

DIRECTORY OF FELLOWSHIP PROGRAMS
IN
REPRODUCTIVE ENDOCRINOLOGY AND
INFERTILITY

AVAILABLE IN 2017



AMERICAN SOCIETY FOR
REPRODUCTIVE MEDICINE
AND
THE SOCIETY FOR REPRODUCTIVE
ENDOCRINOLOGY AND INFERTILITY

THE SOCIETY FOR REPRODUCTIVE ENDOCRINOLOGY AND INFERTILITY

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This directory is distributed by the The Society for Reproductive Endocrinology and Infertility (SREI). It contains basic facts about Fellowship Programs in the subspeciality of Reproductive Endocrinology and Infertility that are approved by the American Board of Obstetrics and Gynecology. Complete details and information may be obtained by directly contacting each program.

The SREI also offers a common application online to aid fellowship candidates who wish to apply to more than one fellowship program. Please go to the SREI Web Site at <http://www.socrei.org> to find out more about this service.

All Fellowship candidates must contact the National Resident Matching Program, 2450 N Street NW, Washington, DC 20037-1127 or call (202) 828-0566 or visit the NRMP web site at <http://www.nrmp.org/> to participate in the matching process.

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Bruce R. Carr, M.D.

UNIVERSITY OF UTAH MEDICAL CENTER
Erica Johnstone, M.D.

UNIVERSITY OF VERMONT COLLEGE OF MEDICINE
Elizabeth McGee, M.D.

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE
Emily Jungheim, M.D.

WAYNE STATE UNIVERSITY
Elizabeth Puscheck, M.D.

YALE UNIVERSITY SCHOOL OF MEDICINE
Lubna Pal, M.D.

Albert Einstein College of Medicine

Interim Program Director: Erkan Buyuk, MD Mailing Address: Albert Einstein College of Medicine 1300 Morris Park Avenue, Block Building Room 621 Bronx, NY 10461 Telephone: (718) 430-3152 FAX: (718) 430-8586 Email: erbuyuk@yahoo.com Website:	2012 1st yr positions 2 Most recent year of 2014 Program Certification (Recertification)
	FACULTY APPOINTMENT 1st year: Instructor 2nd year: Instructor 3rd year: Instructor

Program Length: 3 years 3 yr conversion start date: 1998 Prerequisites: ABOG approved OB/GYN residency Salary 1st Year: \$66,900	Fellowship Application Deadline: 10-Jun-16 Number of fellows trained within the past 5 years 10 How many of them are currently in academic positions? 5
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PROGRAM DESCRIPTION	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
<u>Research Time</u>			
Total Research time	10%	80%	70%
Clinical	100%	Depends upon	Depends upon
Laboratory	0	project	project
<u>Direct Patient Care</u>			
Total Clinical Time	90%	20%	30%
Endocrine	40%	10%	35%
Infertility	55%	70%	60%
Obstetrics/Gynecology	5%	20%	5%
<u>Surgical Procedures</u>			
Diagnostic/Operative			
Laparoscopies	19	2	22
Hysteroscopies	86	2	42
Assisted Reproduction	122	13	41
Laparotomies	10	0.5	6

GRADUATE LEVEL COURSES			
Mandatory (M), Recommended (R), Offered (O)	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
Statistics/Epidemiology	M		
Research Methodology			
Genetics/Molecular Biology	M		
Other Basic Science (Statistics computer lab)	O	O	O
Other Clinical Course			

Albert Einstein College of Medicine

1=Full Time REI Faculty	2=Part time REI Faculty	3=Other Reproductive Scientist
¹ Erkan Buyuk, MD		Fertility Preservation, Ovarian Aging, Third Party Reproduction, Obesity and Reproduction, ART
² Judi Chervenak, MD		Perimenopause, Menopause, Alternative Medicine, HRT, Bone Density
³ Maureen Charron, PhD		Glucose Transporters and Implantation, Ovarian Physiology on
³ Streamson Chua, MD PhD		Obesity, Leptin, Melanocortin, Reproduction
¹ Brian Cohen, MD		Menopause and Reproductive Endocrinology
³ Kelvin Davies, PhD		Male Infertility, Sperm Motility
¹ Ruth Freeman, MD		Menopause, Bone Density, Medical Endocrinology
¹ Edward Illions, MD		Reproductive Surgery, Fertility Preservation, ART
² Satu Kuokkanen, MD PhD		Implantation, MicroRNAs and Endometrial Physiology
¹ Bo Yu, MD		Infertility, Diminished Ovarian Reserve, Oncofertility and Epigenomics
Harry Lieman, MD		ART, PCOS, Ethics, Religion and Reproduction
³ Florence L. Marlow		Oocyte Development and Polarity
³ Tom Meier, PhD		Implantation, Nucleolar Channel System and Endometrial Physiology
¹ Staci Pollack, MD		Pediatric/Adolescent Gynecology, Ovarian Failure, PCOS, ART
² Christina Veit, MD		Clinical REI
¹ Zev Williams, MD PhD		Recurrent Pregnancy Loss, Immunology of Pregnancy
¹ Bo Yu		Infertility, Diminished Ovarian Reserve, Oncofertility and Epigenomics

Baylor College of Medicine

Program Director: William E. Gibbons, MD Associate Director: Cecilia Valdes, MD Mailing Address: Baylor College of Medicine 6651 Main Street, 10th Floor Houston, TX 77030 Telephone: 832-826-7371 FAX: 832-825-9352 Email: obgyneducation@bcm.edu Website: http://www.bcm.edu/obgyn/ Program Length: 3 years 3 yr conversion start date: Prerequisites: Graduate of an accredited Ob/Gyn residency Salary 1st Year: \$60,195 Number of fellows trained within the past 5 years 5 How many of them are currently in academic positions? N/A	2015 1st yr positions 2 Most recent year of Program Certification (Recertification) 2014 2017 FACULTY APPOINTMENT 1st year: 2nd year: 3rd year: Fellowship Application Deadline: 1-Jun-15 Current Fellows 4
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PROGRAM DESCRIPTION

	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
<u>Research Time</u>			
Total Research time	5%	90%	75%
Clinical	2.5%	determined by thesis	det.by thesis
Laboratory	2.5%	determined by thesis	det.by thesis
<u>Direct Patient Care</u>			
Total Clinical Time	95%	10%	25%
Endocrine	20%	0%	0%
Infertility	70%	5%	20%
Obstetrics/Gynecology	5%	5%	5%
<u>Surgical Procedures</u>			
<u>Diagnostic/Operative</u>			
Laparoscopies	5/70	2/10	2/10
Hysteroscopies	24/42	5/10	5/10
Assisted Reproduction	200	30	100
Laparotomies	15	0	5

GRADUATE LEVEL COURSES

	<u>1st Year</u>	<u>2nd Year</u>	<u>* 3rd Year</u>
Mandatory (M), Recommended (R), Offered (O)			
Statistics/Epidemiology			
Research Methodology			
Genetics/Molecular Biology			
Other Basic Science (Statistics computer lab)			
Other Clinical Course Fundamentals of Clinical Investigation (M)			

* 3 hour elective offered only for fellows following Master's Degree plan for thesis or for thesis work

FACULTY

* = Full Time

** = Other

Reproductive Endocrinology/Infertility

*William Gibbons, MD
*Cecilia Valdes, MD
*Paul Zarutski, MD
*Ertug Kovanci, MD
*Terri Woodard, MD
Randall Dunn, MD
Subodhsingh Chauhan, MD
**Kjersti Aagaard, MD, PhD
**Matthew Anderson, MD, PhD
**Francesco DeMayo, PhD
**Jennifer Dietrich, MD, MSc
**Shannon Hawkins, MD, PhD
**Katherine Hwu, MD
**Mason Israel, PhD
**Dorie Lamb, PhD
**Larry Lipshultz, MD
**Haleh Sangi-Haghpeykar, PhD
**JoAnne Richards, PhD
**Reid Sutton, PhD
**Olga Watkins, PhD
**Alfred Wun, PhD
**Chandra Yallampalli, DVM, PhD

Areas of Special Interest

ART
PCOS
Surgery, Robotics, POF
IVF
Fertility Preservation
Clinical REI
Clinical REI
Research
Research
Cell Biology
Adolescent/Gyn
Research
Ped Endo
IVF
Research
Urology
Epidemiology
Cell Biology
Genetics
CSTP
IVF/Andrology
Research

BRIEF DESCRIPTION OF PROGRAM WITH TEACHING ACTIVITIES DISCUSSED

The Baylor fellowship program is an integral part of the REI division in the Department of Obstetrics and Gynecology (Ob/Gyn). Our three-year program focuses primarily on clinical activities for one year and research for the subsequent two years. Our goal is to train REI clinicians with an emphasis on expertise in scientific investigation leading to an academic career. Whether graduates of our program ultimately pursue an academic or clinical practice path, the educational objectives are for fellows to achieve the ability to practice REI competently and to function as an independent investigator capable of conducting, evaluating, and applying results of relevant scientific research and literature. We train fellows to become subspecialists and consultants by teaching the appropriate application of currently available diagnostic and therapeutic modalities in clinical REI. Particular strengths of our program include cellular and molecular biology, genetics, pediatric and adolescent endocrinology, hands on training in IVF, and minimally invasive surgical training including robotic surgery. Fellows are trained as researchers through two significant resources: the Baylor Clinical Scientist Training Program (CSTP) and the extensive, well funded research opportunities with clinical and basic scientists in Ob/Gyn and other departments, particularly Cell and Molecular Biology and Genetics. The CSTP, a multidisciplinary, didactic program provides new investigators the knowledge and skills necessary to become competent clinical researchers. This structured program, in combination with the availability of research mentors who have a proven record of collaboration with clinicians at Baylor, allows fellows to eventually become physician scientists.

Clinical Training: We expect our fellows to apply the experience gained throughout year one and progressively play a larger role in the management of patients and in the performance of surgical and laboratory procedures. Particularly on REI rotations at the end of the first and third year the fellow's experience is expanded while on clinical REI rotations in such settings as the office practice, IVF lab, and operating room. In addition, we expect our fellows to be able to function independently by the end of year three. During the entire three years of training, fellows participate in weekly REI division didactic sessions and monthly REI call (ultrasounds, ovulation induction, intrauterine inseminations, egg retrieval, and transfers) to continue their education and

experience in clinical REI. The didactic sessions are designed to supplement the clinical experience of fellows through lectures, case presentations and discussions led by Baylor faculty as well as visiting speakers from other departments and institutions.

Research Training: REI fellows are required to participate in the Baylor CSTP during the course of their three years of training. The Baylor CSTP is now under the auspices of the Institute for Clinical and Translational Research, a Baylor program committed to educating and training highly-motivated individuals to become successful, independent clinical investigators and future leaders in academic medicine and biomedical research. To date, 14 PhD and 38 MS degrees have been awarded to clinicians through this program. Seventy-Nine clinicians have received the Certificate of Added Qualification in Clinical Investigation (CAQ). Collaborating with the CSTP, fellows are encouraged to obtain a Masters of Clinical Science or a Masters in Public Health. Courses for these degrees are generally completed through The University of Texas School of Public Health, the Graduate School of Biomedical Sciences at Baylor, the University of Houston, and Rice University (Attachment V. B.1. Monthly Block Diagram).

Our fellows are required, at a minimum, to complete the CAQ. To attain CAQ certification, the fellow completes and passes a total of four graded, graduate-level courses listed at Baylor Graduate School and include:

- ❖ #1 - Fundamentals of Clinical Investigation (3 credit hours, July, Mon-Thurs 5:30 to 7:30 p.m.) during year one of the fellowship, a clinical year.
- ❖ #2 - Clinical Investigation for the Career Scientist and Research Seminar (5 credit hours, Aug-May, Mon, Wed 4-6 p.m.) during year two of the fellowship, a research year.
- ❖ #3- Cell Biology Reproductive Physiology (3 credit hours, Oct-Dec, 4 hours/week) during year two of the fellowship, a research year.
- ❖ #4 - Translational Biostatistics (3 credit hours, 3 hours/week, Aug-May) during year two of the fellowship, a research year.

