

Curriculum Vitae

Name: Ing. Dr. Alexander Werner Kainz
Geburtsdatum: 28. Dezember 1970
Geburtsort: Wien
Staatsbürgerschaft: Österreich

Ausbildung:

1977 – 1981 Volksschule
1981 – 1985 Bundesrealgymnasium, Bernoullistraße 1, 1220 Wien
1985 – 1990 Höhere Technische Bundeslehranstalt, Abteilung Nachrichtentechnik
Donaustadtstraße 45, 1220 Wien
8. Juni 1990 Matura mit ausgezeichnetem Erfolg

Präsenzdienst:

2. Juli 1990 – 28. Februar 1991

Ferialpraxis:

Juli 1986,
Juli 1987,
Juli 1988,
August 1989 Programmierer bei Siemens AG Österreich, 1030 Wien

3. April 1991 – 31. Juli 1991 Programmierer bei Siemens AG Österreich, 1030 Wien

Juli 1996 Entwicklung von Leiterplatten bei Siemens AG Österreich, 1030 Wien

September 1998 Angestellt bei Novartis Austria GmbH
Entwicklung von PCR (Polymerase-Kettenreaktion) Techniken

Studium:

Oktober 1991 –
Oktober 1998 Studienzweig: Mikrobiologie
Diplomarbeit: Molekularbiologische und chemotaxonomische
Charakterisierung von Pasteurellen.

November 1998 –
27. Juni 2003 Dissertation:
Untersuchungen zur Bildung und Freisetzung von Poly- β -
Hydroxybutyrat in *Escherichia coli*

Prüfung mit ausgezeichnetem Erfolg bestanden

Auslandsaufenthalt:

Oktober 1997 2 Wochen an der TU Freising (München, Deutschland):
FTIR Analyse von Pasteurella

1. Februar 2001 –
5. Mai 2001 Austauschwissenschaftler an der James Madison University
(Harrisonburg, Virginia, USA).
Analyse von der Lyse von *Escherichia coli* und Freisetzung von PHB
mit Atomic force microscopy (AFM)

Projekte:

November 1998 –
Jänner 2003 BIRD-C (Biotech Innovation Research Development & Consulting)

Oktober 2003-
September 2009 Dienstvertrag mit FWF
Projekt P15679: Prävention des postischämischen akuten
Transplantatversagens

Oktober 2009-
Dezember 2010 Emergentec Biodevelopment GmbH

Jänner 2010-
September 2014 EU-Projekt Nr. 241544
HEALTH-2009-2.4.5-2: Cellular and molecular mechanisms of the
development of chronic kidney disease (CKD)

seit Oktober 2014 Assistentenstelle an der Medizinischen Universität Wien

Computererfahrung:

Netzwerk Administration,
Programmiersprachen: C++, TurboPascal, Perl, Mathematica, R, SAS, SPSS, HTML, PHP
Microsoft Office Paket (inklusive Makroprogrammierung)
Kenntnisse in Unix, Windows 98 – Vista
Molekularbiologisches / phylogenetisches Programmpaket GCG

Fremdsprachen:

Englisch, Französisch

Publikationen:

