



UNIVERSITY OF KENTUCKY

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**CENTER OF EXCELLENCE IN REPRODUCTIVE SCIENCES**

12 March, 2007

TO: Dr. Cleophus Price, Assistant Dean, Graduate Academic Studies  
FROM: Dr. Doris J. Baker, Director, Reproductive Laboratory Science Certificate  
SUBJECT: Review of the Reproductive Laboratory Science Graduate Certificate

### **Requested Summary for the Graduate Certificate in Reproductive Laboratory Science Summary**

- 1. Introduction:** The Graduate Certificate in Reproductive Laboratory Science (RLS) prepares graduates for entry level technologist positions in assisted reproductive technology (ART) laboratories and related fields in research, industry and marketing. The curriculum consists of 12-14 hours in RLS courses, including two credit hours of clinical practica in clinical andrology and embryology laboratories. The Graduate Certificate may be completed in approximately seven months of study. In addition to the RLS core faculty, lecturers throughout the United States contribute to the curriculum, instructing in their area of expertise. These professionals are ART and clinical laboratorians, laboratory managers, researchers, ethicists, attorneys and policy analysts. Directors and supervisors in andrology laboratories and ART laboratories, appointed as clinical faculty by the University of Kentucky, supervise RLS students in the clinical practica.
- 2. Faculty:**
  - Core faculty:**
    - **Doris J. Baker, Ph.D., HCLD(ABB), MT(ASCP)**, Professor and Director, Division of Clinical and Reproductive Sciences, Director, Graduate programs in Reproductive Laboratory Science, University of Kentucky (Full member of Graduate Faculty).
    - **Philip Bridges, Ph.D.**, Assistant Research Professor, Reproductive Laboratory Science Programs, University of Kentucky.

- **Kim Campbell, M.S., MT(ASCP)**, Adjunct Assistant Professor and Medical Instructional Specialist, Education and Laboratory Coordinator, Reproductive Laboratory Sciences programs, University of Kentucky, **Damodaran Chendil, Ph.D.**, Assistant Research Professor, Reproductive Laboratory Science Programs, University of Kentucky.
  - **Linda S. Gorman, Ph.D., MT(ASCP)**, Associate Professor and Director of Graduate Studies, Division of Clinical and Reproductive Sciences, (Full member of Graduate School).
  - **Chemyoung (Jay) Ko, Ph.D.**, Associate Professor, Division of Clinical and Reproductive Sciences, University of Kentucky, (Associate Member of UK Graduate Faculty)
  - **Oliver R. Oakley, Ph.D.**, Assistant Professor, Reproductive Laboratory Science Programs, University of Kentucky. (Associate member of UK Graduate School)
  - **Julie A. Ribes, M.D., Ph.D.**, Associate Professor Pathology and Laboratory Medicine, University of Kentucky College of Medicine, Associate Director of Hospital Laboratories, Director of Clinical Microbiology, Assistant Director of Special Chemistry, Infectious Disease Serology; Medical Director, CLS and RLS, Division of Clinical and Reproductive Sciences, University of Kentucky, (Associate member of UK Graduate faculty)
  - **Jeannine Witmyer, Ph.D.** Supervisor, Andrology and Cryobiology, Boston IVF, Waltham, MA; Adjunct Assistant Professor, Division of Clinical and Reproductive Sciences, University of Kentucky, (Associate Member of UK Graduate Faculty)
  - Program **Lecturers** and **Clinical Faculty** lists attached
3. **Admissions:** Applicants must:
- Meet all requirements for admission to the Graduate School at the University of Kentucky, including minimum GPA required for post-baccalaureate status
  - Hold a bachelor's degree in Clinical Laboratory Sciences (Medical Technology) OR a Bachelor's degree in science with acceptable laboratory experience
  - Complete the RLS application process, including providing 3 professional reference letters
  - Interview may be required (determined by the RLS Admissions Committee)
4. **Current requirements for completion** of the RLS Graduate Certificate includes successful completion of the following didactic/laboratory and clinical practica courses:
- CSC 615 Reproductive Laboratory Science (1 credit hour/distributive learning)
  - CSC 616 Andrology (1 credit hour/distributive learning)
  - CSC 617 Reproductive Microbiology & Immunology (1 credit hour/distributive learning)

