

FABIAN GUENDEL

Postdoctoral Fellow

CONTACT

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📍 10 Rue Lamarck, 75018, Paris

SKILLS

Basic technical laboratory technics.

Oral Communication.

Grant and scientific writing.

Bioinformatics.

Project management.

Mentoring of students.

PROFILE

Postdoctoral fellow trained in intestinal immunology. I have over 10 years of experience working in academic research. My main interest is to study the intestinal immune system and its interaction with its microenvironment. Currently I am expanding my interest beyond immunology and focusing on the intestinal organ as a key regulator of complex physiological traits in our body. More precisely I am interested in understanding the mechanisms by which the intestine integrates signals derived from food and hormones.

EDUCATION

University of Freiburg

2013-2021

PhD in Biology

Sorbonne/Institut Pasteur

2011-2012

MSc in Immunology

Ecole Normale Supérieure Lyon

2009-2011

MSc in Biology

Ecole Normale Supérieure Lyon

2006-2009

BSc in Biology

PROFESSIONAL EXPERIENCE

2021 to present: Pasteur Institute, Paris

Walter-Benjamin postdoctoral fellow in Prof. Gerard Eberl laboratory

2013-2021: Institute of Microbiology, Infectious diseases and Immunology, Charité, Berlin/ University of Freiburg.

Ph.D. student in Prof. Andreas Diefenbach laboratory

2019: (1 month) :Institut of Immunology Saint Gallen, Switzerland.

Visiting scientist in the laboratory of Prof. Burkhard Ludwig.

2016: (2 months) Nanyang Technological University, Singapore

Visiting scientist in the laboratory of Prof. Christiane Ruedl

PUBLICATIONS

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2020: **Guendel, F.**, Kofoed-Branzk, M., Gronke, K., Tizian, C., Witkowski, M., Cheng, H.W., Heinz, G.A., Heinrich, F., Durek, P., Norris, P.S., et al. (2020). Group 3 Innate Lymphoid Cells Program a Distinct Subset of IL-22BP-Producing Dendritic Cells Demarcating Solitary Intestinal Lymphoid Tissues. **Immunity** **53**, 1015-1032.

2020: Schaupp, L., Muth, S., Rogell, L., Kofoed-Branzk, M., Melchior, F., Lienenklaus, S., Ganai-Vonarburg, S.C., Klein, M., **Guendel, F.**, Hain, T., et al. (2020). Microbiota-Induced Type I Interferons Instruct a Poised Basal State of Dendritic Cells. **Cell** **181**, 1080-1096.

2019: Gronke, K., Hernandez, P.P., Zimmermann, J., Klose, C.S.N., Kofoed-Branzk, M., **Guendel, F.**, Witkowski, M., Tizian, C., Amann, L., Schumacher, F., et al. (2019). Interleukin-22 protects intestinal stem cells against genotoxic stress. **Nature** **566**, 249-253.

2015: Hernandez, P.P., Mahlakoiv, T., Yang, I., Schwierzeck, V., Nguyen, N., **Guendel, F.**, Gronke, K., Ryffel, B., Holscher, C., Dumoutier, L., et al. (2015). Interferon-lambda and interleukin 22 act synergistically for the induction of interferon-stimulated genes and control of rotavirus infection. **Nat Immunol** **16**, 698-707.

LEADERSHIP AND OUTREACH

2025: Speaker– Philanthropy Event 2025 for Pasteur UK Foundation(<https://www.pasteurfoundation.uk/n4ibs>)

2022 to present : Postdoctoral Representative – Immunology Department, Pasteur Institute

- Negotiated salary conditions with HR.
- Developed a mentoring program for postdocs.
- Organized scientific events.

2022: Communication Team Lead – Young Researchers in Life Sciences (YRLS) Conference (2022)

- Led the communication strategy for the conference.

ORAL PRESENTATION AND POSTERS

- **International symposium on neonatal immunology (2025, Freiburg):** Selected poster presentation
- **5th International Conference on Innate Lymphoid Cells (2024, Cambridge, UK):** Selected Oral Presentation
- **19th World Immune Regulation Meeting (2025, Davos):** Selected Oral Presentation
- **4th International Conference on Innate Lymphoid Cells (2022, Hawaii):** Selected Oral Presentation
- **DFG Priority Program SPP 1937 Meeting (2021, Germany):** Invited Speaker
- **European Macrophage and Dendritic Cell Society (EMDS) Meeting (2021)** (selected poster presentation and Best Poster Award)
- **FEBS Immunology Summer School (2015, Croatia) :**Selected Poster Presentation)

GRANTS AND PRIZES

Walter Benjamin Postdoctoral Fellowship (2022-2024) – German Research Foundation (DFG)

Pasteur Institute Immunostarter Grant (2021)

German Research Foundation Ph.D. Program (GRK1104) (2013–2015)

Travel grants:

- **19th World Immune Regulation Meeting (2025, Davos)**
- **4th International Conference on Innate Lymphoid Cells (2022, Hawaii)**

LANGUAGES

- **Spanish** – Native
- **English** – Fluent
- **French** – Fluent
- **German** – Intermediate (B1)