Erstautorenschaft

9. Kainz A, Goliash G, Wiesbauer F, Binder T, Maurer G, Nesser HJ, Mascherbauer R, Ebner C, Kramar R, Wilflingseder J, Oberbauer R. Left atrial diameter and survival among renal allograft recipients. *Clin J Am Soc Nephrol*, 2013. **8**(12): 2100-2105.
8. Kainz A, Wilflingseder J, Fugger R, Kramar R, Oberbauer R. Hemoglobin variability after renal transplantation is associated with mortality. *Transpl Int*, 2012. **25**(3): 323-327.
7. Kainz A, Wilflingseder J, Mitterbauer C, Haller M, Burghuber C, Perco P, Langer RM, Heinze G, Oberbauer R. Steroid pretreatment of organ donors to prevent postischemic renal allograft failure: a randomized, controlled trial. *Ann Intern Med*, 2010. **153**(4): 222-230.
6. Kainz A, Mayer B, Kramar R, Oberbauer R. Association of ESA hypo-responsiveness and haemoglobin variability with mortality in haemodialysis patients. *Nephrol Dial Transplant*, 2010. **25**(11): 3701-3706.
5. Kainz A, Korbely R, Soleiman A, Mayer B, Oberbauer R. Antithymocyte globulin use for treatment of biopsy confirmed acute rejection is associated with prolonged renal allograft survival. *Transpl Int*, 2010. **23**(1): 64-70.
4. Kainz A, Heinze G, Korbely R, Schwarz C, Oberbauer R. Mycophenolate mofetil use is associated with prolonged graft survival after kidney transplantation. *Transplantation*, 2009. **88**(9): 1095-1100.
3. Kainz A, Perco P, Mayer B, Soleiman A, Steininger R, Mayer G, Mitterbauer C, Schwarz C, Meyer TW, Oberbauer R. Gene-expression profiles and age of donor kidney biopsies obtained before transplantation distinguish medium term graft function. *Transplantation*, 2007. **83**(8): 1048-1054.
2. Kainz A, Mitterbauer C, Hauser P, Schwarz C, Regele HM, Berlakovich G, Mayer G, Perco P, Mayer B, Meyer TW, Oberbauer R. Alterations in gene expression in cadaveric vs. live donor kidneys suggest impaired tubular counterbalance of oxidative stress at implantation. *Am J Transplant*, 2004. **4**(10): 1595-1604.
1. Kainz A, Lubitz W, Busse HJ. Genomic fingerprints, ARDRA profiles and quinone systems for classification of *Pasteurella sensu stricto*. *Syst Appl Microbiol*, 2000. **23**(4): 494-503.

Koautorenschaft

38. Wilflingseder J, Reindl-Schwaighofer R, Sunzenauer J, Kainz A, Heinzl A, Mayer B, Oberbauer R. MicroRNAs in kidney transplantation. *Nephrol Dial Transplant*, 2015. **30**(6): 910-917.
37. Neuwirt H, Perco P, Kainz A, Muhlberger I, Leierer J, Braniff SJ, Mayer B, Mayer G, Rudnicki M. A 3-biomarker-panel predicts renal outcome in patients with proteinuric renal diseases. *BMC Med Genomics*, 2014. **7**: 75.
36. Wilflingseder J, Sunzenauer J, Toronyi E, Heinzl A, Kainz A, Mayer B, Perco P, Telkes G, Langer RM, Oberbauer R. Molecular Pathogenesis of Post-Transplant Acute Kidney Injury: Assessment of Whole-Genome mRNA and MiRNA Profiles. *PLoS One*, 2014. **9**(8): e104164.
35. Boehm A, Sperr WR, Kalhs P, Greinix H, Valent P, Worel N, Kainz A, Mitterbauer M, Bojic M, Rabitsch W. Long-term follow-up after allogeneic stem cell

