

# Curriculum Vitae

**Paul Perco, PhD**  
Medical University of Innsbruck  
Internal Medicine IV  
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## Personal data

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Name	Paul Perco, PhD
Date of birth	20-05-1979
Nationality	Austria

## Education & Positions

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Dec 2016 – present	<b>Senior Researcher at the Medical University of Innsbruck, Department of Internal Medicine IV</b>
Jan 2012 – Sept 2016	Head of applications at emergentec biodevelopment GmbH.
Feb 2008 – Dec 2011	Researcher at emergentec biodevelopment GmbH.
Nov 2005 – Jan 2008	Postdoctoral fellow at Prof. Oberbauer's <i>NephroGene</i> research group at the Medical University of Vienna, Department of Nephrology.
Nov 2005	Graduation (PhD) in Microbiology and Genetics at the University of Vienna.
Sep 2003 – Nov 2005	PhD thesis at the University of Vienna on " <i>Numerical models of coregulation and metabolic network analysis based on genome wide gene expression patterns</i> ".
Sep 2003	Graduation (MS) in Microbiology at the University of Vienna.
Oct 2002 – Jul 2003	Diploma thesis at the University of Vienna in cooperation with emergentec biodevelopment GmbH on " <i>Bioinformatics analysis of differential gene expression in human kidney tissue</i> ".
Oct 1998 – Jul 2003	Study of Microbiology at the University of Vienna.

## Career related activities

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Oct 2011 – present	Lecturer at the Technical University (TU) of Vienna on Bioinformatics and Systems Biology.
Sep 2016 – Feb 2017	Lecturer at the FH Technikum Wien on Bioinformatics.
Mar 2011	Visiting scientist at the Weizmann Institute of Science, Rehovot, Israel (Prof. Doron Lancet's Group, GeneCards).
Jan 2010 – Dec 2014	Member of the coordinating team of the large-scale integrating project " <i>SysKid – Systems biology towards novel chronic kidney disease diagnosis and treatment</i> ", funded by the European Union in the 7 <sup>th</sup> framework programme.
Feb 2008	<i>nephronic biomedical research</i> , focusing on the development of assays for the early diagnosis of kidney diseases, was ranked among the six most innovative business ideas in the Best-of-Biotech (BoB) 2007/2008 competition.
Aug 2004 – Oct 2004	Research fellow at the Center of Molecular Medicine and Therapeutics (CMMT) Vancouver under the supervision of Prof. Wasserman.
May 2003 – Oct 2005	Bioinformatics project contractor with emergentec biodevelopment GmbH.
Jun 2000 – Sep 2001	Project work at the Institute of blood group serology and transfusion medicine (Vienna Medical Center) under the supervision of Prof. Simon Panzer.

## Research interests

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- **Bioinformatics analysis of 'omics' data** (see e.g. refs 3, 5, 8, 10, 18, 29, 41, 42, 43, 47, 50, 52, 64, 66, 74, 75, 81, 82)
- **Biomarker discovery and development** (see e.g. refs 11, 12, 14, 20, 21, 22, 34, 43, 57, 65, 68, 70, 73, 76, 77, 78, 80 & patents 1-5)
- **Network biology in disease** (see e.g. refs 15, 18, 20, 28, 32, 36, 41, 46, 47, 49, 51, 52, 53, 55, 56, 59, 61, 62, 63, 67, 69, 71, 72, 79, 83 & patent 6)

## Teaching experience @ the Technical University of Vienna

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- **From Systems Biology to Systems Medicine** (2015SS, VU, 2.0h, 3.0 ECTS)
- **From Systems Biology to Systems Medicine** (2014SS, VU, 2.0h, 3.0 ECTS)
- **High-throughput Omics Experiments and Analysis** (2013/14WS, VU, 2.0h, 3.0 ECTS)
- **From Systems Biology to Systems Medicine** (2012SS, VU, 2.0h, 3.0 ECTS)
- **High-throughput Omics Experiments and Analysis** (2011/12WS, VU, 2.0h, 3.0 ECTS)
- **Progress in Bioscience Technologies** (2010WS, Sem; 1 invited talk)

## Teaching experience @ the FH Technikum Wien

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- **Bioinformatics** (2016/17WS, SE, 1.0h, 1.0 ECTS)

