

## Weidinger, Carl, MD (A05)

### Personal Data

Title	Dr. med.
First name	Carl
Name	Weidinger
Current position	Resident
Current institution(s)/site(s), country	Department of Gastroenterology, Infectious Diseases, Rheumatology (incl. Nutritional Medicine), Charité – Universitätsmedizin Berlin, Campus Benjamin Franklin (CBF) Hindenburgdamm 30, 12203 Berlin, Germany
Identifiers/ORCID	ORCID-ID: 0000-0002-9948-0088

### Qualifications and Career

Stages	Periods and Details
Degree programme: Medicine	2003 – 2010, Medical School, University of Leipzig, Germany
Doctorate: MD thesis	23.08.2011: Supervisor: Dagmar Führer-Sakel “ <i>The role of FOXO3a in the pathogenesis of thyroid cancer</i> “, University of Leipzig ( <i>summa cum laude</i> ), Germany
Stages of academic / professional career	
2021	Board certification <i>Internal Medicine</i>
2018 – 2021	BIH Clinician Scientist, Charité – Universitätsmedizin Berlin, Germany
Since 2015	Residency Department of Gastroenterology, Infectious Diseases, Rheumatology (incl. Nutritional Medicine), Charité – Universitätsmedizin Berlin, Germany
2011 – 2014	Postdoctoral Fellow (DFG-funded fellowship), New York University, USA
2010	German physician license

### Engagement in the Research System

- Member of the Scientific Committee of the UEG (United European Gastroenterology) (Since 2022)

### Scientific Results

**Category A**, \* contributed equally, # open access

1. Letizia M\*, Wang YH\*, Kaufmann U\*, Gerbeth L, Sand A, Brunkhorst M, Weidner P, Ziegler JF, Böttcher C, Schlickeiser S, Fernández C, Yamashita M, Stauderman K, Sun K, Kunkel D, Prakriya M, IBDome Researchers, Sanders A, Siegmund B, Feske S\*, **Weidinger C\***. Store-operated calcium entry controls innate and adaptive immune cell function in inflammatory bowel disease. **EMBO Mol Med** 2022; 14(9):e15687. doi: 10.15252/emmm.202215687. #
2. Hecker J, Letizia M, Loeascher B, Siegmund B\*, **Weidinger C\***. Early Onset of TNF $\alpha$ -Driven Arthritis, Auto-inflammation and Progressive Loss of Vision in a Patient with

- ALPK1 Mutation. **J Clin Immunol** 2022; 42(4):880-884. doi: 10.1007/s10875-022-01214-8. #
3. Ziegler J, Boettcher C, Letizia M, Cansu Y, Wu H, Freise I, Rodriguez-Sillke Y, Stoyanova A, Kreis M, Asbach P, Kunkel D, Priller J, Anagostopoulos I, Kuehl A, Miehle K, Sturmvoll M, Tran F, Fredrich B, Fordter M, Franke A, Bojarski C, Glauben R, Löscher BS, Siegmund B\*, **Weidinger C\***. Leptin induces TNFa-dependent inflammation in acquired generalized lipodystrophy and combined Crohn's disease. **Nat Commun** 2019; 10(1):5629. doi: 10.1038/s41467-019-13559-7. #
  4. Yerinde C, Siegmund B, Glauben R, **Weidinger C**. Metabolic Control of Epigenetics and Its Role in CD8+ T Cell Differentiation and Function. **Front Immunol** 2019; 10:2718. doi: 10.3389/fimmu.2019.02718. #
  5. Friedrich M, Gerbeth L, Gerling M, Rosenthal R, Steiger K, **Weidinger C**, Keye J, Wu H, Schmidt F, Weichert W, Siegmund B, Glauben R. HDAC inhibitors promote intestinal epithelial regeneration via autocrine TGFβ1 signalling in inflammation. **Mucosal Immunol** 2019; 12(3):656-667. doi: 10.1038/s41385-019-0135-7. #
  6. Elling R, Keller B, **Weidinger C**, Häffner M, Deshmukh S, Zee I, Speckmann C, Ehl, S, Schwarz K. Preserved effector functions of human ORAI1- and STIM1-deficient neutrophils. **J Allergy Clin Immunol** 2016; 137(5):1587-1591.e7. doi: 10.1016/j.jaci.2015.09.047. #
  7. Concepcion AR, Vaeth M, Wagner LE, Eckstein M, Hecht L, Yang J, Crottes D, Seidl M, Shin HP, **Weidinger C**, Cameron S, Turvey SE, Issekutz T, Meyts I, Lacruz RS, Cuk M, Yule DI, Feske S. Store-operated Ca<sup>2+</sup> entry regulates Ca<sup>2+</sup> activated chloride channels and eccrine sweat gland function. **J Clin Invest** 2016; 126(11):4303-4318. doi: 10.1172/JCI89056. #
  8. Desvignes L\*, **Weidinger C\***, Shaw P, McVoy L, Ernst J, Feske S. STIM1 controls T cell-mediated immune regulation and inflammation in chronic infection. **J Clin Invest** 2015; 125(6):2347-62. doi: 10.1172/JCI80273. #
  9. Shaw PJ\*, **Weidinger C\***, Vaeth M, Luethy K, Kaech SM, Feske S. CD4<sup>+</sup> and CD8<sup>+</sup> T cell-dependent antiviral immunity requires STIM1 and STIM2. **J Clin Invest** 2014; 124(10):4549-63. doi: 10.1172/JCI76602. #
  10. **Weidinger C**, Shaw PJ, Feske S. STIM1 and STIM2-mediated Ca<sup>2+</sup> influx regulates antitumour immunity by CD8(+) T cells. **EMBO Mol Med** 2013; 5(9):1311-21. doi: 10.1002/emmm.201302989. #

### Academic Distinctions

- “DACHED Zukunftspreis 2021” for IBD Research (2021)
- Fellowship „Clinician Scientist of the Berlin Institute of Health, BIH (since 2018)
- Fellowship “Junior Clinician Scientist of the Berlin Institute of Health, BIH (2015 – 2017)
- Brahms Award for Thyroid Research (2012)
- Pomblitz Award for the Best Thesis, Medical Faculty of the University of Leipzig (2012)

### Collaborators

No.	Collaboration partners	Location/Institution
1	Stefan Feske	New York, USA, New York University
2	André Franke	Kiel, Germany, University of Kiel
3	Holm Uhlig	Oxford, UK, University of Oxford

4	Murali Prakryia	Chicago, USA, North Western University
5	Ashley Sanders	Berlin, Germany, BIMSB
6	Peter Kühnen	Berlin, Germany, Charité – Universitätsmedizin Berlin
7	Chotima Böttcher	Berlin, Germany, MDC
8	Katja Simon	Oxford, UK, University of Oxford
9	Raja Atreya	Erlangen, Germany, University of Erlangen
10	Christoph Becker	Erlangen, Germany, University of Erlangen

### Fields of Research

No.	Fields of research
1	205-15 Medicine/ <b>Gastroenterology</b>
2	201-03 Basic Research in Biology and Medicine/ <b>Cell Biology</b>
3	204-05 <b>Immunology</b>