

Scout Osborne
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MD-PhD student with a background in biomedical research and social justice advocacy. Interested in a career in infectious diseases and global health.

EDUCATION

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| 2024-Present | Case Western Reserve University School of Medicine <ul style="list-style-type: none">• Doctor of Medicine (2032 expected)<ul style="list-style-type: none">o 2025 Leroy A. Rodgers, MD, Preceptorship Program in Family Medicine• Doctor of Philosophy (2032 expected) |
| 2016-2021 | Oregon State University <ul style="list-style-type: none">• Bachelor of Science in Biochemistry & Molecular Biology<ul style="list-style-type: none">o Concentration in Advanced Molecular Biology & Minor in Chemistry• Bachelor of Arts in Spanish<ul style="list-style-type: none">o Semester at Universidad de las Américas Puebla, México |

HONORS AND AWARDS

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| 4/17/2023 | Fulbright U.S. Student Award: Study/Research in Honduras |
| 2016-2021 | Oregon State University (OSU) Honor Roll |
| 2019-2020 | OSU College of Science scholarships; \$6,500 |
| 2018-2019 | OSU College of Liberal Arts scholarships; \$5,625 |
| 2016-2019 | OSU Evergreen State Scholarship Award; \$32,000 |
| 2016-2019 | LGBTQ+ leadership scholarship awards; \$51,300 |
| 11/29/2018 | U.S. Department of State Gilman Scholarship: Mexico; \$3,000 |
| 2016-2017 | OSU College of Engineering scholarships; \$10,200 |

AFFILIATIONS & MEMBERSHIPS

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| 2024-Present | Biomedical Graduate Student Organization (BGSO), Case Western Reserve University |
| 2021-Present | American Society for Biochemistry and Molecular Biology |
| 2019-Present | Phi Beta Kappa, national honor society |

RESEARCH EXPERIENCE

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| 2023-2024 | Central American Technological University, Honduras
PI: Manuel Antonio Sierra Santos, MD, PhD
Project: "Study of dengue virus infection in Honduran infants and children" <ul style="list-style-type: none">• Studied diagnostic testing for dengue in pediatric patients in low-resource settings• Conducted sample collection at Hospital Escuela, Tegucigalpa, Honduras• Wrote study protocol and IRB |
| 2021-2023 | Northwestern University, Feinberg School of Medicine
PI: Eva Gottwein, PhD
Project: "Mechanisms of KSHV-mediated endothelial cell deregulation" <ul style="list-style-type: none">• Bench research focused on Kaposi's Sarcoma-associated herpesvirus (KSHV)• Designed and conducted experiments to identify mechanisms of KSHV transformation and transcriptional reprogramming |

- 2019-2021 Oregon State University, College of Pharmacy
 PI: Arup Indra, PhD
 Project: “Role of Ctip2/Bcl11b in skin development”
- Conducted mouse experiments on therapeutics to improve cutaneous wound healing
 - Trained in molecular and cellular techniques like DNA and protein extraction, PCR, histological analysis, immunohistochemistry, gel electrophoresis, and Western Blot
 - Awarded OSU College of Pharmacy Undergraduate Summer Research Scholarship 2020
- 2018-2019 Oregon State University, Department of Biochemistry and Biophysics
 PI: Alvaro Estevez, PhD
 Project: “Induction of human iNPCs-derived motor neurons death by oxidative stress”
- Research focus on neurodegenerative disease Amyotrophic Lateral Sclerosis (ALS)
 - Responsible for differentiating and culturing motor neurons, immunoaffinity purification and high content imaging of live cells
 - Awarded Cripps Undergraduate Research Experience (CURE) Summer Fellow 2018

LEADERSHIP & SERVICE

- 2025-Present Immigrant Aid Clinic, Cleveland, OH
- Take vitals, connect patients to free health resources and interpret Spanish for clinicians
- 2025-Present Case Western Applied Medical Spanish, Cleveland, OH
- Lead the medical preclinical elective and organize monthly Lunch & Learns for CWRU School of Medicine & Cleveland Clinic Lerner College of Medicine students
- 2024-Present Case Western Human Rights Initiative, Cleveland, OH
- Scribe in Spanish for refugee or asylum seeker medical/psychiatric health evaluations

BIBLIOGRAPHY

Peer Reviewed Articles

Kuehnle, N., **Osborne, S.M.**, Liang, Z., Manzano, M., & Gottwein, E. “CRISPR Screens Identify Novel Regulators of cFLIP Dependency and Ligand-Independent, TRAIL-R1-Mediated Cell Death.” *Cell Death Diff.* 2023 May; 30(5):1221-1234. PMID: 36801923.

Oral Presentations

Osborne, S.M., Gaviria Rozo, A., Hill, D.J., Taylor, O.A., Yoon, A., Eckert, R., Martin, R., Azzam, S., Sahmoud, A., Gupta, S., Burgener, A., Pope, R., Farr, C. “Defining the neovaginal microbiome after gender affirming vaginoplasty.” Case Western Reserve University Graduate and Medical Student Research Day, Cleveland, OH (2025).

Bhattacharya, N., **Osborne, S.M.**, Indra, A.K., & Ganguli-Indra G. “Effects of growth factor-loaded nanofibers on cutaneous wound healing in a mouse model.” Oregon State University Undergraduate Research Symposium, Corvallis, OR (2020).

Poster Presentations

Sierra Santosa, M.A., Mendoza, A., **Osborne, S.M.** “Panorama epidemiológico del dengue en América, Istmo Centroamericano y Honduras en 2024.” Conferencia Internacional de Ciencia, Tecnología e Innovación, Tegucigalpa, Honduras (2024).

Osborne, S.M., Alexiev, B., & Gottwein, E. “Immunofluorescence study of KSHV-induced loss of contact inhibition in primary human lymphatic endothelial cells.” Northwestern University Lewis Landsberg Research Day, Chicago, IL (2022).

Osborne, S.M., Zaragoza, A., Franco, M.C., & Estevez, A.G. “Expression of p75 Neurotrophin Receptor Induced by Muscle Extract in Neurons.” Oregon State University Undergraduate Research Symposium, Corvallis, OR (2018).

Languages: native English, advanced Spanish

Interests: crochet, board games, painting, my pets