The CSTP course, "Clinical Investigation for the Career Scientist and Research Seminar", requires and assists fellows in development of a research thesis, selection of an appropriate research/career mentor, and selection of a thesis review committee. The seminar course culminates in writing and submitting of a K23 grant, which is a mentored career development award outlining the research project. Scholars in the program are required to take elective courses that have been proposed by the scholar and his or her mentor and approved by the REI Program Director. Concurrent with the course work during the second research year, fellows select and begin work with their research mentors to acquire skills relevant to the planned project, whether through laboratory procedures or classroom courses. The third year of the fellowship is dedicated to completion of the fellows' research projects and relevant elective course work, particularly if a fellow has chosen the option of attaining a Masters degree. As part of the CSTP, all fellows formally present and defend their theses before their committees and the REI division by April of the third year

Beth Israel Deaconess Medical Center

Program Director: Alan S. Penzias, MD Mailing Address: 330 Brookline Ave, 330 Brookline Av Boston, MA 02215 Telephone: 617-667-2966	2002 1st yr positions 1 Most recent year of Program Certification 2009 (Recertification)
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FAX: 617-667-0842 Email: sherlihy@bidmc.harvard.edu (medical education manager) Website: http://www.bidmc.org/Centers-and-Departments/Departments/Obstetrics-and-Gynecology.asp	FACULTY APPOINTMENT 1st year: Clinical Fellow 2nd year: Clinical Fellow 3rd year: Clinical Fellow
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Program Length: 3 yr conversion start date: N/A Prerequisites: ACGME Approved Resident Salary 1st Year: \$68,844.35	Fellowship Application Deadline: 6/23/2014 Interview Dates: 9/8 & 9/12
Number of fellows trained within the past 5 years: 5 How many of them are currently in academic positions': 3	

PROGRAM DESCRIPTION			
	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
<u>Research Time</u>			
Total Research time	<u>90</u>	<u>50</u>	<u>25</u>
Clinical	<u>10</u>	<u>50%</u>	<u>75%</u>
Laboratory	<u>90</u>	<u>50%</u>	<u>25%</u>
<u>Direct Patient Care</u>			
Total Clinical Time	<u>10</u>	<u>50</u>	<u>75%</u>
Endocrine	<u>30%</u>	<u>40%</u>	<u>30%</u>
Infertility	<u>70%</u>	<u>60%</u>	<u>70%</u>
Obstetrics/Gynecology	<u>0</u>	<u>0</u>	<u>0</u>
<u>Surgical Procedures</u>			
Diagnostic/Operative			
Laparoscopies	<u>5</u>	<u>25</u>	<u>40</u>
Hysteroscopies	<u>5</u>	<u>30</u>	<u>60</u>
Assisted Reproduction	<u>100</u>	<u>200</u>	<u>300</u>
Laparotomies	<u>5</u>	<u>10</u>	<u>15</u>

GRADUATE LEVEL COURSES			
	Mandatory (M)	Recommended (R)	Offered (O)
	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
Statistics/Epidemiology	O	M	
Research Methodology		O	O
Genetics/Molecular Biology		R	
Other Basic Science		O	O
Other Clinical Course		O	O

FACULTY

* = Full Time

** = Other

Reproductive Endocrinology/Infertility

Areas of Special Interest

Michael Alper, MD	*	Infertility; Quality Assessment/Improvement in ART
Brent Barrett, PhD	*	Embryology, Gametogenesis
Steven Bayer, MD	*	Infertility, ART, Risk Management
Brian Berger, MD	*	Ovum Donation, Gestational Carrier IVF
Kevin Egan, PhD	**	Stem Cell Research, Cellular Reprogramming
Michele Hacker, ScD, MSPH	*	Reproductive Epidemiology
Rebecca Holmes, PhD	*	Embryology, Epigenetics
Hye-Chun Hur, MD	*	Advanced Minimally Invasive Gynecologic Surgery
Keith Isaacson, MD	**	Advanced Minimally Invasive Gynecologic Surgery
Louise King, MD, JD	*	Advanced Minimally Invasive Gynecologic Surgery; Ethics
Benjamin Lannon, MD	*	ART; Surgical Infertility Treatment
Stephanie Morris, MD	**	Advanced Minimally Invasive Gynecologic Surgery
Catherine Nowak, MD	**	Genetic Counseling; Medical Genetics
Robert Oates, MD	**	Surgical and Medical Management of Male Factor Infertility
Selwyn Oskowitz, MD	*	Infertility Treatment of the Older patient and poor responder
Johanna Pallotta, MD	**	Medical Endocrinology, Thyroid Disease
Alan Penzias, MD	*	ART, PCOS, Ovarian Physiology, Outcomes Oriented Research
Harold Rosen, MD	**	Metabolic Bone Disease
David Ryley, MD	*	Fertility Preservation in Cancer Patients
Denny Sakkas, PhD	*	Translational Research; Embryology; Vitrification
Sheila Shivers	*	Ultrasonography
Rita Sneeringer, MD	*	ART, Reproductive Surgery
Diane Stafford, MD	**	Pediatric and Adolescent Endocrinology
Kim Thornton, MD	*	Surgical Infertility Treatment; Preimplantation Genetic Diagnosis
Alison Zimon, MD	*	Clinical Fertility; PCOS

BRIEF DESCRIPTION OF PROGRAM WITH TEACHING ACTIVITIES DISCUSSED

The fellowship in Reproductive Endocrinology and Infertility is a three-year program that provides the fellow a protected basic research experience and a well rounded clinical experience with exposure to all aspects of reproductive endocrinology and infertility. The first 18 months are devoted primarily to basic science research in the molecular aspects of reproduction, with a focus on stem cell biology. Numerous opportunities exist within Harvard University for this basic research. During the protected research time, one session a week is spent in a well-rounded RE clinical setting in a very high volume ART program. The last 18 months are devoted primarily to the clinical experience with additional research time allotted. All aspects of reproductive endocrinology are represented, including pediatric & adolescent endocrinology, medical endocrinology, bone metabolism, male & female infertility and Minimally Invasive Surgery. During the last 6 months, 30% of the time is available for outcomes oriented research or to return to the basic laboratory. The fellow spends one weekend monthly performing ART procedures in all three years. Conferences include: Weekly case conference, Directors rounds and Lab meetings. Monthly lab research conference; IVF lecture series (extramural and intramural speakers), IVF QA Rounds, grand rounds, and journal club. The Beth Israel Deaconess Medical Center is a major teaching hospital of Harvard Medical School.

BRIGHAM AND WOMEN'S HOSPITAL

Program Director:	Elizabeth Ginsburg, M.D.	2012 1st yr positions	1
Mailing Address:	Brigham and Women's Hospital Department of Ob/Gyn 75 Francis Street Boston, MA 02115	Most recent year of Program Certification	1995
Telephone:	(617) 732-4648	(Recertification)	2002, 2007
FAX:	(617) 566-7752	FACULTY APPOINTMENT	
Email:	eginsburg@partners.org	1st year:	Clinical Fellow
Website:		2nd year:	Clinical Fellow
		3rd year:	Clinical Fellow

Program Length:	3 years	Fellowship Application Deadline:	Jul-1
3 yr conversion start date:	7/1/1997		
Prerequisites:	Ob/Gyn Residency		
Salary 1st Year:	\$65,255.00		
Number of fellows trained within the past 5 years		8	
How many of them are currently in academic positions?		5 (plus 1 Military & 2 Group Practice)	

PROGRAM DESCRIPTION

	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
<u>Research Time</u>			
Total Research time	<u>25 %</u>	<u>50 %</u>	<u>75 %</u>
Clinical	<u>50 %</u>	<u>50 %</u>	<u>50 %</u>
Laboratory	<u>50 %</u>	<u>50 %</u>	<u>50 %</u>
<u>Direct Patient Care</u>			
Total Clinical Time	<u>75 %</u>	<u>50 %</u>	<u>25 %</u>
Endocrine	<u>25 %</u>	<u>25 %</u>	<u>25 %</u>
Infertility	<u>75 %</u>	<u>75 %</u>	<u>75 %</u>
Obstetrics/Gynecology	<u>0 %</u>	<u>0 %</u>	<u>0 %</u>
<u>Surgical Procedures</u>			
Diagnostic/Operative			
Laparoscopies	<u>120</u>	<u>30</u>	<u>20</u>
Hysteroscopies	<u>60</u>	<u>20</u>	<u>15</u>
Assisted Reproduction	<u>220</u>	<u>175</u>	<u>120</u>
Laparotomies	<u>40</u>	<u>3</u>	<u>10</u>

GRADUATE LEVEL COURSES

Mandatory (M), Recommended (R), Offered (O)

	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
Statistics/Epidemiology	M		
Research Methodology	O	R	R
Genetics/Molecular Biology	O	R	O
Other Basic Science	O	O	O
Other Clinical Course	O	O	R

BRIGHAM AND WOMEN'S HOSPITAL

FACULTY

* = Full Time

** = Other

Reproductive Endocrinology/Infertility

Areas of Special Interest

*Raymond M. Anchan, M.D., Ph.D.	Embryonic Stem Cells, Organ Regeneration, Diabetes/Insulin Resistance, Polycystic Ovaries
*Rachel K. Ashby, M.D.	ART, Infertility
*Robert L. Barbieri, M.D.	Endometriosis, Hyperandrogenism, Endocrinology
*Janis H. Fox, M.D.	Ovum Donation, ART, Infertility, Pelviscopy
*Antonio R. Gargiulo, M.D.	ART, Infertility
*Elizabeth S. Ginsburg, M.D.	ART, Infertility
*Mark D. Hornstein, M.D.	Endometriosis, ART, Infertility, Pelviscopy
*Marc R. Laufer, M.D.	Pediatric & Adolescent Gynecology, Endocrinology, Pelviscopy
*Serene S. Srouji, M.D.	Infertility, PCOS. Pelviscopy, Fibroids
*Brian W. Walsh, M.D.	Pelviscopy, Operative Hysteroscopy, ART, Infertility
*Elena H. Yanushpolsky, M.D.	ART, Infertility
**Carol B. Benson, M.D.	Reproductive Ultrasound
**Daniel W. Cramer, Sc.D., M.D.	Epidemiology
**Manqi Deng, Ph.D.	Oocyte Physiology
**Robert G. Dluhy, M.D.	Medical Endocrine
**Janet E. Hall, M.D.	Medical and Reproductive Endocrine
**Ursula B. Kaiser, M.D.	Disorders of Pituitary Function, Neuroendocrinology, Hypogonadotropic, Hypogonadism
**Richard L. Maas, M.D., Ph.D.	Genetics, Stem Cells
**Stacey A. Missmer, Sc.D.	Reproductive Epidemiology
**Cynthia C. Morton, Ph.D.	Cyto-and Molecular Genetics
**George L. Mutter, M.D.	Andrology
**Michael P. O'Leary, M.D., MPH	Male Infertility, Impotence
**Catherine Racowsky, Ph.D.	Embryology
**Rosemary E. Reiss, M.D.	Medical Genetics
**Joseph I. Wolfsdorf, M.B., B.Ch.	Pediatric Endocrine

BRIEF DESCRIPTION OF PROGRAM WITH TEACHING ACTIVITIES DISCUSSED

The Reproductive Endocrinology Fellowship is a three-year program integrating clinical, laboratory, and research experiences. It is designed for individuals interested in pursuing academic careers. The fellowship is a large, diverse, and balanced program with 11 clinical (M.D.) faculty and 14 research faculty (Ph.D. or M.D.) actively involved in clinical, epidemiology and basic laboratory projects. Fellows rotate through "specialty" clinics, including medical endocrinology, pediatric gynecology, and pediatric endocrinology. Fellows participate actively in all assisted reproductive technology procedures and reproductive surgeries. Brigham and Women's Hospital is a major teaching hospital of Harvard Medical School.

CLEVELAND CLINIC

Program Director:	Jeffrey M. Goldberg, M.D.	2013 1st yr positions	1
Mailing Address:	Department of Ob/Gyn - A81 Cleveland Clinic 9500 Euclid Avenue Cleveland, Ohio 44195	Most recent year of Program Certification (Recertification)	2009
Telephone:	216-444-2240	FACULTY APPOINTMENT 1st year: Limited clinical practitioner 2nd year: Limited clinical practitioner 3rd year: Limited clinical practitioner	
FAX:	216-445-5526		
Email:	goldbej@ccf.org		
Website:			

Program Length: 3 years
3 yr conversion start date: 7/1/2009
Prerequisites: ABOG approved OB/GYN residency
Salary 1st Year: \$51,067
Fellowship Application Deadline: 6/1/2012

Number of fellows trained within the past 5 years 6
How many of them are currently in academic positions? 3

PROGRAM DESCRIPTION

	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
<u>Research Time</u>			
Total Research time	100%	50%	10%
Clinical	20%	20%	50%
Laboratory	80%	80%	50%
<u>Direct Patient Care</u>			
Total Clinical Time	0%	50%	90%
Endocrine	0%	25%	25%
Infertility	0%	75%	75%
Obstetrics/Gynecology	0%	0%	0%
<u>Surgical Procedures</u>			
Diagnostic/Operative			
Laparoscopies	0	90	170
Hysteroscopies	0	75	135
Assisted Reproduction	0	120	230
Laparotomies	0	25	45

GRADUATE LEVEL COURSES

Mandatory (M), Recommended (R), Offered (O)

	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
Statistics/Epidemiology	M	O	O
Research Methodology	R	O	O
Genetics/Molecular Biology	O	O	O
Other Basic Science	R	O	O

CLEVELAND CLINIC

FACULTY

* = Full Time

** = Other

Reproductive Endocrinology/Infertility

Areas of Special Interest

*Jeffrey M. Goldberg, M.D.

reproductive surgery, reproductive endocrinology, IVF

*Ashok Agarwal, Ph.D.

sperm function testing, oxidative stress in reproduction

*Cynthia Austin, M.D.

reproductive endocrinology, IVF

*Marjan Attaran, M.D.

pediatric/adolescent gyn, reproductive endocrinology

*Nina Desai, Ph.D.

oocyte cryopreservation, embryo co-culture

*Tommaso Falcone, M.D.

reproductive surgery, fertility preservation

*Rakesh Sharma, Ph.D.

endometriosis, oxidative stress in reproduction

*Julierut Tantibhedhyangkul, M.D.
Rebecca Flyckt, M.D.

reproductive endocrinology, IVF
Reproductive Endocrinology and Infertility, In Vitro Fertilization, Reproductive Surgery, Fibroids, Endometriosis, Polycystic Ovarian Syndrome, Minimally Invasive Surgery

The Cleveland Clinic was ranked 4th in the nation in the 2010 US News & World Report and the department of OB/GYN ranked 4th. The Lerner Research Institute is the fifth largest research institute in the country. The goal of the fellowship program is not just to prepare the fellows to meet the requirements for ABOG certification in reproductive endocrinology and infertility, but to become outstanding academic reproductive endocrinologists using all of the resources available at the Cleveland Clinic. The fellows may perform their research in the Reproductive Research Center and the IVF research laboratory. They will also have full access to the facilities and personnel in the Lerner Research Institute. We will provide the fellows with large and varied clinical and surgical volumes. We perform the complete spectrum of reproductive surgery using the most minimally invasive approach in addition to over 500 fresh IVF cycles annually.

