

Curriculum Vitae

Malgorzata Wygrecka: Professor, Dr. biol. hum.

d. o. b. May 18th 1977, in Krakow, Poland

University Education

- 2001-2004 Doctoral thesis in Human Biology, Department of Internal Medicine, JLU
- 2001-2004 International Graduate Program: Molecular Biology and Medicine of the Lung (MBML), JLU
- 1999-2000 Tempus research grant, Department of Blood Coagulation and Plasma Proteins, Central Laboratory of Blood Transfusion, Amsterdam, The Netherlands
- 1998 School of Biotechnology, Medical University of Gdansk, Gdansk, Poland
- 1996-2001 Studies of Biotechnology, Jagiellonian University, Krakow, Poland

Scientific Career

- 2024 - 2028 Principle Investigator, Collaborative Research Center 1213 - Pulmonary Hypertension
- 2023 Co-organizer of the Tissue, Matrix, and Pathobiology Meeting, Salt Lake City, Utah
- Since 2022 Adjunct faculty member of the Institute for Lung Health, JLU
- Since 2022 Editorial board member of *AJP-Cell Physiology*
- Since 2021 Steering committee member of the Clinician Scientist Program JLU-CAREER, JLU
- Since 2021 Member of the doctoral committee, Faculty of Medicine, JLU
- 2022 Member of the organizing committee of the Gordon Research Conference on Proteoglycans, Andover, New Hampshire
- 2019 -2024 Co-chair of the Scientific and Standardization Subcommittee "Factor XI and the Contact System" of the International Society on Thrombosis and Haemostasis
- Since 2014 W2 Professorship for Diffuse Parenchymal Lung Diseases, DZL
- 2012-2018 Junior area leader of the area „Fibrosis and Matrix Regulation“ of ECCPS
- Since 2011 Faculty member of the German Center for Lung research (DZL)
- Since 2011 Faculty member of the Excellence Cluster Cardio-Pulmonary System/Cardio-Pulmonary Institute (ECCPS/CPI)
- 2010 - 2023 Principle Investigator, Collaborative Research Center Transregio - TR 84 - Angeborene Immunität der Lunge: Mechanismen des Pathogenangriffs und der Wirtsabwehr in der Pneumonie
- 2008 - 2014 Independent research group leader, Department of Biochemistry, JLU
- 2004 - 2008 Post-doctoral fellow, Department of Biochemistry, JLU

Awards and honours

- 2017 LUNGENFIBRO2E®e.V. Research Award
- 2015 PneumoUpdate Research Award, Igls, Austria
- 2013 Innovation Award of the “ Medizinischen Gesellschaft Giessen“, JLU
- 2012 Research Award of the German Society for Pneumology and Respiratory Medicine
- 2011 Young Investigator Award, 117th Conference of the German Society for Internal Medicine, Wiesbaden, Germany
- 2009 Behring-Röntgen Foundation Research Award
- 2008 Young Investigator Award, 5th International Conference on Serpin Biology, Leuven, Belgium
- 2007 Young Investigator Award, XIth International Workshop of Molecular & Cellular Biology of Plasminogen Activation, Var Gard Saltsjöbaden, Sweden
- 2000 EU mobility grant

Citation Record

Total citations: 8302; h-index: 57; h-index since 2021: 39 (Google Scholar, March, 2026)

Top-10 selected Publications

Adams F, Zimmermann CM, Baldassi D, Pehl TM, Weingarten P, Kachel I, Kränzlein M, Jürgens DC, Braubach P, Alexopoulos I, **Wygrecka M**, Merkel OM. Pulmonary siRNA Delivery with Sophisticated Amphiphilic Poly(Spermine Acrylamides) for the Treatment of Lung Fibrosis. **Small**. 2024, 20:e2308775. doi: 10.1002/smll.202308775

Ryan TAJ, Hooftman A, Rehill AM, Johansen MD, Brien ECO, Toller-Kawahisa JE, Wilk MM, Day EA, Weiss HJ, Sarvari P, Voza EG, Schramm F, Peace CG, Zotta A, Miemczyk S, Nalkurthi C, Hansbro NG, McManus G, O'Doherty L, Gargan S, Long A, Dunne J, Cheallaigh CN, Conlon N, Carty M, Fallon PG, Mills KHG, Creagh EM, Donnell JSO, Hertzog PJ, Hansbro PM, McLoughlin RM, **Wygrecka M**, Preston RJS, Zaslona Z, O'Neill LAJ. Dimethyl fumarate and 4-octyl itaconate are anticoagulants that suppress Tissue Factor in macrophages via inhibition of Type I Interferon.

