

Schwabe, Robert, Prof., MD (Mercator Fellow)

Personal Data

Title	Prof. Dr. med.
First name	Robert
Name	Schwabe
Current position	Director, Columbia University Digestive and Liver Disease Research Center, Columbia University, New York, NY, USA; permanent position
Current institution(s)/site(s), country	Columbia University, New York, NY, USA and BIH Visiting Professor, Dept. of Hepatology and Gastroenterology, Charité - Universitätsmedizin Berlin, Campus Charité Mitte (CCM) and Campus Virchow-Klinikum (CVK), Augustenburger Platz 1, 13353 Berlin, Germany
Identifiers/ORCID	ORCID-ID: 0000-0003-4571-2098

Qualifications and Career

Stages	Periods and Details
Degree programme: Medicine	1989 – 1996, University of Heidelberg, and Ludwig-Maximilians University, Munich, Germany
Doctorate: MD thesis	12.02.1998: Supervisor: Gert Riethmüller, <i>“Soluble CD40 and blocking CD40 by monoclonal antibodies”</i> , Ludwig-Maximilians University, Munich, Germany
Stages of academic/professional career	
Since 2022	Director, Columbia University Digestive and Liver Disease Research Center, New York, NY, USA
Since 2021	BIH Visiting Professor, Dept. of Hepatology and Gastroenterology, Campus Charité Mitte (CCM) and Campus Virchow-Klinikum (CVK), Charité - Universitätsmedizin Berlin, Berlin, Germany
2020	Professor of Medicine, Columbia University, New York, NY, USA
2013 – 2020	Associate Professor of Medicine with Tenure, Columbia University, New York, NY, USA
2003 – 2013	Assistant Professor of Medicine, Columbia University, New York, NY, USA
2002	Instructor of Medicine, University of North Carolina at Chapel Hill, USA
1999 – 2002	Postdoctoral Fellow, University of North Carolina at Chapel Hill, USA (Supervisor: David Brenner)
1997 – 1998	Internal medicine residency, Department of Medicine IV, Ruprecht-Karls-University, Heidelberg, Germany

Engagement in the Research System

- Editor Journal of Hepatology Reports (since 2018)

- Leader, Cancer Regulatory Networks (CRN) program, Herbert Irving Comprehensive Cancer Center (2016 – 2018)
- Associate Editor, Seminars in Liver Diseases (2016 – 2018)
- Member, HBPP NIH study (2014 – 2020)
- Associate Editor: Gastroenterology (2011 – 2016), Journal of Hepatology (2009 – 2014)