COLUMBIA UNIVERISTY

Program Director: Rogerio A. Lobo, M.D.
Mailing Address: Columbia University Medical Center
 Department of Ob/Gyn, PH1665W
 622 West 168 Street
 New York, NY 10032
Telephone: (212) 305-6337
FAX: (212) 305-4326
Email: m2116@columbia.edu
Website: <http://www.columbiaob/gyn.org>

2013 1st yr positions 1
Most recent year of Program Certification (Recertification) 2007

FACULTY APPOINTMENT
1st year: PostDoc Clinical Fellow
2nd year: PostDoc Clinical Fellow
3rd year: PostDoc Clinical Fellow

Program Length: 3 years
3 yr conversion start date: 7/1/1997
Prerequisites: US Ob/Gyn Residency/NY License
Salary 1st Year: \$64,721
Fellowship Application Deadline: 7/1/2013

Number of fellows trained within the past 5 years 5
How many of them are currently in academic positions? 4

PROGRAM DESCRIPTION

	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
<u>Research Time</u>			
Total Research time			
Clinical	<u>90%</u>	<u>50%</u>	<u>20%</u>
Laboratory	<u>10%</u>	<u>50%</u>	<u>80%</u>
<u>Direct Patient Care</u>			
Total Clinical Time			
Endocrine	<u>40%</u>	<u>10%</u>	<u>10%</u>
Infertility	<u>55%</u>	<u>85%</u>	<u>90%</u>
Obstetrics/Gynecology	<u>5%</u>	<u>5%</u>	<u>0%</u>
<u>Surgical Procedures</u>			
Diagnostic/Operative			
Laparoscopies	<u>70</u>	<u>68</u>	<u>80</u>
Hysteroscopies	<u>130</u>	<u>80</u>	<u>30</u>
Assisted Reproduction	<u>260</u>	<u>410</u>	<u>62</u>
Laparotomies	<u>40</u>	<u>30</u>	<u>40</u>

GRADUATE LEVEL COURSES

Mandatory (M), Recommended (R), Offered (O)	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
Statistics/Epidemiology		M	
Research Methodology			
Genetics/Molecular Biology		O	O
Other Basic Science		O	O
Other Clinical Course		O	O

COLUMBIA UNIVERSITY

Faculty

*= Full Time

**= Other

*Janet Choi, M.D.....	Assisted Reproduction, Celiac/disease, Oncofertility
* Cary Dicken, M.D.	Assisted Reproduction
* Nataki Douglas, M.D., Ph.D.....	Genetic correlates of reproductive function
*Michel Ferin, M.D.....	Primate Neuroendocrinology, Assay lab
*Michael Guarnaccia, M.D.....	Assisted reproduction, PGD
*Jan Kitajewski, Ph.D.....	Wnt Gene expression, Angiogenesis
*Rogerio A. Lobo, M.D.....	Reproductive Endocrinology, Infertility, Oncofertility, Hyperandrogenism, PCOS, Menopause, Cardiovascular Risk Factors
*Rachel Miles, M.D.....	Egg Donation
*Sharon Oberfield, M.D.	Pediatric Endocrinology
* Beth Oberfield, M.D.	Pediatric Gynecology/ Assisted Reproduction
* Briana Rudick, M.D.	Egg Donation
*Mark V. Sauer, M.D. Embryo	Assisted Reproduction, Oocyte and Donation, HIV and Reproduction, Oncofertility, Stem Cells
*Sharon Wardlaw, M.D.	Medical endocrinology, CRH, and Endogenous Opioids and the Reproductive system
**Michelle P. Warren, M.D.	Menopause, Eating Disorders
*Ralf C. Zimmermann, M.D.	Psychoneuroendocrinology, Ovarian Pathophysiology, Wnt Gene Expression OHSS, Angiogenesis
*Melvin Thornton, M.D.	Egg donation, Dhesion prevention
*Kibong Ohm, Ph.D.	Andrology, Embryology

BRIEF DESCRIPTION OF PROGRAM WITH TEACHING ACTIVITIES DISCUSSED

This is a three-year Fellowship program designed to train individuals in academic reproductive endocrinology. The first year is assigned to the Clinical Service where he/she receives an extensive, supervised experience in the full range of clinical problems in reproductive endocrinology and infertility. The fellow derives much of his/her clinical experience in our clinics of Reproductive Endocrinology and Infertility, Medical Endocrinology and Pediatric Endocrinology. There is an active surgical service with a full range of procedures, including microsurgery and advanced endoscopy. The fellows actively participate in our IVF program both in the first and second year of the program. The entire second half of the second year and the third year is devoted to laboratory and/or clinical research. This time is protected from clinical responsibilities. There exists an extensive network of experienced researchers in Reproductive Medicine at Columbia University, both at the Ph.D. and M.D. level. Under the direction of these laboratory researchers, the fellow will complete his/her research thesis. A structured review of the core curriculum and a wide range of lectures and seminars in topics of reproductive medicine pertinent to our field are available throughout all three years. For further information on this Program, please go to the Columbia University website, Dept. of OB/GYN, Infertility Division.

NOTE: Columbia University does not accept H1-B visas

CORNELL UNIVERSITY- WEILL CORNELL MEDICAL CENTER

Program Director: Zev Rosenwaks, M.D. Mailing Address: Ronald O. Perelman and Claudia Cohen Center for Reproductive Medicine 1305 York Avenue New York, NY 10021 Telephone: (646) 962-3745 FAX: (646) 962-0392 Email: zrosenw@med.cornell.edu hchicket@med.cornell.edu Website: http://www.ivf.org	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">2016 1st yr positions</td> <td style="text-align: right;">2</td> </tr> <tr> <td>Most recent year of Program Certification (Recertification)</td> <td style="text-align: right;">2012</td> </tr> </table> <hr/> FACULTY APPOINTMENT 1st year: Fellow in OB/GYN 2nd year: Fellow in OB/GYN 3rd year: Fellow in OB/GYN	2016 1st yr positions	2	Most recent year of Program Certification (Recertification)	2012
2016 1st yr positions	2				
Most recent year of Program Certification (Recertification)	2012				

Program Length:	3 years	
3 yr conversion start date:	7/1/1999	Fellowship Application Deadline: 7/1/2015
Prerequisites:	ABOG approved Residency in OB/GYN	
Salary 1st Year:	\$72,137.00	
Number of fellows trained within the past 5 years	10	
How many of them are currently in academic positions?	8	

PROGRAM DESCRIPTION	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
<u>Research Time</u>			
Total Research time			
Clinical	<u>10%</u>	<u>30%</u>	<u>45%</u>
Laboratory	<u>0%</u>	<u>30%</u>	<u>45%</u>
<u>Direct Patient Care</u>			
Total Clinical Time			
Endocrine	<u>20%</u>	<u>20%</u>	<u>5%</u>
Infertility	<u>70%</u>	<u>20%</u>	<u>5%</u>
Obstetrics/Gynecology	<u>0%</u>	<u>0%</u>	<u>0%</u>
<u>Surgical Procedures</u>			
Diagnostic/Operative			
Laparoscopies	<u>175</u>	<u>130</u>	<u>10</u>
Hysteroscopies	<u>200</u>	<u>150</u>	<u>10</u>
Assisted Reproduction	<u>300</u>	<u>150</u>	<u>20</u>
Laparotomies	<u>10</u>	<u>10</u>	<u>2</u>

GRADUATE LEVEL COURSES			
Mandatory (M), Recommended (R), Offered (O)			
	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
Statistics/Epidemiology/Research Methodology		M	
Research Methodology			
Genetics/Molecular Biology		M	
Other Basic Science			
Other Clinical Course			

CORNELL UNIVERSITY- WEILL CORNELL MEDICAL CENTER

FACULTY

* = Full Time

** = Other

Reproductive Endocrinology/Infertility ^{needs updating}

Areas of Special Interest

*Ina Cholst, M.D.
*Pak Chung, M.D.
*Owen Davis, M.D.
*Rony Elias, M.D.
*Dan Goldschlag, M.D.
*Hey-Joo Kang, M.D.
*Isaac Kligman, M.D.
*Samantha M. Pfeifer, M.D.
*David Reichman, M.D.
*Zev Rosenwaks, M.D.
*Glenn Schattman, M.D.
*Steven Spandorfer, M.D.

Embryology, preimplantation genetic diagnosis, molecular genetics, in vitro fertilization, adrenal hyperplasia, disorders of sexual development, laparoscopic and laser surgery, embryo implantation and infertility, reproductive biology, contraception, fertilization, semen physiology, micromanipulation, reproductive endocrinology, uterine physiology, reproductive immunology, pediatric endocrinology, medical endocrinology, reproductive urology, ovarian cryopreservation, human embryonic stem cell derivation, and fertility preservation

**J. Michael Bedford, Ph.D., D.V.M.
**Marc Goldstein, M.D.
**Julianne Imperato-McGinley, M.D.
**Daylon James, Ph.D.
**Hung-Ching Liu, Ph.D.
**Shahin Rafii, M.D., Ph.D.
**Peter Schlegel, M.D.
**Steven Witkin, Ph.D.
**Kangpu Xu, Ph.D., D.V.M.
**Maria G. Vogiatzi, M.D.
** Nikica Zaninovic, Ph.D.

BRIEF DESCRIPTION OF PROGRAM WITH TEACHING ACTIVITIES DISCUSSED

The Division of Reproductive Endocrinology and Infertility in the Department of Obstetrics and Gynecology, designated as the Ronald O. Perelman and Claudia Cohen Center for Reproductive Medicine at the New York Presbyterian Hospital-Weill Cornell Medical Center, is geared to provide post-graduate training in clinical and laboratory aspects of Reproductive Endocrinology and Infertility.

Training in reproductive disorders and tubal reconstruction, as well as correction of congenital anomalies of the reproductive tract, is complemented by a comprehensive program of basic and clinical research. The program includes a broad experience in the newest reproductive techniques, embryology and molecular genetics. An interdisciplinary faculty provides a rich scientific and clinical environment with a wide variety of special interests including, but not limited to, preimplantation genetic diagnosis, genetic analysis of spermatozoa and immature spermatids, studies on mechanisms of fertilization and early embryonic development, investigation of various disease, human embryonic stem cell derivation and fertility preservation.

The following narrative outlines the three-year course of intensive instruction in Reproductive Endocrinology and Infertility. Year 1 consists primarily of clinical exposure (90%) with 10% effort devoted to laboratory and clinical investigation. Year 2 is devoted to basic laboratory and clinical investigation (40%) with 60% effort in clinical reproductive endocrinology. Year 3 consists of 90% basic and clinical investigation and 10% clinical reproductive endocrinology.

Duke University

Program Director: Thomas M. Price, MD Mailing Address: 5704 Fayetteville Road Durham, NC 27713 Telephone: 919-572-4669 FAX: 919-484-0461 Email: price067@mc.duke.edu Website: http://fertility.mc.duke.edu/	2012 1st yr positions 1 Most recent year of Program Certification (Recertification) 2009		
FACULTY APPOINTMENT			
1st year: Associate 2nd year: Associate 3rd year: Associate			
Program Length: 3 years. 3 yr conversion start date: NA Prerequisites: approved Ob/Gyn residency Salary 1st Year: \$56,880 (2011-12)			
Number of fellows trained within the past 5 years 5 How many of them are currently in academic positions? 2			
PROGRAM DESCRIPTION			
	18 months clinical	18 months laboratory	
<u>Research Time</u>			
Total Research time	<u>10%</u>	<u>98%</u>	
Clinical	<u>60%</u>	<u>10%</u>	
Laboratory	<u>40%</u>	<u>90%</u>	
<u>Direct Patient Care</u>			
Total Clinical Time	<u>90%</u>	<u>2%</u>	
Endocrine	<u>15%</u>	<u>1%</u>	
Infertility	<u>80%</u>	<u>1%</u>	
Obstetrics/Gynecology	<u>5%</u>	<u>0%</u>	
<u>Surgical Procedures</u>			
Diagnostic/Operative	-		
Laparoscopies	<u>80</u>	<u>0</u>	
Hysteroscopies	<u>100</u>	<u>0</u>	
Assisted Reproduction	<u>150</u>	<u>0</u>	
Laparotomies	<u>40</u>	<u>0</u>	
GRADUATE LEVEL COURSES			
	Mandatory (M)	Recommended (R)	Offered (O)
	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
Statistics/Epidemiology		M	
Research Methodology	Courses are taken during the		O
Genetics/Molecular Biolog	18 months of protected		M
Other Basic Science	research time		O
Other Clinical Course		O	

needs updating

Duke University

FACULTY

* = Full Time

** = Other

Reproductive Endocrinology/Infertility

*Susannah D. Copland, MD

* Thomas M. Price, MD

* David K. Walmer, MD, PhD

Areas of Special Interest

Ovarian preservation

Mechanism of action of progesterone

Ovulation induction, Oocyte donation,
Reproduction & the environment

Research Faculty

* David Katz, PhD

Cervical mucous and vaginal gels

* Phyllis Leppert, MD

Pathophysiology of leiomyomas

* Thomas M. Price, MD

Non-genomic progesterone receptors

* Douglas Raburn, PhD

IVF & andrology

* David M. Schomberg, PhD

Mechanisms of Gonadotropin Action
Folliculogenesis

Other Clinical Faculty

* Ann Brown, MD

Medical Endocrinology

* Michael Freemark, MD, PhD

Pediatric Endocrinology

* Nancy Friedman, MD

Pediatric Endocrinology

* Thomas Weber, MD

Medical Endocrinology, Andrology

* Craig Donatucci, MD

Urology

BRIEF DESCRIPTION OF PROGRAM WITH TEACHING ACTIVITIES DISCUSSED

This fellowship is designed to provide the clinical and investigative skills to pursue an academic career in reproductive endocrinology and infertility. This includes reproductive surgery, endoscopic reconstructive surgery, assisted reproductive technology (~260 IVF cycles/year), andrology, pediatric endocrinology and medical endocrinology. The fellowship is divided into 18 months of clinical experience and 18 months in the laboratory, which includes some combination of research and IVF laboratory experience. A diversity of endocrine and infertility patients are seen. Two graduate level courses are taken during the 18 months of protected laboratory time, a course in biostatistics and one in molecular biology.

