Karabul N, Lavery C, Linthorst GE, Mehta A, van de Mheen E, Oliveira JP, Parini R, Ramaswami U, **Rudnicki M**, Serra A, Sommer C, Sunder-Plassmann G, Svarstad E, Sweeb A, Terryn W, Tylki-Szymanska A, Tøndel C, Vujkovic B, Weidemann F, Wijburg FA, Woolfson P, Hollak CE. Recommendations for initiation and cessation of enzyme replacement therapy in patients with Fabry disease: the European Fabry Working Group consensus document. *Orphanet J Rare Dis.* 2015 Mar 27;10(1):36.
37. Neuwirt H, Perco P, Kainz A, Mühlberger I, Leierer J, Noppert SJ, Mayer B, Mayer G, **Rudnicki M**. A 3-biomarker-panel predicts renal outcome in patients with proteinuric renal diseases. *BMC Med Genomics.* 2014 Dec 24;7(1):4.
36. Kern G, Mair S, Noppert SJ, Jennings P, Schramek H, **Rudnicki M**, Mueller GA, Mayer G, Koppelstaetter C. Tacrolimus increases nox4 expression in human renal fibroblasts and induces fibrosis-related genes by aberrant tgf-Beta receptor signalling. *PLoS One.* 2014 May 9;9(5):e96377.
35. Kronbichler A, Kerschbaum J, Fernandez-Fresnedo G, Hoxha E, Kurschat CE, Busch M, Bruchfeld A, Mayer G, **Rudnicki M**. A systematic review of rituximab treatment for relapsing minimal change disease and focal segmental glomerulosclerosis. *Am J Nephrol.* 2014 Apr 15;39(4):322-330.
34. Ruggenti P, Ruggiero B, Cravedi P, Vivarelli M, Massella L, Marasà M, Chianca A, Rubis N, Ene-Iordache B, **Rudnicki M**, Pollastro RM, Capasso G, Pisani A, Pennesi M, Emma F, Remuzzi G. Rituximab in Steroid-Dependent or Frequently Relapsing Idiopathic Nephrotic Syndrome. *J Am Soc Nephrol.* 2014 Apr;25(4):850-63.
33. Bartel T, Bonaros N, Edlinger M, Velik-Salchner C, Feuchtnner G, **Rudnicki M**, Müller S. Intracardiac Echo and Reduced Radiocontrast Requirements During TAVR. *JACC Cardiovasc Imaging.* 2014 Mar;7(3):319-20.
32. Kronbichler A, Kerschbaum J **Rudnicki M**. Induction regimens for ANCA-Associated Vasculitis. *N Engl J Med.* 2013 Nov 7;369(19):1864. (comment)
31. Kerschbaum J, Vychytil A, Lhotta K, Prischl FC, Wiesholzer M, Machhold-Fabrizii V, Kopriva-Altfahrt G, Schwarz C, Balcke P, Oberbauer R, Kramar R, König P, **Rudnicki M**. Treatment with oral active vitamin D is associated with decreased risk of peritonitis and improved survival in patients on peritoneal dialysis. *PLoS One.* 2013;8(7): e67836.
30. Kronbichler A, König P, Busch M, Wolf G, Mayer G, **Rudnicki M**. Rituximab in Adult Patients with Multi-Relapsing/Steroid-Dependent Minimal Change Disease and Focal Segmental Glomerulosclerosis: A report of 5 cases. *Wien Klin Wochenschr.* 2013 Apr 27.
29. Zitt E, König M, Vychytil A, Auinger M, Wallner M, Lingenhel G, Schilcher G, **Rudnicki M**, Salmhofer H, Lhotta K. Use of sodium thiosulphate in a multi-interventional setting for the treatment of calciphylaxis in dialysis patients. *Nephrol. Dial. Transplant.* 2013 May;28(5):1232-40.
28. Poelzl G, Ess M, Von der Heidt A, **Rudnicki M**, Frick M, Ulmer H. Concomitant renal and hepatic dysfunctions in chronic heart failure: Clinical implications and prognostic significance. *Eur J Intern Med.* 2013 Mar;24(2):177-82.
27. Kerschbaum J, König P, **Rudnicki M**. Risk Factors Associated with Peritoneal Dialysis-Related Peritonitis. *Int J Nephrol.* 2012;2012:483250.
