



Ana Beatriz Villaseñor-Altamirano
PhD student

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About me

Professional memberships and affiliations: RLadies Queretaro (Organizer and Member), SolBio (Member), Software Carpentry (Instructor), ISCB (Member), Comunidad de Desarrolladores de Software en Bioinformatica (Member)

Research experience

- *A. Medina-Rivera lab*: I worked with lung diseases to integrate microarray data and RNA-seq data for characterizing Chronic Obstructive Pulmonary Disease and Idiopathic Pulmonary Fibrosis transcriptomic profiles. Complementary to this project, I developed a MySQL database, an interactive website with python and an R package for PulmonDB. I also created a Shiny app for a meta-analysis (paper under development).
- *G. Elizondo lab*: I enrolled in a master's degree program with the specialization in cell biology, and worked with splicing microarrays to unscramble the effect of the TCDD in alternative splicing using C57BL6 mouse hepatocytes under collaboration Paul C. Boutros.
- *S. Villa-Treviño lab*: I learnt molecular and cellular biology skills working in the laboratory and manipulated human model organisms (rats and guinea pig). I expanded my knowledge in cancer biology by doing research in hepatocarcinogenesis.

Education

2021	Ph.D. candidate in Biomedical Sciences	Univerisdad Nacional Autonoma de México (UNAM)
	Querétaro, Mexico	
2016	Master of Science in Cell Biology	Centro de Investigaciones y Estudios Avanzados del IPN (CINVESTAV)
	Mexico city, Mexico	
2012	Biochemical Engineering	Escuela Nacional de Ciencias Biológicas del Instituto Politécnico Nacional (ENCB-IPN)
	Mexico city, Mexico	

Publications

1. Bravo-Lopez, M., Villa-Islas, V., Arriaga, C. R., Villaseñor-Altamirano, A., &... (2020). Paleogenomic insights into the red complex bacteria tannerella forsythia in pre-hispanic and colonial individuals from mexico. *Philosophical Transactions of the Royal Society B*.
2. Villaseñor-Altamirano, A., Moretto, M., Maldonado, M., Moral, A. Z.-D., &... (2020). PulmonDB: A curated lung disease gene expression database. *Scientific Reports*.
3. Moretto, M., Sonego, P., Villaseñor-Altamirano, A., & Engelen, K. (2019). First step toward gene expression data integration: Transcriptomic data acquisition with COMMAND>. *BMC Bioinformatics*.
4. Villaseñor-Altamirano, A., Watson, J., Prokopec, S., Yao, C., Boutros, P., &... (2019). 2,3,7,8-tetrachlorodibenzo-p-dioxin modifies alternative splicing in mouse liver. *PloS One*.

Internships

2019	Internship during Ph.D. for 3 months	Rafael Irrizary Laboratory, Dana-Farber Cancer Institute, Boston, USA.
2017	Internship during Ph.D. for 3 months	Kristof Engelen, Fondazione Edmun Mach, Trento, Italy
2015	Internship during M.Sc for 7 months	Paul C. Boutros Laboratory, Ontario Institute for Cancer Research, Toronto, Canada.
2010	Internship during B.Sc. for 2 months	Michael Cox Laboratory, Prostate Center, Vancouver, Canada.

Teaching experience

Teacher	2020	UNAM-LIIGH, Mexico
	Bioinformatica I (Python and databases modules)	
Teacher	2020	UNAM-LIIGH, Mexico
	Bioinformatica II (RNAseq and Meta- analysis)	
Teacher	2019	UNAM-LIIGH, Mexico
	Bioinformatica I (Python and databases modules)	
Instructor	2018	Universidad de Puerto Rico, Puerto Rico
	Ecology/R Workshop in DataCarpentry	
Assistant	2017	UNAM-CCG, Mexico
	International Workshops on Bioinformatics-GALAXY	