Fellows participate in joint conferences with the divisions of Pediatric and Medical Endocrinology. A wide variety of investigative projects are ongoing with fellows at Duke in areas of estrogen and progesterone action, reproductive immunology, gamete biology, gonadotropin signaling, etc. Further information is available upon request. We currently plan to maintain a complement of 3 fellows and will be interviewing to accept our next fellow to start July 1, 2011.

EMORY UNIVERSITY

Program Director: Jessica Spencer, MD, MSc Mailing Address: Emory University Dept. of OB/GYN 1639 Pierce Dr., Room 4217 Atlanta, GA 30322 Telephone: (404) 727-9109 FAX: (404) 727-8609 Assistant Email: tloucks@emory.edu Website: http://www.gynob.emory.edu	2016 1st yr positions 1 Most recent year of Program Certification (Recertification) 2014
FACULTY APPOINTMENT	
1st year: None 2nd year: None 3rd year: None	

Program Length: 3 years 3 yr conversion start date: N/A Prerequisites: Ob/Gyn Residency Salary 1st Year: \$61,412.00	Fellowship Application Deadline: Jun-17 Number of fellows trained within the past 5 years 5 How many of them are currently in academic positions? 1
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PROGRAM DESCRIPTION	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
<u>Research Time</u>			
Total Research time	<u>10%</u>	<u>90%</u>	<u>50%</u>
Clinical	Will vary with research interest and objectives of individual fellows		
Laboratory	<u>Lab Rotation Required</u>		
<u>Direct Patient Care</u>			
Total Clinical Time	<u>90%</u>	<u>10%</u>	<u>50%</u>
Endocrine	<u>20%</u>	<u>50%</u>	<u>60%</u>
Infertility	<u>80%</u>	<u>50%</u>	<u>40%</u>
Obstetrics/Gynecology	<u>0%</u>	<u>0%</u>	<u>0%</u>
<u>Surgical Procedures</u> Average over last 3 years			
Diagnostic/Operative			
Laparoscopies	29	3	3
Hysteroscopies	40	5	4
Assisted Reproduction	127	164	118
Laparotomies	<u>6</u>	<u>1</u>	<u>1</u>

GRADUATE LEVEL COURSES			
Mandatory (M), Recommended (R), Offered (O)			
	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
Statistics/Epidemiology		M	
Research Methodology		O	
Genetics/Molecular Biology		M	
Molecular Endocrinology			
Other Clinical Course	Ped/Med Endo. Genetics, Urology		M

EMORY UNIVERSITY

FACULTY

* = Full Time

** = Other

needs updating

Reproductive Endocrinology/Infertility

Areas of Special Interest

*Donna Session, M.D.

Infertility, Inaging, Cyclins and Gynecologic Cancers

**Carla Roberts, M.D., Ph.D.

Endometriosis, Pelvic Pain, Adolescent Gynecology, Ovarian Cryopreservation

*Donna Session, M.D.

Infertility, Imaging, Cyclins and Gynecologic Cancers

*Neil Sidell, Ph.D.

Developmental Biology, Retinoids, Endometriosis, Immunology

*Weirong Shang, PhD

Gamete and Embryo Biology

*Jessica Spencer, MD, MSc

Galactosemia, Array CGH

* Meaghan Bowling, M.D.

Infertility, Miscarriage, Premature Ovarian Failure Syndrome, Endometriosis

* Jennifer Kawwass, M.D.

Infertility, Fertility Preservation, Amenorrhea, Donor Egg IVF

BRIEF DESCRIPTION OF PROGRAM WITH TEACHING ACTIVITIES DISCUSSED

The Emory REI fellowship program is designed for physicians with a strong commitment to a career in academic reproductive endocrinology and infertility. This program is structured to provide sufficient clinical and research experience to fulfill five major objectives: 1) a focused research experience leading to publishable reports and providing the foundation for further independent investigation; 2) clinical experience in reproductive endocrinology and infertility, general adult endocrinology, pediatric endocrinology, and andrology; 3) broad surgical experience in infertility, assisted reproduction, and developmental reproductive anomalies; 4) knowledge of clinical and research laboratory techniques used in reproductive endocrinology and infertility; and 5) a firm grounding in the principles and concepts underlying molecular endocrinology and reproductive physiology.

The program Faculty in this are committed to the training of individuals who, in addition to providing skilled subspecialty patient care, will remain active and productive as physician-scientists and educators. Funding support from outside the practice plan eliminates clinical coverage responsibilities outside of REI and provides greater opportunity for focused research, mentorship, and formal course work during the fellowship training program. The experience will provide a firm scientific foundation for the conceptual development and implementation of research studies, thus enhancing the fellow's ability to obtain research funding and make important contributions relevant to the academic domains of reproductive endocrinology and infertility.

JEFFERSON-RMA NEW JERSEY REI FELLOWSHIP

Program Director: Richard T. Scott, Jr., M.D. Mailing Address: Jefferson-RMA of NJ REI Fellowship 140 Allen Road Basking Ridge, New Jersey 07920 Telephone: (973) 656-2831 FAX: (973) 871-1226 Email: nniemaseck@rmanj.com Website: www.rmanj.com	2016 1st yr positions 1 Most recent year of Program Certification (Recertification) 2016 <hr/> FACULTY APPOINTMENT 1st year: Instructor 2nd year: Instructor 3rd year: Instructor
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Program Length: 3 years 3 yr conversion start date: N/A Prerequisites: ABOG approved residency Salary 1st Year: \$68,462	Fellowship Application Deadline: Jun-15 Number of fellows trained within the past 5 years 4 How many of them are currently in academic positions? 4
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PROGRAM DESCRIPTION

	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
<u>Research Time</u>			
Total Research time	10%	67%	85%
Clinical	<u>100%</u>	<u>25%</u>	<u>10%</u>
Laboratory	<u>0%</u>	<u>75%</u>	<u>90%</u>
<u>Direct Patient Care</u>			
Total Clinical Time	90%	33%	15%
Endocrine	<u>25%</u>	<u>20%</u>	10%
Infertility	<u>75%</u>	<u>80%</u>	90%
Obstetrics/Gynecology	<u>0%</u>	<u>0%</u>	0%
<u>Surgical Procedures</u>			
Diagnostic/Operative			
Laparoscopies	<u>100</u>	<u>10</u>	25
Hysteroscopies	<u>75</u>	<u>10</u>	25
Assisted Reproduction	400	0	100
Laparotomies	<u>30</u>	<u>5</u>	10

GRADUATE LEVEL COURSES

Mandatory (M), Recommended (R), Offered (O)

	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
Statistics/Epidemiology	M	O	O
Research Methodology	O	O	O
Genetics/Molecular Biology	M	O	O
Other Basic Science	O	O	O
Other Clinical Course	O	O	O

JEFFERSON-RMA NEW JERSEY REI FELLOWSHIP

* = Full Time FACULTY ** = Other

Reproductive Endocrinology/Infertility

Areas of Special Interest

* Paul A. Bergh, MD	IVF, gestational carrier, oocyte donation, pharmacodynamics of gonadotropin stimulation, ovarian responsiveness, paradigms of quality assurance and outcomes, third party reproduction
* Michael K. Bohrer, MD	Endometriosis, mullerian anomalies, pelviscopy, IVF
* Micheline C. Chu, MD	PCOS, recurrent pregnancy loss, non traditional family building
** Maria F. Costantini- Ferrando, MD, PhD	ART, pelviscopy, complex ovulation induction
* Leo F. Doherty, MD	ART, PCOS, recurrent Pregnancy loss, Uterine fibroids, endometrial receptivity, fertility preservation
* Michael R. Drews, MD	ART, oocyte donation, preimplantation genetic diagnosis
* Jason M. Franasiak, MD	Clinical embryology and andrology, embryo and endometrial synchrony, enhancing ART outcomes through personalized medicine, pre-implantation genetic screening , vitamin D metabolism, reproductive tract microbiome
* Eric J. Forman, MD, HCLD/ALD (ABB)	Embryonic reproductive competence, vitrification, endometrial receptivity
* Linnea R. Goodman, MD	Reproductive surgery including microsurgical tubal reanastomosis, proximal and distal tubal disease, endometriosis, fibroids and robotic surgery. Research interests include surgical outcomes, cost-effective medicine, ovarian reserve, and emerging technology.
** Rita Gulati, MD	PCOS, IVF, pelviscopy
** Doreen L. Hock, MD	PCOS, adolescent gynecology, ovarian reserve, ovulation induction
* Kathleen H. Hong, MD, TS(ABB)	Clinical embryology, single embryo transfer, ART outcomes, preimplantation general diagnosis, medical education
** Chaim Jalas	Genetics consultant
* Marcus W. Jurema, MD	ART, fertility preservation, in vitro maturation, third party reproduction, recurrent pregnancy loss/implantation failure, ovarian reserve issues, reproductive surgery
* Caleb B. Kallen MD, PhD	Adipocytokines, obesity, mRNA-binding proteins, atherosclerosis, diabetes, inflammatory bowel disease, infertility, endometriosis
* Daniel J. Kaser, MD	Fertility preservation, 3rd party reproduction, LGBT family-building, clinical embryology, preimplantation genetic screening, obstetric, neonatal and placental outcomes following ART, minimally invasive surgery
* Thomas J. Kim, MD	ART, PCOS, fertility preservation: oocyte cryopreservation, pelviscopy, alternative
* Jessica Landis, PhD	Bioinformatics, biomarker discovery, single cell transcriptomics
* Marcy F. Maguire, MD	Leptin, obesity, reproduction
* Thomas A. Molinaro, MD, MSCE	ART, pelviscopy, complex ovulation induction
** Jamie L. Morris, MD	Third party reproduction, ovarian reserve, ART
** Eden R. Rauch, MD	Fertility preservation, polycystic ovarian syndrome, ovarian reserve screening and the treatment of diminished ovarian reserve in young poor responders.
* Andrew Ruiz, MS, TS(ABB)	Male factor infertility, andrology, laboratory quality assurance and quality control, endocrine assays
* William D. Schlaff, MD	Education, patient safety
* Richard T. Scott Jr., MD, HCLD/ALD (ABB)	Ovarian reserve, evaluation of embryonic reproductive competence via genomics, transcriptomics, and proteomics, whole genome associations studies of the infertile population, disorders of meiosis and early mitotic divisions, preimplantation genetic diagnosis, GnRH analogues, gonadotropin biology, implantation disorders, ethics of reproductive medicine
* Shefali M. Shasti, MD	ART, pelviscopy, complex ovulation induction

* Nathan Treff, PhD	Single cell aneuploidy screening, single cell transcriptomics, proteomics of early embryonic development
* Ely A. Ryabk, MD, MPH	Preimplantation genetics, endometrial receptivity
** Susan Treiser MD,Phd	Third party reproduction,diminished ovarian reserve, egg freezing
* Kathleen Upham	ART laboratory, vitrification, embryo biopsy techniques, culture system development; preimplantation genetic diagnosis
* Marie D. Werner, MD, TS(ABB)	Clinical embryology, optimizing ART stimulation protocols, enhancing ART outcomes through personalized medicine, pre-implantation genetic screening , investigating non-invasive tools to enhance selection of embryos for transfer
** Melissa C. Yih, MD	Optimizing pregnancy success in the poor responder or patient with diminished ovarian reserve, improving outcomes for patients with recurrent pregnancy loss, gestational carriers, and adolescent GYN
* Yiping Zhan, PhD	Statistical genetics, bioinformatics, and algorithm development for biological data analysis
* Rebekah S. Zimmerman, PhD, FACMG	Single gene disorder PGD, reproductive and prenatal genetics, clinical test development and validation

BRIEF DESCRIPTION OF PROGRAM WITH TEACHING ACTIVITIES DISCUSSED

The fellowship training program provides comprehensive training in the clinical practice of Reproductive Endocrinology, laboratory training in all aspects of the IVF laboratory including micromanipulation and embryo biopsy, and extensive clinical and basic science laboratory experience. The fellowship is heavily focused on academic growth and minimizes any service commitment. The fellows do not take obstetrical or any other type of in house call.

The fellows will participate in two weekly conferences. The first is for the entire Reproductive Endocrine Division and consists of weekly conferences that systematically review all the ABOG learning objectives. The second is a weekly meeting between the fellows and the program director. Research within the program is focused on understanding reproductive competence of individuals and embryos. State-of-the-art genomic, transcriptomic, and proteomic laboratory facilities are available within the division including a large microarray facility.