- CSC 528 Laboratory Techniques (2 credit hours; hands-on laboratory course; *required for all students not having acceptable laboratory experience prior to entry into the program*)
  - CSC 618, Laboratories in Andrology, Reproductive Microbiology & Immunology (1 credit hour; hands-on laboratory class)
  - CSC 621 Embryology & ART (3 credit hours; lecture and laboratory course)
  - CSC 624 Gamete & Embryo Cryopreservation (1 credit hour; lecture and laboratory course)
  - 625 Mgt, Policy, Ethical & Legal Issues in ART (2 credit hours)
  - 626 Andrology Clinical Practicum (1 credit hour; clinical practicum in accredited ART [assisted reproductive technology] laboratory); program completion requires successful completion of the andrology checklist (attached)
  - CSC 627 ART Clinical Practicum (1 credit hour clinical practicum in accredited ART [assisted reproductive technology] laboratory); program completion requires successful completion of the ART/cryobiology checklist (attached)
5. **Rationale for program continuation:** The RLS Graduate Certificate should continue to be available for students wishing to enter the field of ART that already hold an acceptable degree(s). For example, an individual receiving the graduate certificate in 2006 is a UK faculty member with a Ph.D. in reproductive physiology, who wished to learn the clinical aspects of her field to expand instructional and research commitments. All RLS Graduate Certificate courses are included as part of the RLS track in the Clinical Sciences Master of Science degree. As a result additional resources, including personnel, are not required to accommodate certificate candidates.
  6. **Advertising:** Brochure and copy of web page attached.
  7. **Certificate:** Copy of certificate awarded to graduates is attached.

Note: An additional student has completed the RLS Graduate Certificate: Karen McDowell, Ph.D. (412-78-7832), 2006-05-07.

## Lecturers

**Paul Bachner**, M.D. Chairman and Professor, Department of Pathology & Laboratory Medicine, University of Kentucky Chandler Medical Center, Lexington, KY; Past-President, College of American Pathologists.

**Erica Behnke**, Ph.D., HCLD(ABB), Erica J. Behnke, Ph.D., HCLD (ABB)  
Laboratory Director, Kettering Reproductive Medicine, Kettering, OH and Regional  
Commissioner, Reproductive Laboratory Accreditation Program, College of American  
Pathologists, Chicago, Illinois.

**Maria Bertero**, M.D., HCLD (ABB), Laboratory Director, Fertility Institute, Brooklyn, NY.

**Eric Dorman**, President, Embryo Tech, Wilmington, MA

**Philip Campbell**, M.S., MT (ASCP), Associate Professor, Eastern Kentucky University,  
Richmond, KY

**Thomas Curry**, Ph.D., Professor and , Department of Obstetrics and Gynecology, College  
Medicine, University of Kentucky.

**Nanette Elster**, J.D., M.P.H., Vice-President, Spence & Elster, P.C., Lincolnshire, IL; Adjunct  
Faculty, School for New Learning and College of Law; Adjunct Faculty, University of Illinois at  
Chicago School of Public Health

**Melanie Freeman**, Ph.D., CLDir (NCA), Director, Embryology Laboratory, Nashville Fertility  
Center, Nashville, TN

**Deborah French**, BHS, PA-C, MT (ASCP), Andrology Supervisor, Kentucky Fertility and  
Gynecology, Lexington, KY

**Dayong Gao**, Ph.D., Professoof Mechanical Engineering/Biomedical Engineering, University of  
Washington, Seattle, WA.

