



Laura D. Brown, MD
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Laura D. Brown, MD, is Professor of Pediatrics at the University of Colorado Anschutz Medical Campus and a clinical neonatologist. Her overall research goal is to understand the basic biology of fetal muscle development and protein metabolism in order to optimize body composition and growth in pathological conditions in pregnancy, including intrauterine growth restriction (IUGR). Her important contributions to the field include demonstrating that lower muscle mass in the IUGR fetus is due to a marked reduction in muscle protein synthesis rates, as opposed to increased protein breakdown rates. She performs fetal physiological studies using large animal models and uses stable isotopes and metabolomics to assess muscle-specific protein metabolism. She blends her basic science/translational research in fetal growth and metabolism with clinical nutritional management of the preterm and IUGR neonate. She has over 80 publications that span the areas of fetal physiology, fetal growth, skeletal muscle biology, and neonatal nutrition. She is a former K12 Building Interdisciplinary Research Careers in Women's Health (BIRCWH) Scholar and her work is currently R01 funded.