First Year: The first year is focused principally on clinical care. Fellows will spend 9 months with the full spectrum of clinical activities including seeing patients, performing the full spectrum of surgeries, attending clinics in medical and pediatric endocrinology, and performing procedures related to ART. One month rotating through the andrology and endocrinology laboratories gaining experience with all aspects of laboratory core while learning how manage these laboratories and direct the appropriate regulatory and quality assurance paradigms. The final two months are spent in the embryology laboratory rotating through all the basic areas on gaining actual hands on experience in the human IVF system.

Second Year: The second year is focused on gaining the remainder of the fundamental skill sets in the IVF laboratory and then performing clinical and laboratory research. There is no routine clinical rotation during this year. The first four months will be spent in the embryology laboratory. Fellows will gain the mechanical skills involved in performing high quality human IVF including micromanipulation skills. They will also become proficient with how to trouble shoot problems in the laboratory and perform fundamental quality assurance. The fellows will split the remainder of the year between clinical and laboratory research. The fellows have access to extensive and clinical and laboratory research resources and are expected to complete and publish a minimum of one prospective clinical and laboratory research project.

Third Year: The final year of fellowship is focused on laboratory research for ten months. The strong clinical and embryology skills should allow the fellows to address relevant questions about all aspects of Reproductive Endocrinology including the reproductive competence of spermatozoa, oocytes, and embryos. This will include demonstrated skill sets with microarray technologies, qPCR, spectroscopy, ELISA's, etc. Although all the funding required to support the fellows research projects has already been secured, the fellows will be encouraged to seek independent grant support which will help establish their own academic careers. The final two months will be spent in the clinical rotation to allow the fellow to finalize their clinical and surgical training prior to graduation. All fellows should easily be able to complete and publish a thesis project prior to graduation. They will also be expected to present their work at a major national meeting during their second and third year.

JOHNS HOPKINS UNIVERSITY

Program Director: Howard A. Zacur, M.D., Ph.D. Mailing Address: Johns Hopkins University School of Medicine 10751 Falls Road, Suite 180 Lutherville, MD 21093 Telephone: (410) 583-2761 FAX: (410) 583-2767 Email: jvogan@jhmi.edu Website: http://womenshealth.jhmi.edu/rei	2012 1st yr positions 1 Most recent year of Program Certification (Recertification) 2005
FACULTY APPOINTMENT	
1st year: Postdoctoral Fellow 2nd year: Postdoctoral Fellow 3rd year: Postdoctoral Fellow	

Program Length: 3 years 3 yr conversion start date: 1997 Prerequisites: M.D. degree, (4 yr Residency) Salary 1st Year:	Deadline for Receiving Fellowship Applications:
Number of fellows trained within the past 5 years	5
How many of them are currently in academic positions?	2

PROGRAM DESCRIPTION	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
Research Time			
Total Research time	<u>10%</u>	<u>80%</u>	<u>90%</u>
Clinical	<u>80%</u>	<u>20%</u>	<u>20%</u>
Laboratory	<u>20%</u>	<u>80%</u>	<u>80%</u>
Direct Patient Care			
Total Clinical Time	<u>90%</u>	<u>20%</u>	<u>20%</u>
Endocrine	<u>30%</u>	<u>15%</u>	<u>15%</u>
Infertility	<u>60%</u>	<u>80%</u>	<u>80%</u>
Obstetrics/Gynecology	<u>10%</u>	<u>5%</u>	<u>5%</u>
Surgical Procedures			
Diagnostic/Operative			
Laparoscopies	<u>100</u>	<u>20</u>	<u>4</u>
Hysteroscopies	<u>50</u>	<u>25</u>	<u>3</u>
Assisted Reproduction	<u>120</u>	<u>100</u>	<u>20</u>
Laparotomies	<u>40</u>	<u>12</u>	<u>3</u>

GRADUATE LEVEL COURSES			
Mandatory (M), Recommended (R), Offered (O)			
	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
Statistics/Epidemiology		M	
Research Methodology		M	
Genetics/Molecular Biology			M
Other Basic Science		R	
Other Clinical Course			

JOHNS HOPKINS UNIVERSITY

FACULTY

* = Full Time

** = Other

Reproductive Endocrinology/Infertility

Areas of Special Interest

*Theodore A. Baramki, M.D.

Infertility, Menstrual Irregularities, Mullerian Anomalies, and Menopause
Male Infertility, Erectile Dysfunction & Ejaculatory Dysfunction

**Karen Boyle, M.D.

*Jairo Garcia, M.D.

*Lisa Kolp, M.D.

Infertility evaluation and reproductive surgery
Adolescent Gynecology, Cancer Survivors, and Cryopreservation

**Suheil Muasher, M.D.

Director, Muasher Center for Infertility, Assisted Reproductive Technologies

**Samuel Smith, M.D.

Chairman, Department of OB/GYN at Franklin Square Hospital

*Edward E. Wallach, M.D.

Ovulation Disorders and Physiology; Post menopausal care; Treatment of Uterine Leiomyomata
Assisted Reproductive Technology

*Melissa Yates, M.D.

Infertility, Fertility Preservation for Cancer Patients and Reproductive Surgery

*Howard A. Zacur, M.D., Ph.D.

Prolactin Disorders, Late Onset Adrenal Hyperplasia; BCP Pharmacokinetics, Menopause, and Hormone Replacement

*Yulian Zhao, M.D., Ph.D.

Director: ART Laboratories: Embryology, Andrology, and Ovarian Endocrinology

BRIEF DESCRIPTION OF PROGRAM WITH TEACHING ACTIVITIES DISCUSSED

A Reproductive Endocrinology Program has existed within the Department of Gynecology and Obstetrics of The Johns Hopkins University School of Medicine since 1939. There are currently seven full-time faculty in the Division consisting of Drs. Theodore Baramki, Jairo Garcia, Lisa Kolp, Edward Wallach, Melissa Yates, Howard Zacur, and Yulian Zhao. Dr. Karen Boyle is a member of Chesapeake Urology who diagnoses and treats male infertility and works with the Division faculty and fellows. In addition, two other part-time faculty members, Drs. Suheil Muasher and Samuel Smith provide lectures to fellows and residents and offer clinical research opportunities. Each full-time faculty member interacts closely with fellows during their three years of training. Clinical training in surgery and outpatient clinical diagnosis and treatment are the training goals of this program during the first year of fellowship and selectively during the second and third years. We also provide balanced training in assisted reproductive technologies, reproductive surgery, clinical reproductive endocrinology and basic research approaches in reproductive medicine.

During the second year, Division and Departmental faculty members work closely with fellows directing their basic research efforts. At this time, each fellow is required to take one graduate level course in statistics and one in either reproductive biology or molecular biology/genetics and spend one month rotating through medical endocrinology. An additional month is also required in pediatric endocrinology at The Johns Hopkins Hospital. The remainder of the fellow's time is devoted to research during the second year of training. The third year of fellowship training is devoted to research enables the fellow to complete his/her project begun during the first two years of training. The fellows are encouraged to explore the many basic science research opportunities available in multiple departments at the Johns Hopkins Hospital. An active basic research program exists within the Department of Gynecology and Obstetrics under the direction of Candace Kerr, M.S., Ph.D. who works in our Reproductive Biology Research Division. While working with staff in the Department's Research Division, fellows will be expected to achieve expertise in cell culture techniques, selected techniques in molecular biology, and radioimmunoassay. Fellows will also have the opportunity to work under the mentorship of faculty in the Division of Reproductive Biology in the Department of Biochemistry in The Johns Hopkins Bloomberg School of Public Health who are experts in male and female reproductive biology.

LAC+USC HEALTHCARE NETWORK

Program Director: Richard J. Paulson, M.D.
Mailing Address: LAC+USC Healthcare Network
 2020 Zonal Avenue, IRD, Room 534
 Los Angeles, CA 90033

Telephone: (323) 226-3026
FAX: (323) 226-2850
Email: rpaulson@usc.edu
Website: <http://www.uscfertility.org>

2013 1st yr positions 1
Most recent year of Program Certification (Recertification) 2010

FACULTY APPOINTMENT
1st year: Clinical Instructor/Fellow
2nd year: Clinical Instructor/Fellow
3rd year: Clinical Instructor/Fellow

Program Length: 3 years
3 yr conversion start date: 7/1/2000
Prerequisites: ABOG-approved residency
Salary 1st Year: \$61,443.48
Fellowship Application Deadline: Jul-01

Number of fellows trained within the past 5 years 6
How many of them are currently in academic positions? 1

PROGRAM DESCRIPTION

	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
<u>Research Time</u>			
Total Research time			
Clinical	<u>50%</u>	<u>50%</u>	<u>50%</u>
Laboratory	<u>50%</u>	<u>50%</u>	<u>50%</u>
<u>Direct Patient Care</u>			
Total Clinical Time			
Endocrine	<u>45%</u>	<u>45%</u>	<u>20%</u>
Infertility	<u>45%</u>	<u>45%</u>	<u>70%</u>
Obstetrics/Gynecology	<u>10%</u>	<u>10%</u>	<u>10%</u>
<u>Surgical Procedures</u>			
Diagnostic/Operative			
Laparoscopies	<u>30</u>	<u>30</u>	<u>10</u>
Hysteroscopies	<u>25</u>	<u>25</u>	<u>20</u>
Assisted Reproduction	<u>20</u>	<u>20</u>	<u>150</u>
Laparotomies	<u>25</u>	<u>25</u>	<u>10</u>

GRADUATE LEVEL COURSES

Mandatory (M), Recommended (R), Offered (O)

	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
Statistics/Epidemiology	M	O	O
Research Methodology	M	M	M
Genetics/Molecular Biology	O	M	O
Other Basic Science	O	O	O
Other Clinical Course	M	M	M

LAC+USC HEALTHCARE NETWORK

FACULTY

* = Full Time

** = Other

Reproductive Endocrinology/Infertility

*Kristin A. Bendikson, M.D.

*Karine Chung, M.D., M.S.C.E.

**Gere S. diZerega, M.D.

*Daniel R. Mishell, Jr., M.D.

*Richard J. Paulson, M.D.

**Patrick Quinn, Ph.D.

*Donna Shoupe, M.D., M.B.A.

**Rebecca Z. Sokol, M.D., M.P.H.

*Frank Z. Stanczyk, Ph.D.

**Bo Y. Suh, M.D.

*Claire L. Templeman, M.D.

**Sharon A. Winer, M.D., M.P.H.

Areas of Special Interest

ART, Infertility, Diminished Ovarian Reserve,
Asherman's Syndrome

ART, Infertility, Oocyte Cryopreservation,
Fertility Preservation in Patients with Cancer,
Epidemiology of Infertility

Adhesions, Wound Healing, Angiogenesis
Contraception, Menopause

ART, Infertility, Oocyte Cryopreservation, Embryo
Implantation, Study Design, Stem Cells

ART, Culture Media, Oocyte Cryopreservation
Menopause, Contraception, Infertility

Male Infertility, Sperm Physiology, Medical
Endocrinology

Steroid Biochemistry, Assay Methods,
Contraception, Menopause

Reproductive Endocrinology, Menopause

Endometriosis, Endoscopic Surgery,

Adolescent Gynecology

Reproductive Endocrinology, Infertility, Menopause

BRIEF DESCRIPTION OF PROGRAM WITH TEACHING ACTIVITIES DISCUSSED

The Fellowship in Reproductive Endocrinology and Infertility at the University of Southern California (USC) Keck School of Medicine comprises 36 consecutive months and is designed specifically to train and prepare graduates for an academic career. Each year is divided into 50% clinical time and 50% protected research time. Research is considered a primary objective and fellows are also expected to participate in clinical research while performing or supervising clinical duties. During the first two years of the fellowship, clinical experience is gained in the Reproductive Endocrinology and Infertility Clinic at the Los Angeles County+University of Southern California Medical Center. This subspecialty clinic in one of America's busiest county hospitals provides a large volume of clinical material with many unusual cases and presentations. The fellow is in charge of the clinic which sees patients 5 days per week and acts as the primary surgeon for all infertility cases which are performed in a dedicated O.R. 2 days per week. During this time, fellows are exposed to assisted reproductive techniques (ART), but the bulk of the ART experience takes place in the third year. During this final year of fellowship, fellows act as junior faculty and participate in all aspects of ART, including ultrasound, follicle aspirations and embryo transfers and have ample opportunity to learn the laboratory portion of ART. The remainder of the fellowship is devoted to research with the first year specifically assigned to laboratory bench research. The second and third years involve performing research in the Molecular Biology Laboratory, in the USC Stem Cell Institute and in the ART program. Two intramural courses in research methodology and basic reproductive endocrinology are supplemented with statistics and molecular biology courses offered by the USC Keck School of Medicine. There is a heavy emphasis on research and active contribution to the literature. Further information may be obtained by request.

