

Prof. Dr. med. Bernhard Zwissler (*April 4th, 1960)

Head of the Department of
Anesthesiology

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University Education

1985 Doctorate in Medicine (Dr. med.)
1984 State examination and Approbation as a physician
1978-1984 Studies of Medicine at LMU Munich

Scientific Career

2007 (ongoing) Director, Dept. of Anesthesiology, LMU Munich
2015-2018 Director (prov.), Dept. of Transfusion Medicine, LMU Munich
2011-2013 Director (prov.), Institute of Emergency Medicine & Medical Management, LMU
2011-2016 Member, Scientific Board, German Research Foundation (DFG)
2005 Member, Naturforscher Leopoldina / German National Academy of Science'
2003-2007 Director, Dept. of Anesthesiology, Intensive Care and Pain Therapy, Goethe-University, Frankfurt
2002 Visiting Professorship at the Harvard Medical School, Boston, USA
1997 Full Professor of Anaesthesiology; Dept. of Anesthesiology, LMU Munich
1994-1996 Board certification in 'Intensive Care Medicine', 'Anesthesiology' and 'Emergency Medicine'
1992 Habilitation (PhD)
1987-1990 Research projects at the Dept. of Experimental Surgery, University of Heidelberg
1986-1996 Residency in Anesthesiology; Dept. of Anesthesiology, LMU Munich
1985-1986 Military Service (as a physician)

Positions in medical societies

2020 (ongoing) General Secretary, German Society of Anesthesiology and Intensive Care Medicine (DGAI)
2019 Past President, DGAI
2017-2018 President, DGAI
2016 Vice President, DGAI
2008-2024 Member, Board of Trustees, Goethe-University, Frankfurt

Awards & honors

2026 Award of the *Seal of the German Society for Surgery* (DGCH)
2024 Award of *Honorary citizenship* of the Johann Wolfgang Goethe University Frankfurt am Mai
2005 Award for *Excellence in Teaching*, Johann Wolfgang Goethe University Frankfurt
1993 *Karl-Thomas-Preis* der Deutschen Gesellschaft für Anästhesiologie und Intensivmedizin (DGAI)

Scientific publication / Editorship

2020 (ongoing) Editor; Textbook of Surgery for Anesthesiologists, Springer Verlag, Heidelberg
2008 (ongoing) Editor in Chief, Journal „*Die Anaesthesiologie*“
2005 (ongoing) Editor; Textbook of *Anesthesiology*, Springer Verlag, Heidelberg

Top-ten selected Publications (within the field of pulmonary diseases)

Vorstandlechner M, Schneider CP, Fertmann JM, Michel S, Kneidinger N, Walter J, Irlbeck M, Hatz RA, Behr J, **Zwissler B**, Hagl C, Meiser B, Kauke T; Thirty years of lung transplantation: development of postoperative outcome and survival over three decades. *J Thorac Dis.* 2024 Dec 31;16(12):8513-8527

Schmid B, Kranke P, Lucas R, Meybohm P, **Zwissler B**, Frank S.; Safety and preliminary efficacy of sequential multiple ascending doses of solnatide to treat pulmonary permeability edema in patients with moderate to severe ARDS in a randomized, placebo-controlled, double-blind trial: preliminary evaluation of safety and feasibility in light of the COVID-19 pandemic. *Trials.* 2022 Apr 4;23(1):252.

Nicolai L, Leunig A, Brambs S, Kaiser R, Joppich M, Hoffknecht ML, Gold C, Engel A, Polewka V, Muenchhoff M, Hellmuth JC, Ruhle A, Ledderose S, Weinberger T, Schulz H, Scherer C, Rudelius M, Zoller M, Keppler OT, **Zwissler B**, von Bergwelt-Baildon M, Käab S, Zimmer R, Bülow RD, von Stillfried S, Boor P, Massberg S, Pekayvaz K, Stark K. J Vascular neutrophilic inflammation and immunothrombosis distinguish severe COVID-19 from influenza pneumonia. *Thromb Haemost.* 2021 Feb;19(2):574-581.

Wratil PR, Schmacke NA, Karakoc B, Dulovic A, Junker D, Becker M, Rothbauer U, Osterman A, Spaeth PM, Ruhle A, Gapp M, Schneider S, Muenchhoff M, Hellmuth JC, Scherer C, Mayerle J, Reincke M, Behr J, Käab S, **Zwissler B**, von Bergwelt-Baildon M, Eberle J, Kaderali L, Schneiderhan-Marra N, Hornung V, Keppler OT. Evidence for increased SARS-CoV-2 susceptibility and COVID-19 severity related to pre-existing immunity to seasonal coronaviruses. *Cell Rep.* 2021 Dec 28;37(13):110169.

Hoechter DJ, Becker-Pennrich A, Langrehr J, Bruegel M, **Zwissler B**, Schaefer S, Spannagl M, Hinske LC, Zoller M. Higher procoagulatory potential but lower DIC score in COVID-19 ARDS patients compared to non-COVID-19 ARDS patients. *Thromb Res.* 2020 Dec;196:186-192

Nicolai L, Leunig A, Brambs S, Kaiser R, Weinberger T, Weigand M, Muenchhoff M, Hellmuth JC, Ledderose S, Schulz H, Scherer C, Rudelius M, Zoller M, Höchter D, Keppler O, Teupser D, **Zwissler B**, von Bergwelt-Baildon M, Käab S, Massberg S, Pekayvaz K, Stark K. Immunothrombotic Dysregulation in COVID-19 Pneumonia Is Associated With Respiratory Failure and Coagulopathy. *Circulation.* 2020 Sep 22;142(12):1176-1189.

Winterhalter M, Rex S, Stoppe C, Kienbaum P, Müller HH, Kaufmann I, Kuppe H, Dongas A, **Zwissler B**; ILOCARD Investigators. Effect of iloprost inhalation on postoperative outcome in high-risk cardiac surgical patients: a prospective randomized-controlled multicentre trial (ILOCARD). *Can J Anaesth.* 2019 Aug;66(8):907-920.

Boost KA, Hoegl S, Hofstetter C, Flondor M, Stegwerth K, Platacis I, Pfeilschifter J, Muhl H, **Zwissler B**. Targeting caspase-1 by inhalation-therapy: effects of Ac-YVAD-CHO on IL-1 beta, IL-18 and downstream proinflammatory parameters as detected in rat endotoxaemia. *Intensive Care Med.* 2007 May;33(5):863-871

Hofstetter C, Flondor M, Hoegl S, Muhl H, **Zwissler B**. Interleukin-10 aerosol reduces proinflammatory mediators in bronchoalveolar fluid of endotoxemic rat. *Crit Care Med.* 2005 Oct;33(10):2317-2322.

Zwissler B, Kemming G, Habler O, Kleen M, Merkel M, Haller M, Briegel J, Welte M, Peter K. Inhaled prostacyclin (PGI₂) versus inhaled nitric oxide in adult respiratory distress syndrome. *Am J Respir Crit Care Med.* 1996 Dec;154(6 Pt 1):1671-1677.

Zwissler B, Welte M, Habler O, Kleen M, Messmer K. J. Effects of inhaled prostacyclin as compared with inhaled nitric oxide in a canine model of pulmonary microembolism and oleic acid edema. *Cardiothorac Vasc Anesth.* 1995 Dec;9(6):634-640