

## *Curriculum Vitae*

**Veronika Grau** Professor, Dr. rer. nat.  
d.o.b. June 26th, 1960, in Düsseldorf, Germany

### **University Education**

2000 Habilitation Anatomy and Cell Biology, Philipps University Marburg  
1998 Board Certification in Anatomy  
1990 Doctorate (Dr. rer. nat.) Biology, Albert-Ludwigs University Freiburg  
1979–1985 Studies of Biology, Albert-Ludwigs University Freiburg

### **Scientific Career**

Since 2020 Member, Cardio-Pulmonary Institute (CPI)  
Since 2014 Coordinator of the disease area End-Stage Lung Disease of the DZL  
Since 2012 Member, German Center for Lung Research (DZL)  
Since 2009 Member, Universities of Giessen and Marburg Lung Center (UGMLC)  
2008–2018 Member, Excellence Cluster Cardio-Pulmonary System (ECCPS)  
Since 2003 Head, Laboratory of Experimental Surgery, Department of General and Thoracic Surgery, JLU  
1993–2003 Assistant Professor, Department of Medicine, Philipps University Marburg  
1991–1993 Postdoctoral Fellow (founded by the German Research Foundation), Ecole Normale Supérieure, Paris  
1988–1991 Research Associate, Institute of Zoology, Albert-Ludwigs University Freiburg

### **Awards and Honors**

1986–1988 Scholarship holder of the German Academic Scholarship Foundation

### **Citation Record**

*Total citations: 4,680; h-index: 28; h-index since 2017: 16* (Google Scholar July 20<sup>th</sup>, 2022)

## Top-10 selected Publications

Richter K, Sagawe S, Hecker A, Küllmar M, Askevold I, Damm J, Heldmann S, Pöhlmann M, Ruhrmann S, Sander M, Schlüter K-D, Wilker S, König IR, Kummer W, Padberg W, Hone AJ, McIntosh JM, Zakrzewicz AT, Koch C, **Grau V**. C-Reactive protein stimulates nicotinic acetylcholine receptors to control ATP-mediated monocytic inflammasome activation. *Front Immunol* 2018; 9:1604. doi: [10.3389/fimmu.2018.01604](https://doi.org/10.3389/fimmu.2018.01604).

Siebers K, Fink B, Zakrzewicz A, Agné A, Richter K, Konzok S, Hecker A, Zukunft S, Küllmar M, Klein J, McIntosh JM, Timm T, Sewald K, Padberg W, Aggarwal N, Chamulitrat W, Santoso S, Xia W, Janciauskiene S, **Grau V**. Alpha-1 antitrypsin inhibits ATP-mediated release of interleukin-1 $\beta$  via CD36 and nicotinic acetylcholine receptors. *Front Immunol* 2018; 9:877. doi: [10.3389/fimmu.2018.00877](https://doi.org/10.3389/fimmu.2018.00877).

Marchetti C, Swartzwelter B, Gamboni F, Neff CP, Richter K, Azam T, Carta S, Tengesdal I, Nemkov T, D'Alessandro A, Henry C, Jones GS, Goodrich SA, St Laurent JP, Jones TM, Scribner CL, Barrow RB, Altman RD, Skouras DB, Gattorno M, **Grau V**, Janciauskiene S, Rubartelli A, Joosten LAB, Dinarello CA. (2018) OLT1177, a  $\beta$ -sulfonyl nitrile compound, safe in humans, inhibits the NLRP3 inflammasome and reverses the metabolic cost of inflammation. *Proc Natl Acad Sci U S A* (2018); 115(7):E1530-9. doi: [10.1073/pnas.1716095115](https://doi.org/10.1073/pnas.1716095115).

Atanasova S, Hirschburger M, Jonigk D, Obert M, Petri K, Evers A, Hecker A, Schmitz J, Kaufmann A, Wilhelm J, Chakraborty T, Warnecke G, Gottlieb J, Padberg W, **Grau V**. A relevant experimental model for human bronchiolitis obliterans syndrome. *J Heart Lung Transplant* 2013; 32(11):1131-9. doi: [10.1016/j.healun.2013.07.016](https://doi.org/10.1016/j.healun.2013.07.016).

Seifart C, Muylal JP, Plagens A, Yildirim AÖ, **Grau V**, Sandu S, Tschernig T, Vogelmeier C, Fehrenbach H. ATRA fails to inhibit inflammatory shift in macrophages resulting in distorted lung septa. *Eur Respir J* 2011; 38(2):425-39. doi: [10.1183/09031936.00123809](https://doi.org/10.1183/09031936.00123809).

Ziegler-Heitbrock L, Ancuta P, Crowe S, Dalod M, **Grau V**, Hart DN, Leenen PJ, Liu YJ, Macpherson G, Randolph GJ, Scherberich J, Schmitz J, Shortman K, Sozzani S, Strobl H, Zembala M, Austyn JM, Lutz MB. Nomenclature of monocytes and dendritic cells in blood. *Blood* 2010; 116(16):e74-80. doi: [10.1182/blood-2010-02-258558](https://doi.org/10.1182/blood-2010-02-258558).

Hirschburger M, Zakrzewicz A, Kummer W, Padberg W, **Grau V**. Nicotine attenuates macrophage infiltration in experimental rat lung allografts. *J Heart Lung Transplant* 2009; 28(5):493-500. doi: [10.1016/j.healun.2009.02.005](https://doi.org/10.1016/j.healun.2009.02.005).

Sadovski J, Kuchenbuch T, Ruppert C, Fehrenbach A, Hirschburger M, Padberg W, Günther A, Hohlfeld JM, Fehrenbach H, **Grau V**. Keratinocyte growth factor prevents intraalveolar oedema in experimental lung isografts. *Eur Respir J* 2008; 31(1):21-8. doi: [10.1183/09031936.00011707](https://doi.org/10.1183/09031936.00011707).

Blöcher S, Wilker S, Sucke J, Pfeil U, Dietrich H, Weimer R, Steger K, Kaufmann A, Hirschburger M, Plötz C, Padberg W, **Grau V**. Acute rejection of experimental lung allografts: Characterization of intravascular mononuclear leukocytes. *Clin Immunol* 2007; 124(1):8-108. doi: [10.1016/j.clim.2007.04.005](https://doi.org/10.1016/j.clim.2007.04.005).

Hirschburger M, Greschus S, Kuchenbuch T, Plötz C, Obert M, Traupe H, Padberg W, **Grau V**. Lung transplantation in the Fischer 344 to Wistar Kyoto rat strain combination is not suitable to study bronchiolitis obliterans. *J Heart Lung Transplant* 2007; 26(4):390-8. doi: [10.1016/j.healun.2007.01.018](https://doi.org/10.1016/j.healun.2007.01.018).