

## *Curriculum Vitae*

**Ana Ivonne Vazquez-Armendariz**

PhD

d.o.b. October 21st, 1985

### **Current position**

Group leader of the research group for lung organoids and disease modelling at the Institute for Lung Health (ILH)

### **Positions & Employment**

2021 Junior Group Leader at the Institute for Lung Health (ILH) of the research group “Lung organoids and disease modelling”, at the Justus-Liebig University Giessen (JLU), Germany

2021 Deputy director of the MBML International Graduate Program

2018 Tutor of the MBML International Graduate Program for the PhD students in their senior year

2018 Postdoctoral fellow in the Department of Internal Medicine at the Universitätsklinikum Gießen und Marburg (UKGM)

### **Education & Degrees**

2013 – 2018 PhD Program of the Faculties of Human and Veterinary Medicine of the University of Giessen

2013 - 2015 International Graduate Program “Molecular Biology and Medicine of the Lung” (MBML) as part of the Giessen Graduate School of the Life Sciences (GGL)

2010 – 2012 M.Sc. in Molecular Medicine program, University of medicine Charité, Germany

2004 – 2009 Clinical Biochemistry Program, University of Nuevo León, Faculty of Medicine, Mexico

### **Additional Qualifications**

- Instructor at the KFO309 2018 workshop on single-cell analysis
- Microinjection of adherent cells training
- High-end light microscopy training
- Laboratory Animal Science-FELASA B- training
- BD FACS Aria II cell sorter training

### **Honors and Awards**

2018 ATS International Trainee Travel Scholarship Award 2018

2017 ATS Abstract Scholarship Award and Science and Innovation Abstract Award

2016 Poster awards at SFB-TR84 2nd International Conference and 5th DZL meeting

2015 MBML Travel Award, 1st price in student examination

2010 Full scholarship awarded by the National Council of Science and Technology (CONACYT) in México to pursue my master degree in Molecular Medicine

2009 Academic merit award given by the Autonomous University of Nuevo León for the best student within each discipline

## Top-10 selected Publications

**Vazquez-Armendariz AI**, Barroso MM, El Agha E, Herold S. "3D In Vitro Models: Novel Insights into Idiopathic Pulmonary Fibrosis Pathophysiology and Drug Screening". *Cells*. 2022 May 2;11(9):1526. doi: 10.3390/cells11091526.

**Vazquez-Armendariz AI**, Seeger W, Herold S, El Agha E. "Protocol for the generation of murine bronchiolospheres". *STAR Protoc*. 2021. doi.org/10.1016/j.xpro.2021.100594.

Chu X, Taghizadeh S, **Vazquez-Armendariz AI**, Herold S, Chong L, Chen C, Zhang JS, El Agha E, Bellusci S. "Validation of a Novel Fgf10 Cre-ERT2 Knock-in Mouse Line Targeting FGF10Pos Cells Postnatally". *Front Cell Dev Biol*. 2021 May 13;9:671841. doi: 10.3389/fcell.2021.671841. eCollection 2021.

**Vazquez-Armendariz AI**, Herold S. "From clones to buds and branches: The use of lung organoids to model branching morphogenesis ex vivo". *Front Cell Dev Biol*, 2021 Mar 4;9:631579. doi: 10.3389/fcell.2021.631579. eCollection 2021.

**Vazquez-Armendariz AI**, Heiner M, El Agha E, Salwig I, Hoek A, Hessler MC, Shalashova I, Shrestha A, Carraro G, Mengel JP, Günther A, Morty R, Vadasz I, Schwemmle M, Kummer W, Hain T, Goesmann A, Bellusci S, Seeger W, Braun T, Herold S. "Multilineage murine stem cells generate complex organoids to model distal lung development and disease". *EMBO J*, 2020 Oct 28; e103476. doi: 10.15252/embj.2019103476, 2020.

Moiseenko A, **Vazquez-Armendariz AI**, Kheirollahi V, Chu X, Tata A, Rivetti S, Günther S, Lebrigand K, Herold S, Braun T, Mari B, De Langhe S, Kwapiszewska G, Günther A, Chen C, Seeger W, Tata RP, Zhang JS, Bellusci S, El Agha E. "Identification of a repair-supportive mesenchymal cell (RSMC) population during airway epithelial regeneration". *Cell Reports*, 2020 Dec 22;33(12):108549. doi: 10.1016/j.celrep.2020.108549.

Kheirollahi V, Wasnick RM, Biasin V, **Vazquez-Armendariz AI**, Chu X, Moiseenko A, Weiss A, Wilhelm J, Zhang JS, Kwapiszewska G, Herold S, Schermuly RT, Mari B, Li X, Seeger W, Günther A, Bellusci S, El Agha E. "Metformin Induces Lipogenic Differentiation in Myofibroblasts to Reverse Lung Fibrosis". *Nat Commun*. 2019 Jul 5;10(1):2987. doi: 10.1038/s41467-019-10839-0.

Salwig I, Spitznagel B, **Vazquez-Armendariz AI**, Khalooghi K, Guenther S, Herold S, Szibor M, Braun T. "Bronchioalveolar stem cells are a main source for regeneration of distal lung epithelia in vivo". *EMBO J*. 2019 Jun 17;38(12):e102099. doi: 10.15252/embj.2019102099. Epub 2019 Apr 26.

Schmoldt C, **Vazquez-Armendariz AI**, Shalashova I, Selvakumar B, Bremer CM, Peteranderl C, Wasnick R, Witte B, Gattenlöhner S, Fink L, Vadasz I, Morty RE, Pleschka S, Seeger W, Günther A, Herold S. "IRE1 Signaling As a Putative Therapeutic Target in Influenza Virus-induced Pneumonia". *Am J Respir Cell Mol Biol*. 2019 Oct;61(4):537-540. doi: 10.1165/rcmb.2019-0123LE.

Quantius J, Schmoldt C, **Vazquez-Armendariz AI**, Becker C, El Agha E, Wilhelm J, Morty R, Vadasz I, Mayer K, Gattenloehner S, Fink L, Matrosovich M, Li X, Seeger W, Lohmeyer J, Bellusci S, Herold S. "Influenza Virus Infects Epithelial Stem/Progenitor Cells of the Distal Lung: Impact on Fgfr2b-Driven Epithelial Repair". *PLoS Pathog*. 2016 Jun; 12(6): e1005544.