



## CURRICULUM VITAE – Daniel DOBERER

Date Prepared: November 10, 2015  
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Place of Birth: Bietigheim-Bissingen / Germany

### Education

1992-1998	MSc	Organic Chemistry and Technology	Technical University of Vienna Vienna, Austria
1996-2002	MD	Medicine	Medical University of Vienna Vienna, Austria
Since 04/2015		International Masters for Health Leadership	Desautels Faculty of Management, McGill University, Montreal, Canada

### Postdoctoral Training

2002-2003	Research Fellow	Intensive Care Medicine / Pulmonology	Medical University of Vienna
2003-2004	Resident	Internal Medicine	Medical University of Vienna
2005	Resident	Internal Medicine	Wilhelminenspital - Teaching Hospital of the Medical University of Vienna
2006-2007	Resident	Internal Medicine	Medical University of Vienna
2007-2008	Research Associate	Clinical Pharmacology	Medical University of Vienna
2008-2009	Fellow	Internal Medicine	Medical University of Vienna
2009-2010	Research Fellow	Transplant Medicine	Beth Israel Deaconess Medical Center, Harvard Medical School
2010-2011	Fellow	Internal Medicine	Medical University of Vienna

2011-2013	Fellow	Internal Medicine	Wilhelminenspital - Teaching Hospital of the Medical University of Vienna
2013-2014	Fellow	Pulmonary Medicine	Wilhelminenspital - Teaching Hospital of the Medical University of Vienna
2014-2015	Research Fellow	Pulmonary, Allergy and Critical Care Medicine	University of Pittsburgh Asthma Institute at UPMC
2015-present	Fellow	Pulmonary Medicine	Wilhelminenspital - Teaching Hospital of the Medical University of Vienna

### **Academic Appointments**

1997	Instructor	Inorganic Chemistry	Technical University of Vienna
2002	Lecturer	Environmental Sciences	Swiss Federal Institute of Technology Zürich
2008-2009	Instructor	Emergency Medicine	Medical University of Vienna
2008-2009	Lecturer	Clinical Pharmacology	Medical University of Vienna
2008-present	Diploma Thesis Supervisor	Clinical Pharmacology	Medical University of Vienna
2009-present	Lecturer	Internal and Pulmonary Medicine	Medical University of Vienna

### **Appointments at Hospitals**

2003-2004	Resident physician	Internal Medicine Pulmonary Division	General Hospital of Vienna
2005	Resident physician	Pediatrics	Wilhelminenspital Vienna
2006	Resident physician	Internal Medicine Pulmonary Division	Wilhelminenspital Vienna
2006-2007	Resident physician	Radiology	General Hospital of Vienna
2008	Fellow	Internal Medicine Cardiology Division	General Hospital of Vienna
2008-2009	Fellow	Internal Medicine Intensive Care Unit	General Hospital of Vienna
2010-2011	Fellow	Emergency Medicine	General Hospital of Vienna
2011-2012	Fellow	Internal Medicine Pulmonary Division	Wilhelminenspital Vienna
2012	Fellow	Internal Medicine Nephrology Division	Wilhelminenspital Vienna
2013	Fellow	Internal Medicine Rheumatology Division	Wilhelminenspital Vienna
2013-2014	Specialist	Internal Medicine Pulmonary Division	Wilhelminenspital Vienna
2015-present	Specialist	Internal Medicine Pulmonary Division	Wilhelminenspital Vienna

### Other Professional Positions

2004-2005	Emergency medical technician as compulsory community service	Johanniter Unfallhilfe Vienna
2003-present	Company owner	StudyMaker - Clinical Trial Management e.U.

