



**Name:** Beverly A. Hutcherson

**Email:** bahutcherson@wisc.edu

**Major Professor:** David Abbott

**Degree Objective:** MS. Endocrinology and Reproductive Physiology

**Background:** BS Biology Marquette University, Milwaukee, WI

**Current Research Project:**

Anti-mullerian hormone (AMH), a dimeric glycoprotein and a member of the TGF- beta superfamily, is a reliable and accurate biomarker for the numbers of antral follicles remaining in the ovary. Previous studies have shown AMH to be expressed throughout folliculogenesis. Its function is strongly associated with the inhibition of follicle development and recruitment of the growing pool. AMH protein expression in the single dominant follicle has not yet been shown. The purpose of this study was to investigate the presence of AMH in the cumulus and mural granulosa cells of the dominant follicle. Cumulus and mural granulosa cells were aspirated from dominant follicles of normo-androgenic ovulatory women at oocyte retrieval after ovarian gonadotropic hyperstimulation for in vitro fertilization (IVF). Western blots using polyclonal and monoclonal antibodies were used to detect the presence of AMH in these cell lysates. This study showed that AMH was present in both cumulus and mural cells in dominant follicles retrieved after IVF in normal women suggesting that AMH is functional in the dominant follicle.

**Honors:**

Advanced Opportunity Fellow- University Wisconsin-Madison

**Grants Received:**

Advanced Opportunity Fellow- University Wisconsin-Madison

NIH Minority Supplement 2005-2007

**Publications:**

Dumesic DA, Patankar MS, Barnett DK, Lesnick TG, Hutcherson BA, Abbott DH. (2009). Early Prenatal Androgenization Results in diminished Ovarian Reserve in Adult Female Rhesus Monkeys, Human Reproduction 24(12):3188-95

**National Presentations:**

**Other Presentations:**

Daniel A Dumesic, Manish S Patankar, Beverly A Hutcherson, and David H Abbott. Reduced Serum Antimullerian Hormone (AMH) Levels Following Early Prenatal Androgenization in Adult Female



Rhesus Monkeys Predict an Exaggerated Age-Related Loss of Ovarian Response to Recombinant Human (rh) Follicle-Stimulating Hormone (FSH) Therapy. ERP Annual Symposium 2009.

**ERP Service:**

Symposium Committee, Endocrinology-Reproductive Physiology Training Program

Seminar Committee, Endocrinology-Reproductive Physiology Training Program

Chair of Guest Speaker Reception Planning Committee, Endocrinology-Reproductive Physiology Training Program