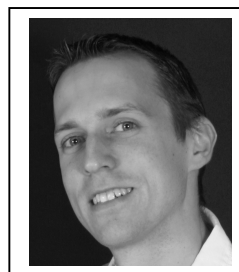


Curriculum Vitae

Paul Perco, PhD
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Personal data

Name	Paul Perco, PhD
Date of birth	20-05-1979
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Education & Positions

Dec 2016 – present	Senior Researcher at the Medical University of Innsbruck, Department of Internal Medicine IV
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

Sep 2016 – Feb 2017	Lecturer at the FH Technikum Wien on Bioinformatics.
Oct 2011 – Sep 2015	Lecturer at the Technical University (TU) of Vienna on Biomedical Informatics.
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 th 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

- **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)
- **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 & patent 6)

Teaching experience @ the Technical University of Vienna

- **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

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

Coordinating tasks in the following research projects

- ***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
- ***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 (7th 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 (7th 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 (7th framework programme)
Project duration: 01.01.2012 – 31.12.2015

Publications

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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 Jun 26 [Epub ahead of print]
- {80} Systems biology-derived biomarkers to predict progression of renal function decline in type 2 diabetes. Mayer G, Heerspink HJ, Aschauer C, Heinzl 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***, Heinzl 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, Heinzl A, **Perco P**, Lukas A, Simpson G, Pandha H, Horvath A, Preininger C. Biomarkers 2017 19:1-8.
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- {76} Vascular endothelial growth factor A as predictive marker for mTOR inhibition in relapsing high-grade serous ovarian cancer. Andorfer P, Heuwieser A, Heinzl 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

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- {68} A 3-biomarker-panel predicts renal outcome in patients with proteinuric renal diseases.
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- {60} miRNA profiling discriminates types of rejection and injury in human renal allografts.
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 El-Gazzar A, Wittinger M, **Perco P**, Anees M, Horvat R, Mikulits W, Grunt TW, Mayer B, Krainer M
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 Wilflingseder J, **Perco P**, Kainz A, Schwarz C, Korbely R, Mayer B, Oberbauer R
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 Mühlberger I, **Perco P**, Fechete R, Mayer B, Oberbauer R.
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Co-inventor of the following patent applications

- {06} WO2011/144738 - CRITICAL GENE TARGETS FOR CYTOTOXIC THERAPY
Int. Application No. PCT/EP2011/058259
Int. Filing date: 20.05.2011
Inventors: Lukas A, Soellner J, Bernthaler A, Mayer B, Fechete R, **Perco P**, Heinzl A

- {05} WO/2011/045244 - ACUTE KIDNEY INJURY RISK TESTING
Int. Application No. PCT/EP2010/065118
Int. Filing date: 08.10.2010
Inventors: Oberbauer R, Mayer B, **Perco P**, Kainz A, Wilflingseder J

- {04} WO/2010/142637 - A METHOD OF DIAGNOSING RENAL DISORDERS
Int. Application No. PCT/EP2010/057917
Int. Filing date: 07.06.2010
Inventors: Mayer G, Rudnicki M, **Perco P**

- {03} WO/2009/127644 - MARKERS OF ACUTE KIDNEY FAILURE
Int. Application No. PCT/EP2009/054439
Int. Filing date: 15.04.2009
Inventors: Oberbauer R, Mayer B, **Perco P**, Kainz A

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Inventors: Mayer G, Rudnicki M, Eder S, Schratzberger G, Enrich J, **Perco P**

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