### Speciality Certification

04/2013	Austrian Medical Chamber: Internal Medicine
09/2014	European Union of Medical Specialists (EUMS): Diploma in Adult Respiratory Medicine

### Professional Societies

2006-present	Member of the European Respiratory Society (ERS)
2006-present	Member of the American Thoracic Society (ATS)
2006-present	Member of the Austrian Society of Pneumology (ASP)
2006-present	Member of the Austrian Society of Internal and General Intensive Care and Emergency Medicine (ÖGIAIN)
2007-present	Member of the Berufsverband der Österreichischen Internisten (BÖI)
2011-present	Member of the Austrian Society of Internal Medicine (ÖGIM)
2012-present	Member of the European Academy of Allergology and Clinical Immunology (EAACI)
2014-present	Member of the Austrian Society of Allergology and Immunology (ÖGAI)
2015-present	Secretary of the Austrian Society of Pneumology (ASP)

### Editorial Activities

#### *Ad hoc reviewer*

Intensive Care Medicine

European Journal of Clinical Investigation

International Journal of Clinical Pharmacology and Therapeutics

International Journal of Medical Sciences

### Honors and Awards

2009	EACPT Young Investigator Bursary
2014	ERS: International Long-Term Research Fellowship to University of Pittsburgh (USA)

### Funded Research Projects

2008-2011	Co-Investigator	WWTF LS07-031	(\$1.100,000)
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Therapy of Ischemia-Reperfusion-Injury by Heme-Oxygenase-1 Induction in Skeletal Muscle and Ischemic Kidney (Michael Wolzt)

The major goal of this project was to evaluate the role of HO-1 inducers to ameliorate ischemia-reperfusion injury in different clinical setting such as orthopedic and aortic reconstruction surgery and

kidney transplantation. My role was to design, coordinate and conduct the preclinical and clinical studies.

2009-2010 PI Actelion Pharmaceuticals Ltd. , investigator (\$16,000)  
initiated (IIS-BOPSAC-Doberer)

Safety and efficacy study of bosentan in progressive pulmonary sarcoidosis

The major goal of this study was to test bosentan as treatment of progressive pulmonary sarcoidosis.

2012-present Coordinator Austrian Society of Pneumology (\$80,000)  
PI

Austrian Severe Asthma Net (ASA-Net)

ASA-Net is implemented as a network that is designed for physicians and patients. Its aims are the improvement of quality of care and advancement of knowledge in patients with severe asthma. There are three major components of ASA-Net: (i) Austrian clinical registry for patients with severe asthma, (ii) web-based network for information exchange, (iii) implementation of asthma guidelines and standardized procedures. My role is to design, implement and coordinate the Austrian Severe Asthma Net.

2015-2016 PI Breath Pennsylvania (\$10,000)

Asthma and Autoimmune Disease

The major goal of this project is to investigate the association of autoimmune disease and asthma, in particular severe asthma.

### Teaching and Training at the Medical University of Vienna

2008 Resuscitation Techniques II

4<sup>th</sup> year medical students Instructor 2-hr sessions per week for 3 weeks

2008 Case-based learning (CBL) - Internal Medicine

2<sup>nd</sup> year medical students Instructor 2-hr sessions per week for 15 weeks

2008-09, 2011 Clinical practical propaedeutics

4<sup>th</sup> year medical students Instructor 2-hr sessions per week for 3 weeks

2008-2009 Applied Medical Science

5<sup>th</sup> year medical students Lecturer 4 hr sessions per day for 5 days

2008 Case-based learning (CBL) - Internal Medicine

3<sup>rd</sup> year medical students Instructor 2-hr sessions per week for 6 weeks

2008 Resuscitation Techniques I

3<sup>rd</sup> year medical students Instructor 2-hr sessions per week for 6 weeks

2008-2009 Preclinical and clinical research for drug development

Doctoral students of Lecturer 2-hr sessions per week for 15 weeks  
Medical Science

2012 Ethics, chronic disease, handicap, gerontology

4<sup>th</sup> year medical students Lecturer 2-hr session per week for 3 weeks

2015	Mast cells basophiles and eosinophiles	Ethics, chronic disease, handicap, gerontology
	MCCA PhD Program	Lecturer
		2-hr session for 2 days
2008-present	Supervision of doctoral thesis students	mentorship of 6-24 month each
	Mathias Roth (2011)	Induction of heme oxygenase-1 by heme arginate in healthy male subjects.
	Moritz Meyer zu Schwabeddisson (2011)	Effects of orally administered curcumin on heme oxygenase-1 (HO-1) in healthy male subjects.
	Victor Bildheim (2012)	Quality of care of asthma patients in Burgenland.
	Franziska Dose (2013)	The effects of the dietary supplement trans-resveratrol on heme oxygenase-1 (HO-1) expression in PBMCs in healthy male subjects: a pilot study.
	Riad Ghanem (2014)	Analysis of the Austrian health care provision to estimate the epidemiology of severe asthma.