Nat Commun. 2023, 14(1):3513. doi: 10.1038/s41467-023-39174

Wygrecka M, Birnhuber A, Seeliger B, Michalick L, Pak O, Schultz AS, Schramm F, Zacharias M, Gorkiewicz G, David S, Welte T, Schmidt JJ, Weissmann N, Schermuly RT, Barreto G, Schaefer L, Markart P, Brack MC, Hippenstiel S, Kurth F, Sander LE, Witzernath M, Kuebler WM, Kwapiszewska G, Preissner KT. Altered fibrin clot structure and dysregulated fibrinolysis contribute to thrombosis risk in severe COVID-19. **Blood Adv**. 2022, 6:1074-1087. doi: 10.1182/bloodadvances.2021004816

Birnhuber A, Fließner E, Gorkiewicz G, Zacharias M, Seeliger B, David S, Welte T, Schmidt J, Olschewski H, **Wygrecka M***, Kwapiszewska G*. Between inflammation and thrombosis: endothelial cells in COVID-19. **Eur Respir J**. 2021, 58:2100377. doi: 10.1183/13993003.00377-2021. * These authors contributed equally.

Kwapiszewska G, Gungl A, Wilhelm J, Marsh LM, Thekkekara Puthenparampil H, Sinn K, Didiasova M, Klepetko W, Kosanovic D, Schermuly RT, Wujak L, Weiss B, Schaefer L, Schneider M, Kreuter M, Olschewski A, Seeger W, Olschewski H, **Wygrecka M**. Transcriptome profiling reveals the complexity of pirfenidone effects in idiopathic pulmonary fibrosis. **Eur Respir J**. 2018, 52:1800564. doi: 10.1183/13993003.00564-2018.

Wygrecka M, Kosanovic D, Wujak L, Reppe K, Henneke I, Frey H, Didiasova M, Kwapiszewska G, Marsh LM, Baal N, Hackstein H, Zakrzewicz D, Müller-Redetzky HC, de Maat S, Maas C, Nolte MW, Panousis C, Schermuly RT, Seeger W, Witzernath M, Schaefer L, Markart P. Antihistone Properties of C1 Esterase Inhibitor Protect against Lung Injury. **Am J Respir Crit Care Med**. 2017, 196:186-199. doi: 10.1164/rccm.201604-0712OC.

Kwapiszewska G, Markart P, Dahal BK, Kojonazarov B, Marsh LM, Schermuly RT, Taube C, Meinhardt A, Ghofrani HA, Steinhoff M, Seeger W, Preissner KT, Olschewski A, Weissmann N, **Wygrecka M**. PAR-2 inhibition reverses experimental pulmonary hypertension. **Circ Res**. 2012, 110: 1179-1191. doi: 10.1161/CIRCRESAHA.111.257568.

Wygrecka M, Wilhelm J, Jablonska E, Zakrzewicz D, Preissner KT, Seeger W, Guenther A, Markart P. Shedding of low-density lipoprotein receptor-related protein-1 in acute respiratory distress syndrome. **Am J Respir Crit Care Med**. 2011, 184:438-48. doi: 10.1164/rccm.201009-1422OC

Wygrecka M, Kwapiszewska G, Jablonska E, Gerlach S, Henneke I, Zakrzewicz D, Guenther A, Preissner KT, Markart P. Role of Protease-activated Receptor-2 in Idiopathic Pulmonary Fibrosis. **Am J Respir Crit Care Med**. 2011, 183:1703-14. doi: 10.1164/rccm.201009-1479OC.

Wygrecka M, Marsh LM, Morty RE, Henneke I, Guenther A, Lohmeyer J, Markart P, Preissner KT. Enolase-1 promotes plasminogen-mediated recruitment of monocytes to the acutely inflamed lung. **Blood**. 2009, 113:5588-98. doi: 10.1182/blood-2008-08-170837.