

Laura Gámez-Díaz

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Position: Junior Group Leader

Academic education including academic degrees

2007 Bachelor in Microbiology; Industrial University of Santander (UIS), Colombia
2011 M. Sc. in Biology; University of Antioquia (UDEA), Colombia

Scientific graduation

2017 Dr. rer. nat., University of Freiburg, Center for Chronic Immunodeficiency, Freiburg, Germany

Employment

Since 2024 Junior group leader, Center for Chronic Immunodeficiency, University Medical Center Freiburg, Germany
2021 – 2024 Sub-group leader, Center for Chronic Immunodeficiency, University Medical Center Freiburg, Germany
2017 – 2021 Postdoctoral researcher in the group of Prof. Bodo Grimbacher, Center for Chronic Immunodeficiency, University Medical Center Freiburg, Germany
2019 – 2020 Guest scientist in the group of Dr. Emily Mace, Columbia University, New York City, USA
2010 Research assistant in the group of Human Genetics. University of Antioquia, Colombia
2007-2008 Research assistant in the group of primary immunodeficiencies. University of Antioquia, Colombia

Other activities, awards and honours

2024 Wilhelm Sander-Stiftung (co-leader)
2023 DFG- SFB1381/2
2021 EIRA mentoring program, University Medical Center Freiburg
2021 Medical Scientist Grant, University Medical Center Freiburg
2021 EUCOR – Seed the Money
2021 Young Investigation Grant, DFG-SFB1381/1
2020 Travel grant. Clinical Immunology Society, USA
2019 International fellowship. European Society for Immunodeficiencies (ESID), USA
2018 Fritz-Thyssen Foundation (co-leader)
2018 Travel grant. European Society for Immunodeficiencies (ESID), Italy
2018 Brückenstipendium STAY. Die Neue Universitätsstiftung Freiburg, Germany
2015 Second place poster presentation. Primary Immunodeficiencies symposium. London, UK
2010 Internship in the group of Prof. Maya Saleh, McGill University, Montreal, Canada
2011 First place oral presentation. VII International Congress of Allergy, Asthma and Immunology, Colombia
2010 Scholarship “Joven Instructor”, University of Antioquia, Colombia

Ten most important publications

- **FIP200 Phosphorylation Regulates Late Steps in Mitophagy.** Eickhorst C, Babic R, Rush-Kittle J, Lucya L, Lami Imam F, Sánchez-Martín P, Hollenstein D, Michaelis J, Münch C, Meisinger C, Slade D, Gámez-Díaz L*, Kraft C*. (2024). *J Mol Biol.* doi: 10.1016/j.jmb.2024.168631 (*corresponding)
- **LRBA balances antigen presentation and T-cell responses by facilitating autophagy through the binding to PIK3R4 and FYCO1.** Sindram E, Deau MC, Ligeon LA, Sanchez-Martin P, Nestel S, Jung S, Ruf S, Mishra P, Proietti M, Günther S, Thedieck K, Roussa E, Rambold A, Münz C, Kraft C, Grimbacher B and Gámez-Díaz L (2024). *bioRxiv.* doi.org/10.1101/2022.10.17.512524
- **Functional Relevance of CTLA4 Variants: An Upgraded Approach to Assess CTLA4-Dependent Transendocytosis by Flow Cytometry.** Rojas-Restrepo J, Sindram E, Zenke S, Haberstroh H, Mitsuiki N, Gabrysch AM, Huebscher K, Posadas-Cantera S, Krausz M, Kobbe R, Rohr J, Grimbacher B* and Gámez-Díaz L* (2023) *J. Clin. Immunol.* doi: 10.1007/s10875-023-01582-9 (*corresponding)
- **ARPC5 deficiency leads to severe early-onset systemic inflammation and mortality.** Sindram E, Caballero-Oteyza A, Kogata N, Allizadeh Z, Gámez-Díaz L, Reza-Fazlollahi M, Peng X, Grimbacher B, Way M, Proietti M. (2023) *Dis Mod Mech.* , doi: 10.1242/dmm.050145
- **Do common infections trigger disease-onset or -severity in CTLA-4 insufficiency?** Krausz M, Mitsuiki N, Falcone V, Komp J, Posadas-Cantera S, Lorenz HM, Litzman J, Wolff D, Kanariou M, Heinkele A, Speckmann C, Häcker G, Hengel H, Gámez-Díaz L, Grimbacher B. (2022) *Front Immunol.* doi: 10.3389/fimmu.2022.1011646
- **Refractory autoimmune gastritis responsive to abatacept in LRBA deficiency.** Boz V, Valencic E, Girardelli M, Pin A, Gámez-Díaz L, Tommasini A, Lega S, Bramuzzo M. (2021). *Front Immunol.* doi: 10.3389/fimmu.2021.619246
- **Genetic Analysis of a Cohort of 275 Patients with Hyper-IgE Syndromes and/or Chronic Mucocutaneous Candidiasis.** Frede N, Rojas-Restrepo J, Caballero Garcia de Oteyza A, Buchta M, Hübscher K, Gámez-Díaz L, Proietti M, Saghafi S, Chavoshzadeh Z, Soler-Palacin P, Galal N, Adeli M, Aldave-Becerra JC, Al-Ddafari MS, Ardenyz Ö, Atkinson TP, Kut FB, Çelmeli F, Rees H, Kilic SS, Kirovski I, Klein C, Kobbe R, Korganow AS, Lilic D, Lunt P, Makwana N, Metin A, Özgür TT, Karakas AA, Seneviratne S, Sherkat R, Sousa AB, Unal E, Patiroglu T, Wahn V, von Bernuth H, Whiteford M, Doffinger R, Jouhadi Z, Grimbacher B. (2021). *J Clin Immunol.* doi: 10.1007/s10875-021-01086-4
- **Rapid flow cytometry-based test for the diagnosis of LRBA deficiency.** Gámez-Díaz L, Sigmund E*, Reiser V*, Vach W, Jung S, Grimbacher B. (2018). *Front Immunol.* doi: 10.3389/fimmu.2018.00720
- **Immunological phenotype of the murine Lrba knockout.** Gámez-Díaz L, Neumann J, Jäger F, Proietti M, Felber F, Soulas-Sprauel P, Perruzza L, Grassi F, Kögl T, Aichele P, Kilimann M, Grimbacher B* and Jung S (2017). *Immunol Cell Biol.* doi: 10.1038/icb.2017.52

- **The extended phenotype of LPS-responsive beige-like anchor protein (LRBA) deficiency.** Gámez-Díaz L, August D, Stepensky P, Revel-Vilk S, Seidel MG, Noriko M, Morio T, Worth AJ, Blessing J, Van de Veerdonk F, Feuchtinger T, Kanariou M, Schmitt-Graeff A, Jung S, Seneviratne S, Burns S, Belohradsky BH, Rezaei N, Bakhtiar S, Speckmann C, Jordan M, Grimbacher B. (2016). *J Allergy Clin Immunol*. doi: 10.1016/j.jaci.2015.09.025.