## Peer-reviewed publications

### *Research investigations*

Pignitter M, Schueller K, Burkon A, Knorr V, Esefelder L, **Doberer D**, Wolzt M, Somoza C: Concentration dependent effects of resveratrol and metabolites on the redox status of human erythrocytes in single dose studies. *J Nutr Biochem* **2015**; accepted for publication.

Klickovic U, **Doberer D**, Ghazaleh G, Aschauer S, Weisshaar S, Storka A, Bilban M, Wolzt M: Human pharmacokinetics of high dose oral curcumin and its effect on heme oxygenase-1 expression in healthy male subjects. *BioMed Research International* **2014**; Epub.

Lindner G, **Doberer D**, Schwarz C, Schneeweiss B, Funk GC: Evaporation of free water causes concentrational alkalosis in vitro. *Wien Klin Wochenschr* **2014**; 126:201-207.

Gualdoni GA, Kovarik JJ, Hofer J, Dose F, Pignitter M, **Doberer D**, Steinberger P, Somoza V, Wolzt M, Zlabinger GJ: Resveratrol enhances TNF- $\alpha$  production in human monocytes upon bacterial stimulation. *Biochem Biophys Acta* **2014**; 1840:95-105.

Wallner M, Antl N, Rittmannsberger B, Schreidl S, Najafi K, Müllner E, Mölzer C, Ferik F, Knasmüller S, Marculescu R, **Doberer D**, Poulsen HE, Vitek L, Bulmer AC, Wagner KH: Anti-genotoxic potential of bilirubin in vivo: damage to DNA in hyperbilirubinemic human and animal models. *Cancer Prev Res* **2013**; 6:1056-1063.

Wallner M, Bulmer AC, Mölzer C, Müllner E, Marculescu R, **Doberer D**, Wolzt M, Wagner OF, Wagner KH: Haem catabolism: a novel modulator of inflammation in Gilbert's syndrome. *Eur J Clin Invest* **2013**; 43:912-264.

Wallner M, Marculescu R, **Doberer D**, Wolzt M, Wagner O, Vitek L, Bulmer AC, Wagner KH: Protection from age-related increase in lipid biomarkers and inflammation contributes to cardiovascular protection in Gilbert's syndrome. *Clin Sci* **2013**; 125:257-264.

Wallner M, Blassnigg SM, Marisch K, Pappenheim MT, Müllner E, Mölzer C, Nersesyan A, Marculescu R, **Doberer D**, Knasmüller S, Bulmer AC, Wagner KH: Effects of unconjugated bilirubin on chromosomal damage in individuals with Gilbert's syndrome measured with the micronucleus cytome assay. *Mutagenesis* **2012**; 27:731-735.

Andreas M, Schmid AI, **Doberer D**, Schewzow K, Weishaar S, Heinze G, Bilban M, Moser E, Wolzt M: Heme arginate improves reperfusion patterns after Ischemia: a randomized, placebo-controlled trials in healthy males subjects. *J Cardiovasc Magn Reson* **2012**; 14:55-60.

Andreas M, Schmid AI, Keilani M, **Doberer D**, Bartko J, Crevenna R, Moser E, Wolzt M: Effect of ischemic preconditioning in skeletal muscle measured by functional magnetic resonance imaging and spectroscopy: a randomized crossover trial. *J Cardiovasc Magn Reson* **2011**; 13:32-41.

**Doberer D**, Haschemi A, Andreas M, Zapf TC, Clive B, Jeitler M, Heinzl H, Wagner O, Wolzt M, Bilban M: Haem arginate infusion stimulates haem oxygenase-1 expression in healthy subjects. *Br J Pharmacol* **2010**; 161:1751-1762.

**Doberer D**, Funk GC, Kirchner K, Schneeweiss B: The chemical mechanism of dilutional acidosis – a critique of Stewart's approach. *Int Care Med* **2009**; 35:2173-2180.

Funk GC, **Doberer D**, Sterz F, Richling N, Kneidinger N, Lindner G, Schneeweiss B, Eisenburger P: The strong ion gap and outcome after cardiac arrest in patients treated with therapeutic hypothermia: a retrospective study. *Int Care Med* **2009**; 35:232-239.

