



Ana Montalban-Arques, PhD

University of Zurich c/o University Hospital Zurich
 Department of Gastroenterology and Hepatology
 Sternwartstrasse, 14. LAB G4
 CH-8091, Zurich. Switzerland
 Phone: +41 44 255 94 80
 E-mail: Ana.Montalban-Arques@usz.ch
 LinkedIn: www.linkedin.com/in/ana-montalban-arques

EXPERIENCE

University of Zurich c/o University Hospital Zurich, Zurich, Switzerland
 Department of Gastroenterology and Hepatology
Postdoctoral Research Scientist July 2018- present
 Projects:
 - *The Role of PTPN23 in Colitis-Associated Colon Cancer.*
 - *Targeting Tumor Defence with Microbiome Therapy- A Disruptive and Holistic Approach to Fight Colorectal Carcinoma.*

Hospital Universitario de La Princesa, Madrid, Spain
 Unidad de Enfermedad Inflamatoria Intestinal (EII)
Postdoctoral Research Fellow 2016-2017
 Projects:
 - *Identification and characterization of microbial peptides with immunomodulatory capacity and their application as biomarkers in inflammatory bowel disease*
 - *Ex-vivo modulatory effect of biological drugs for inflammatory bowel disease on the mucosa and on peripheral blood mononuclear cells*
 - *Effect of microbial peptides on the function of intraepithelial lymphocytes in patients with inflammatory bowel disease*
 - *Carbon nanostructures and devices for antimicrobial photodynamic therapy*

EDUCATION

Institute of Pathology. Medical University of Graz, Graz, Austria
 The Doctoral College Molecular Fundamentals of Inflammation (DK-MOLIN)
PhD. Human Medicine (Excellent-CUM LAUDE) 2012- 2016
 Topic: *The NKG2D system as modulator of host-microbial interactions in the gut*

Department of Cell Biology and Histology. Murcia University, Murcia, Spain
MSc. Master of Sciences in Molecular Biology and Biotechnology 2011-2012
 Topic: *A zebrafish platform for HTS of small compounds to treat inflammatory bowel disease (IBD).*

Murcia University, Murcia, Spain
MEd. Master in Education 2010 - 2011
 Topic: *Training of teaching staff for mandatory high-school education, professional training, teaching of languages and artistic education.*

Murcia University, Murcia, Spain
BSc. Honors Degree in Biology 2005-2010
 Areas of Concentration: Biotechnology & Medical Biology

VISITING SCIENTIST

Imperial College London, London, UK June-December 2015
PhD. Visiting student at the Department of Life Sciences (Guerra's Lab).
 Topic: *The NKG2D system as regulator of the gut microbiota.*

AWARDS

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| 1. UEG Week Travel Grant, Barcelona, 2019 | 4 th July 2019 |
| 2. SMI Travel Grant for ICMI 2019, Brisbane, Australia. | 3 rd May 2019 |
| 3. UEG Basic Course Epithelial ion transport in the GI tract | 30 th April 2019 |
| 4. Wilhelm-Auerswald-Preis 2017 | 23 th June 2017 |
| 5. UEG Basic Course "Gut microbiota: Relevance, analysis, modulation" | 5 th April 2017 |
| 6. Beca Grupo de Trabajo de Apoyo a la Investigación (Asociación Española de Gastroenterología) | 9 th March 2017 |
| 7. Woman of the year 2017 (Awarded by Librilla Town Hall) | 8 th March 2017 |
| 8. Hans Popper-Preis 2016 | 12 th November 2016 |
| 9. Best Poster Presentation. Doctoral Day Medical University of Graz | 10 th December 2014 |
| 10. Fellowship granted in the PhD-Program DK-MOLIN, Medical University of Graz, Austria | 2012-2016 |
| 11. Selected to participate in the final Hearing of DK-MOLIN, Medical University of Graz, Austria | May 29 - 30 2012 |
| 12. Marie Curie fellowship in the Initial Training Network Fish for Pharma. Institut National de la Recherche Agronomique (INRA) and Pasteur Institute. Paris, France (Declined) | 13 th -15 th May 2012 |
| 13. Scholarship granted to conduct M.Ed. | October 2010 – June 2011 |
| 14. Scholarship granted to conduct B.Sc. | September 2005 – June 2010 |