26. Neuwirt H, Eder I, Pühr M, **Rudnicki M**. SOCS-3 is down-regulated in progressive CKD patients and regulates proliferation in human renal proximal tubule cells in a STAT1/-3 independent manner. *Lab Invest.* 2013 Jan;93(1):123-34.
25. **Rudnicki M**, Perco P, Neuwirt H, Noppert SJ, Leierer J, Sunzenauer J, Eder S, Zoja C, Eller K, Rosenkranz AR, Müller GA, Mayer B, Mayer G. Increased Renal Versican Expression Is Associated With Progression of Chronic Kidney Disease. *PLoS One.* 2012;7(9):e44891.

24. Kirsch AH, Riegelbauer V, Tagwerker A, **Rudnicki M**, Rosenkranz AR, Eller K. The mTOR-inhibitor Rapamycin mediates proteinuria in nephrotoxic serum nephritis by activating the innate immune response. *Am J Physiol Renal Physiol*. 2012 Aug;303(4):F569-75.
23. Hellemons ME, Kerschbaum J, Bakker SJL, Neuwirt H, Mayer B, Mayer G, de Zeeuw D, Lambers Heerspink HJ, **Rudnicki M**. Validity of Biomarkers Predicting Onset or Progression of Nephropathy in Patients with Type 2 Diabetes: A Systematic Review. *Diabet Med*. 2012 May;29(5):567-77.
22. Neuwirt H, **Rudnicki M**, Schramek H, Mayer G. Monoclonal light chains and the kidney. *Nephrology Reviews* 2011 volume 3:e3
21. Noppert SJ, Eder S, **Rudnicki M**. Laser-Capture Microdissection of Renal Tubule Cells and Linear Amplification of RNA for Microarray Profiling and Real-Time PCR. *Methods Mol Biol*. 2011;755:257-66.
20. Kerschbaum J, König P, Hausdorfer J, Mayer G, **Rudnicki M**. Sevelamer use and incidence of peritonitis in peritoneal dialysis. *Wien Klin Wochenschr*. 2011 Mar 28.
19. **Rudnicki M**, Kerschbaum J, Hausdorfer J, Mayer G, Koenig P. Risk factors for peritoneal dialysis-associated peritonitis: The role of oral active vitamin D. *Perit Dial Int*. 2010 Sep;30(5):541-548.
18. Kopriva-Altfahrt G, König P, Mündle M, Prischl F, Roob JM, Wiesholzer M, Vychytil A; Austrian Study Group for Prevention of Peritoneal Catheter-Associated Infections, Arneitz K, Karner A, Artes R, Wolf E, Auinger M, Pawlak A, Fraberger J, Hofbauer S, Galvan G, Salmhofer H, Pichler B, Wazel M, Gruber M, Thonhofer A, Hager A, Malajner S, Heiss S, Braunsteiner T, Zweiffler M, König P, **Rudnicki M**, Kogler R, Kohlhauser D, Wiesinger T, Kopriva-Altfahrt G, Moser E, Kotanko P, Loibner H, Nitz H, Miska HJ, Wenzel R, Wölfer M, Mündle M, Breuss H, Hölzl B, Prischl F, Schmekal B, Riener EM, Roob JM, Wonisch W, Vykýdal R, Vychytil A, Frank B, Wieser C, Wiesholzer M, Pokorny K. Exit-site care in Austrian peritoneal dialysis centers -- a nationwide survey. *Perit Dial Int*. 2009 May-Jun;29(3):330-9.
17. Schramek H, Sarközi R, Lauterberg C, Kronbichler A, Pirklbauer M, Albrecht R, Noppert SJ, Perco P, **Rudnicki M**, Strutz FM, Mayer G. Neuropilin-1 and neuropilin-2 are differentially expressed in human proteinuric nephropathies and cytokine-stimulated proximal tubular cells. *Lab Invest*. 2009 Sep 7.
16. **Rudnicki M**, Mayer G. Significance of genetic polymorphisms of the renin-angiotensin-aldosterone system in cardiovascular and renal disease. *Pharmacogenomics*. 2009 Mar;10(3):463-76.
15. Hochegger K, **Rudnicki M**, Auinger M, Mark W, Margreiter R, Mayer G, Rosenkranz AR. Fever of unknown origin in renal transplant patients with tacrolimus. *Clin Transplant*. 2009 Aug;23(4):575-9.