Kneidinger N, Lindner G, Fuhrmann V, **Doberer D**, Dunkler D, Schneeweiss B, Funk GC: Acute phase proteins do not account for unmeasured anions in critically illness – a prospective observational study. *Eur J Clin Invest* **2007**; 37:820-825.

Funk GC, **Doberer D**, Kneidinger N, Lindner G, Holzinger U, Schneeweiss B: Acid-base disturbances in critically ill patients with cirrhosis. *Liver International* **2007**; 29:901-909.

**Doberer D**, Gschwandtner M, Mosgöller W, Bieglmayer C, Heinzl H, Petkov V: Pulmonary and systemic effects of inhaled PACAP38 in healthy male subjects. *Eur J Clin Invest* **2007**; 37:665-672.

Haberl I, Frei K, Ramsebner R, **Doberer D**, Petkov D, Albinni S, Langl I, Lucas T, Mosgoeller W: Vasoactive intestinal (VIP) gene alterations patients with idiopathic pulmonary hypertension (IPAH). *Eur J Hum Genet* **2007**; 15:18-22

Funk GC, **Doberer D**, Fuhrmann V, Haunschmidt W, Holzinger U, Madl C, Österreicher C, Schneeweiss B: The acidifying effect of lactate is neutralized by the alkalinizing effect of hypoalbuminemia in acute liver failure. *J Hepatol* **2006**; 45:387-392.

Funk GC, **Doberer D**, Österreicher C, Peck-Radosavljevic M, Schmid M, Schneeweiss B: Equilibrium of acidifying and alkalinizing metabolic acid-base disorders in cirrhosis. *Liver International* **2005**; 25:505-512.

Funk GC, **Doberer D**, Heinze G, Madl C, Holzinger U, Schneeweiss B: Changes of serum chloride and metabolic acid-base state in critical illness. *Anaesthesia* **2004**; 59:1111-1115.

**Doberer D**, Slugovc C, Schmid R, Kirchner K, Mereiter K: Coordination Chemistry of 2,6-Bis(oxazoliny)-pyridine Ruthenium Complexes. *Monatsh Chem* **1999**; 130:717-723.

Slugovc C, Gemel C, Shen JY, **Doberer D**, Schmid R, Kirchner K, Mereiter K: Synthesis and Characterization of Ruthenium Tris(pyrazolyl)borate Complexes Containing NN-, NS-, NNN-, and OO-Donor CO-Ligands. *Monatsh Chem* **1999**; 130:363-375.

Slugovc C, **Doberer D**, Gemel C, Schmid R, Kirchner K, Winkler B, Stelzer F: Ruthenium Catalyzed Homocoupling of Terminal Alkynes. *Monatsh Chem* **1998**; 129:221-233.

## Reviews

**Doberer D**, Trejo Bittar HE, Wenzel SE: Should lung biopsies be performed in patients with severe asthma? *Eur Respir Rev* **2015**; 24:529-539.

**Doberer D**: Lungenkarzinom: Screening mit Low Dose CT. *Ärzte-Woche* **2013**; 36:26-27.

**Doberer D**: Adverse Drug Reaction – Teil 2. *Clinicum Pneumo* **2011**; 2:12-15.

**Doberer D**: Adverse Drug Reaction – Teil 1. *Clinicum Pneumo* **2011**; 1:12-15.

Petkov V, **Doberer D**: Pulmonale Hypertonie. *J Hypertonie* **2003**; 7:7-14.

## Letters and case reports:

**Doberer D**, Loerting T, Kirchner K, Funk GC: The many faces of “evidence” for dependent and independent variables in the ‘Stewart approach’. *Int Care Med* **2010**; 36:1626-1627.

**Doberer D**, Funk GC: Reply to Gatz and Ring. *Int Care Med* **2009**; 35:2185-2186.

Funk GC, **Doberer D**, Kneidinger N, Lindner G, Schneeweiss B: Letter to the editor – Three methods of evaluation of metabolic acid base disorders. *Crit Care Med* **2007**; 35:2000-2001.

