Schwinge, Dorothee, Dr. rer. nat.

I. Department of Internal Medicine,
University Medical Centre Hamburg-Eppendorf

Current position Principal investigator

University training

2011	PhD Thesis and PhD degree (mentor Prof. C Schramm)
2007 - 2011	PhD position
2006	Diploma thesis and Diploma degree (mentor Prof. H Renz)
1999 - 2006	Study of Humanbiology, Philipps University Marburg, Germany

Advanced academic qualifications

2011	PhD degree: Biology, University of Hamburg, I. Department of Internal Medicine (mentor: Prof. Dr.Christoph Schramm)
2006	Graduate in Humanbiology, Philipps University Marburg, Department of Clinical Chemistry (mentor: Prof. Dr. H.Renz)

Postgraduate professional career

2020 – present	Principle Investigator, I. Department of Internal Medicine University Medical Center Hamburg-Eppendorf, Germany
2017—present	Co-Principle Investigator, I.Department of Internal Medicine University Medical Center Hamburg-Eppendorf, Germany
2011 - present	Post-doctoral researcher, I. Department of Internal Medicine University Medical Center Hamburg-Eppendorf, Germany

Fundings

2022-present	TRR/SFB333 BAT energy: P02- Intestinal metabolites and their impact on thermogenic responses by brown and white adipose tissues
2020 – present	LFF-78 AILD: P10- Dissecting the bidirectional network of immune cells and cholangiocytes

Selected awards and honours

2019	Start-up funding (Collaborative Research Centre 841)
2016	GASL (German Association of the Study of the Liver) Publication price (YAEL Foundation)
2015	Travel bursary for young scientists (Collaborative Research Centre 841)

Selected Publications

1. Poch T, Krause J, Casar C, Liwinski T, Glau L, Kaufmann M, Ahrenstorf AE, Hess LU, Ziegler AE, Martrus G, Lunemann S, Sebode M, Li J, Schwinge D, Krebs CF, Franke A, Friese MA, Oldhafer KJ, Fischer L, Altfeld M, Lohse AW, Huber S, Tolosa E, Gagliani N, Schramm C. Single-cell atlas of hepatic T cells reveals expansion of liver-resident naive-like CD4+ T cells in primary sclerosing cholangitis. **J Hepatol.** 2021 Aug;75(2):414-423. doi: 10.1016/j.jhep.2021.03.016. Epub 2021 Mar 24.
2. Stein S, Henze L, Poch T, Carambia A, Krech T, Preti M, Schuran FA, Reich M, Keitel V, Fiorotto R, Strazzabosco M, Fischer L, Li J, Müller LM, Wagner J, Gagliani N, Herkel J, Schwinge D*, Schramm C*. IL-17A/F enable cholangiocytes to restrict T cell-driven experimental cholangitis by upregulating PD-L1 expression. **J Hepatol.** 2020 Nov 13:S0168-8278(20)33759-4. doi: 0.1016/j.jhep.2020.10.035. Online ahead of print. PMID: 33197512
3. Kunzmann LK, Schoknecht T, Poch T, Henze L, Stein S, Kriz M, Grewe I, Preti M, Hartl J, Pannicke N, Peiseler M, Sebode M, Zenouzi R, Horvatits T, Böttcher M, Petersen BS, Weiler-Normann C, Hess LU, Ahrenstorf AE, Lunemann S, Martrus G, Fischer L, Li J, Carambia A, Kluwe J, Huber S, Lohse AW, Franke A, Herkel J, Schramm C, Schwinge D. Monocytes as Potential Mediators of Pathogen-Induced T-Helper 17 Differentiation in Patients With Primary Sclerosing Cholangitis (PSC). **Hepatology**. 2020 Oct;72(4):1310-1326. doi: 10.1002/hep.31140. Epub 2020 Oct 8. PMID: 33090557
4. Glaser F*, John C*, Engel B*, Höh B*, Weidemann S, Dieckhoff J, Stein S, Becker N, Casar C, Schuran FA, Wieschendorf B, Jessen F, Preti M, Franke A, Carambia A, Lohse AW, Ittrich H, Herkel J, Heeren J, Schramm C, Schwinge D. Liver infiltrating T cells regulate bile acid metabolism in experimental cholangitis. **J Hepatol.** 2019;pii: S0168-8278(19)30347-2
5. Ravichandran G*, Neumann K*, Berkhout LK, Weidemann S, Langeneckert AE, Schwinge D, Poch T, Huber S, Schiller B, Hess LU, Ziegler AE, Oldhafer KJ, Barikbin R, Schramm C, Altfeld M, Tiegs G. Interferon-γ-dependent immune responses contribute to the pathogenesis of sclerosing cholangitis in mice. **J Hepatol** 2019;71:773-82.
6. van Heesch S, Witte F, Schneider-Lunitz V, Schulz JF, Adami E, Faber AB, Kirchner M, Maatz H, Blachut S, Sandmann CL, Kanda M, Worth CL, Schafer S, Calviello L, Merriott R, Patone G, Hummel O, Wyler E, Obermayer B, Mücke MB, Lindberg ELH, Trnka F, Memczak S, Schilling M, Felkin LE, Barton P, Quaife NM, Vanezis K, Diecke S, Mukai M, Mah N, Oh SJ, Kurtz A, Schramm C, Schwinge D, Sebode M, Harakalova M, Asselbergs FW, Vink A, de Weger R, Viswanathan S, Widjaja AA, Gärtner-Rommel A, Milting H, dos Remedios C, Knosalla C, Mertins P, Landthaler M, Vingron M, Linke WA, Seidman JG, Seidman CE, Rajewsky N, Ohler U, Cook SU & Hubner N. The translational landscape of the human heart. **Cell** 2019;178(1):242-260.e29.
7. Schmidt T, Schwinge D, Rolvien T, Jeschke A, Schmidt C, Neven M, Butscheidt S, Kriz M, Kunzmann L, Mussawy H, Hubert J, Hawellek T, Rüther W, Oheim R, Barvencik F, Lohse AW, Schramm C, Schinke T, Amling M. Th17 cell frequency is associated with low bone mass in primary sclerosing cholangitis. **J Hepatol.** 2019;70(5):941-953.
8. Schwinge D*, von Haxthausen F*, Quaas A, Carambia A, Otto B, Glaser F, Höh B, Thiele N, Schoknecht T, Huber S, Steffens N, Lohse AW, Herkel J, Schramm C. Dysfunction of hepatic regulatory T cells in experimental sclerosing cholangitis is related with IL-12 signaling. **J Hepatol** 2017;66:798-805
9. Schoknecht T, Schwinge D, Stein S, Weiler-Normann C, Sebode M, Mucha S, Otto B, Ellinghaus E, Stahl F, Franke A, Lohse AW, Herkel J, Schramm C. CD4+ T cells from patients with primary sclerosing cholangitis exhibit reduced apoptosis and down-regulation of proapoptotic Bim in peripheral blood. **J Leukoc Biol.** 2017;101(2):589-597.
10. Schwinge D, Carambia A, Quaas A, Krech T, Wegscheid C, Tiegs G, Prinz I, Lohse AW, Herkel J, Schramm C.Testosterone Suppresses Hepatic Inflammation by the Downregulation of IL-17, CXCL-9, and CXCL-10 in a Mouse Model of Experimental Acute Cholangitis. **J Immunol.** 2015;194(6):2522-30. *equally contributing authors