- transplantation in patients with myelodysplastic syndromes or secondary acute myeloid leukemia: a single center experience. *Wien Klin Wochenschr*, 2014. **126**(1-2): 23-29.
34. Wilflingseder J, Regele H, Perco P, Kainz A, Soleiman A, Muhlbacher F, Mayer B, Oberbauer R. miRNA profiling discriminates types of rejection and injury in human renal allografts. *Transplantation*, 2013. **95**(6): 835-841.
 33. Hecking M, Kainz A, Werzowa J, Haidinger M, Doller D, Tura A, Karaboyas A, Horl WH, Wolzt M, Sharif A, Roden M, Moro E, Pacini G, Port FK, Saemann MD. Glucose metabolism after renal transplantation. *Diabetes Care*, 2013. **36**(9): 2763-2771.
 32. Hecking M, Kainz A, Bielesz B, Plischke M, Beilhack G, Horl WH, Sunder-Plassmann G, Bieglmayer C. Clinical evaluation of two novel bioactive PTH(1-84) assays in hemodialysis patients. *Clin Biochem*, 2012. **45**(18): 1645-1651.
 31. Haller M, Amatschek S, Wilflingseder J, Kainz A, Bielesz B, Pavik I, Serra A, Mohebbi N, Biber J, Wagner CA, Oberbauer R. Sirolimus induced phosphaturia is not caused by inhibition of renal apical sodium phosphate cotransporters. *PLoS One*, 2012. **7**(7): e39229.
 30. Amatschek S, Wilflingseder J, Pones M, Kainz A, Bodingbauer M, Muhlbacher F, Langer RM, Gerlei Z, Oberbauer R. The effect of steroid pretreatment of deceased organ donors on liver allograft function: a blinded randomized placebo-controlled trial. *J Hepatol*, 2012. **56**(6): 1305-1309.
 29. Parmar S, Stingl JC, Huber-Wechselberger A, Kainz A, Renner W, Langsenlehner U, Krippel P, Brockmoller J, Haschke-Becher E. Impact of UGT2B7His268Tyr polymorphism on the outcome of adjuvant epirubicin treatment in breast cancer. *Breast Cancer Res*, 2011. **13**(3): R57.
 28. Kristo I, Wilflingseder J, Kainz A, Marschalek J, Wekerle T, Muhlbacher F, Oberbauer R, Bodingbauer M. Effect of intraportal infusion of tacrolimus on ischaemic reperfusion injury in orthotopic liver transplantation: a randomized controlled trial. *Transpl Int*, 2011. **24**(9): 912-919.
 27. Korbely R, Wilflingseder J, Perco P, Kainz A, Langer RM, Mayer B, Oberbauer R. Molecular biomarker candidates of acute kidney injury in zero-hour renal transplant needle biopsies. *Transpl Int*, 2011. **24**(2): 143-149.
 26. Hecking M, Kainz A, Horl WH, Herkner H, Sunder-Plassmann G. Sodium setpoint and sodium gradient: influence on plasma sodium change and weight gain. *Am J Nephrol*, 2011. **33**(1): 39-48.
 25. Wilflingseder J, Kainz A, Muhlberger I, Perco P, Langer R, Kristo I, Mayer B, Oberbauer R. Impaired metabolism in donor kidney grafts after steroid pretreatment. *Transpl Int*, 2010. **23**(8): 796-804.
 24. Wiesbauer F, Heinze G, Regele H, Horl WH, Schernthaner GH, Schwarz C, Kainz A, Kramar R, Oberbauer R. Glucose control is associated with patient survival in diabetic patients after renal transplantation. *Transplantation*, 2010. **89**(5): 612-619.
 23. Stingl JC, Parmar S, Huber-Wechselberger A, Kainz A, Renner W, Seeringer A, Brockmoller J, Langsenlehner U, Krippel P, Haschke-Becher E. Impact of CYP2D6*4 genotype on progression free survival in tamoxifen breast cancer treatment. *Curr Med Res Opin*, 2010. **26**(11): 2535-2542.
 22. Haschke-Becher E, Kirchheiner J, Trummer O, Grunbacher G, Kainz A, Boehm BO, Marz W, Renner W. Impact of CYP2C8 and 2C9 polymorphisms on coronary artery disease and myocardial infarction in the LURIC cohort. *Pharmacogenomics*, 2010. **11**(10): 1359-1365.