## Coordinating tasks in the following research projects

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- ***SysKid – Systems biology towards novel chronic kidney disease diagnosis and treatment***  
Role: Member of the coordinating team, Group Lead Partner 1 - emergentec biodevelopment GmbH  
Funding Agency: European Union (7<sup>th</sup> framework programme)  
Project duration: 01.01.2010 – 31.12.2014
- ***EU-MASCARA – Markers for Sub-Clinical Cardiovascular Risk Assessment***  
Role: Co-Group Lead Partner 3 – emergentec biodevelopment GmbH  
Funding Agency: European Union (7<sup>th</sup> framework programme)  
Project duration: 01.12.2011 – 30.11.2015
- ***OCTIPS – Ovarian Cancer Therapy – Innovative Models Prolong Survival***  
Role: Co-Group Lead Partner 6 – emergentec biodevelopment GmbH  
Funding Agency: European Union (7<sup>th</sup> framework programme)  
Project duration: 01.01.2012 – 31.12.2015
- ***Rekonstruktion von Kontextgraphen in molekularbiologischen Netzwerken (Reconstruction of context-graphs in molecular biological networks)***  
Role: Project coordination  
Funding Agency: Österreichische Forschungsförderungsgesellschaft mbH (FFG)  
Project duration: 01.01.2008 – 31.12.2009

## Membership in scientific societies

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- **Austrian platform for personalized medicine** (<http://personalized-medicine.at/>)
- **Austrian bioinformatics platform** (<http://bioinformatik.at/>)

## Publications

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- {85} Validation of Plasma Biomarker Candidates for the Prediction of eGFR Decline in Patients With Type 2 Diabetes.  
Heinzel A, Kammer M, Mayer G, Reindl-Schwaighofer R, Hu K, **Perco P**, Eder S, Rosivall L, Mark PB, Ju W, Kretzler M, Gilmour P, Wilson JM, Duffin KL, Abdalla M, McCarthy MI, Heinze G, Heerspink HL, Wiecek A, Gomez MF, Oberbauer R; BEAt-DKD Consortium  
Diabetes Care 2018 Jul 6 [Epub ahead of print]
- {84} Validation of systems biology derived molecular markers of renal donor organ status associated with long term allograft function.  
**Perco P**, Heinzel A, Leierer J, Schneeberger S, Bösmüller C, Oberhuber R, Wagner S, Engler F, Mayer G  
Scientific Reports 2018 8(1):6974
- {83} Endogenous factors and mechanisms of renoprotection and renal repair.  
**Perco P**, Mayer G  
Eur J Clin Invest. 2018 48(5):e12914
- {82} Molecular, histological, and clinical phenotyping of diabetic nephropathy: valuable complementary information?  
**Perco P**, Mayer G  
Kidney Int. 2018 93(2):308-310
- {81} Proteomic-biostatistic integrated approach for finding the underlying molecular determinants of hypertension in human plasma.  
Gajjala PR, Jankowski V, Heinze G, Bilo G, Zanchetti A, Noels H, Liehn E, **Perco P**, Schulz A, Delles C, Kork F, Biessen E, Narkiewicz K, Kawecka-Jaszcz K, Floege J, Soranna D, Zidek W, Jankowski J  
Hypertension 2017 70(2):412-419
- {80} Systems biology-derived biomarkers to predict progression of renal function decline in type 2 diabetes.  
Mayer G, Heerspink HJ, Aschauer C, Heinzel A, Heinze G, Kainz A, Sunzenauer J, **Perco P**, de Zeeuw D, Rossing P, Pena M, Oberbauer R for the SysKid consortium  
Diabetes Care 2017 40(3):391-397
- {79} Positioning of tacrolimus for the treatment of diabetic nephropathy based on computational network analysis.  
Aschauer C\*, **Perco P\***, Heinzel A, Sunzenauer J, Oberbauer R  
PLoS One 2017 12(1):e0169518
- {78} Validation of a protein panel for the noninvasive detection of recurrent non-muscle invasive bladder cancer.  
Gogalic S, Sauer U, Doppler S, Heinzel A, **Perco P**, Lukas A, Simpson G, Pandha H, Horvath A, Preininger C  
Biomarkers 2017 19:1-8
- {77} Predictive biomarkers for linking disease pathology and drug effect.  
Mayer B, Heinzel A, Lukas A, **Perco P**  
Curr Pharm Des 2017 23(1):29-54
- {76} Vascular endothelial growth factor A as predictive marker for mTOR inhibition in relapsing high-grade serous ovarian cancer.  
Andorfer P, Heuwieser A, Heinzel A, Lukas A, Mayer B, **Perco P**  
BMC Syst Biol 2016 18;10:33
- {75} Metallothioneins and renal ageing.  
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, Königsreiter A, Böhmig GA, Mayer G  
Nephrol Dial Transplant 2016 31(9):1444-52