MASSACHUSETTS GENERAL HOSPITAL

Program Director: Thomas L. Toth, M.D., Director Mailing Address: Vincent Reproductive Endocrinology & Infertility Fellowship Training Program 55 Fruit St., YAW 10-A Boston, MA 02114 Telephone: 617-726-6942 FAX: 617-724-8882 Email: ttoth@partners.org Website: www.massgeneral.org/fertility	2016 1st yr positions 1 Most recent year of Program Certification (Recertification) 2014 FACULTY APPOINTMENT 1st year: Clinical Fellow 2nd year: Clinical Fellow 3rd year: Clinical Fellow
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Program Length: 3 years 3 yr conversion start date: Prerequisites: ABOG Approved Residency in Ob/Gyn Salary 1st Year: \$71,000.00	Fellowship Application Deadline: Friday June 5, 2015 Number of fellows trained within the past 5 years Program began in 2004 - 8 graduates How many of them are currently in academic positions? 4
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PROGRAM DESCRIPTION	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
Research Time			
Total Research time	<u>100%</u>	<u>20%</u>	30%
Clinical	<u>0%</u>	<u>50%</u>	<u>50%</u>
Laboratory	<u>100%</u>	<u>50%</u>	<u>50%</u>
Direct Patient Care			
Total Clinical Time	0%	80%	70%
Endocrine		<u>30%</u>	60%
Infertility		<u>70%</u>	40%
Obstetrics/Gynecology		<u>0%</u>	0%
Surgical Procedures			
		Estimated '13-'14	Estimated '13-'14
Diagnostic/Operative	N/A		
Laparoscopies	<u>N/A</u>	10	100
Hysteroscopies	<u>N/A</u>	250	70
Assisted Reproduction	10	750	150
Laparotomies	<u>N/A</u>	5	25

GRADUATE LEVEL COURSES			
Mandatory (M), Recommended (R), Offered (O)	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
Statistics/Epidemiology	M (1)		
Research Methodology	M (1)		
Genetics/Molecular Biology			
Other Basic Science			
Other Clinical Course			

9	67
234	48
862	120
	19

MASSACHUSETTS GENERAL HOSPITAL

Faculty

* = Full Time ** = Other

Reproductive Endocrinology/Infertility Areas of Special Interest

John C. Petrozza, M.D.*	Minimally Invasive Surgery, Pelvic Pain
Bo R. Rueda, PhD*	Ovarian & Endometrial Biology/Cancer, Endometriosis
Isaac Schiff, MD*	Women's Reproductive Health / Menopause
Jan L. Shifren, MD*	Menopause, Sexual Dysfunction
Irene Souter, MD*	Infertility, PGD
Aaron K. Styer, MD*	Endometriosis, Reproductive Surgery/Mullerian Anomalies
Jonathan L. Tilly, PhD*	Apoptosis, Germline Stem Cells
Thomas L. Toth, MD*	Assisted Reproductive Technologies, Oocyte Cryopreservation
Mary E. Sabatini, MD, PhD*	Infertility, Fertility preservation for cancer patients
Diane Wright, PhD*	Embryology, Telomerase

Beverly Biller, MD**	Neuroendocrine / Endocrinology
Paula Goldenberg, MD**	Genetics
Lynne Levitsky, MD**	Pediatric Endocrinology
Drucilla Roberts, MD**	Reproductive Pathology
Patrick Sluss, PhD**	Reproductive Endocrine Pathology/Assays
Cigdem Tanrikut, MD**	Male Reproductive Medicine

Goal – The Massachusetts General, Harvard Medical School, Vincent Fellowship Training Program in Reproductive Endocrinology and Infertility (REI) is a three-year program designed to train sub specialists in obstetrics and gynecology to manage complex clinical problems relating to reproductive endocrinology and infertility, as well as to investigate important relevant basic science and clinical research questions

Overview – Fellowship training is divided equally between clinical and research activities. Formal didactic sessions include enrollment in courses and attendance at weekly rounds and conferences. Clinical activities take place in the MGH Fertility Center of the Vincent Obstetrics and Gynecology service, including the Vincent *In Vitro* Fertilization unit. Basic scientific research activities occur in the Vincent Center for Reproductive Biology.

Year 1 – is devoted exclusively to research with the faculty of the Vincent Center for Reproductive Biology (VCRB) to learn the basic research skills required to address important issues in reproductive biology. The breadth of investigation available in the VCRB will cover all facets of reproduction and reproductive endocrinology, the utilization of in vitro and in vivo models, and the practice of a full range of molecular techniques. Notably, fellows are given the opportunity to design, implement, and critically review basic research projects with the potential for relevant clinical applications. In addition, graduate level courses related to basic or clinical research will be completed.

Year 2 – is 80% clinical and 20% laboratory and the fellow will continue to research projects initiated in Year 1, but will now focus on clinical activities. The fellow will learn to evaluate and treat medical problems including infertility, polycystic ovarian syndrome, hirsutism, premature ovarian failure, endometriosis, dysfunctional uterine bleeding. The fellow will participate daily in the IVF unit, learning skills of transvaginal ultrasonography, gonadotropin management and oocyte retrieval. The fellow will observe in the Vincent Embryology/Andrology Lab learning gamete biology and handling, including exposure to micromanipulation. The fellow will attend several weekly conferences, including the Vincent IVF conference, monthly journal clubs as well as various relevant rounds and conferences within the division, department and hospital.

Year 3 - will focus on training in the surgical techniques critical to the specialty, principally endoscopic procedures, where the fellow will assist with cases several days weekly. Additionally, the fellow will continue ongoing basic and clinical research projects as well as weekly-supervised REI continuity clinic. Rotation, each of approximately two months duration, will be arranged in the related fields of pediatric endocrinology, endocrinology and neuroendocrinology, male infertility, menopause, pathology and genetics. Again, the fellow will participate in all relevant conferences, rounds and clinics. We encourage fellows to present their findings at local and international scientific meetings. The fellow's own unique project designed to generate a publication, will be defended at the end of the Fellowship period.

MAYO CLINIC

Program Director: Gaurang Daftary, M.D.
Mailing Address: 200 First Street SW
 Rochester, MN 55905

Telephone: 507-538-6119
FAX: 507-266-7953
Email: obgfellowships@mayo.edu
Website: <http://www.mayo.edu/msgme/obgyn-reproductive-rch.html>

2016 1st yr positions 1
Most recent year of Program Certification 2011
(Recertification) 2015

FACULTY APPOINTMENT

1st year: None
2nd year: Instructor of OB-GYN
3rd year: Instructor of OB-GYN

Program Length: 3 years
3 yr conversion start date: 1999
Prerequisites: US Ob-Gyn Residency/MN License Eligible
Salary 1st Year: \$60,504.00 (as of June 2014)

Fellowship Application

Deadline: 6/1/2015

Number of fellows trained within the past 5 years 5
How many of them are currently in academic positions? 5

PROGRAM DESCRIPTION

	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
<u>Research Time</u>			
Total Research time			
Clinical	<u>10%</u>	<u>90%</u>	<u>67%</u>
Laboratory			
<u>Direct Patient Care</u>			
Total Clinical Time	<u>90%</u>	<u>10%</u>	<u>33%</u>
Endocrine	<u>30%</u>	<u>0%</u>	<u>16.5%</u>
Infertility	<u>60%</u>	<u>10%</u>	<u>16.5%</u>
Obstetrics/Gynecology	<u>0%</u>	<u>0%</u>	<u>0%</u>
<u>Surgical Procedures</u>			
Diagnostic/Operative			
Laparoscopies	<u>18</u>	<u>9</u>	<u>26</u>
Hysteroscopies	<u>14</u>	<u>23</u>	<u>18</u>
Assisted Reproduction	<u>122 Ret/149 Trans*</u>	<u>9 Ret/15 Trans*</u>	<u>13 Ret/23 Trans</u>
Laparotomies	<u>14</u>	<u>3</u>	<u>11</u>

*Includes FET and Mocks

GRADUATE LEVEL COURSES

Mandatory (M), Recommended (R), Offered (O)

	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
Statistics/Epidemiology	O	M	O
Research Methodology	R	R	O
Genetics/Molecular Biology	O	O	O
Other Basic Science	O	R	O
Other Clinical Course	O	O	O

MAYO CLINIC

FACULTY

* = Full Time

** = Other

Reproductive Endocrinology/Infertility

Charles C. Coddington, III, M.D.*
Elizabeth A. Stewart, M.D.*

Dean E. Morbeck, Ph.D., HCLD*

Gaurang S. Daftary, M.D.*

Jani R. Jensen, M.D.*

K. Sreekumaran Nair, M.D.**

Johannes Veldhuis, M.D. **

John B. Gebhart, M.D.**

Ajay Nehra, M.D.**

Lance A Mynderse, M.D.**

Neena Natt, M.D.**

Todd B. Nippoldt, M.D.**

W. Frederick Schwenk, M.D.**

Jay W. Ellison, M.D., Ph.D.**

Myra J. Wick, M.D., Ph.D.

Areas of Special Interest

ART/IVF, reproductive microsurgery
Uterine fibroids, ART/IVF, reproductive surgery

IVF, PGD, oocyte fertilization and cryo-preservation, embryo cryopreservation
Genetic/molecular mechanisms of endometrial physiology and embryo implantation; embryo implantation disorders, ART/IVF

ART/IVF, fertility preservation, ART ethical/gender issues, reproductive surgery

Endocrine research

Endocrine research

Pelvic reconstructive surgery

Surgical treatment of male infertility

Surgical treatment of male infertility

Medical endocrinology

Medical endocrinology

Pediatric endocrinology

Medical genetics

Medical genetics

BRIEF DESCRIPTION OF PROGRAM WITH REACHING ACTIVITIES DISCUSSED

1st Year: Provides general experience in reproductive endocrinology. Fellows spend 90% of time in Reproductive Endocrinology & Infertility (REI) developing clinical and surgical skills related to infertility, amenorrhea, neuroendocrine dysfunction, reproductive tract abnormalities, androgen disorders, recurrent abortion, endometriosis and uterine leiomyomas in women who want to conceive. Fellows participate in the Mayo Clinic Assisted Reproductive Technology (MCART) program which offers IVF, gamete micromanipulation, assisted hatching, embryo and oocyte cryopreservation, oocyte donation, sonohysterography, ultrasound-directed oocyte retrieval and embryo transfer. Fellows actively participate in all aspects of care, including performing embryo transfers. Fellows learn treatments for male infertility (epididymal aspiration, testicular biopsy, electroejaculation). Fellows prepare a research proposal (clinical or laboratory) under guidance of an individual mentor that undergoes critical departmental and institutional review. **2nd Year:** Fellows spend 90% of time in research-related activities to enhance understanding of the latest scientific techniques and to attend mandatory graduate-level courses. They participate in MCART 10% of time to continue development of clinical and surgical skills. **3rd Year:** Fellows continue with 90% of time in research during the first 6 months for a total of 18 continuous months of research-related activities. Thereafter, fellows rotate in Medical Endocrinology, Pediatric Endocrinology, and Medical Genetics. The remainder of the 3rd year is spent honing clinical and surgical skills. Experience with MRI-guided focused ultrasound treatment of uterine fibroids is available. Teaching opportunities are available through the Mayo Clinic College of Medicine. Masters of Biomedical Science in Reproductive Endocrinology & Infertility degree available through the Mayo Graduate School. No coverage of general obstetric and gynecologic patients is included in the fellowship requirements.

NIH Federal Fellowship in Reproductive Endocrinology

Program Director: Alan H. DeCherney, M.D. Mailing Address: BG10-CRC Room 1-3140 10 Center Drive Bethesda, MD 20814 Telephone: 301-402-2141 FAX: 301-402-0884 Email: minormar@mail.nih.gov Program Asst: Marilyn Minor	1st year positions: 3 Most recent year of Program Certification (Recertification): 1978 2010
FACULTY APPOINTMENT	
1st year: Instructor 2nd year: Instructor 3rd year: Instructor	
Program Length: 3 years 3 yr conversion start date: 1991 Prerequisites: ABOG-approved residency Salary 1st Year: 56,000+	
Fellowship Application Deadline: July 1, yr prior to start	
Number of fellows trained within the past 5 years: 11 How many of them are currently in academic positions?: 6	

PROGRAM DESCRIPTION

	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
<u>Research Time</u>			
Total Research time	10%	80%	90%
Clinical	<u>10</u>	<u>20</u>	<u>10</u>
Laboratory	<u>0</u>	<u>80</u>	<u>90</u>
<u>Direct Patient Care</u>			
Total Clinical Time	90%	20%	10%
Endocrine	<u>10</u>	<u>5</u>	5
Infertility	<u>70</u>	<u>5</u>	10
Obstetrics/Gynecology	<u>0</u>	<u>0</u>	0
Genetics	10		5
<u>Surgical Procedures</u>			
<u>Diagnostic/Operative</u>			
Laparoscopies	<u>20-30</u>	<u>10</u>	5
Hysteroscopies	<u>30-40</u>	<u>10</u>	10
Assisted Reproduction	120	10	100
Laparotomies	<u>20</u>	<u>5</u>	5

GRADUATE LEVEL COURSES

	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
Mandatory (M), Recommended (R), Offered (O)			
Statistics/Epidemiology		R	M
Research Methodology		R	O
Genetics/Molecular Biology		R	M
Other Basic Science		O	O
Other Clinical Course		O	O

NIH-USUHS Federal Fellowship in Reproductive Endocrinology

FACULTY

* = Full Time

** = Other

Reproductive Endocrinology/Infertility

Alan H. DeCherney *

Alicia Y. Armstrong*

William H. Catherino*

John Csokmay*

Melinda Henne*

Lawrence Nelson*

Mark Payson*

Anthony Propst*

Robert Stillman**

Eric Widra**

Belinda Yauger*

Areas of Special Interest

Infertility, ART, Reproductive Endocrinology

Health disparities, ART, Ovarian reserve

Fibroids, health disparities, reconstructive surgery

Infertility, Oocyte maturation, ART

Infertility, ART, Clinical outcomes research

Premature Ovarian failure, Reproductive Endocrinology

Fibroids, ART outcomes, Infertility

Gonadotropin stimulation, ART outcomes

ART outcomes, Reproductive Endocrinology

Infertility, ART outcomes

ART outcomes, Infertility, Zona pellucida

Jacques Cohen**

PGD, Embryology and gametogenesis

Lynnette Nieman**

Medical Endocrinology, Fibroids

Paul Driggers**

Molecular endocrinology, Molecular biology

John Wu**

GnRH action

Tomoshige Kino**

Molecular Endocrinology

The three-year training program is structured to capitalize on the particular strengths and resources of each participating institution. Specifically, infertility services and operative care is provided by the busy clinical services at Walter Reed Bethesda Hospital, the NIH Clinical Center, and at Shady Grove Fertility Center. Experience in the Assisted Reproductive Technologies (ART) is provided by rotation in the newly renovated, state-of-the-art Walter Reed Bethesda ART facility and at Shady Grove Fertility Center. Fellows also obtain medical endocrine, pediatric endocrine, and genetic clinical training through rotation on the active inpatient services at the NIH Clinical Center (www.cc.nih.gov). In addition, outstanding research training is available either through NIH intramural laboratories in the National Institute of Child Health and Human Development (NICHD) or at the Uniformed Services University of the Health Sciences (USUHS). The program is intended to achieve synergistic interaction between the four sponsoring institutions, and provide fellows with an experience and resources not available from a single institution. Since its inception in 1978, the Federal Fellowship in Reproductive Endocrinology Program trained over sixty five fellows, many who have become prominent leaders in the reproductive sciences.

