



# Galia Magela Montalvo Bereau

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**Work:** Universität des Saarlandes, 66123 Saarbrücken (Germany)

**Home:** Gaußstraße 66, 66123 Saarbrücken (Germany)

## WORK EXPERIENCE

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### Ph.D. candidate

**Universität des Saarlandes** [ 01/03/2020 – Current ]

City: Saarbrücken

Country: Germany

- Characterization of T-cell migration in 1D, using self-made PDMS microchannels
- Quantitative analysis of T-cell infiltration and killing in 3D, using collagen matrices
- Immunostaining and Epifluorescence microscopy to investigate T-cell cytoskeleton
- T-cell stiffness measurement upon cytoskeleton perturbations

### Training Researcher (Internship)

**Leibniz-Institute for New Materials** [ 01/12/2019 – 28/02/2020 ]

City: Saarbrücken

Country: Germany

- Microfluidics and microchannels fabrication using PDMS
- Microscopy techniques for T-cell imaging, tracking, and fluorescent-labeling cytoskeleton component

### Joint Researcher

**Center for Molecular Immunology, Systems Biology Department** [ 01/09/2013 – 28/02/2020 ]

City: Havana

Country: Cuba

- Modulation of the Immune System with rationally designed Interleukin-2 muteins
- Protein expression in different systems including E. coli and HEK293 (adhered and in suspension), and protein purification
- Cellular Immunology Techniques: ELISA, Flow Cytometry, Proliferation Assay
- Protocols for expansion of Tumor Infiltrating Lymphocytes (TILs) using Interleukin-2 muteins

### Training Researcher (Internship)

**Ludwig Institute for Cancer Research, T-cell engineering group** [ 01/09/2016 – 30/08/2017 ]

City: Lausanne

Country: Switzerland

- Training in cell culture protocols for adoptive cell transfer therapies: TILs & CARs.
- Development of a culture protocol to generate Memory Stem-like activated T cells
- T-cell engineering using lentiviral transduction and gene silencing using shRNA
- Characterization of T-cell differentiation status using Flow Cytometry, RNAseq, RT-qPCR, Seahorse, and Metabolomics

### Joint Researcher

**Center of Biomolecular Chemistry, Immunology Department** [ 01/09/2010 – 31/08/2013 ]

City: Havana

Country: Cuba

- Preclinical evaluations of a Pneumococcal-conjugated vaccine candidate
- Quantitative ELISA for measuring humoral response generated in Mice, Rats, and Rabbits

## EDUCATION AND TRAINING

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### Ph.D. in Biophysics (candidate)

*Universität des Saarlandes* [ 01/03/2020 – Current ]

City: Saarbrücken

Country: Germany

Website: <http://www.lautenschlaeger.uni-saarland.de/index.html>

### M.Sc. in Immunology

*University of Havana* [ 01/09/2013 – 01/08/2016 ]

City: Havana

Country: Cuba

Website: <https://www.uh.cu/carrera/biologia/>

### B.Sc. in Biochemistry

*University of Havana* [ 01/09/2005 – 10/07/2010 ]

City: Havana

Country: Cuba

Website: <https://www.uh.cu/carrera/biologia/>

## ADDITIONAL SKILLS

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### Laboratory skills

- Mammalian cell culture
- Murine models in cancer
- T-cell migration in 1D and 3D
- Flow Cytometry
- Real-Time Deformability Cytometry (RT-DC)
- Microfluidics
- High-Resolution Microscopy
- T-cell engineering and TILs expansion
- Molecular Biology techniques

### Project Management characterized by adaptability and rapid learning

Proficient in handling and successfully overseeing multiple projects (5+) throughout my career. Track record of awarded fundings and effectively managing them. Skilled at working under pressure and consistently meeting deadlines. Quickly adapt to changing roles and projects, seamlessly integrating into new/diverse teams. Enthusiastically embracing new methodologies and thriving in tackling fresh challenges.

### Leadership with responsibility, creativity, and proactivity

Throughout my career, I have guided my own research projects including diverse tasks such as experimental planning, patent writing, clinical protocols designing, and applying for economic funding; I have mentored bachelor's and master's students; I have demonstrated the capability to effectively balance multiple projects in diverse, international, and interdisciplinary environments. Expert at cultivating collaborations and relationships while boosting team motivation. Independent, accurate, and structured way of working as well as a willingness to take responsibility and work in a team.

## Scientific and Interpersonal Communication

Experienced in public speaking, delivering numerous talks and poster presentations at conferences, retreats, and group meetings. Adept at fostering collaborations with peers and multidisciplinary teams, prioritizing outcomes of mutual interest for the involved groups or institutions. Proven experience working for multiple institutions with common scientific interests, achieving successful and applied results.

### LANGUAGE SKILLS

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Mother tongue(s): **Spanish**

**Other language(s):**

**English**

**LISTENING C1 READING C1 WRITING C1**

**SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1**

**French**

**LISTENING C1 READING C1 WRITING B2**

**SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1**

**German**

**LISTENING A2 READING A2 WRITING A2**

**SPOKEN PRODUCTION A2 SPOKEN INTERACTION A2**

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

### DIGITAL SKILLS

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Microsoft Office / Microsoft Word / Imagej / Graph pad prism / CorellDraw / FlowJO

### PUBLICATIONS

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[\*\*Transcriptional reprogramming by IL-2 variant generates metabolically active stem-like T cells \(Preprint\)\*\*](#)

[2023]

[\*\*PIEZO1-mediated mechanosensing governs NK cell killing efficiency in 3D \(Preprint\)\*\*](#)

[2023]

[\*\*The antitumor effect induced by an IL-2 'no-alpha' mutein depends on changes in the CD8+ T lymphocyte/Treg cell balance\*\*](#)

[2022]

[\*\*METHOD FOR THE EXPANSION AND DIFFERENTIATION OF T LYMPHOCYTES AND NK CELLS IN ADOPTIVE TRANSFER THERAPIES\*\*](#)

[2022]

ZA. Patent No.202107758

**[The role of actin and myosin II in the cell cortex of adhered and suspended cells \(Preprint\)](#)**

[2021]

**[Differential Effects of IL2R \$\alpha\$  and IL15R \$\alpha\$  over the Stability of the Common Beta-Gamma Signaling Subunits of the IL2 and IL15 Receptors](#)**

[2021]

**[Characterization of immune cell migration using microfabrication](#)**

[2021]

**HONOURS AND AWARDS**

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**Swiss Government Excellence Research Scholarship**

Swiss Confederation [ 01/09/2016 ]

**DAAD Research Grant, Short-Term Grants**

German Academic Exchange Service [ 01/12/2019 ]

**CERTIFICATES**

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**FELASA Category B Course 038/12 Module 1: Introductory course in laboratory animal science**

[ 2017 ]