21. Bodingbauer M, Pakrah B, Kristo I, Marschalek J, Burghuber C, Gyori G, Kainz A, Rasoul-Rockenschaub S, Klaushofer K, Muehlbacher F, Oberbauer R. Non-persistent effect of short-term bisphosphonate treatment in preventing fractures after liver transplantation. *Transpl Int*, 2010. **23**(1): 118-120.
20. Wilflingseder J, Kainz A, Perco P, Mayer B, Oberbauer R. Biocompatibility of peritoneal dialysis solutions determined by genomics of human leukocytes: a cross-over study. *Nephrol Dial Transplant plus*, 2009. **2**: 510-512.
19. Wilflingseder J, Kainz A, Perco P, Korbely R, Mayer B, Oberbauer R. Molecular predictors for anaemia after kidney transplantation. *Nephrol Dial Transplant*, 2009. **24**(3): 1015-1023.
18. Perco P, Kainz A, Wilflingseder J, Soleiman A, Mayer B, Oberbauer R. Histogenomics: association of gene expression patterns with histological parameters in kidney biopsies. *Transplantation*, 2009. **87**(2): 290-295.
17. Obermayr RP, Temml C, Gutjahr G, Kainz A, Klauser-Braun R, Fugger R, Oberbauer R. Body mass index modifies the risk of cardiovascular death in proteinuric chronic kidney disease. *Nephrol Dial Transplant*, 2009. **24**(8): 2421-2428.
16. Heinze G, Oberbauer R, Kainz A, Mitterbauer C, Koppelstaetter C, Horl WH, Mayer G. Calcineurin inhibitor-based immunosuppressive therapy, donor age, and long-term outcome after kidney transplantation. *Transplantation*, 2009. **87**(12): 1821-1829.
15. Heinze G, Kainz A, Horl WH, Oberbauer R. Mortality in renal transplant recipients given erythropoietins to increase haemoglobin concentration: cohort study. *BMJ*, 2009. **339**: b4018.
14. Wilflingseder J, Perco P, Kainz A, Korbely R, Mayer B, Oberbauer R. Biocompatibility of haemodialysis membranes determined by gene expression of human leukocytes: a crossover study. *Eur J Clin Invest*, 2008. **38**(12): 918-924.
13. Mitterbauer C, Heinze G, Kainz A, Kramar R, Horl WH, Oberbauer R. ACE-inhibitor or AT2-antagonist therapy of renal transplant recipients is associated with an increase in serum potassium concentrations. *Nephrol Dial Transplant*, 2008. **23**(5): 1742-1746.
12. Misof BM, Bodingbauer M, Roschger P, Wekerle T, Pakrah B, Haas M, Kainz A, Oberbauer R, Muehlbacher F, Klaushofer K. Short-term effects of high-dose zoledronic acid treatment on bone mineralization density distribution after orthotopic liver transplantation. *Calcif Tissue Int*, 2008. **83**(3): 167-175.
11. Koppelstaetter C, Schratzberger G, Perco P, Hofer J, Mark W, Ollinger R, Oberbauer R, Schwarz C, Mitterbauer C, Kainz A, Karkoszka H, Wiecek A, Mayer B, Mayer G. Markers of cellular senescence in zero hour biopsies predict outcome in renal transplantation. *Aging Cell*, 2008. **7**(4): 491-497.
10. Hecking M, Kainz A, Schillinger M, Posch C, Birsan T, Rasoul-Rockenschaub S, Bohmig GA, Schmaldienst S, Watschinger B, Horl WH, Muehlbacher F, Saemann MD. Analysis of liver function in renal transplant recipients undergoing C2-monitoring for cyclosporine. *Transpl Int*, 2008. **21**(3): 223-233.
9. Perco P, Pleban C, Kainz A, Lukas A, Mayer B, Oberbauer R. Gene expression and biomarkers in renal transplant ischemia reperfusion injury. *Transpl Int*, 2007. **20**(1): 2-11.
8. Perco P, Pleban C, Kainz A, Lukas A, Mayer G, Mayer B, Oberbauer R. Protein biomarkers associated with acute renal failure and chronic kidney disease. *Eur J Clin Invest*, 2006. **36**(11): 753-763.
7. Perco P, Blaha P, Kainz A, Mayer B, Hauser P, Wekerle T, Oberbauer R. Molecular signature of mice T lymphocytes following tolerance induction by allogeneic BMT and CD40-CD40L costimulation blockade. *Transpl Int*, 2006. **19**(2): 146-157.

6. Heinze G, Collins S, Benedict MA, Nguyen LL, Kramar R, Winkelmayr WC, Haas M, Kainz A, Oberbauer R. The association between angiotensin converting enzyme inhibitor or angiotensin receptor blocker use during postischemic acute transplant failure and renal allograft survival. *Transplantation*, 2006. **82**(11): 1441-1448.
5. Perco P, Kainz A, Mayer G, Lukas A, Oberbauer R, Mayer B. Detection of coregulation in differential gene expression profiles. *Biosystems*, 2005. **82**(3): 235-247.
4. Mineva I, Gartner W, Hauser P, Kainz A, Loffler M, Wolf G, Oberbauer R, Weissel M, Wagner L. Differential expression of alphaB-crystallin and Hsp27-1 in anaplastic thyroid carcinomas because of tumor-specific alphaB-crystallin gene (CRYAB) silencing. *Cell Stress Chaperones*, 2005. **10**(3): 171-184.
3. Hauser P, Kainz A, Perco P, Bergmeister H, Mitterbauer C, Schwarz C, Regele HM, Mayer B, Meyer TW, Oberbauer R. Transcriptional response in the unaffected kidney after contralateral hydronephrosis or nephrectomy. *Kidney Int*, 2005. **68**(6): 2497-2507.
2. Jarute G, Kainz A, Schroll G, Baena JR, Lendl B. On-line determination of the intracellular poly(beta-hydroxybutyric acid) content in transformed *Escherichia coli* and glucose during PHB production using stopped-flow attenuated total reflection FT-IR spectrometry. *Anal Chem*, 2004. **76**(21): 6353-6358.
1. Busse HJ, Kainz A, Tsitko IV, Salkinoja-Salonen M. Riboprints as a tool for rapid preliminary identification of sphingomonads. *Syst Appl Microbiol*, 2000. **23**(1): 115-123.