Structured clinical training occurs in the first 15 months of the fellowship. The fellow rotates on the ART service at Walter Reed, an ART program that performs 400-450 cycles annually and Shady Grove Fertility Center, one of the largest ART programs in the U.S. that performs over 4000 cycles annually. Second year fellows will complete the 15 months of clinical training in September of the first year and then select a laboratory within the intramural research program of NICHD or at USUHS for the conduct of a research thesis. During the remaining nine months of the second year, the fellow will be primarily responsible for the research thesis and the performance of basic or clinical duties related to the thesis. The third year fellow is primarily responsible for the completion of a research project relating to the chosen thesis. It is expected that the fellow will devote 90% of time to the completion of a thesis project that will be published in a peer-reviewed journal.

NYU MEDICAL CENTER

Program Director: Frederick L. Licciardi, M.D.
Mailing Address: NYU Fertility Center
 660 First Avenue, 5th Floor
 New York, NY 10016
Telephone: (212) 263-0049
FAX: (212) 263-7853
Email: maureen.weekes@nyumc.org
Website: <http://www.nyufertilitycenter.org>

2013 1st yr positions 1
Most recent year of Program Certification 2007

FACULTY APPOINTMENT
1st year: PGY 5
2nd year: PGY 6
3rd year: PGY 7

Program Length: 3 years
3 yr conversion start date: 2001
Prerequisites: OB/GYN Residency
Salary 1st Year: \$70,608.00
Fellowship Application Deadline: July-5-2015
Number of fellows trained within the past 5 years 5
How many of them are currently in academic positions? 3

PROGRAM DESCRIPTION

	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
<u>Research Time</u>			
Total Research time	<u>10%</u>	<u>50%</u>	<u>90%</u>
Clinical	<u>100%</u>	<u>50%</u>	<u>20%</u>
Laboratory	<u>0%</u>	<u>50%</u>	<u>80%</u>
<u>Direct Patient Care</u>			
Total Clinical Time	<u>90%</u>	<u>50%</u>	<u>10%</u>
Endocrine	<u>10%</u>	<u>20%</u>	<u>10%</u>
Infertility	<u>80%</u>	<u>70%</u>	<u>80%</u>
Obstetrics/Gynecology	<u>10%</u>	<u>10%</u>	<u>10%</u>
<u>Surgical Procedures</u>			
<u>Diagnostic/Operative</u>			
Laparoscopies	<u>26</u>	<u>40</u>	<u>105</u>
Hysteroscopies	<u>40</u>	<u>70</u>	<u>144</u>
Assisted Reproduction	<u>400</u>	<u>500</u>	<u>800</u>
Laparotomies	<u>14</u>	<u>28</u>	<u>42</u>

GRADUATE LEVEL COURSES

Mandatory (M), Recommended (R), Offered (O)

	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
Statistics/Epidemiology	M		
Research Methodology	R	R	R
Genetics/Molecular Biology	O	M	O
Other Basic Science	O	O	O
Other Clinical Course	O	O	O

NYU MEDICAL CENTER

FACULTY

* = Full Time

** = Other

Reproductive Endocrinology/Infertility

Areas of Special Interest

*James A. Grifo, M.D., Ph.D.	Director, Division of REI and Fellowship, REI Professor, OB/GYN	
*Alan S. Berkeley, M.D.	Director, In Vitro Fertilization, Professor, OB/GYN	
*Caroline McCaffrey, Ph.D.	Director, Embryology Laboratory	
*Lisa Kump-Checchio, M.D.	Assistant Professor, OB/GYN	
*Nicole Noyes, M.D.	Director, Reproductive Surgery Associate Professor, OB/GYN	IVF, infertility, PGD and embryo biopsy, DES exposure, molecular genetics and infertility, congenital anomaly repair, PCOS,
*Frederick L. Licciardi, M.D.	Director, Oocyte Donation Program Associate Professor, OB/GYN	oocyte freezing, general and pediatric endocrinology, ovarian preservation, microsurgery for male infertility, hormonal aspects of osteoporosis, menopausal hormone replacement
*David L. Keefe, M.D.	Professor and Chair, OB/GYN	
*Mary E. Fino, M.D.	Assistant Professor, OB/GYN	
*Mortimer Levitz, Ph.D.	Director, Endocrinology Laboratory Professor, OB/GYN	
**Joseph Alukal, M.D.	Director, Reproductive diseases of prostate Assistant Professor, Urology	
**Jessica R. Brown, M.D.	Assistant Professor, OB/GYN	
**Cristina Matera, M.D.	Assistant Professor, OB/GYN	
**Maureen Moomjy, M.D.	Assistant Professor, OB/GYN	
**John Quagliarello, M.D.	Associate Professor, OB/GYN	
**Loren W. Greene, M.D.	Assistant Professor, Medicine-Endocrinology	
**Lila E. Nachtigall, M.D.	Professor, OB/GYN	
**Margaret Nachtigall-Giordano, M.D.	Assistant Professor, OB/GYN	
**Frederick Naftolin, M.D.	Research Coordinator, Professor, OB/GYN	

BRIEF DESCRIPTION OF PROGRAM WITH TEACHING ACTIVITIES DISCUSSED

The REI Fellowship Program at NYU follows the educational objectives in ABOG's guide to Learning in Reproductive Endocrinology and Infertility. The main location for the Fellowship is situated at the NYU Fertility Center in Manhattan, a modern self-contained facility with multiple procedure rooms, laboratories, recovery suite, examination rooms and ultrasound facilities on site, supervised by four full-time specialists. Ancillary services including psychological and genetic counseling are available to patients, and the Fellow is a participant/observer in these activities at various times during training. Endoscopic surgery and inpatient care occur at the Tisch Hospital of NYU Hospitals Center. REI clinics are staffed by Fellows and Attendings, at Bellevue Hospital.

The Fellowship puts a strong emphasis on clinical reproductive endocrinology and the assisted reproductive technologies including IVF, ovulation induction with insemination and micromanipulation laboratory techniques, including embryo biopsy and PGD. The Fellow is included in patient management conferences and has a robust clinical exposure beginning in the first year, which includes didactic activities and research development. The second year provides for significant clinical exposure, and the third year is structured to allow for maximum research continuity for completion of the thesis formulated in the first year. Fellows are encouraged to attend relevant educational and professional meetings.

NORTHWESTERN UNIVERSITY

Program Director: Jared C. Robins, M.D. Mailing Address: 676 North St. Clair Suite 1845 Chicago, IL 60611 Telephone: (312) 926-8244 FAX: (312) 926-6643 Email: jrobins@nmff.org Website:	2012 1st yr positions 1 Most recent year of Program Certification (Recertification) 2010
FACULTY APPOINTMENT	
1st year: None 2nd year: None 3rd year: None	

Program Length:	3 years	Fellowship Application Deadline:	Jul-1
3 yr conversion start date:	N/A		
Prerequisites:	U.S. Residency in Ob/Gyn		
Salary 1st Year:	\$59,046 (2010-2011)		
Number of fellows trained within the past 5 years	2		
How many of them are currently in academic positions?	1		

PROGRAM DESCRIPTION

	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
<u>Research Time</u>			
Total Research time			
Clinical		<u>0-55%</u>	<u>5-25%</u>
Laboratory	<u>90%</u>	<u>0-55%</u>	
<u>Direct Patient Care</u>			
Total Clinical Time			
Endocrine	<u>5%</u>	<u>5%</u>	<u>5%</u>
Infertility	<u>5%</u>	<u>40%</u>	<u>70-90%</u>
Obstetrics/Gynecology			
<u>Surgical Procedures</u>			
Diagnostic/Operative			
Laparoscopies	<u>5</u>	<u>50</u>	<u>120</u>
Hysteroscopies	<u>5</u>	<u>30</u>	<u>60</u>
Assisted Reproduction		<u>50</u>	<u>100</u>
Laparotomies		<u>10</u>	<u>20</u>

GRADUATE LEVEL COURSES

	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
Mandatory (M), Recommended (R), Offered (O)			
Statistics/Epidemiology	M	M	
Research Methodology	M	M	
Genetics/Molecular Biology	M		
Other Basic Science	M		
Other Clinical Course	O		

NORTHWESTERN UNIVERSITY

* = Full Time	FACULTY	** = Other
Reproductive Endocrinology/Infertility		Areas of Special Interest
*Ralph R. Kazer, M.D.		Endocrinology of breast cancer, preeclampsia, clinical infertility
*Randall Barnes, M.D.		Polycystic ovary syndrome, clinical infertility
*Edmond Confino, M.D.		In vitro fertilization, endoscopic surgery, clinical infertility
*Magdy Milad, M.D.		Endoscopic surgery, clinical infertility
*Serdar Bulun, M.D.		Endometriosis, aromatase inhibitors
*Robert Chatterton, M.D.		Hormone assay techniques
*Susan Klock, Ph.D.		Psychological aspects of infertility treatment
*Robert Brannigan, M.D.		Urologic aspects of infertility
*John Zhang, Ph.D.		Assisted Reproductive Technologies
*Erica Marsh, M.D.		infertility, fibroids
*Angela Lawson, Ph.D.		Psychological aspects of infertility treatment
*Mary Ellen Pavone, M.D.		infertility, endometriosis, fibroids

BRIEF DESCRIPTION OF PROGRAM WITH TEACHING ACTIVITIES DISCUSSED

The fellowship in Reproductive Endocrinology and Infertility is an integrated three-year curriculum designed to provide a broad range of clinical and research experience. Trainees will complete a Master of Science in Clinical Investigation program during the first two years of training, providing them with comprehensive training in epidemiology, biostatistics, and experimental design. The first 18 months of the fellowship is primarily devoted to basic science training, while the second half

Rutgers, Robert Wood Johnson Medical School

Program Director:	Richard T. Scott, Jr., M.D.	2012 1st yr positions	1
Mailing Address:	RMA 140 Allen Road Basking Ridge, New Jersey 07920	Most recent year of Program Certification (Recertification)	2009
Telephone:	(973) 656-2831	FACULTY APPOINTMENT	
FAX:	(973) 871-1226	1st year:	Instructor
Email:	nniemaseck@rmanj.com	2nd year:	Instructor
Website:	www.rmanj.com	3rd year:	Instructor

Program Length:	3 years	Fellowship Applicator	
3 yr conversion start date:	N/A	Deadline:	Jun-15
Prerequisites:	ABOG approved residency		
Salary 1st Year:	\$ 65,079.10		
Number of fellows trained within the past 5 years:			3
How many of them are currently in academic positions:			3

PROGRAM DESCRIPTION			
	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
<u>Research Time</u>			
Total Research time	<u>10%</u>	<u>67%</u>	<u>85%</u>
Clinical	<u>100%</u>	<u>25%</u>	<u>10%</u>
Laboratory	<u>0%</u>	<u>75%</u>	<u>90%</u>
<u>Direct Patient Care</u>			
Total Clinical Time	<u>90%</u>	<u>33%</u>	<u>15%</u>
Endocrine	<u>25%</u>	<u>20%</u>	10%
Infertility	<u>75%</u>	<u>80%</u>	90%
Obstetrics/Gynecology	<u>0%</u>	<u>0%</u>	0%
<u>Surgical Procedures</u>			
<u>Diagnostic/Operative</u>			
Laparoscopies	<u>100</u>	<u>10</u>	25
Hysteroscopies	<u>75</u>	<u>10</u>	25
Assisted Reproduction	400	0	100
Laparotomies	<u>30</u>	<u>5</u>	10

GRADUATE LEVEL COURSES			
Mandatory (M), Recommended (R), Offered (O)			
	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
Statistics/Epidemiology	M	O	O
Research Methodology	O	O	O
Genetics/Molecular Biology	M	O	O
Other Basic Science	O	O	O
Other Clinical Course	O	O	O

