

## Curriculum Vitae

**Duda Katarzyna A.** Dr. rer. nat.

d.o.b. November 02th, 1979, in Ruda Śląska, Poland

### University Education

2007 Dr. rer. nat., University of Silesia, Poland

1999–2003 Studies of Biology, University of Silesia, MSc in Microbiology

### Scientific Career

Since 2021 Group Leader Research Group of Biofunctional Metabolites and Structures, Research Center Borstel, Leibniz Lung Center, Borstel, Germany

2016 - 2020 Head of the Junior Group of Allergobiochemistry at the Research Center Borstel, Leibniz Lung Center, Borstel, Germany

Since 2015 Lecturer at the Borstel Biomedical Research School

Since 2015 Lecturer within Erasmus+ programme, Staff mobility for teaching and training activities

Since 2018 Lecturer at the University of Lübeck, course Molecular Life Science, Infection Biology

Since 2023 Lecturer at the Christian-Albrechts-University, Kiel, course Bachelor Biology

2012 - 2015 Scientist and project leader at the Division of Structural Biochemistry, Research Center Borstel, Germany

2009 - 2012 Post doctoral fellow within DFG, Division of Structural Biochemistry, Research Center Borstel, Germany

2008 - 2009 Scholarship holder, Division of Structural Biochemistry, Research Center Borstel, Germany

2003 - 2007 Assistant at the University of Silesia, Department of Microbiology, Poland

### Citation Record

Total citations: 1255; h-index:20; h-index since 2021: 612(Google Scholar March12th, 2026)

### Top-10 selected Publications

De Simone Carone L, Barra G, Cirella R, Ziaco M, Mercogliano M, Olmeo F, Andretta E, Mazziotti V, Fusco C, D'Ippolito G, **Duda KA**, Farquharson FM, Louis P, Fontana A, Silipo A, Molinaro A, Chiodo F, Di Lorenzo F. Decoding a Gut Commensal Signal: Structural and Immunological Profiling of *Segatella Copri* Lipopolysaccharide. **Angew Chem Int Ed Engl** **2025**; 64(48):e202512947. doi: 10.1002/anie.202512947. Epub 2025 Sep 30.

González Roldán N, Lunding LP, Fujimoto Y, Düpow S, Schwudke D, Wegmann M, **Duda KA**. *Phleum pratense* pollen-derived di-galactosyldiacylglycerols promote pro-allergic responses in mice. **Front Immunol** **2025**; 16:1532773. doi: 10.3389/fimmu.2025.1532773.

Di Lorenzo F, **Duda KA**, Lanzetta R, Silipo A, De Castro C, Molinaro A. A journey from structure to function of bacterial lipopolysaccharides. **Chem Rev** **2022**; 122(20):15767–15821. doi: 10.1021/acs.chemrev.0c01321.

Du X, Larsen J, Li M., Walter A, Slavetinsky C, Both A, Sanchez Carballo PM, Stegger M, Lehmann E, Liu Y, Liu J, Slavetinsky J, **Duda KA**, Krismer B, Heilbronner S, Weidenmaier C, Mayer C, Rohde H, Winstel V, Peschel A *Staphylococcus epidermidis* clones express *Staphylococcus aureus*-type wall teichoic acid to shift from a commensal to pathogen lifestyle. **Nat Microbiol.** **2021** 6(6):757-768. doi: 10.1038/s41564-021-00913-z. PMID: 34031577.

Marchetti R, Fabregat FN, Pallach M, Gully D, Giraud E, Molinaro A, **Duda KA**, Silipo A The peculiar structure of *Acetobacter pasteurianus* CIP103108 LPS core oligosaccharide. **Chembiochem.** **2021** 22(1):147-150, doi: 10.1002/cbic.202000597.

González Roldán N, Duda KA. Role of lipids in the dynamics of allergic airway inflammation. **Front Immunol** 2020; 11:612297. doi: 10.3389/fimmu.2020.612297.

Li C, Duda KA, Elverdal PL, Skovsted IC, Kjeldsen C, Duus JO. Structural, biosynthetic, and serological cross-reactive elucidation of capsular polysaccharides from *Streptococcus pneumoniae* Serogroup 16. **J Bacteriol** 2019; 201(20):e00453-19. doi: 10.1128/JB.00453-19.

Jappe U, Schwager C, Schromm AB, González Roldán N, Stein K, Heine H, Duda KA. Lipophilic allergens, different modes of allergen-lipid interaction and their impact on asthma and allergy. **Front Immunol** 2019; 10:122. doi: 10.3389/fimmu.2019.00122.

González Roldán N, Engel R, Düpow S, Jakob K, Koops F, Orinska Z, Vigor C, Oger C, Galano JM, Durand T, Jappe U, Duda KA. Lipid mediators from timothy grass pollen contribute to the effector phase of allergy and prime dendritic cells for glycolipid presentation. **Front Immunol** 2019; 10:974. doi: 10.3389/fimmu.2019.00974.

Pallach M, Di Lorenzo F, Facchini FA, Gully D, Giraud E, Peri F, Duda KA, Molinaro A, Silipo A. Structure and inflammatory activity of the LPS isolated from *Acetobacter pasteurianus* CIP103108. **Int J Biol Macromol** 2018; 119:1027–1035. doi: 10.1016/j.ijbiomac.2018.07.058.