Präsentationen:

Vortrag:

ÖGN Oktober 2004	Genome wide expression pattern of donor kidney biopsies to predict primary allograft function
ÖGN Oktober 2006	Transcriptional response in the unaffected kidney after contralateral hydronephrosis or nephrectomy
ÖGN Oktober 2007	Gene expression profiles and age of donor kidney biopsies obtained before transplantation distinguish medium term graft function
Austrotransplant Oktober 2007	Association of AZA vs. MMF with graft loss in established CAN
WTC August 2008	Functional graft and patient survival of renal transplant recipients with biopsy confirmed acute rejection (BCAR) and use of ATG or OKT3
Austrotransplant Oktober 2008	Antithymocyte globulin use for treatment of biopsy confirmed acute rejection is associated with prolonged renal allograft survival
ÖGN Oktober 2009	Mycophenolate mofetil use is associated with prolonged graft survival after kidney transplantation
ÖGN Oktober 2009	Histogenomics: Association of gene expression patterns with histological parameters in kidney biopsies

Austrotransplant Oktober 2009	Hemoglobin levels above 12.5g/dl achieved by erythropoiesis stimulating agents in renal transplant recipients are associated with elevated mortality: a cohort study
ITSC August 2010	A randomized placebo controlled trial for deceased kidney donor pretreatment with corticosteroids to prevent acute renal failure
ÖGN Oktober 2010	Steroid Pretreatment of Organ Donors to Prevent Postischemic Renal Allograft Failure. A Randomized, Controlled Trial
Austrotransplant Oktober 2011	Assoziation der Hämoglobinvariabilität mit Mortalität nach Nierentransplantation
ÖGN November 2011	Association of ESA hypo-responsiveness an hemoglobin variability with mortality in hemodialysis patients
TTS Juli 2012	Echocardiographic parameters at transplantation are independently associated with survival of renal allograft recipients
ERA-EDTA September 2013	Echocardiographic parameters at transplantation are independently associated with survival of renal allograft recipients
ÖGN September 2013	Hemoglobin variability after renal transplantation is associated with mortality

Poster:

VAAM März 1997	Differentiation of Pasteurella species A. Kainz, M. Wieser, W. Lubitz, H.-J. Busse
VAAM März 1997	Allocation of four " <i>Brevibacterium defluvium</i> " strains to <i>Aureobacterium schleiferi</i> O. Kim, A. Kainz, H. Seiler, W. Lubitz, H.-J. Busse
VAAM März 1997	Taxonomic studies on red and yellow pigmented airborne micrococci M. Wieser, A. Kainz, O. Kim, W. Lubitz, H.-J. Busse
VAAM März 1998	Characterization of Pasteurella based on ARDRA 23S and FTIR A. Kainz, W. Lubitz, H.-J. Busse
VAAM März 1998	Chemotaxonomic investigation of some airborne bacteria O. Kim, A. Kainz, M. Wieser, W. Lubitz, H.-J. Busse
VAAM März 1999	Division of the genus Pasteurella sensu stricto into two distinct clusters A. Kainz, H. Oberreuter, H. Seiler, W. Lubitz, H.-J. Busse
ISBP September 2002	Application of confocal raman spectroscopy and confocal fluorescence microscopy for investigation of PHB granules in single bacterial cells A. Kainz, C. Schuster, B. Lendl, W. Lubitz, G. Schroll
ITSC September 2004	Molecular analysis of tubular injury in deceased versus live donor transplant kidneys A. Kainz, C. Mitterbauer, P. Hauser, C. Schwarz, H. M. Regele, G. Berlakovich, G. Mayer, P. Perco, B. Mayer, T. W. Meyer, R. Oberbauer