**Robert Homm**, M.D., FACOG, Fertility & Endocrine Associates, Louisville, KY

**Lothar Jennes**, Ph.D., Professor, Department of Anatomy & Neurology, University of Kentucky

**Karen McDowell**, Ph.D., Associate Professor, Department Of Veterinary Medicine, University  
of Kentucky

**Sue Overman**, M.S., MT (ASCP), Supervisor, Clinical Microbiology, University of Kentucky  
Medical Center

**Ok-Kyong Park-Sarge**, Associate Professor, Department of Physiology, College of Medicine,  
University of Kentucky

**Patricia Payne, Ph.D., MT (ASCP), CLS (NCA),** Research Participation Program, Training & Curriculum Services Division, Office of Workforce and Career Development, Centers for Disease Control and Prevention (CDC)

**Douglas Powers, Ph.D., HCLD(ABB),** Scientific Director, Boston IVF, Brookline, MA, Professor, Department of Biology, Boston College, Chestnut Hill, MA & Adjunct faculty, Harvard Medical School.

**George Veloudis, D.O.,** Reproductive Endocrinologist; Kentucky Fertility and Gynecology, Paris & Lexington, KY; Voluntary faculty for Physician Assistant Program, University of Kentucky

## **Clinical Faculty**

**Marlane Angle, Ph.D., HCLD (ABB),** Obstetrics and Gynecology  
University of Arkansas for Medical Sciences, Little Rock, AR Assistant Professor & Director, Arkansas Reproductive Technology Laboratory Department of Ob-Gyn, University of Arkansas for Medical Studies, Little Rock, Arkansas

**Bill Baird, Ph.D., HCLD(ABB),** Reproductive Diagnostics, Inc. & Cryobiology, Inc., Columbus, OH; In Vitro Fertilization Lab, Akron, OH, Pittsburgh Cryobank of Reproductive Diagnostics, Pittsburgh, PA and In Vitro Fertilization Lab, Kettering, OH

**Pedro Beauchamp, M.D.,** Medical Director, Pedro Beauchamp Reproductive Endocrinology & Infertility, Puerto Rico

**Erica Behnke, Ph.D., HCLD(ABB), Erica J. Behnke, Ph.D., HCLD (ABB)**  
Laboratory Director, Kettering Reproductive Medicine, Kettering, OH and Regional Commissioner, Reproductive Laboratory Accreditation Program, College of American Pathologists, Chicago, Illinois.

**Barry Behr, Ph.D., HCLD(ABB),** Associate Director, Reproductive Endocrinology & Infertility, Stanford University Medical Center, Stanford, CA

**Maria Bertero, M.D., HCLD (ABB),** Director, Fertility Institute, Brooklyn, NY

**Catherine Cowart, M.D.,** Director, Reproductive Endocrinology and Infertility, Clearwater, FL

**Nina Desai, Ph.D., HCLD (ABB),** Laboratory Director, Cleveland Clinic Fertility Center, Beachwood, OH

**Barbara Estes, B.S., MT(ASCP), CLS(NCA),** Supervisor, In Vitro Fertilization/Andrology Laboratory, Miami Valley Hospital, Dayton, Ohio

**Deborah French, BHS, PA-C, MT (ASCP),** Kentucky Fertility and Gynecology, Paris & Lexington, KY;

**Marina Gavakharia, M.D., Ph.D., HCLD(ABB),** Laboratory Director, Fertility Physicians of Northern California, San Jose, CA

**Dolores Lamb**, Ph.D., HCLD (ABB), Associate Professor of Urology & Cell Biology and Director, Laboratory for Male Research & Testing, Baylor College of Medicine, Houston, TX  
Department of Ob-Gyn, University of Arkansas for Medical Studies, Little Rock, Arkansas

**Karen McDowell**, Ph.D., Associate Professor, Department of Veterinary Medicine, University of Kentucky

**Terry Olar**, Ph.D., HCLD (ABB), Director, Center for Reproductive Studies, Christ Hospital, Cincinnati, OH

**Margaret Papadakis**, Ph.D., HCLD (ABB), Director, Reproductive Biology Laboratories, Department of Ob-Gyn, Carolina Medical Center, Charlotte NC

