

Curriculum Vitae

Thomas Roeder Professor, Dr. rer. nat.
d.o.b. March 09th, 1962, in Hamburg, Germany

University Education

2000 Habilitation Physiology (Zoology)
1990 Doctorate (Dr. rer. Nat.), University of Hamburg
1982–1987 Studies of Biology and Physics, University of Hamburg

Scientific Career

2020-2024 Member and speaker of the examination board "Zoology" of the DFG (German research Foundation)
2016-2024 Member of the examination board "Zoology" of the DFG (German research Foundation)
2016-2023 Member of Scientific Advisory Board of the LOEWE Center Insect Biotechnology, Giessen, Germany
2011–2013 Member of the directorate of the Cluster of excellence "Inflammation@Interfaces"
Since 2005 Professor, Zoophysiology, Kiel, Germany
2004 Professor, Zoophysiology, Münster, Germany
2004 Independent Research Group Leader, Genomics of model organisms, Foundation lectureship of the Claussen-Simon-Stiftung "*Stifterverband der deutschen Wirtschaft*", University of Marburg, Germany
2001–2003 Postdoc, University of Würzburg, Germany
2000 Habilitation (zoology, Animal Physiology), University of Hamburg
1991–2001 Postdoctoral Fellow and Assistant Professor University of Hamburg, Germany

Awards and Honors

2004 Foundation lectureship of the Claussen-Simon-Stiftung "*Stifterverband der deutschen Wirtschaft*", University of Marburg, Germany

Citation Record

Total citations: 6693; h-index:46; h-index since 2019: 28(Google Scholar Juli 30th, 2024)

Top-10 selected Publications

Uliczka K, Bossen J, Zissler UM, Fink C, Niu X, Pieper M, Prange RD, Vock C, Wagner C, Knop M, Abdelsadik A, Franzenburg S, Bruchhaus I, Wegmann M, Schmidt-Weber CB, König P, Pfefferle P, Heine H, Roeder T (2024) FoxO factors are essential for maintaining organ homeostasis by acting as stress sensors in airway epithelial cells. *eLife* 13:RP96385.

Pfefferkorn RM, Mortzfeld BM, Fink C, von Frieling J, Bossen J, Esser D, Kaleta C, Rosenstiel P, Heine H, Roeder T (2023) Recurrent phases of strict protein limitation inhibit tumor growth and restore lifespan in a *Drosophila* intestinal cancer model. *Aging and Disease*, 15 (1): 226-244 | doi: [10.14336/AD.2023.0517](https://doi.org/10.14336/AD.2023.0517).

Vaibhvi V, Kuenzel S, Roeder T (2022) Hemocytes and fat body cells, the only professional immune cell types in *Drosophila*, show strikingly different responses to systemic infections. *Frontiers Immunology* 13, 1040510, doi: [10.3389/fimmu.2022.1040510](https://doi.org/10.3389/fimmu.2022.1040510).

Wagner C, Uliczka K, Bossen J, Niu X, Fink C, Thiedmann M, Knop M, Vock C, Abdelsadik A, Zissler UM, Isermann K, Garn H, Pieper M, Wegmann M, Koczulla AR, Vogelmeier CF, Schmidt-Weber CB, Fehrenbach H, König P, Silverman N, Renz H, Pfefferle P, Heine H, Roeder T (2021) Constitutive immune

activity promotes JNK- and FoxO-dependent remodeling of *Drosophila* airways. *Cell Reports* 35(1): 108956, DOI:<https://doi.org/10.1016/j.celrep.2021.108956>.

von Frieling J, Faisal MN, Sporn F, Pfefferkorn R, Nolte SS, Sommer F, Rosenstiel P, Roeder T (2020) A high-fat diet induces a microbiota-dependent increase in stem cell activity in the *Drosophila* intestine. *PLoS Genetics*, 6(5): e1008789. doi: 10.1371/journal.pgen.1008789

Rausch P, Rühlemann M, Hermes BM, Doms S, Dagan T, Dierking K, Domin H, Fraune S, von Frieling J, Hentschel U, Heinsen F-A, Höppner M, Jahn MT, Jaspers C, Kissoyan KAB, Langfeldt D, Rehman A, Reusch TBH, Roeder T, Schmitz RA, Schulenburg H, Soluch R, Sommer F, Stukenbrock E, Weiland-Bräuer N, Rosenstiel P, Franke A, Bosch T, Baines JF (2019) Comparative analysis of amplicon and metagenomic sequencing methods reveals key features in the evolution of animal metaorganisms. *Microbiome* 7: 133. doi: 10.1186/s40168-019-0743-1.

Bossen J, Uliczka K, Steen L, Pfefferkorn R, Mai MM-Q, Burkhardt L, Spohn M, Bruchhaus I, Fink C, Heine H, Roeder T (2019) An EGFR-induced *Drosophila* lung tumor model identifies alternative combination treatments. *Mol Cancer Ther* 18: 1659-1668. doi: 10.1158/1535-7163.MCT-19-0168

Prange R*, Thiedmann M*, Bhandari A, Mishra N, Sinha A, Häslér R, Rosenstiel P, Uliczka K, Wagner C, Yldirim AÖ, Fink C, Roeder T (2018) A *Drosophila* model of cigarette smoke induced COPD identifies Nrf2 signaling as an expendient target for intervention. *Aging*, 10: 2122-2135 doi: 10.18632/aging.101536.

Fink C, Hoffmann J, Knop M, Li Y, Isermann K, Roeder T (2016) Intestinal FoxO signaling is required to survive oral infection in *Drosophila*. *Mucosal Immunol* 9: 927-36.

Kallsen K, Zehethofer N, Abdelsadik A, Lindner B, Kabesch M, Heine H, Roeder T (2015) ORMDL deregulation increases stress responses and modulates repair pathways in *Drosophila* airways. *J Allergy Clin Immunol* S0091-6749:00549-00557.