- {74} Renal microRNA- and mRNA-profiles in progressive chronic kidney disease.  
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  
Eur J Clin Invest 2016 46(3):213-26
- {73} Disease map-based biomarker selection and pre-validation for bladder cancer diagnostic.  
de Paoli M, **Perco P**, Mühlberger I, Lukas A, Pandha H, Morgan R, Feng GJ, Marquette C  
Biomarkers 2015 20(5):328-37
- {72} Molecular disease presentation in diabetic nephropathy.  
Heinzl A, Mühlberger I, Stelzer G, Lancet D, Oberbauer R, Martin M, **Perco P**  
Nephrol Dial Transplant 2015 Suppl 4:iv17-25
- {71} Drugs meeting the molecular basis of diabetic kidney disease: bridging from molecular mechanism to personalized medicine.  
Lambers Heerspink HJ, Oberbauer R, **Perco P**, Heinzl A, Heinze G, Mayer G, Mayer B  
Nephrol Dial Transplant 2015 Suppl 4:iv105-112
- {70} A panel of novel biomarkers representing different disease pathways improves prediction of renal function decline in type 2 diabetes.  
Pena MJ, Heinzl A, Heinze G, Alkhalaf A, Bakker SJ, Nguyen TQ, Goldschmeding R, Bilo HJ, **Perco P**, Mayer B, de Zeeuw D, Lambers Heerspink HJ.  
PLoS One 2015 10(5):e0120995
- {69} Protein interactome of muscle invasive bladder cancer.  
Bhat A, Heinzl A, Mayer B, **Perco P**, Mühlberger I, Husi H, Merseburger AS, Zoidakis J, Vlahou A, Schanstra JP, Mischak H, Jankowski V  
PLoS One 2015 10(1):e0116404
- {68} A 3-biomarker-panel predicts renal outcome in patients with proteinuric renal diseases.  
Neuwirt H, **Perco P**, Kainz A, Mühlberger I, Leierer J, Noppert S, Mayer B, Mayer G, Rudnicki M  
BMC Med Genomics 2014 7(1):4
- {67} From molecular signatures to predictive biomarkers: modeling disease pathophysiology and drug mechanism of action.  
Heinzl A, **Perco P**, Mayer G, Oberbauer R, Lukas A, Mayer B  
Front Cell Dev Biol 2014 2:37
- {66} The potential evasion of immune surveillance in MALT lymphoma by DcR2-mediated upregulation of NF- $\kappa$ B.  
Anees M, Horak P, Schiefer AI, Vaňhara P, El-Gazzar A, **Perco P**, Kiesewetter B, Müllauer L, Streubel B, Raderer M, Krainer M  
Leuk Lymphoma 2014 5:1-10
- {65} Mass Spectrometric/Bioinformatic Identification of a Protein Subset That Characterizes the Cellular Activity of Anticancer Peptides.  
Genovese F, Gualandi A, Taddia L, Marverti G, Pirondi S, Marraccini C, **Perco P**, Pelà M, Guerrini R, Amoroso MR, Esposito F, Martello A, Ponterini G, D'Arca D, Costi MP  
J Proteome Res 2014 13(11):5350-61
- {64} Molecular pathogenesis of post-transplant acute kidney injury: assessment of whole-genome mRNA and miRNA profiles.  
Wilflingseder J, Sunzenauer J, Toronyi E, Heinzl A, Kainz A, Mayer B, **Perco P**, Telkes G, Langer RM, Oberbauer R  
PLoS One 2014 9(8):e104164
- {63} Functional molecular units for guiding biomarker panel design.  
Heinzl A, Mühlberger I, Fehete R, Mayer B, **Perco P**  
Methods Mol Biol 2014 1159:109-33