**Charles Sims**, M.D., Medical Director, Fertility Center of California, Los Angeles, CA

**Timothy Smith**, Ph.D., HCLD (ABB), Laboratory Director, North Hudson IVF, Englewood Cliffs, NJ

**Samer Soubra**, B.S., CLS, Embryologist & Laboratory Supervisor, Reproductive Partners Medical Group, Inc. Long Beach, CA

**Andras Szell**, Ph.D., HCLD (ABB), Laboratory Director, Alta Bates, IVF, Berkeley, CA

**Carolyn Walters**, ARNP, Advance Practice Nurse Practitioner, (Ob-Gyn), Utica Park Clinic, Tulsa, OK

**Jeannine Witmyer**, Ph.D., HCLD(ABB), Adjunct Faculty, Reproductive Laboratory Sciences Graduate Programs, University of Kentucky; Supervisor of Andrology and Cryobiology, Boston IVF, Waltham, MA.

# Department of Clinical Sciences

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## Clinical & Reproductive Sciences

### - Graduate Study - Graduate Certificate in Reproductive Laboratory Science

[Description](#)  
Reproductive Laboratory Science Courses  
Apply to the Program!

#### Description:

The Graduate Certificate in Reproductive Laboratory Science (RLS) prepares graduates for entry level technologist positions in assisted reproductive technology (ART) laboratories and related fields in research, industry and marketing. The curriculum consists of 12-14 hours in RLS courses, including two credit hours of clinical practicum in clinical andrology and embryology laboratories. The Graduate Certificate may be completed in approximately seven months of study. In addition to the six RLS core faculty, lecturers throughout the United States contribute to the curriculum, instructing in their area of expertise. These professionals are ART and clinical laboratorians, laboratory managers, researchers, ethicists, attorneys and policy analysts. Directors and supervisors in andrology laboratories and ART laboratories, appointed as clinical faculty by the University of Kentucky, supervise RLS students in the clinical practica.

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#### Reproductive Laboratory Science Courses:

Descriptions for these courses, and others, may be found in the University of Kentucky Bulletin.

#### Reproductive Laboratory Science Courses

Course (semester hour credit)	Delivery Method *
CSC 615 Reproductive Laboratory Science (1)	DL
CSC 616 Andrology (1)	DL
CSC 617 Reproductive Microbiology & Immunology (1)	DL

University of Kentucky Clinical  
Laboratory Sciences Program  
College of Health Sciences

Lexington, KY 40536-0200

CSC 528 Laboratory Techniques (2) M, 1 week of 8 wk  
*Students not having an acceptable laboratory Summer Session*  
*background will also be required to complete*  
 CSC 528

**NOTICE:** Some Web sites to which these materials provide links for the convenience of users are not managed by the University of Kentucky. The University does not review, control, or take responsibility for the contents of those sites.

CSC 618 Labs in Andrology, Reproductive Microbiology & Immunology (1) M, 1 week of Fall Semester

CSC 621 Embryology & ART (3) Fall Semester

CSC 624 Gamete & Embryo Cryopreservation (1) Fall Semester

CSC 625 Mgt, Policy, Ethical & Legal Issues in ART (2) Fall Semester

CSC 626 Andrology Clinical Practicum (1) 1 weeks TBD

CSC 627 ART Clinical Practicum (1) 1 weeks TBD

\* DL = Distributive learning. DL courses include web-based instruction and testing, and self-paced, interactive CDs. DL courses are offered during the spring semesters to both Lexington campus students and distance learners.

\* M = Modular. Modular courses are taught at the UK campus. Classes meet for approximately 8 hours/day.

\* TBD = To Be Determined

**NOTE** = All Clinical practica will take place in Assisted reproduction laboratories in the U.S. under the supervision of Directors appointed as clinical faculty by the University of Kentucky.

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Comments to Oliver R Oakley [oroakl1@uky.edu](mailto:oroakl1@uky.edu), Last Modified: March 12, 2007  
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**INSTRUCTIONS for ART/EMBRYOLOGY checklist:**

- The checklist is comprehensive (e.g. including hormone evaluations)
- Respond only to applicable sections
- Place tally mark for each experience or assay so a total can be compiled later
- Please complete the comments section
- A general summary may included in the Comments Section on the last page
- Supervisors sign the checklist

ALL comments and suggestions are appreciated.

