

Curriculum Vitae

Dominik Schwudke PD. Dr. rer. nat.
d.o.b. November 06th, 1953, in Herford, Germany

University Education

1986 Habilitation Internal Medicine, JLU
1980 Doctorate Medicine, JLU
1972–1979 Studies of Medicine, Westfälische-Wilhelms University Münster and Justus Liebig University Giessen (JLU)

Scientific Career

1992-1998 Study of Chemistry at the Humboldt-Universität zu Berlin, Germany
1998 Diploma thesis: “Environmental Chemistry of Prussian Blue” Supervisor: Prof. Dr. F. Scholz, Humboldt-Universität zu Berlin, Germany
1999-2000 Research scholarship, Prof. Dr. M. Krüger, Veterinary Microbiology, Universität zu Leipzig, Germany
2000-2003 Doctoral study in the group of Prof. Dr. M. Linscheid (Humboldt-Universität zu Berlin) and with Prof. Dr. B. Appel / Dr. E. Strauch (Robert Koch Institute, Berlin)
2004-2009 Research scientist in the laboratory of Andrej Shevchenko, Max Planck Institute of Molecular Cell Biology and Genetics, Dresden, Germany
2009-2013 Principal Investigator (Reader F), National Centre for Biological Sciences (TIFR), Bangalore, India
since 2013 Research Group Leader, Bioanalytical Chemistry, Research Center Borstel - Leibniz Lung Center, Germany
2017 Habilitation in Biochemistry at Universität zu Lübeck, Germany

Awards and Honors

2009-2013 NCBS-Merck & Co International Investigator

Citation Record

Total citations: 6,080; h-index:36; h-index since 2017: 28 (Google Scholar September 26th, 2022)

Top-10 selected Publications

Brandenburg J, Marwitz S, Tazoll SC, Waldow F, Kalsdorf B, Vierbuchen T, Scholzen T, Gross A, Goldenbaum S, Hölscher A, Hein M, Linnemann L, Reimann M, Kispert A, Leitges M, Rupp J, Lange C, Niemann S, Behrends J, Goldmann T, Heine H, Schaible UE, Hölscher C, **Schwudke D**, Reiling N. WNT6/ACC2-induced storage of triacylglycerols in macrophages is exploited by Mycobacterium tuberculosis. *J Clin Invest*. 2021 Aug 16;131(16):e141833. doi: 10.1172/JCI141833.

Azzouz D, Omarbekova A, Heguy A, **Schwudke D**, Gisch N, Rovin BH, Caricchio R, Buyon JP, Alekseyenko AV, Silverman GJ. Lupus nephritis is linked to disease-activity associated expansions and immunity to a gut commensal. *Ann Rheum Dis*. 2019 Jul;78(7):947-956. doi: 10.1136/annrheumdis-2018-214856

Hofmann S, Krajewski M, Scherer C, Scholz V, Mordhorst V, Truschow P, Schöbel A, Reimer R, **Schwudke D**, Herker E. Complex lipid metabolic remodeling is required for efficient hepatitis C virus replication. *Biochim Biophys Acta Mol Cell Biol Lipids*. 2018 Sep;1863(9):1041-1056. doi: 10.1016/j.bbalip.2018.06.002.

Müller C, Hardt M, **Schwudke D**, Neuman BW, Pleschka S, Ziebuhr J. Inhibition of Cytosolic Phospholipase A2 α Impairs an Early Step of Coronavirus Replication in Cell Culture. *J Virol*. 2018 Jan 30;92(4):e01463-17. doi: 10.1128/JVI.01463-17.

Eggers LF, Müller J, Marella C, Scholz V, Watz H, Kugler C, Rabe KF, Goldmann T, **Schwudke D**. Lipidomes of lung cancer and tumour-free lung tissues reveal distinct molecular signatures for cancer differentiation, age, inflammation, and pulmonary emphysema. *Sci Rep*. 2017 Sep 11;7(1):11087. doi: 10.1038/s41598-017-11339-1

Sezin T, Krajewski M, Wutkowski A, Mousavi S, Chakiewska L, Bieber K, Ludwig RJ, Dahlke M, Rades D, Schulze FS, Schmidt E, Kalies K, Gupta Y, Schilf P, Ibrahim SM, König P, **Schwudke D**, Zillikens D, Sadik CD. The Leukotriene B4 and its Receptor BLT1 Act as Critical Drivers of Neutrophil Recruitment in Murine Bullous Pemphigoid-Like Epidermolysis Bullosa Acquisita. *J Invest Dermatol*. 2017 May;137(5):1104-1113. doi: 10.1016/j.jid.2016.12.021.

Leidinger P, Treptow J, Hagens K, Eich J, Zehethofer N, **Schwudke D**, Oehlmann W, Lünsdorf H, Goldmann O, Schaible UE, Dittmar KE, Feldmann C. Isoniazid@Fe₂O₃ Nanocontainers and Their Antibacterial Effect on Tuberculosis Mycobacteria. *Angew Chem Int Ed Engl*. 2015 Oct 19;54(43):12597-601. doi: 10.1002/anie.201505493.

Jeschke A, Zehethofer N, Lindner B, Krupp J, **Schwudke D**, Haneburger I, Jovic M, Backer JM, Balla T, Hilbi H, Haas A. Phosphatidylinositol 4-phosphate and phosphatidylinositol 3-phosphate regulate phagolysosome biogenesis. *Proc Natl Acad Sci USA*. 2015 Apr 14;112(15):4636-41. doi: 10.1073/pnas.1423456112.

Marella C, Torda AE, **Schwudke D**. The LUX Score: A Metric for Lipidome Homology. *PLoS Comput Biol*. 2015 Sep 22;11(9):e1004511. doi: 10.1371/journal.pcbi.1004511.

Zehethofer N, Bermbach S, Hagner S, Garn H, Müller J, Goldmann T, Lindner B, **Schwudke D**, König P. Lipid Analysis of Airway Epithelial Cells for Studying Respiratory Diseases. *Chromatographia*. 2015;78(5-6):403-413. doi: 10.1007/s10337-014-2787-5.