- {62} Proteome-based systems biology analysis of the diabetic mouse aorta reveals major changes in fatty acid biosynthesis as potential hallmark in diabetes associated vascular disease.  
Husi H, Van Agtmael T, Mullen W, Bahlmann FH, Schanstra JP, Vlahou A, Delles C, **Perco P**, Mischak H  
Circ Cardiovasc Genet 2014 7(2):161-70
- {61} Using Information Content for Expanding Human Protein Coding Gene Interaction Networks  
Fechete R, Heinzl A, Söllner J, **Perco P**, Lukas A, Mayer B  
J Comput Sci Syst Biol 2013 6:073-082
- {60} miRNA profiling discriminates types of rejection and injury in human renal allografts.  
Wilflingseder J, Regele H, **Perco P**, Kainz A, Soleiman A, Mühlbacher F, Mayer B, Oberbauer R  
Transplantation 2013 95(6):835-41
- {59} Molecular models of the cardiorenal syndrome.  
Heinzl A, Fechete R, Mühlberger I, **Perco P**, Mayer B, Lukas A  
Electrophoresis 2013 34(11):1649-56
- {58} Evaluation of the Zucker Diabetic Fatty (ZDF) Rat as a Model for Human Disease Based on Urinary Peptidomic Profiles.  
Siwy J, Zoja C, Klein J, Benigni A, Mullen W, Mayer B, Mischak H, Jankowski J, Stevens R, Vlahou A, Kossida S, **Perco P**, Bahlmann FH  
PLoS One 2012 7(12):e51334
- {57} Increased renal versican expression is associated with progression of chronic kidney disease.  
Rudnicki M, **Perco P**, Neuwirt H, Noppert SJ, Leierer J, Sunzenauer J, Eder S, Zoja C, Eller K, Rosenkranz A, Müller GA, Mayer B, Mayer G  
PLoS One 2012 7(9):e44891
- {56} Data graphs for linking clinical phenotype and molecular feature space.  
Heinzl A, Fechete R, Söllner J, **Perco P**, Heinze G, Oberbauer R, Mayer G, Lukas A, Mayer B  
IJSBBT 2012 1(1):11-25
- {55} Molecular pathways and crosstalk characterizing the cardiorenal syndrome.  
Mühlberger I, Mönks K, Fechete R, Mayer G, Oberbauer R, Mayer B, **Perco P**  
OMICS 2012 16(3):105-12
- {54} In-silico human genomics with GeneCards.  
Stelzer G, Dalah I, Stein TI, Satanower Y, Rosen N, Nativ N, Oz-Levi D, Olender T, Belinky F, Bahir I, Krug H, **Perco P**, Mayer B, Kolker E, Safran M, Lancet D  
Hum Genomics 2011 5(6):709-17
- {53} Linking molecular feature space and disease terms for the immunosuppressive drug rapamycin.  
Bernthaler A, Mönks K, Mühlberger I, Mayer B, **Perco P**, Oberbauer R  
Mol Biosyst 2011 7(10):2863-71
- {52} Mapping of molecular pathways, biomarkers and drug targets for diabetic nephropathy.  
Fechete R, Heinzl A, **Perco P**, Mönks K, Söllner J, Stelzer G, Eder S, Lancet D, Oberbauer R, Mayer G, Mayer B  
Proteomics Clinical Applications 2011 5(5-6):354-66
- {51} Mycophenolate mofetil associated molecular profiles and diseases  
Mönks K, Bernthaler A, Mühlberger I, Mayer B, Oberbauer R, **Perco P**  
J Comput Sci Syst Biol 2011 4:1-6
- {50} Computational analysis workflows for Omics data interpretation  
Mühlberger I, Wilflingseder J, Bernthaler A, Fechete R, Lukas A, **Perco P**  
Methods Mol Biol 2011 719:379-97
- {49} Data and knowledge management in cross-Omics research projects  
Wiesinger M, Haiduk M, Behr M, de Abreu Madeira HL, Glöckler G, **Perco P**, Lukas A  
Methods Mol Biol 2011 719:97-111