Doris J. Baker, Ph.D., HCLD(AAB), MT(ASCP)

dbake0@uky.edu

Telephone: 859-323-1100 ext. 80854

FAX: 859-323-8957

**ART/EMBRYOLOGY CHECKLIST**

	Policy, Rules, Procedures Explained by Instructor	Methodology	Observed by Student	Performed under Supervision	Performed Independently	Comments
<b>Media Preparation</b>						
a. Oocyte Collection Media medium						
b. Culture medium						
c. Sperm capacitation/prep medium						
d. Oil						
e. Transfer medium						
f. OTHER						
<b>IVF</b>						
<b>Patient identification</b>						
a. Releases						
b. Site specific paperwork (including <i>Chain of Custody</i> )						
<b>Oocyte retrieval (patient or donor)</b>						
a. Identification						
b. Assessment						

	Policy, Rules, Procedures Explained by Instructor	Methodology	Observed by Student	Performed under Supervision	Performed Independently	Comments
c. Site specific paperwork						
<b>Semen Preparation</b>						
a. Concentration/motility						
b. Recovery of motile fraction						
c. Calculations						
<b>Insemination (partner or donor)</b>						
a. Calculations						
b. Insemination						
c. Site specific paperwork						
<b>ICSI</b>						
ICSI (practice with non-fert oocytes)						
<b>Fertilization</b>						
a. Documentation of fertilization						
b. Recheck						
c. Reinsemination (if applicable)						

	Policy, Rules, Procedures Explained by Instructor	Methodology	Observed by Student	Performed under Supervision	Performed Independently	Comments
d. Site-specific paperwork						
<b>Embryo culture</b>						
a. Scoring						
b. Preimplantation Genetic Diagnosis						
c. Site specific paperwork						
<b>Embryo Transfer</b>						
a. Scoring						
b. Sorting for transfer vs cryo						
c. Assisted hatching						
d. Patient identification verification						
e. Loading catheter						
f. Post-transfer catheter check						
g. Site-specific paperwork						
<b>GIFT/ZIFT</b>						
a. Patient identification						
b. Site specific paperwork						

	Policy, Rules, Procedures Explained by Instructor	Methodology	Observed by Student	Performed under Supervision	Performed Independently	Comments
including <i>Chain of Custody</i>						
c. Semen preparation (GIFT only)						
d. Oocyte/embryo assessment & sorting						
e. Tubal transfer						
<b>Cryopreservation of embryos/oocytes (patient or donor)</b>						
a. Informed consent						
b. Specimen identification						
c. Assessment of quality						
d. Specimen freezing						
e. Site specific logging/documentation (including <i>Chain of Custody</i> )						
<b>Thawing embryos/oocytes (patient or donor)</b>						
a. Informed consent						
b. Specimen identification						

	Policy, Rules, Procedures Explained by Instructor	Methodology	Observed by Student	Performed under Supervision	Performed Independently	Comments
c. Thawing						
d. Post-thaw quality assessment						
e. Site specific logging/documentation (including <i>Chain of Custody</i> )						
<b>PRACTICE/Mouse Model</b>						
a. Embryo thaw						
b. Culture						
c. Scoring for development to blastocyst						
d. Calculate percent survival						
<b>PRACTICE/Non-fertilized oocytes</b>						
a. Handling						
1. Transfer between dishes						
2. Other						
<b>Instrumentation</b>						
a. Calibration						
b. Preventative maintenance						

	Policy, Rules, Procedures Explained by Instructor	Methodology	Observed by Student	Performed under Supervision	Performed Independently	Comments
<b>Perform Quality Control</b>						
a. Daily						
b. Weekly						
c. Periodic						
<b>Participate in Proficiency Testing (if applicable)</b>						
<b>Participate in Site-specific Quality Assurance program when applicable: List examples</b>						
Please list any additional procedures/experiences						

Student \_\_\_\_\_

Comments:

