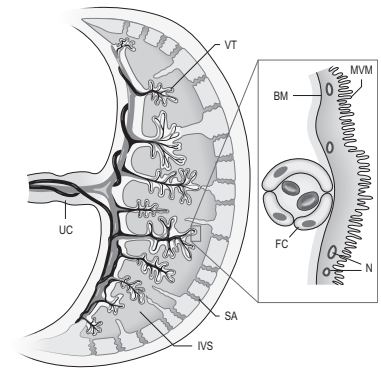




University of Colorado
Anschutz Medical Campus



POSTDOCTORAL FELLOWSHIPS

Placental Function Determines Life Long Health

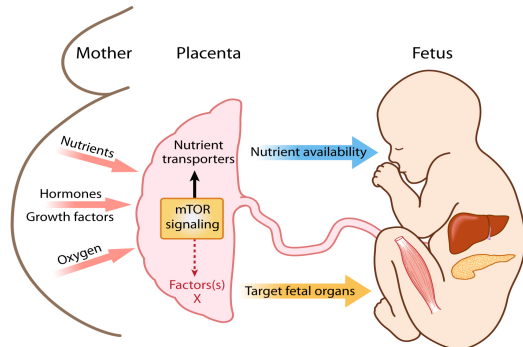
NIH-funded postdoctoral fellowships are immediately available in the Department of Obstetrics & Gynecology, University of Colorado Anschutz Medical Campus, Aurora, CO, USA with Drs. Theresa Powell and Thomas Jansson.

Our research is focused on exploring cellular and molecular mechanisms of regulation of placental nutrient transporters and to investigate the role of placental function in determining fetal growth and long-term health. We employ physiological, molecular and translational approaches, ranging from functional and molecular studies to interventions in high-risk human pregnancies. Our lab utilizes a wide variety of model systems including primary human trophoblast cells and explants, human placental tissue, mice, rats, and non-human primates.

We are seeking highly motivated candidates holding a PhD degree and with documented training and experience in integrative physiology, molecular/cell biology and/or mouse models. Current projects include studies of the impact of lipids on placental function, the role of mTOR signaling in placental nutrient sensing, mTOR as a novel folate sensor, characterization of trophoblast adiponectin and TLR4 signaling, development of placental specific conditional gene targeting of mTOR signaling in the mouse, identifying mechanistic links between maternal obesity, altered placental function, fetal overgrowth and adult health using a novel mouse model of obesity in pregnancy, placental function in first trimester and intervention studies in high-risk pregnant women.

Application: Apply through www.jobsatcu.com Job posting number: F02570. Quicklink: <http://www.jobsatcu.com:80/postings/102756>
Review of applications will begin July 6, 2015 and continue until 2-4 positions are filled.

For more information, please contact: **Thomas Jansson** (thomas.jansson@ucdenver.edu); **Theresa Powell** (theresa.powell@ucdenver.edu)



Some recent publications:

- Jansson N et al. 2008 *Am J Clin Nutr* **87**:1743-1749.
- Jones HN et al. 2009 *FASEB J*, **23**: 271-278.
- Jones HN et al. 2010 *Diabetes* **59**:1161-1170.
- Rosario FJ et al. 2011 *Endocrinology*, **152**:1119-29.
- Rosario FJ et al. 2012 *J Physiol*, **590**:1495-509.
- Rosario FJ et al. 2013 *J Physiol*, **591**:609-25.
- Jansson N et al. 2013 *J Clin Endocrinol Metab Physiol*, **98**: 105-113.
- Kavitha JV et al. 2014 *FASEB J*, **23**: 271-278.
- Shehab MA et al 2014 *Endocrinology* **55**:1327-39.
- Aye IL et al. 2014 *Mol Endocrinol*. **4**:512-24.