

Mikaela E. Simon

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Education

- August 2020-present** Ph.D. program, Department of Pathology and Laboratory Medicine, University of Kansas Medical School, Kansas City, KS
Mentor: Michael J. Soares, Ph.D.
Project title: Role of FSTL3 in placental development.
- August 2019 M.S., Kinesiology (AOE: Exercise Physiology), Kansas State University, Manhattan, KS
- May 2018 B.S., Kinesiology, Kansas State University, Manhattan, KS

Professional Experience

- Sept. 2019-Present **Research Assistant, Department of Pathology and Laboratory Medicine, University of Kansas Medical Center**
- Dec. 2018-Aug. 2019 **Graduate Student Research Cardio-Oncology and Autonomic Physiology Laboratory, Kansas State University**
Mentor: Bradley J. Behnke, Ph.D.

Meetings and Symposia Attended

- Dec. 13-18, 2021 54th Annual Society for the Study of Reproduction Meeting, St. Louis, MO
- Oct. 13-15, 2021 18th Annual Gilbert S. Greenwald Symposium, Virtual
- Aug. 30- Sept. 2, 2021 International Federation of Placenta Associations Meeting, Virtual
- Oct. 8-9, 2020 17th Annual Gilbert S. Greenwald Symposium, Virtual
- July 8-12, 2020 Society for the Study of Reproduction Meeting, Virtual
- Nov. 7-8, 2019 16th Annual Gilbert S. Greenwald Symposium, Kansas City, KS

Professional Affiliations

- 2020-Present Society for the Study of Reproduction

Awards

- 2021 Greenwald Symposium in Reproduction and Perinatal Research, Outstanding Flash Talk
- 2021 Annual Meeting of the Society for the Study of Reproduction, abstract selected for an oral presentation
- 2021 Donald C. Johnson Trainee Travel Award

Publications

Nteeba, J, Varberg, KM, Scott, RL, **Simon, ME**, Iqbal, K, Soares, MJ. Poorly controlled diabetes mellitus alters placental structure, efficiency, and plasticity. (2020) *BMJ Open Diabetes Research & Care*. 8(1):e001243.

Kozai, K, Iqbal, K, Scott, RL, **Simon, ME**, Dhakal, P, Fields, PE, Soares, MJ. Protective role of IL33 signaling on negative pregnancy outcomes associated with lipopolysaccharide exposure (2020) *The FASEB Journal*. 35(2): e21272.

Varberg, KM, Iqbal, K, Muto, M, **Simon, ME**, Scott, RL, Kozai, K, Choudhury, RH, Alpin, JD, Biswell, R, Gibson, M, Okae, H, Arima, T, Vivian, JL, Grundberg, E, Soares, MJ. (2021) ASCL2 reciprocally controls key trophoblast lineage decisions during hemochorial placenta development. *Proceedings of the National Academy of Sciences U.S.A.* 118: e2016517118.

Horn, AG, Kunkel, ON, Baumfalk, D, **Simon, ME**, Schulze, KM, Hsu, WW, Muller-Delp, J, CS, Poole, D, Behnke, BJ. (2021) Prolonged mechanical ventilation increases diaphragm arteriole circumferential stretch without changes in stress/stretch: Implications for the pathogenesis of ventilator-induced diaphragm dysfunction. *Microcirculation*. 28(8): e12727.

Abstracts Presented at National Meetings

Horn, AG, Kunkel, ON, Baumfalk, D, **Simon, ME**, Schulze, KM, Bruells, CS, Poole, D, Behnke, BJ. The effects of prolonged mechanical ventilation on structural and material properties of diaphragm arterioles. (2020) *The FASEB Journal*. 34(S1):1-1.

Kozai, K, Winchester, M-L, **Simon, ME**, Iqbal, K, Muto, M, Scott, RL, Slawson, C, Soares, MJ. AKT signaling controls trophoblast development and placentation. (2021) *Annual Meeting of the Society for Reproductive Investigation*, Boston, MA.

Simon, ME, Iqbal, K, Moreno-Irusta, A, Scott, RL, Kuna, M, Varberg, KM, Vu, T-H-H, Tuteja, G, Soares, MJ. Role of FSTL3 in trophoblast cell lineage development and placentation. (2021) *Annual Meeting of the Society for the Study of Reproduction*, St. Louis, MO.