Signature(s) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_







# ANDROLOGY CLINICAL PRACTICUM

**STUDENT** \_\_\_\_\_

**CLINICAL SITE** \_\_\_\_\_

**CLINICAL PRACTICA DATES** \_\_\_\_\_

**PRIMARY SUPERVISOR** \_\_\_\_\_

**INSTRUCTIONS for ANDROLOGY checklists:**

- The checklist is comprehensive (e.g. including hormone evaluations)
- Respond only to applicable sections
- Place tally mark for each experience or assay so a total can be compiled later
- Please complete the comments section
- A general summary may included in the Comments Section on the last page
- Supervisors sign the checklist

ALL comments and suggestions are appreciated.

Doris J. Baker, Ph.D., HCLD(AAB), MT(ASCP)

dbake0@uky.edu

Telephone: 859-323-1100 ext. 80854

FAX: 859-323-8957

**ANDROLOGY CHECKLIST**

	Policy, Rules, Procedures Explained by Instructor	Methodology (e.g. Makler vs. CASA)	Observed by Student	Performed under Supervision	Performed Independently	Comments
<b>Patient Instruction for Semen Analysis</b>						
a. Collection						
b. Transport						
<b>Specimen Processing</b>						
a. Patient information data						
b. Specimen handling and logging						
<b>Perform Semen Analysis</b>						
a. Macroscopic Assessment						
1. Coagulum/liquefaction						

	Policy, Rules, Procedures Explained by Instructor	Methodology (e.g. Makler vs. CASA)	Observed by Student	Performed under Supervision	Performed Independently	Comments
2. Volume						
3. Viscosity						
4. Appearance						
5. pH						
b. Microscopic Assessment						
1. Initial Assessment of Quality (e.g. debris, clumping, epithelial, rbc's other)						
2. Quantitative Motility						
3. Agglutination % (if indicated on initial assessment)						
4. Vitality (if indicated on motility)						

	Policy, Rules, Procedures Explained by Instructor	Methodology (e.g. Makler vs. CASA)	Observed by Student	Performed under Supervision	Performed Independently	Comments
5. Concentration						
6. Total sperm count						
7. Make and stain morphology slides						
8. Read morphology						
9. Round cell assessment						
10. OTHER						
<b>Leukocyte Detection</b>						
a. Staining (Peroxidase); Leukostain						
b. Immunocytochemistry						

	Policy, Rules, Procedures Explained by Instructor	Methodology (e.g. Makler vs. CASA)	Observed by Student	Performed under Supervision	Performed Independently	Comments
c. OTHER						
<b>Semen Microbiology</b>						
a. Gram stain						
b. Aerobic cultures						
c. Anaerobic cultures						
d. <i>Mycoplasma/Ureaplasma</i>						
e. OTHER (e.g. <i>Chlamydia</i> )						
<b>Semen Biochemistry</b>						
a. Acid phosphatase						



	Policy, Rules, Procedures Explained by Instructor	Methodology (e.g. Makler vs. CASA)	Observed by Student	Performed under Supervision	Performed Independently	Comments
b . Alpha-glucosidase						
c. Citric acid						
d. Fructose						
e. Zinc						
f. OTHER						
<b>Sperm Function</b>						
a. Acrosin						
b. Hypo-osmotic swelling test						
c. Mannose binding assay						

	Policy, Rules, Procedures Explained by Instructor	Methodology (e.g. Makler vs. CASA)	Observed by Student	Performed under Supervision	Performed Independently	Comments
d. Hemi-zona test						
e. Sperm capacitation test						
f. Zona-free hamster penetration assay						
g. OTHER						
<b>Anti-Sperm Antibodies</b>						
a. Immunobead test						
b. Mixed antiglobulin test						
c. OTHER						
<b>Sperm-Cervical Mucus Testing</b>						

	Policy, Rules, Procedures Explained by Instructor	Methodology (e.g. Makler vs. CASA)	Observed by Student	Performed under Supervision	Performed Independently	Comments
a. Sperm-Cervical Mucus Interaction Test						
b. Sperm-Cervical Mucus Cross Test						
c. OTHER						
<b>Hormone Evaluations</b>						
a. Estradiol						
b. FSH						
c. LH						
d. Progesterone						
e. Prolactin						

