Victor Pastrana-Gómez
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EDUCATION

2022-2030 Case Western Reserve University School of Medicine
- Doctor of Medicine (expected)
- Doctor of Philosophy (expected)

2016-2020 University of Illinois Urbana-Champaign
Bachelor of Science
- Major in Bioengineering
- Minor in Biochemical Engineering
- 3.71 GPA
- Chancellor's Honors Scholar

HONORS AND AWARDS

2018 Great Lakes Division Developmental Team Champions (Ultimate Frisbee)

2024 Imaging NIH T32 Training Program

WORK EXPERIENCE

2020-2022 Research Assistant II/Lab Manager
Cincinnati Children's. Cincinnati, OH
- Head of management of lab materials. Coordinate communication between the Gu lab and collaborators. Collaborate on various projects within the Gu Lab and other labs at Cincinnati Children's. Led a project to optimize imaging of multiple vessel organoids to ensure enhanced maturation of multiple organoid co-cultures

2019-2020 Biomedical Engineer
ResnENT, Champaign, IL.
- Designed new reverse-mechanism concept for syringes to solve the need of the sponsor within ResnENT. Iterated and redesigned for proof of concept and optimal performance. Communicated progress through weekly meetings and presentations. Monitored budget and spending for development of new syringe

RESEARCH EXPERIENCE

2021-2022 Cincinnati Children's Hospital, Pulmonary Biology, CuSTOM
PI: Mingxia Gu, MD, PhD
Project: "KMT2D-NOTCH Mediates Coronary Abnormalities in Hypoplastic Left Heart

Syndrome"

- Performed differentiation protocols on iPSCs
- Analyzed abnormalities in differentiation in cell lines from HLHS patients
- Observed proliferation activity in differentiated cell populations

2020-2022 Cincinnati Children's Hospital, Pulmonary Biology, CuSTOM
PI: Mingxia Gu, MD, PhD
Project: "Deciphering Endothelial and Mesenchymal Organ Specification in Vascularized Lung and Intestinal Organoids"

- In collaboration with Dr. Yifei Miao in Dr. Gu's lab
- Analyzed endoderm-derived organoids
- Developed novel concomitant cell differentiation to mature organoids
- Performed microfluidic cell culture for organoids to further mature vasculature present in organoids

COMMUNITY SERVICE

2022-2023 Esperanza. Cleveland, OH

- Organized a virtual and in person event for Latinx high school and university students interested in pursuing a career in healthcare and provided potential mentors who are currently employed at the Cleveland Clinic and University Hospitals
- Mentored high school juniors and sophomores on the university application process
- Aided in the generation of a website for Latinx students to obtain answers to common questions encountered during the university application process

2018-2020 Education Justice Project. Champaign, IL

- Spread awareness of the injustices in the current justice system
- Educated about the inadequacies of prisons
- Attended sessions to know about those who were formerly incarcerated and erase the stigma surrounding them

2019-2020 Cenas y Ciencias. Urbana, IL

- Mentored Hispanic/Latine students (grade 4-8) on potential career choices
- Aided in the development of activities to introduce students to different scientific concepts

LEADERSHIP

2019-2020 Illinois Automotive Club, University of Illinois at Urbana-Champaign
Treasurer

- Recorded expenses for the club
- Aided in the planning of autocross events and car meets

2019-2020 IPal-Group Leader

- Introduced the Illinois campus to students studying abroad in Champaign
- Served as the primary resource to a group of 7 students for any question or concern regarding life on campus

BIBLIOGRAPHY

Peer Reviewed Articles

1. Yu Z. Zhou X. Liu Z. **Pastrana-Gomez V**. et. al "KMT2D-NOTCH Mediates Coronary Abnormalities in Hypoplastic Left Heart Syndrome" *Circ Res.* 2022 Jul 22;Epub 2022 Jun 28. PMID: 35762338
2. Miao Y. Tan C. Pek N. Yu Z. Iwasawa K. Kechele D. Sundaram N. **Pastrana-Gomez V**. et. Al "Deciphering Endothelial and Mesenchymal Organ Specification in Vascularized Lung and Intestinal Organoids" – **Submitted to *Cell*.**

MEMBERSHIPS

Latino Medical Student Association (LMSA)
Society of Hispanic Professional Engineers (SHPE)
Biomedical Engineering Society (BMES)

Languages: fluent in English, Spanish, some Italian
Interests: Football, Hiking, Ultimate frisbee, Cooking