

## *CURRICULUM VITAE*

### **KEITH RICHARD MASTERSON**

**Home:** 999 SE Tamango Street  
Hillsboro, OR 97123  
(330) 899-1209

## **SUMMARY**

### **Clinical Experience**

13 years of experience in the field of Human Assisted Reproduction Technology with involvement in the laboratory evaluation and treatment of infertility. Have worked in an assisted reproduction laboratory covering many aspects of andrology, endocrinology, and embryology. Worked in an embryology laboratory that handles 200 cases/year. Many skills have been developed as an ART laboratory technician in the following areas:

- Oocyte handling and manipulation.
- ICSI manipulation technique
- Blastomere Biopsy
- Assisted Hatching
- Embryo handling and culture techniques.
- Embryo Transfer
- Embryo and sperm cryopreservation/thawing.
- Sperm cell isolation from epididymal aspirations and testicular biopsies (MESA, TESA, TESE, PESA, Micro TESE) in preparation for cryopreservation and ICSI.
- Semen analysis, Computer Assisted Semen Analysis (CASA utilizing the Hamilton Thorne), Sperm morphology, Antisperm antibody evaluations.
- Sperm washing techniques for Intrauterine Insemination, IVF procedures, and Sex Enrichment Procedures (Swimup, Percoll, Isolate).
- Operation and maintenance of Immulite Automated Immunoassay System.
- Laboratory quality control and quality assurance procedures.
- Phlebotomy

Experience and involvement in a patient informed consent meeting about IVF procedures.

## **Research Experience**

Experience as a core member for the Assisted Reproductive Technologies Laboratory at the Oregon National Primate Research Center. Supervisor of the technical aspects of mouse experiments and overall management of the colony. Many skills have been developed in the following areas:

### **Monkey**

- ICSI including manipulated oocytes
- Embryo Transfer.
- Semen Washing.
- Media preparation for embryo growth.
- Ultrasound.
- Injections.

### **Mouse**

- Colony production and management.
- Surgical Embryo Transfer.
- Surgical Vasectomy.
- Stem cell injection into 8 cells or blastocysts.
- Chimera production.
- Ovarian Stimulation.
- Egg and Embryo collection.
- Dissection.

Experience using computer software and technology for data handling, organizational, and documentation purposes, including:

- Spreadsheet (Excel, Microsoft Word, Resource)
- Graphics and presentational applications (Power Point)

### **Areas of interest include:**

- Fertility preservation for cancer patients
- Freezing techniques for In Vitro Fertilization (IVF)
- Intracytoplasmic Sperm Injection (ICSI)
- Blastocyst culture techniques
- Somatic Cell Nuclear Transfer
- Mouse chimera production

## EMPLOYMENT HISTORY

- 3/2011-present**                      **Embryo Culture Technician**
- Oregon Health and Science University  
University Fertility Consultants  
3303 SW Bond Avenue, Room 10000  
Portland, OR 97239
- 3/10-3/11**                                **Senior Research Assistant**
- Oregon Health and Science University  
Oregon National Primate Research Center  
505 NW 185<sup>th</sup> Avenue  
Beaverton, OR 97006
- 9/04-2/10**                                **Embryology Lab Technician**
- Reproductive Gynecology Laboratories, LLC  
95 Arch Street, Suite 250  
Akron, OH 44304
- 9/03-8/04**                                **Andrology/Cryotechnician**
- Biogenetics, Corporation  
1130 Route 22 West  
Mountainside, NJ 07092
- 2/03**                                         **Embryology Technician/Monthly Contract**
- Advanced Fertility & Reproductive  
Endocrinology Institute, LLC  
2728 Sunset Blvd., Suite 305  
West Columbia, SC 29169
- 1/00 to 12/02**                            **Embryology Lab Technician**
- Reproductive Medicine Associates of New Jersey  
111 Madison Avenue, Suite 100  
Morristown, NJ 07962
- 03/99 to 01/00**                         **Andrology/Endocrinology Lab Technician**
- Southeastern Fertility Center  
1375 Hospital Drive  
Mt. Pleasant, SC 29464

**06/98 to 02/99**

**Andrology Lab Technician (Internship)**

University Fertility Institute  
Andrology Laboratory  
4775 Knightsbridge Blvd.  
Suite 103  
Columbus, OH 43

**EDUCATION**

**June 2012**

**Masters in Clinical Embryology and Andrology**

Eastern Virginia Medical School  
The Jones Institute  
Norfolk, Virginia

**June 1998**

**Bachelor of Science**

Department of Animal Science  
The Ohio State University, Columbus, Ohio

Course work included Reproduction Physiology and Advanced Reproduction Physiology. These courses involved both lecture and Laboratory exercises dealing with:

- Gamete Biology
- Female and Male Endocrinology and Anatomy
- Ethics
- History of IVF
- Assisted Reproductive Techniques
  - IVF, ICSI, GIFT
  - Preimplantation genetic diagnosis (PGD)
  - Cryopreservation

**PERSONAL INFORMATION**

**Date of birth:** April 1, 1976 Cleveland, Ohio

**Marital Status:** Married

**REFERENCES**

**Available on Request**