COURSES AND CERTIFICATES

1. LTK Module 2. Training for persons responsible for directing animal experiments. MAR 11-15, 2019; Zurich, SWITZERLAND
2. LTK Module 1. Introductory course in laboratory animal science. AUG 13-22, 2018; Zurich, SWITZERLAND.
3. UEG Basic Course "Gut microbiota: Relevance, analysis, modulation". JUL 6-8, 2017; Rome, ITALY.
4. Refresher course in Eosinophilic esophagitis. JUN 8-9, 2017; Madrid, SPAIN.
5. Academic writing. FEB 8-18, 2016; Medical University of Graz, Graz, AUSTRIA.
6. Training on humane killing on mice (Schedule 1). Imperial College London. NOV, 2015; London, UK.
7. Central Biomedical Services (CBS) certificate in training for personnel working under the Animal Scientific Procedures Act 1986. Modules 1-3; Imperial College London. OCT 9, 2015; London, UK.
8. Microbiome Analyses II. JUN 2-5 2014; Medical University of Graz, Graz, AUSTRIA.
9. Immunopharmacology. NOV 2013-FEB 2014; Medical University of Graz, Graz, AUSTRIA.
10. Microbiome analysis I. JUN 4-7 2013; Medical University of Graz, Graz, AUSTRIA.
11. Biostatistics. MAY 2- JUN 27; Medical University of Graz, Graz, AUSTRIA.
12. Flow Cytometry. MAY 22-29, 2013; Medical University of Graz, Graz, AUSTRIA.
13. Basic and Advanced Methods in Biomedical Research. MAY 13-17, 2013; Medical University of Graz, Graz, AUSTRIA.
14. Fundamentals for Natural Scientist. NOV 19, 2012 - JAN 7, 2013; Medical University of Graz, Graz, AUSTRIA.
15. Basics in Immunology. JAN 8-11, 2013; Medical University of Graz, Graz, AUSTRIA.
16. Bioethics. OCT 15-19, 2012; Medical University of Graz, Graz, AUSTRIA.
17. Microbial Community Management in Aquaculture. PhD Course and Training School. Ghent University. Ghent, BELGIUM. AUG 20-22, 2012.

SCIENTIFIC SOCIETIES MEMBERSHIPS

- European Crohn's and Colitis Organisation (ECCO) (Member ID: 43372)
- Society for Mucosal Immunology (SMI) (Member ID: 43982554)
- Grupo Español de Trabajo en Enfermedad de Crohn y Colitis Ulcerosa (GETECCU)
- Asociación Española de Gastroenterología (AEG) (Member ID: 1196)

TEACHING EXPERIENCE

1. University Hospital Zurich.
Supervisor of MSc. Student Iván Olivares-Rivas from University of Zurich.
Project: Targeting Tumor Defence with Microbiome Therapy- A Disruptive and Holistic Approach to Fight Colorectal Carcinoma. **August 2018-July 2019**
2. Medical University of Graz, Austria.
Supervisor of MD. Student Sebastian Wrighton from Medical University of Graz
Teaching *in vitro* techniques using gastrointestinal cells lines that were stimulated or infected with different bacterial stains, that were further analysed at the mRNA and protein level. **March-September 2016**
3. Medical University of Graz, Austria.
Supervisor of BSc. Student Lena Preiss from University of Hohenheim
Teaching *in vitro* techniques using gastrointestinal cells lines that were stimulated or infected with different bacterial stains, that were further analysed at the mRNA and protein level. **January-June 2015**
4. Murcia University, Murcia, Spain
Teaching assistant (Cellular Biology) **October 2011- June 2012**
Collaborate on laboratory practices design and general teaching. Set-up all reagents, distribute materials and supervise undergraduate students of the first grades.
5. Academia Nota, Murcia, Spain
Instructor of Biology & Environmental Sciences **July 2010- April 2012**
Developed syllabus on Biology, Ecology, Genetics and Geology. Design the overall course structure, including weekly and final tests.