**Doberer D**, Errhalt P, Kneussl M: Pulmonal-arterielle Hypertension - Fataler Krankheitsverlauf bei junger Patientin mit zunehmender Atemnot. *Universum Innere Medizin* **2007**, 5:74-75.

Funk GC, **Doberer D**, Lindner G, Kneidinger N, Schneeweiss B: Letter to the editor – Use of the physiochemical acid-base approach for mortality prediction in trauma intensive care unit patients. *J Trauma* **2005**; 59:1034.

Funk GC, **Doberer D**, Petkov V, Block LH: Letter to the editor – Hyperglycemia, bronchial artery sclerosis, and lung function. *Am J Resp Crit Care Med* **2004**; 169:427.

**Doberer D**, Funk GC, Schneeweiss B: Letter to the editor – Dilutional acidosis - an endless story of confusion. *Crit Care Med* **2003**; 31:337-338.

## Abstracts and poster presentations:

**Doberer D**, Auer W, Löffler-Ragg J, Kähler C, Moritz K, Kneussl M, Messner J, Lins F, Cerkl P, Kaufmann E, Flicker M, Klade S, Lamprecht B, Rowhani M, Mikes R, Studnicka M, Zacharasiewicz A, Marth K, Pohl W, Lang B, Eckmayr J, Wantke F: The Austrian Severe Asthma Registry. Accepted as abstract and poster presentation at the Annual Meeting 2015 of the Austrian Society of Pneumology, Graz, Austria, October 15-17, **2015**.

Ghanem R, Reichardt B, Wolzt M, **Doberer D**: Estimating severe asthma prevalence in Austria using nationwide prescription data. Accepted as abstract and poster presentation at the ERS 2015 annual congress, Amsterdam, Netherlands, September 26-30, **2015**.

**Doberer D**, Trejo Bittar HE, Baffi CW, Parikh AR, Nouraie SM, Holguin F, Wenzel SE: Treatment-resistant severe asthma is associated with autoimmune disease. Abstract and poster presentation at the 2015 American Thoracic Society International Conference, Denver, Colorado, United States, May 15-20, **2015**.

**Doberer D**, Mostbeck G, Kneussl M: From asthma to bronchiectasis - 25 years of respiratory disease? Abstract and poster presentation at the 2014 American Thoracic Society International Conference, San Diego, California, United States, May 16-21, **2014**.

**Doberer D**, Kneussl M, Lins F, Cerkl P, Löffler-Ragg J, Kähler C, Auer W, Zacharasiewicz A, Frischer T, Wantke F: The Austrian Severe Asthma Net (ASA-Net). Abstract and poster presentation at the Annual Meeting 2013 of the Austrian Society of Pneumology, Vienna, Austria, October 24-26, **2013**.

Guldoni G, Kovarik JJ, **Doberer D**, Steinberger P, Wolzt M, Zlabinger GJ: Differential immunomodulatory effects of resveratrol. Abstract and poster presentation at European Congress of Immunology, Glasgow, Scotland, UK, September 5-8, **2012**.

**Doberer D**, Schreder M, Hubner M, Sperr W, Staudinger T, Simonitsch-Klupp I, Mostbeck G, Kneussl M: Lymphoid interstitial pneumonia (LIP) in variable immunodeficiency syndrome (CVID). Abstract and oral presentation at the Annual Meeting 2012 of the Austrian Society of Pneumology, Salzburg, Austria, June 14-16, **2012**.

Bulmer A, Wallner M, Moelzer C, Marculesco R, **Doberer D**, Wagner KH: Mildly elevated bilirubin is associated with increased circulating IL-1b and decreased IL-6 concentrations but not with C-reactive protein in Gilbert's syndrome. Abstract and poster presentation at 7th International congress on heme oxygenase and related enzymes, Edinburgh, Scotland, UK, May 28 – June 1, **2012**.

Bildheim V, Reichardt B, Wolzt M, **Doberer D**: Factors associated with better asthma control in eastern Austria. Abstract and poster presentation at the ERS 2011 annual congress, Amsterdam, Netherlands, September 24-28, **2011**.

**Doberer D**, Bilban M, Haschemi A, Zapf TC, Wagner O, Wolzt M: GT length polymorphism and inducibility of heme oxygenase-1 by heme arginate in humans. Abstract and poster presentation at Heme Oxygenases in Biology and Medicine – 6th International Congress, Miami, Florida, USA, September 30 – October 4, **2009**.