14. **Rudnicki M**, Perco P, Enrich J, Eder S, Heining D, Bernthaler A, Wiesinger M, Sarközi R, Noppert SJ, Schramek H, Mayer B, Oberbauer R, Mayer G. Hypoxia response and VEGF-A expression in human proximal tubular epithelial cells in stable and progressive renal disease. *Lab Invest*. 2009 Jan 12.
13. Sarközi R, Perco P, Hochegger K, Enrich J, Wiesinger M, Pirklbauer M, Eder S, **Rudnicki M**, Rosenkranz AR, Mayer B, Mayer G, Schramek H. Bortezomib-Induced Survival Signals and Genes in Human Proximal Tubular Cells. *J Pharmacol Exp Ther*. 2008 Dec;327(3):645-56.
12. Perco P, Wilflingseder J, Bernthaler A, Wiesinger M, **Rudnicki M**, Wimmer B, Mayer B, Oberbauer R. Biomarker candidates for cardiovascular disease and bone metabolism disorders in chronic kidney disease: a systems biology perspective. *J Cell Mol Med*. 2008 Aug;12(4):1177-87.
11. Hochegger K, Perco P, Enrich J, Mayer B, Mayer G, Rosenkranz AR, **Rudnicki M**. In vitro--transcriptional response of polymorphonuclear leukocytes following contact with different antigens. *Eur J Clin Invest*. 2007 Nov;37(11):860-9.
10. **Rudnicki M**, Eder S, Perco P, Enrich J, Scheiber K, Koppelstätter C, Schratzberger G, Mayer B, Oberbauer R, Meyer TW, Mayer G. Gene expression profiles of human proximal tubular epithelial cells in proteinuric nephropathies. *Kidney Int*. 2007 Feb;71(4):325-35.

9. **Rudnicki M**, Eder S, Schratzberger G, Mayer B, Meyer TW, Tonko M, Mayer G. Reliability of t7-based mRNA linear amplification validated by gene expression analysis of human kidney cells using cDNA microarrays. *Nephron Exp Nephrol*. 2004;97(3):e86-95.
8. Cohen G, **Rudnicki M**, Deicher R, Hörl WH. Immunoglobulin light chains modulate polymorphonuclear leucocyte apoptosis. *Eur J Clin Invest*. 2003 Aug;33(8):669-76.
7. **Rudnicki M**, Mayer G. Pharmacogenomics of angiotensin converting enzyme inhibitors in renal disease--pathophysiological considerations. *Pharmacogenomics*. 2003 Mar;4(2):153-62.
6. Cohen G, **Rudnicki M**, Schmal Dienst S, Hörl WH. Effect of dialysis on serum/plasma levels of free immunoglobulin light chains in end-stage renal disease patients. *Nephrol Dial Transplant*. 2002 May;17(5):879-83.
5. Nadel B, Marculescu R, Le T, **Rudnicki M**, Böcskő S, Jäger U. Novel insights into the mechanism of t(14;18)(q32;q21) translocation in follicular lymphoma. *Leuk Lymphoma*. 2001 Nov-Dec;42(6):1181-94.
4. Cohen G, **Rudnicki M**, Walter F, Niwa T, Hörl WH. Glucose-modified proteins modulate essential functions and apoptosis of polymorphonuclear leukocytes. *J Am Soc Nephrol*. 2001 Jun;12(6):1264-71.
3. Cohen G, **Rudnicki M**, Hörl WH. Uremic toxins modulate the spontaneous apoptotic cell death and essential functions of neutrophils. *Kidney Int Suppl*. 2001 Feb;78:S48-52.
2. Cohen G, **Rudnicki M**, Hörl WH. Isolation of modified ubiquitin as a neutrophil chemotaxis inhibitor from uremic patients. *J Am Soc Nephrol*. 1998 Mar;9(3):451-6.
1. Cohen G, **Rudnicki M**, Hörl WH. A peptide isolated from a patient on continuous ambulatory peritoneal dialysis has homology to ubiquitin and inhibits the chemotactic response of polymorphonuclear leukocytes. *Miner Electrolyte Metab*. 1997;23(3-6):210-3.

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6-Nov-17

Priv.-Doz. Dr. Michael Rudnicki, FASN