

## *Curriculum Vitae*

**Olaf Holz** Dr. rer.nat, Dipl. Bio. Ing.  
d.o.b. February 17th, 1962, in Hamburg, Germany

### **University Education**

1989 Diploma Bioengineering, Hamburg University of Applied Sciences  
2006 PhD, University of Lüneburg, Germany

### **Scientific Career**

Since 2010 Fraunhofer ITEM, Hannover, Germany  
1993-2010 Hospital Grosshansdorf, Center for Pneumology and Thoracic Surgery, Grosshansdorf, Germany  
1992-1993 Department of Occupational Health, University Hospital Vienna, Prof. Dr. HW Rüdiger, Vienna, Austria  
1989-1992 Group Toxikogenetics, Occupational Medicine, Prof. Dr. HW Rüdiger, University Hamburg

### **Patents**

WO 2010/151640 A2: Compositions and Methods for the diagnosis and treatment of inflammatory disorders and fibrotic disease. SI Rennard, T Sato, X Liu, **O Holz**, H Magnussen

EP3982777A1/2020: Sensor module and method for determining an aerosol dose rate. J Hohlfeld, G Pohlmann, **O Holz**

### **Citation Record**

*Total citations: 4,561; h-index: 35; h-index since 2017: 8 (Web Of Science July 25<sup>th</sup>, 2022)*

### Top-10 selected Publications

Sadiq MW, **Holz O**, Ellinghusen BD, Faulenbach C, Müller M, Badorrek P, Eriksson UG, Fridén M, Stomilovic S, Lundqvist AJ, Hohlfeld JM. Lung pharmacokinetics of inhaled and systemic drugs: A clinical evaluation. **Br J Pharmacol**. 2021;178(22):4440-4451. doi: 10.1111/bph.15621. PMID: 34250588.

Waschki B, Kirsten AM, **Holz O**, Mueller KC, Schaper M, Sack AL, Meyer T, Rabe KF, Magnussen H, Watz H. Disease Progression and Changes in Physical Activity in Patients with Chronic Obstructive Pulmonary Disease. **Am J Respir Crit Care Med**. 2015;192(3):295-306. doi: 10.1164/rccm.201501-0081OC. PMID: 26020495.

Basma H, Gunji Y, Iwasawa S, Nelson A, Farid M, Ikari J, Liu X, Wang X, Michalski J, Smith L, Iqbal J, El Behery R, West W, Yelamanchili S, Rennard D, **Holz O**, Mueller KC, Magnussen H, Rabe K, Castaldi PJ, Rennard SI. Reprogramming of COPD lung fibroblasts through formation of induced pluripotent stem cells. **Am J Physiol Lung Cell Mol Physiol**. 2014;306(6):L552-65. doi: 10.1152/ajplung.00255.2013. PMID: 24487392.

**Holz O**, Magnussen H. Cutoff values for FENO-guided asthma management. **Am J Respir Crit Care Med**. 2009;180(3):281-2; doi: 10.1164/ajrccm.180.3.281a. PMID: 19633157.

Togo S, **Holz O**, Liu X, Sugiura H, Kamio K, Wang X, Kawasaki S, Ahn Y, Fredriksson K, Skold CM, Mueller KC, Branscheid D, Welker L, Watz H, Magnussen H, Rennard SI. Lung fibroblast repair functions in patients with chronic obstructive pulmonary disease are altered by multiple mechanisms. **Am J Respir Crit Care Med**. 2008;178(3):248-60. doi: 10.1164/rccm.200706-929OC. PMID: 18467512.

Veres TZ, Rochlitzer S, Shevchenko M, Fuchs B, Prenzler F, Nassenstein C, Fischer A, Welker L, **Holz O**, Müller M, Krug N, Braun A. Spatial interactions between dendritic cells and sensory nerves in allergic airway inflammation. **Am J Respir Cell Mol Biol**. 2007;37(5):553-61. doi: 10.1165/rcmb.2007-0087OC. PMID: 17600312.

Yang IA, **Holz O**, Jörres RA, Magnussen H, Barton SJ, Rodríguez S, Cakebread JA, Holloway JW, Holgate ST. Association of tumor necrosis factor-alpha polymorphisms and ozone-induced change in lung function. **Am J Respir Crit Care Med**. 2005;171(2):171-6. doi: 10.1164/rccm.200402-194OC. PMID: 15486341.

Taube C, **Holz O**, Mücke M, Jörres RA, Magnussen H. Airway response to inhaled hypertonic saline in patients with moderate to severe chronic obstructive pulmonary disease. **Am J Respir Crit Care Med**. 2001;164(10 Pt 1):1810-5. doi: 10.1164/ajrccm.164.10.2104024. PMID: 11734428.

Jörres RA, **Holz O**, Zachgo W, Timm P, Koschyk S, Müller B, Grimminger F, Seeger W, Kelly FJ, Dunster C, Frischer T, Lubec G, Waschewski M, Niendorf A, Magnussen H. The effect of repeated ozone exposures on inflammatory markers in bronchoalveolar lavage fluid and mucosal biopsies. **Am J Respir Crit Care Med**. 2000;161(6):1855-61. doi: 10.1164/ajrccm.161.6.9908102. PMID: 10852757.

**Holz O**, Jörres RA, Timm P, Mücke M, Richter K, Koschyk S, Magnussen H. Ozone-induced airway inflammatory changes differ between individuals and are reproducible. **Am J Respir Crit Care Med**. 1999;159(3):776-84. doi: 10.1164/ajrccm.159.3.9806098. PMID: 10051250.