**Doberer D**, Bilban M, Haschemi A, Andreas M, Wagner O, Wolzt M: Heme oxygenase-1 stimulation by heme arginate in healthy male volunteers. Abstract and poster presentation at EACPT 2009 congress, Edinburgh, UK, July 12-15, **2009**.

Andreas M, Schmid AI, **Doberer D**, Moser E, Roden M, Wolzt M: Re-establishment of normal blood flow is mandatory to restore intramuscular high energy phosphate levels after transient ischemia. Abstract and poster presentation at EPHAR 2008 congress, Manchester, UK, July 13-17, **2008**.

Andreas M, Schmid AI, Bartko J, **Doberer D**, Moser E, Wolzt M: Muscular fMRI in reperfusion-ischemia injury is influenced by venous filling. Abstract and poster presentation at EACPT 2009 congress, Edinburgh, UK, July 12-15, **2009**.

**Doberer D**, Funk GC, Kneidinger N, Lindner G, Kneussl M, Schneeweiss B: Base excess – a universal parameter for quantification of several metabolic and respiratory acid-base disorders. Abstract and poster presentation at ERS 2006 annual congress, Munich, Germany, September 2-6, **2006**.

Funk GC, **Doberer D**, Heinz G, Kitzberger R, Schellongowski P, Schneeweiss B: The chloride/sodium ratio fails to predict presence of lactic acidosis in critically ill adults. Abstract and poster presentation at the 18<sup>th</sup> ESICM annual congress, Amsterdam, Netherlands, September 25-28, **2005**.

**Doberer D**, Baghestanian M, Burian B, Funk GC, Gschwandtner M, Petkov V, Block LH: Pituitary adenylate cyclase-activating peptide (PACAP38) can be safely inhaled in humans. Abstract and poster presentation at ATS 2004 annual congress, Orlando, Florida, May 21-26, **2004**.

**Doberer D**, Funk GC, Holzinger U, Schneeweiss B, Block LH: Quantification of respiratory acid-base disorders by a respiratory base excess. Abstract and poster presentation at the 16th ESICM annual congress, Amsterdam, Netherlands, October 5-8, **2003**.

Funk GC, **Doberer D**, Heinze G, Holzinger U, Schneeweiss B, Zauner C, Block LH: Changes of serum chloride determine metabolic acid-base state in critical illness. Abstract and poster presentation at the 16th ESICM annual congress, Amsterdam, Netherlands, October 5-8, **2003**.

Funk GC, Burian B, **Doberer D**, Petkov V, Vonbank K, Block LH: Case report: Inhaled VIP improved pulmonary gas exchange in acute respiratory distress syndrome (ARDS). Abstract and poster presentation at the 13th ERS annual congress, Vienna, Austria, September 27-October 1, **2003**.

Funk GC, Bauer E, Burian B, **Doberer D**, C Lambers, Petkov V, Schneeweiss B, Vonbank K, Block LH: Case report: Chloride is the major determinant of metabolic acid-base state in critically ill patients. Abstract and poster presentation at ATS 2003, Seattle, Washington, May 16-21, **2003**; Am J Resp Crit Care Med 2003; 167(Suppl.):A254.

**Doberer D**, Funk GC, Schneeweiss B: Accurate quantification of unmeasured anions – comparison of methods. Abstract and poster presentation at CHEST 2002, San Diego, California, November 2-7, **2002**.



Funk GC, Bauer E, **Doberer D**, Fuhrmann V, Petkov V, Vonbank K, Schneeweiss B, Block LH:  
Undercompensated severe metabolic acidosis in ventilated patients. Abstract and poster presentation at  
CHEST 2002, San Diego, California, November 2-7, **2002**.

Funk GC, Bauer E, **Doberer D**, Fuhrmann V, Gendo A, Haunschmidt W, Kramer L, Madl C, Peck-Radosaljevic  
M, Rathheiser K, Schenk P, Schmid M, Zauner C, Schneeweiss B: Hidden metabolic acid-base disorders in  
critically ill cirrhotic patients. Abstract and poster presentation at WIT 2002, Vienna, Austria, February 21-  
23, **2002**.