

First Annual UCLA Ginsburg Symposium 2022 in Precision Health

Frontiers in Gene Editing

Speaker Bios



Tippi MacKenzie, MD

Professor of Surgery at the University of California, San Francisco Division of Pediatric Surgery and the Fetal Treatment Center

San Francisco, CA

Tippi MacKenzie is a Professor of Surgery at the University of California, San Francisco and the Director of the Eli and Edythe Broad Institute for Regeneration Medicine. She is a pediatric and fetal surgeon who is focused on developing better ways to diagnose and treat genetic diseases before birth. She runs a translational research lab examining fetal immunology and maternal-fetal tolerance, with the ultimate goal of inventing new fetal therapies for patients with genetic diseases or pregnancy complications. She has moved two fetal molecular therapies from the lab to the clinic as phase 1 clinical trials after obtaining FDA approval: in utero hematopoietic stem cell transplantation to treat fetuses with alpha thalassemia and in utero enzyme replacement therapy in fetuses with lysosomal storage disorders. Her research has been supported by the National Institutes of Health, the March of Dimes, the California Institute for Regeneration Medicine, and the Burroughs-Wellcome Fund. Tippi has been awarded the Jacobson Award by the American College of Surgeons for her innovative work and is a member of the American Society for Clinical Investigation.