ASN Oktober 2004	Altered gene expression profile in human proximal tubular cells by magnesium deficiency A. Kainz, P. Hauser, M. Piskacek, R. Schweyen, R. Oberbauer
ASN Oktober 2004	Different genome-wide gene expression pattern in the ipsilateral kidney after contralateral nephrectomy or hydronephrosis P. Hauser, A. Kainz, H. Bergmeister, P. Perco, H. M. Regele, B. Mayer, G. Mayer, T. W. Meyer, R. Oberbauer
DGN September 2005	Molekulare Charakterisierung von Spendernierenbiopsien mit guter Einjahrestransplantatfunktion A. Kainz, C. Mitterbauer, C. Schwarz, P. Perco, H. M. Regele, B. Mayer, R. Oberbauer
ASN November 2005	Molecular signature in donor kidney biopsies is associated with excellent one-year allograft function A. Kainz, C. Mitterbauer, C. Schwarz, P. Perco, H. M. Regele, B. Mayer, R. Oberbauer
WTC Juli 2006	Prediction of medium term renal allograft function by gene expression profiles of donor kidney biopsies A. Kainz, C. Mitterbauer, C. Schwarz, P. Perco, H. M. Regele, B. Mayer, R. Oberbauer
ASN November 2007	Randomized cross over trial of PBMCs genomics in vivo using different dialyzer membranes A. Kainz, J. Wilflingseder, P. Perco, C. Schwarz, B. Mayer, R. Oberbauer
Austrotransplant Oktober 2008	Molecular predictors for kidney post-transplant anaemia J. Wilflingseder, A. Kainz, P. Perco, B. Mayer, R. Oberbauer
Austrotransplant Oktober 2008	Biocompatibility of peritoneal dialysis solutions determined by genomics of human leukocytes: a cross-over study J. Wilflingseder, P. Perco, A. Kainz, B. Mayer, R. Oberbauer
ASN November 2008	Functional graft and patient survival of renal transplant recipients with biopsy confirmed acute rejection (BCAR) and use of ATG or OKT3 A. Kainz, R. Kramar, B. Mayer, R. Oberbauer
ESOT September 2009	Steroid donor pretreatment does not restore impaired metabolism in donor kidney allografts J. Wilflingseder, A. Kainz, I. Mühlberger, P. Perco, B. Mayer, R. Oberbauer
Austrotransplant Oktober 2010	Regulierung des mTOR-Wegs bei Nierentransplantation A. Kainz, A. Bernthaler, P. Perco, B. Mayer, K. Mönks, R. Oberbauer
WCN April 2011	Haemoglobin Variability is Associated with Graft Loss and Mortality of Renal Allograft Recipients A. Kainz, R. Kramar, R. Oberbauer
ATC Juli 2012	Sirolimus induced phosphaturia is not caused by inhibition of renal apical sodium phosphate cotransporters M. Haller, S. Amatschek, J. Wilflingseder, A. Kainz, B. Bielesz, I. Pavik, A. Serra, N. Mohebbi, J. Biber, C. A. Wagner, R. Oberbauer

- ATC
Juli 2012
The effect of steroid pretreatment of deceased organ donors on liver allograft function: a blinded randomized placebo controlled trial
J. Wilflingseder, A. Kainz, M. Pones, M. Bodingbauer, S. Amatschek, F. Mühlbacher, R. M. Langer, Z. Gerlei, R. Oberbauer
- ATC
Juli 2012
Renal allograft rejection and delayed graft function regulated by miRNAs
J. Wilflingseder, H. Regele, A. Kainz, P. Perco, A. Soleiman, F. Mühlbacher, B. Mayer, R. Oberbauer
- ATC
Juli 2012
The recovery of the reticuloendothelial clearance capacity after orthotopic liver transplantation in humans
M. W. Bodingbauer, A. M. Millar, A. Adair, S. Wakelin, A. Kainz, S. J. Wigmore
- ATC
Juli 2014
Molecular pathogenesis of post-transplant acute kidney injury: assessment of whole-genome mRNA and miRNA profiles
J. Wilflingseder, J. Sunzenauer, E. Toronyi, A. Heinzl, A. Kainz, B. Mayer, P. Perco, G. Telkes, R. M. Langer, R. Oberbauer

Wien, am 10.5.2015

Ing. Dr. Alexander Kainz