- {48} Recurrence free survival in prostate cancer is related to increased stromal TRAIL expression  
Anees M, Horak P, El-Gazzar A, Susani M, Heinze G, **Perco P**, Pangerl T, Loda M, Lis r, Krainer M, Oh WK  
Cancer 2011 117(6):1172-82
- {47} Synthetic lethal hubs associated with vincristine resistant neuroblastoma.  
Fechete R, Barth S, Olender T, Munteanu A, Bernthaler A, Inger A, **Perco P**, Lukas A, Lancet D, Cinatl Jr J, Michaelis M, Mayer B  
Mol Biosyst 2011 7(1):200-14
- {46} Integrative bioinformatics analysis of proteins associated with the cardiorenal syndrome.  
Mühlberger I, Mönks K, Bernthaler A, Mayer B, Mayer G, Oberbauer R, **Perco P**  
Int J Nephrol 2011 2011, Article ID809378, 10 pages
- {45} Adaptive trimmed t-statistics for identifying predominantly high expression in a microarray experiment.  
Gleiss A, Sanchez-Cabo F, **Perco P**, Tong D, Heinze G  
Stat Med 2011 30(1):52-61
- {44} Molecular biomarker candidates of acute kidney injury in zero-hour renal transplant needle biopsies.  
Korbely R, Wilflingseder J, **Perco P**, Kainz A, Langer RM, Mayer B, Oberbauer R  
Transplant Int 2011 24(2):143-9
- {43} Integrative analysis of –omics data and histological scoring in renal disease and transplantation: renal histogenomics.  
**Perco P**, Oberbauer R  
Semin Nephrol 2010 30(5):520-30
- {42} Steroid pretreatment of organ donors to prevent postischemic renal allograft failure: a randomized, controlled trial.  
Kainz A, Wilflingseder J, Mitterbauer C, Haller M, Burghuber C, **Perco P**, Langer RM, Heinze G, Oberbauer R  
Ann Intern Med 2010 153(4):222-30
- {41} Linking transcriptomic and proteomic data on the level of protein interaction networks.  
**Perco P**, Mühlberger I, Mayer G, Oberbauer R, Lukas A, Mayer B  
Electrophoresis 2010 31(11):1780-1789
- {40} Natural immunity enhances the activity of a DR5 agonistic antibody and carboplatin in the treatment of ovarian cancer.  
El-Gazzar A, **Perco P**, Eckelhart E, Anees M, Sexl V, Mayer B, Liu Y, Mikulits W, Horvat R, Pangerl T, Zheng D, Krainer M  
Mol Cancer Ther 2010 9(4):1007-18
- {39} The role of c-FLIP(L) in ovarian cancer: Chaperoning tumor cells from immunosurveillance and increasing their invasive potential.  
El-Gazzar A, Wittinger M, **Perco P**, Anees M, Horvat R, Mikulits W, Grunt TW, Mayer B, Krainer M  
Gynecol Oncol 2010 117(3):451-9
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Molina F, Dehmer M, **Perco P**, Graber A, Girolami F, Spasovski G, Schanstra JP, Vlahou A  
Nephrol Dial Transplant 2010 25(4):1015-8
- {37} Impaired metabolism in donor kidney graft after steroid pretreatment.  
Wilflingseder J, Kainz A, Mühlberger I, **Perco P**, Langer R, Kristo I, Mayer B, Oberbauer R  
Transpl Int 2010 23(8):796-804
- {36} Computational reconstruction of protein interaction networks.  
Mönks K, Mühlberger I, Bernthaler A, Fechete R, **Perco P**, Freund R, Lukas A, Mayer B  
in Applied Statistics for Network Biology: Methods in Systems Biology 2011 Wiley-VCH

- {35} Biocompatibility of peritoneal dialysis solutions determined by genomics of human leucocytes: a cross-over study.  
Wilflingseder J, **Perco P**, Kainz A, Schwarz C, Korbely R, Mayer B, Oberbauer R  
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- {34} Biomarkers in renal transplantation ischemia reperfusion injury.  
Mühlberger I, **Perco P**, Fechete R, Mayer B, Oberbauer R  
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- {33} Neuropilin-1 and neuropilin-2 are differentially expressed in human proteinuric nephropathies and cytokine-stimulated proximal tubular cells.  
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- {32} A dependency graph approach for the analysis of differential gene expression profiles.  
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- {31} Microarray and Bioinformatics Analysis of Gene Expression in Experimental Membranous Nephropathy.  
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- {30} Inter-laboratory comparison of human renal proximal tubule (HK-2) transcriptome alterations due to cyclosporine A exposure and medium exhaustion.  
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**Perco P**, Kainz A, Wilflingseder J, Soleiman A, Mayer B, Oberbauer R  
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Wilflingseder J, Kainz A, **Perco P**, Korbely R, Mayer B, Oberbauer R  
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- {26} Biocompatibility of haemodialysis membranes determined by gene expression of human leucocytes: a crossover study.  
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## **Co-inventor of the following patent applications**

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