

ALEJANDRO MAJALI MARTINEZ

PERSONAL DETAILS:

Date of birth: 08.12.1988

Nationality: Spanish

Work address: Auenbruggerplatz 14. 8036-Graz. +43-(0)316385-31285

Email: a.majali-martinez@medunigraz.at

Linkedin: www.linkedin.com/in/alejandro-majali-martinez/

EDUCATION AND TRAINING:

- 03.2013 / 03.2017** **Doctor of Philosophy (PhD). Distinction.
Medical University of Graz (Austria).**
PhD International Program: Molecular Fundamentals of Inflammation.
Thesis: *The role of placental matrix metalloproteinases 14 and 15 in inflammation associated pregnancy diseases.*
- 09.2011 / 10.2012** **Master (MSc) – Molecular Biology. Distinction.
University of Hertfordshire (United Kingdom).**
Thesis: *Analysis of reporter gene expression under constitutive promoters for their application in bacterial whole-cell biosensors. Analysis of mutated promoter sequences and correlation with promoter strength.*
- 09.2006 / 07.2011** **Licenciatura - Biology. 8.72/10.
University of Alcalá de Henares (Spain).
University of Tübingen (Germany).** Exchange student during 2010/2011 (ERASMUS Program).

WORK EXPERIENCE:

- 09.2019** **Postdoctoral researcher
Medical University of Graz (Austria)**
Effect of diabetes-associated hyperglycemia on trophoblast proliferation and apoptosis in the first trimester of pregnancy
- 09.2017 / 08.2019** **Assistant Professor
Universidad San Pablo CEU (Madrid, Spain)**
Biochemistry and Molecular Biology – Faculty of Pharmacy
- 03.2013 / 04.2017** **Research Scientist
Medical University of Graz (Austria)**
Isolation and characterization of human first trimester trophoblast. Study of membrane-type matrix metalloproteinases in the context of inflammation-associated pregnancy diseases.
- 09.2016 / 12.2016** **Visiting Research Scientist
Child & Family Research Institute. University of British Columbia (Vancouver, Canada)**
The role of matrix metalloproteinase 15 in human first trimester placenta: localization and function.
- 09.2015 / 12.2015** **Visiting Research Scientist
Centre for Trophoblast Research. University of Cambridge (UK).**
Interplay between hypoxia and endothelin-1 in the regulation of matrix metalloproteinases in human first trimester trophoblast.

AWARDS AND FELLOWSHIPS:

- 02/2020 ECO/ICO 2020 Travel Grant** – European Association for the Study of Obesity
- 09/2019 Young Investigator Travel Fellowship Award** – Diabetic Pregnancy Study Group (DPSG)
- 09/2016 YW Loke New Investigator Travel Award.** International Federation of Placenta Associations (IFPA)
- 09/2015 Research Recognition Travel Award.** American Physiological Society
- 07/2015 Bank Austria “Visiting Scientists Fellowship”.** Medical University of Graz
- 07/2014 Best Oral Presentation – Plenary Session.** International Student Congress, Medical University of Graz
- 02/2013 University Prize 2013.** University of Hertfordshire
- 10/2011 Extraordinary Award.** University of Alcalá de Henares
- 05/2010 Two excellence scholarships.** University of Alcalá de Henares
- 05/2006**

CONFERENCES:

Participation in 8 international conferences (Europe, USA and Canada).

Topics: matrix metalloproteinases, endothelin-1, trophoblast, cell migration and invasion, hypoxia, preeclampsia, inflammation.

PUBLICATIONS:

- Hoch, D., Bachbauer, M., Pochlauer, C., Algaba-Chueca, F., Tandl, V., Novakovic, B., [...] **Majali-Martinez, A.** (2020). Maternal Obesity Alters Placental Cell Cycle Regulators in the First Trimester of Human Pregnancy: New Insights for BRCA1. *Int J Mol Sci*, 21(2). doi:10.3390/ijms21020468
- **Majali-Martinez A**, Barth S, Lang U, Desoye G, Cervar-Zivkovic M. Temporal changes of the endothelin system in human cytotrophoblasts during the first trimester of pregnancy. *Physiol Res*. 2018;67(1):S247-S255.
- Hiden U; Eyth CP; **Majali-Martinez A**; Desoye G; Tam-Amersdorfer C; Huppertz B; Ghaffari Tabrizi-Wizsy N. Expression of matrix metalloproteinase 12 is highly specific for non-proliferating invasive trophoblasts in the first trimester and temporally regulated by oxygen-dependent mechanisms including HIF-1A. *Histochem Cell Biol*. 2018;149(1):43.
- **Majali-Martinez A**, Velicky P, Pollheimer J, Knofler M, Yung HW, Burton GJ, et al. Endothelin-1 down-regulates matrix metalloproteinase 14 and 15 expression in human first trimester trophoblasts via endothelin receptor type B. *Human reproduction*. 2017;32(1):46-54.
- Gauster M, **Majali-Martinez A**, Maninger S, Gutschi E, Greimel PH, Ivanisevic M, et al. Maternal Type 1 diabetes activates stress response in early placenta. *Placenta*. 2017;50:110-6.
- **Majali-Martinez A**, Hiden U, Ghaffari-Tabrizi-Wizsy N, Lang U, Desoye G, Dieber-Rotheneder M. Placental membrane-type metalloproteinases (MT-MMPs): Key players in pregnancy. *Cell adhesion & migration*. 2016;10(1-2):136-46.
- Loegl J, Nussbaumer E, Hiden U, **Majali-Martinez A**, Ghaffari-Tabrizi-Wizsy N, Cvitic S, et al. Pigment epithelium-derived factor (PEDF): a novel trophoblast-derived factor limiting fetoplacental angiogenesis in late pregnancy. *Angiogenesis*. 2016;19(3):373-88.
- Ghaffari-Tabrizi-Wizsy N, Cvitic S, Tam-Amersdorfer C, Bilban M, **Majali-Martinez A**, Schramke K, et al. Different preference of degradome in invasion versus angiogenesis. *Cells, tissues, organs*. 2014;200(3-4):181-94.