	Policy, Rules, Procedures Explained by Instructor	Methodology (e.g. Makler vs. CASA)	Observed by Student	Performed under Supervision	Performed Independently	Comments
f. Testosterone						
g. OTHER						
<b>Semen Cryopreservation</b> (patient or donor)						
a. Informed consent						
b. Specimen identification						
c. Specimen freezing						
d. Site-specific logging/documentation						
<b>Thawing Cryopreserved Semen</b> (patient or donor)						
a. Informed consent						

	Policy, Rules, Procedures Explained by Instructor	Methodology (e.g. Makler vs. CASA)	Observed by Student	Performed under Supervision	Performed Independently	Comments
b. Specimen identification						
c. Thawing						
d. Sperm survival rate documentation						
e. Site-specific logging/documentation including <i>Chain of Custody</i>						
<b>Semen Preparation for Insemination</b>						
a. Specimen identification						
b. Specimen preparation (wash or concentration)						
c. Site-specific logging/documentation including <i>Chain of Custody</i>						
<b>Andrology Instrumentation</b>						

	Policy, Rules, Procedures Explained by Instructor	Methodology (e.g. Makler vs. C.A.S.A)	Observed by Student	Performed under Supervision	Performed Independently	Comments
a. Calibration						
b. Preventative maintenance						
<b>Perform Quality Control</b>						
a. Daily						
b. Weekly						
c. Periodic						
<b>Participate in Proficiency Testing (if applicable)</b>						

Student \_\_\_\_\_

Comments:

Signature(s) \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

# ART/EMBRYOLOGY CLINICAL PRACTICUM

**STUDENT** \_\_\_\_\_

**CLINICAL SITE** \_\_\_\_\_

**CLINICAL PRACTICA DATES** \_\_\_\_\_

**PRIMARY SUPERVISOR** \_\_\_\_\_





**University of Kentucky**  
**College of Health Sciences**

This certificate warrants that

**STUDENT NAME**

Is awarded the Graduate Certificate in  
*Reproductive Laboratory Science*

Presented on \_\_\_\_\_, 2007

\_\_\_\_\_  
Lori S. Gonzalez, Ph.D.  
Dean, College of Health Sciences

\_\_\_\_\_  
Doris J. Baker, Ph.D.  
Director, Reproductive Laboratory Sciences  
Graduate Program

\_\_\_\_\_  
Kim Campbell, M.S.  
Education Coordinator, Reproductive Laboratory  
Sciences Graduate Program

# University of Kentucky College of Health Sciences

This certificate warrants that

**Karen McDowell**

Is awarded the Graduate Certificate in  
*Reproductive Laboratory Science*

Presented on May 7, 2006

*Lori S. Gonzalez*  
Lori S. Gonzalez, Ph.D.  
Dean, College of Health Sciences

*Doris J. Baker*  
Doris J. Baker, Ph.D.  
Director, Reproductive Laboratory Sciences  
Graduate Program

*Kim Campbell*  
Kim Campbell, M.S.  
Education Coordinator, Reproductive Laboratory  
Sciences Graduate Program

Trans Number	Date Received	Date Assigned	Date to Council	Sub Comm	College
0607-P015	03/05/07	03/05/07		HUM/Jensen	Music
0607-P016	3/23	3/23		Environment	SYS
0607-P017	3/23	3/23		Developmental	
0607-P018	3/23			College Training	
0607-P019	3/23			Middleschool	Reading
0607-P020	3/23			Social Theory	
0607-P021	3/23			MUSIC Theory	
0607-P022	3/23			Reproductive	
0607-P023					
0607-P024					
0607-P025					
0607-P026					
0607-P027					
0607-P028					
0607-P029					
0607-P030					

Environment SYS  
 Developmental  
 College Training  
 Middleschool Reading  
 Social Theory  
 MUSIC Theory  
 Reproductive