Scientific Results

Category A, * contributed equally, # open access

1. Filliol A, Saito Y, Nair A, Dapito DH, Yu LX, Ravichandra A, Bhattacharjee S, Affo S, Fujiwara N, Su H, Sun Q, Savage TM, Wilson-Kanamori JR, Caviglia JM, Chin L, Chen D, Wang X, Caruso S, Kang JK, Amin AD, Wallace S, Dobie R, Yin D, Rodriguez-Fiallos OM, Yin C, Mehal A, Izar B, Friedman RA, Wells RG, Pajvani UB, Hoshida Y, Remotti HE, Arpaia N, Zucman-Rossi J, Karin M, Henderson NC, Tabas I, **Schwabe RF**. Opposing roles of hepatic stellate cell subpopulations in hepatocarcinogenesis. **Nature** 2022; 610:356-365. doi: 10.1038/s41586-022-05289-6. #
2. Mederacke I, Filliol A, Affo S, Nair A, Hernandez C, Sun Q, Hamberger F, Brundu F, Chen Y, Ravichandra A, Huebener P, Anke H, Shi H, Martínez García de la Torre RA, Smith JR, Henderson NC, Vondran FWR, Rothlin CV, Baehre H, Tabas I, Sancho-Bru P, **Schwabe RF**. The purinergic P2Y14 receptor links hepatocyte death to hepatic stellate cell activation and fibrogenesis in the liver. **Sci Transl Med** 2022; 14(639):eabe5795. doi: 10.1126/scitranslmed.abe5795. #
3. Affo S, Nair A, Brundu F, Ravichandra A, Bhattacharjee A, Matsuda M, Chin L, Filliol A, Wen W, Song X, Decker A, Worley J, Caviglia JM, Yu L, Yin D, Saito Y, Savage T, Wells RG, Mack M, Zender L, Arpaia N, Remotti HE, Rabadan R, Sims P, Leblond AL, Weber A, Riener MO, Stockwell BR, Gaublot J, Llovet JM, Sia D, Michalopoulos GK, Seki E, Chen X, Califano A, **Schwabe RF**. Promotion of Cholangiocarcinoma Growth by Diverse Cancer-associated Fibroblast Subpopulations. **Cancer Cell** 2021; 39(6):866-882.e11. doi: 10.1016/j.ccell.2021.03.012. Erratum in: Cancer Cell. 2021 Jun 14;39(6):883. PMID: 33930309; PMCID: PMC8241235. #
4. Bhattacharjee S, Hamberger F, Ravichandra A, Miller M, Nair A, Affo S, Filliol A, Chin L, Savage TM, Yin D, Wirsik NM, Mehal A, Arpaia N, Seki N, Mack M, Zhu D, Sims PA, Stanger BZ, Olive KP, Schmidt T, Wells RG, Mederacke I, **Schwabe RF**. Tumor restriction by type I collagen opposes tumor-promoting effects of cancer-associated fibroblasts. **J Clin Invest** 2021; 146987. doi: 10.1172/JCI146987. #
5. **Schwabe RF**, Tabas I, Pajvani UB. Mechanisms of Fibrosis Development in Nonalcoholic Steatohepatitis. **Gastroenterology** 2020; 158(7):1913-1928. doi: 10.1053/j.gastro.2019.11.311. #
6. Huebener P, Pradere JP, Hernandez C, Gwak GY, Caviglia JM, Mu X, Loike JD, Jenkins RE, Antoine DJ, **Schwabe RF**. The HMGB1/RAGE axis triggers neutrophil-mediated injury amplification following necrosis. **J Clin Invest** 2015; 125(2):539-50. doi: 10.1172/JCI76887. Erratum in: J Clin Invest. 2019 Mar 4;130:1802. PMID: 25562324; PMCID: PMC4319429. #

7. Huebener P, Gwak GY, Pradere JP, Quinzii C, Friedman R, Lin CS, Trent CM, Mederacke I, Zhao E, Dapito DH, Lin Y, Goldberg IJ, Czaja MJ, **Schwabe RF**. High Mobility Group Box 1 is Dispensable for Autophagy, Mitochondrial Quality Control and Organ Function in Vivo. **Cell Metab** 2014; 19(3):539-47. doi: 10.1016/j.cmet.2014.01.014. #
8. Mederacke I, Hsu CC, Troeger JS, Huebener P, Mu X, Dapito DH, Pradere JP, **Schwabe RF**. Fate tracing reveals hepatic stellate cells as dominant contributors to liver fibrosis independent of its aetiology. **Nat Commun** 2013; 4:2823. doi: 10.1038/ncomms3823. #
9. Dapito D, Mencin A, Gwak GY, Pradere JP, Jang MK, Mederacke I, Caviglia JM, Khiabanian H, Adeyemi A, Bataller R, Lefkowitz JH, Bower M, Friedman R, Sartor RB, Rabadan R, **Schwabe RF**. Promotion of Hepatocellular Carcinoma by the Intestinal Microbiota and TLR4. **Cancer Cell** 2012; 21(4):504-16. doi: 10.1016/j.ccr.2012.02.007. #
10. Seki E, De Minicis S, Osawa Y, Oesterreicher C, Brenner DA, **Schwabe RF**. TLR4 Enhances TGF- β Signaling and Hepatic Fibrosis. **Nat Med** 2007; 13:1324-32. doi: 10.1038/nm1663.

Academic Distinctions

- Harold and Golden Lampert Award - Award for Excellence in Clinical Science Research (2012)
- AGA Research Scholar Award (2003 – 2006)
- AASLD Advanced Postdoctoral Fellowship Award (2001)
- ALF Postdoctoral Fellowship Award (2000)