

Curriculum Vitae

Michael Wegmann Privatdozent, Dr. rer. physiol.
d.o.b. April 21st, 1977, in Münster, Germany

University Education

2020 Habilitation Immunology & Physiology, Christian-Albrechts-University, Kiel, Germany
2005 Doctorate Human Biology, PUM
1997-2002 Studies of Human Biology, Philipps-University Marburg (PUM), Germany

Scientific Career

Since 2020 Head, Division of Lung Immunology, Research Center Borstel (FZB), Borstel, Germany
Since 2012 Principal Investigator (PI), German Center for Lung Research (DZL)
2012-2020 Head, Junior Research Group "Asthma Mouse Models", FZB
2008-2012 Senior Scientist, Division of Experimental Pneumology, FZB
2007-2008 Senior Scientist, Evonik Goldschmidt GmbH, Evonik AG, Essen, Germany
2006-2008 Co-founder & Shareholder, Sterna Biologicals GmbH, Marburg, Germany
2005-2007 Postdoctoral Fellow, Dept. of Clinical Chemistry, Hospital of the Philipps-University, Marburg, Germany

Awards and Honors

2014 Lindau Nobel Laureate Meeting
2013 Abstract Prize (Oral Presentation), EAACI Congress 2013, Milano, Italy
2007 2nd Place Science4Life Venture Cup Hessen
2005 International Scholarship Award, AAAAI, San Antonio, USA

Citation Record

Total citations: 3,647; h-index: 31; h-index since 2017: 21 (Google Scholar July 5th, 2024)

Top-10 selected Publications

The NLRP3 inflammasome inhibitor, OLT1177[®], ameliorates experimental allergic asthma in mice. Lunding LP, Skouras DB, Vock C, Dinarello CA, *Wegmann M*. *Allergy* 2022;77(3):1035-1038. doi: [10.1111/all.15164](https://doi.org/10.1111/all.15164).

IL-37 regulates allergic inflammation by counterbalancing pro-inflammatory IL-1 and IL-33. Schröder A, Lunding LP, Zissler UM, Vock C, Webering S, Ehlers JC, Orinska Z, Chaker A, Schmidt-Weber CB, Lang NJ, Schiller HB, Mall MA, Fehrenbach H, Dinarello CA, *Wegmann M*. *Allergy* 2022; 77(3):856-869. doi: [10.1111/all.15072](https://doi.org/10.1111/all.15072).

COL4A3 is degraded in allergic asthma and degradation predicts response to anti-IgE therapy. Weckmann M, Bahmer T, Sand JM, Rank Rønnow S, Pech M, Vermeulen C, Faiz A, Leeming DJ, Karsdal MA, Lunding L, Oliver BGG, *Wegmann M*, Ulrich-Merzenich G, Juergens UR, Duhn J, Laumonnier Y, Danov O, Sewald K, Zissler U, Jonker M, König I, Hansen G, von Mutius E, Fuchs O, Dittrich AM, Schaub B, Happel C, Rabe KF, van de Berge M, Burgess JK, Kopp MV; ALLIANCE Study Group as part of the German Centre for Lung Research (DZL). *Eur Respir J* 2021; 58(6):2003969. doi: [10.1183/13993003.03969-2020](https://doi.org/10.1183/13993003.03969-2020).

A prenatally disrupted airway epithelium orchestrates the fetal origin of asthma in mice. Zazara DE, *Wegmann M*, Giannou AD, Hierweger AM, Alawi M, Thiele K, Huber S, Pincus M, Muntau AC, Solano ME, Arck PC. *J Allergy Clin Immunol* 2020; 145(6):1641-1654. doi: [10.1016/j.jaci.2020.01.050](https://doi.org/10.1016/j.jaci.2020.01.050).

Impaired endothelium-mediated cerebrovascular reactivity promotes anxiety and respiration disorders in mice. Wenzel J, Hansen CE, Bettoni C, Vogt MA, Lembrich B, Natsagdorj R, Huber G, Brands J, Schmidt K, Assmann JC, Stölting I, Saar K, Sedlacik J, Fiehler J, Ludewig P, *Wegmann M*, Feller N, Richter M, Müller-Fielitz H, Walther T, König GM, Kostenis E, Raasch W, Hübner N, Gass P, Offermanns S, de Wit C, Wagner CA, Schwaninger M. *Proc Natl Acad Sci U S A* 2020; 117(3):1753-1761. doi: [10.1073/pnas.1907467117](https://doi.org/10.1073/pnas.1907467117).

IL-1R3 blockade broadly attenuates the functions of six members of the IL-1 family, revealing their contribution to models of disease. Højen JF, Kristensen MLV, McKee AS, Wade MT, Azam T, Lunding LP, de Graaf DM, Swartzwelter BJ, *Wegmann M*, Tolstrup M, Beckman K, Fujita M, Fischer S, Dinarello CA. *Nat Immunol* 2019; 20(9):1138-1149. doi: [10.1038/s41590-019-0467-1](https://doi.org/10.1038/s41590-019-0467-1).

IL-37 requires IL-18R α and SIGIRR/IL-1R8 to diminish allergic airway inflammation in mice. Lunding L, Webering S, Vock C, Schröder A, Raedler D, Schaub B, Fehrenbach H, *Wegmann M*. *Allergy* 2015; 70(4):366-73. doi: [10.1111/all.12566](https://doi.org/10.1111/all.12566).

Induction of long-lived allergen-specific plasma cells by mucosal allergen challenge. Luger EO, Fokuhl V, *Wegmann M*, Abram M, Tillack K, Achatz G, Manz RA, Worm M, Radbruch A, Renz H. *J Allergy Clin Immunol* 2009; 124(4):819-26.e4. doi: [10.1016/j.jaci.2009.06.047](https://doi.org/10.1016/j.jaci.2009.06.047).

Effective prevention and therapy of experimental allergic asthma using a GATA-3-specific DNase. Sel S & *Wegmann M*, Dicke T, Sel S, Henke W, Yildirim AO, Renz H, Garn H. *J Allergy Clin Immunol* 2008; 121(4):910-916.e5. doi: [10.1016/j.jaci.2007.12.1175](https://doi.org/10.1016/j.jaci.2007.12.1175).

A new approach to an influenza live vaccine: modification of the cleavage site of hemagglutinin. Stech J, Garn H, *Wegmann M*, Wagner R, Klenk HD. *Nat Med* 2005; 11(6):683-9. doi: [10.1038/nm1256](https://doi.org/10.1038/nm1256).