Rutgers, Robert Wood Johnson Medical School

* = Full Time	FACULTY	** = Other
Reproductive Endocrinology/Infertility		Areas of Special Interest
* Gloria Bachmann, MD		Menopause, contraception, hormone replacement, osteoporosis and skeletal metabolism
** Chaim Jalas		Genetics consultant
** Maria F. Costantini- Ferrando, MD, (PhD)		ART, pelviscopy, complex ovulation induction
* Paul Bergh, MD		IVF, gestational carrier, oocyte donation, pharmacodynamics of gonadotropin stimulation, ovarian responsiveness, paradigms of quality assurance and outcomes, third party reproduction
* Michael Bohrer, MD		Endometriosis, mullerian anomalies, pelviscopy, IVF
* Michael Darder, MD		ART, Third party reproduction, PGD, ovulation induction (complex), operative hysterectomy.
* Leo Doherty, MD		ART, PCOS, recurrent Pregnancy loss, Uterine fibroids, endometrial receptivity, fertility preservation
* Michael Drews, MD		ART, oocyte donation, preimplantation genetic diagnosis
* Rita Gulati, MD		PCOS, IVF, pelviscopy
** Doreen Hock, MD		PCOS, adolescent gynecology, ovarian reserve, ovulation induction
* Kathleen Hong, MD		Clinical embryology, single embryo transfer, ART outcomes, preimplantation general diagnosis, medical education
* Marcus Jurema, MD		ART, fertility preservation, in vitro maturation, third party reproduction, recurrent pregnancy loss/implantation failure, ovarian reserve issues, reproductive surgery
* Thomas Kim, MD		ART, PCOS, fertility preservation: oocyte cryopreservation, pelviscopy, alternative medicine
* Jessica Landis, PhD		Bioinformatics, biomarker discovery, single cell transcriptomics
* Thomas Molinaro, MD		ART, pelviscopy, complex ovulation induction
** Jamie Morris, MD		Third party reproduction, ovarian reserve, ART
** Eden Rauch, MD		Fertility preservation, polycystic ovarian syndrome, ovarian reserve screening and the treatment of diminished ovarian reserve in young poor responders.
** Shefali Shasti, MD		ART, pelviscopy, complex ovulation induction
* Richard Scott, MD		Ovarian reserve, evaluation of embryonic reproductive competence via genomics, transcriptomics, and proteomics, whole genome associations studies of the infertile population, disorders of meiosis and early mitotic divisions, preimplantation genetic diagnosis, GnRH analogues, gonadotropin biology, implantation disorders, ethics of reproductive medicine
* Nathan Treff, PhD		Single cell aneuploidy screening, single cell transcriptomics, proteomics of early embryonic development
* Susan Treiser MD, PhD		Third party reproduction, diminished ovarian reserve, egg freezing
* Kathleen Upham		ART laboratory, vitrification, embryo biopsy techniques, culture system development; preimplantation genetic diagnosis
* Marie Werner, MD		Clinical embryology, optimizing ART stimulation protocols, enhancing ART outcomes through personalized medicine, pre-implantation genetic screening, investigating non-invasive tools to enhance selection of embryos for transfer
** Melissa Yih, MD		Optimizing pregnancy success in the poor responder or patient with diminished ovarian reserve, improving outcomes for patients with recurrent pregnancy loss, gestational carriers, and adolescent GYN
* Yiping Zhan		Statistical genetics, bioinformatics, and algorithm development for biological data analysis
* Rebekah Zimmerman, PhD		Single gene disorder PGD, reproductive and prenatal genetics, clinical test development and validation

BRIEF DESCRIPTION OF PROGRAM WITH TEACHING ACTIVITIES DISCUSSED

The fellowship training program provides comprehensive training in the clinical practice of Reproductive Endocrinology, laboratory training in all aspects of the IVF laboratory including micromanipulation and embryo biopsy, and extensive clinical and basic science laboratory experience. The fellowship is heavily focused on academic growth and minimizes any service commitment. The fellows do not take obstetrical or any other type of in house call.

The fellows will participate in two weekly conferences. The first is for the entire Reproductive Endocrine Division and consists of weekly conferences that systematically review all the ABOG learning objectives. The second is a weekly meeting between the fellows and the program director. Research within the program is focused on understanding reproductive competence of individuals and embryos. State-of-the-art genomic, transcriptomic, and proteomic laboratory facilities are available within the division including a large microarray facility.

First Year: The first year is focused principally on clinical care. Fellows will spend 9 months with the full spectrum of clinical activities including seeing patients, performing the full spectrum of surgeries, attending clinics in medical and pediatric endocrinology, and performing procedures related to ART. One month rotating through the andrology and endocrinology laboratories gaining experience with all aspects of laboratory core while learning how to manage these laboratories and direct the appropriate regulatory and quality assurance paradigms. The final two months are spent in the embryology laboratory rotating through all the basic areas on gaining actual hands on experience in the human IVF system.

Second Year: The second year is focused on gaining the remainder of the fundamental skill sets in the IVF laboratory and then performing clinical and laboratory research. There is no routine clinical rotation during this year. The first four months will be spent in the embryology laboratory. Fellows will gain the mechanical skills involved in performing high quality human IVF including micromanipulation skills. They will also become proficient with how to troubleshoot problems in the laboratory and perform fundamental quality assurance. The fellows will split the remainder of the year between clinical and laboratory research. The fellows have access to extensive and clinical and laboratory research resources and are expected to complete and publish a minimum of one prospective clinical and laboratory research project.

Third Year: The final year of fellowship is focused on laboratory research for ten months. The strong clinical and embryology skills should allow the fellows to address relevant questions about all aspects of Reproductive Endocrinology including the reproductive competence of spermatozoa, oocytes, and embryos. This will include demonstrated skill sets with microarray technologies, qPCR, spectroscopy, ELISA's, etc. Although all the funding required to support the fellows research projects has already been secured, the fellows will be encouraged to seek independent grant support which will help establish their own academic careers. The final two months will be spent in the clinical rotation to allow the fellow to finalize their clinical and surgical training prior to graduation. All fellows should easily be able to complete and publish a thesis project prior to graduation. They will also be expected to present their work at a major national meeting during their second and third year.

Stanford University

Program Director: Lynn Westphal, MD Mailing Address: REI Division, Ob/Gyn Department Stanford University Medical Center 900 Welch Road, Suite 20 Palo Alto, CA 94304 Telephone: 650.498.7408 FAX: 650.498.4320 Email: tracyl@stanford.edu Website: http://goo.gl/yTUZ48 http://obgyn.stanford.edu/rei/fellowship.html	2015 1st yr positions 1 Most recent year of Program Certification 2014
FACULTY APPOINTMENT	
1st year: Clinical Instructor 2nd year: (Per Diem) 3rd year: each year 1st-3rd	

Program Length: 3 years	3 yr conversion start date: 1-Jul	Fellowship Application Deadline: 6/1/2015
Prerequisites: ACGME Approved Residency	Salary 1st Year: \$73,944.00	
Number of fellows trained within the past 5 years	5	
How many of them are currently in academic positions?	1	

PROGRAM DESCRIPTION	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
<u>Research Time</u>			
Total Research time			
Clinical	<u>100</u>	<u>10</u>	<u>33</u>
Laboratory	<u>0</u>	<u>90</u>	<u>67</u>
<u>Direct Patient Care</u>			
Total Clinical Time			
Endocrine	<u>25</u>	<u>25</u>	<u>25</u>
Infertility	<u>70</u>	<u>70</u>	<u>70</u>
Obstetrics/Gynecology	<u>5</u>	<u>5</u>	<u>5</u>
<u>Surgical Procedures</u>			
Diagnostic/Operative			
Laparoscopies	<u>6</u>	<u>32</u>	<u>29</u>
Hysteroscopies	<u>327</u>	<u>58</u>	<u>31</u>
Assisted Reproduction	<u>576</u>	<u>174</u>	<u>79</u>
Intrauterine Inseminations	<u>18</u>	<u>30</u>	<u>13</u>
Laparotomies	<u>1</u>	<u>8</u>	<u>6</u>

GRADUATE LEVEL COURSES			
Mandatory (M), Recommended (R), Offered (O)	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
Statistics/Epidemiology	O	M	O
Research Methodology	O	O	O
Genetics/Molecular Biology	O	M	O
Other Basic Science	O	O	O
Other Clinical Course	O	O	O

STANFORD UNIVERSITY

FACULTY

* = Full Time

** = Other

Reproductive Endocrinology/Infertility

Areas of Special Interest

*Valerie L. Baker, MD

Primary Ovarian Insufficiency, Outcomes from Assisted Reproductive Technologies

*Barry R. Behr, Ph.D.

Clinical research in assisted reproduction, embryo culture systems, embryo-maternal dialog, cryopreservation.

*Aaron J. W. Hsueh, Ph.D.

Basic research in the hormonal regulation of ovarian function and in vitro activation of ovarian follicles.

**Jack Y.J. Huang, MD, PhD

Clinical research in assisted reproduction (controlled ovarian hyperstimulation protocols, in vitro maturation, oocyte cryopreservation, preservation of fertility).

*Ruth Lathi, MD

Clinical research in miscarriages and recurrent miscarriage, reproductive endocrinology, hormonal effects of fertility medications and reproductive outcomes.

*Amin A. Milki, M.D.

Clinical research in assisted reproduction.

*Steven T. Nakajima, M.D.

Clinical research in female contraception (steroid inhibition of folliculogenesis), assisted reproductive technology (in vitro activation) and role of robotics in minimally invasive reproductive surgical procedures.

*Renee Reijo Pera, PhD

Translational research in developmental genetics of human germ cells, embryos and embryonic stem cells.

*Lynn M. Westphal, M.D.

Clinical research in assisted reproduction, fertility preservation, oocyte and ovarian tissue cryopreservation with cancer.

BRIEF DESCRIPTION OF PROGRAM WITH TEACHING ACTIVITIES DISCUSSED

The education program in Reproductive Endocrinology and Infertility (REI) at Stanford is a three-year program. It is intended to prepare trainees for academic careers by providing structured training in basic laboratory and clinical research, experience as a teacher in post-graduate education, and the opportunity to develop additional subspecialty clinical skills. The program consists of twelve months of clinical experience in REI in the first year. The second and third years are primarily devoted to research, with a 10% commitment to clinical endeavors. The program is designed for those seeking eligibility to take the examinations for certification of special qualification given by the American Board of Obstetrics and Gynecology.

Two courses are required in the following areas: Statistics, Epidemiology, Genetics, and/or Molecular Biology.

UNIVERSITY HOSPITALS CASE MEDICAL CENTER

Program Director James M. Goldfarb, MD, MBA
Mailing Address University Hospitals Fertility Center
 Ajuha Medical Center
 Kathy Risman Pavilion
 Cleveland, OH 44122
Telephone: 216-285-5028
FAX: 216-201-5390
Email: tiffany.phillips@uhhospitals.org
Website: <http://www.uhhospitals.org/macwdonald/services/reproductive-endocrinology-and-infertility>

2012 1st yr position(s): 1
Most recent year of Program Certification: 2008

FACULTY APPOINTMENT

1st year: Instructor
2nd year: Instructor
3rd year: Instructor

Program Length: 3 years
3 yr conversion start date: NA
Prerequisites: OBGYN Residency
Salary 1st Year: \$60,400

Fellowship Application Deadline: 6/1/2015

Number of fellows trained within the past 5 years 4
How many of them are currently in academic positions? 2

PROGRAM DESCRIPTION

	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
<u>Research Time</u>			
Total Research time	<u>10%</u>	<u>90%</u>	<u>80-90%</u>
Clinical	<u>90%</u>	<u>10%</u>	<u>20%</u>
Laboratory	<u>0-100%</u>	<u>0-100%</u>	<u>0-100%</u>
<u>Direct Patient Care</u>			
Total Clinical Time	<u>90%</u>	<u>10%</u>	<u>10-50%</u>
Endocrine	<u>20%</u>	<u>5%</u>	<u>30%</u>
Infertility	<u>70%</u>	<u>5%</u>	<u>70%</u>
Obstetrics/Gynecology	<u>10%</u>	<u>0%</u>	<u>0%</u>
<u>Surgical Procedures</u>			
<u>Diagnostic/Operative</u>			
Laparoscopies	<u>100</u>	<u>10</u>	<u>10</u>
Hysteroscopies	<u>100</u>	<u>10</u>	<u>10</u>
Assisted Reproduction	<u>160</u>	<u>20</u>	<u>20</u>
Laparotomies	<u>30</u>	<u>5</u>	<u>5</u>

GRADUATE LEVEL COURSES

Mandatory (M), Recommended (R), Offered (O)

	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
Statistics/Epidemiology	R		
Research Methodology		R	
Genetics/Molecular Biology		O	O
Other Basic Science		O	O
Other Clinical Course		O	O

University Hospitals Case Medical Center

FACULTY

* = Full Time

** = Other

James M. Goldfarb, MD*

Areas of Special Interest

Infertility/ART

Polycystic ovary syndrome

Fertility Preservation

James H. Liu, MD*

Infertility/ART

Hormones during menopause

Contraception

Brooke Rossi, MD*

Infertility/ART

Minimally invasive surgery

Lifestyle effects on infertility, PCOS

Rachel Weinerman, MD*

Infertility ART

Reproductive surgery

Li Meng, PhD, HCLD

IVF Laboratory methods

Vitrification of embryos and oocytes

Neal Rote, PhD*

Autoimmune causes of recurrent

Pregnancy loss

Sam Mesiano, PhD*

Cellular and molecular effects of

Estrogen and progesterone

BRIEF DESCRIPTION OF PROGRAM WITH RESEARCH ACTIVITIES DISCUSSED

The University Hospitals Case Medical Center (UHCMC) Fellowship program in Reproductive Endocrinology and Infertility (REI) is designed to prepare fellows for productive careers in academic medicine. The program will take advantage of the breadth of research interests of the active faculty and the educational opportunities available to post-doctoral fellows at UHCMC and the co-located Case Western Reserve University School of Medicine and Graduate School. By design, it provides a progressive program of scientific inquiry, clinical competence, and didactic learning based on the educational objectives outlined by the "Guide to Learning in Reproductive Endocrinology and Infertility" from the American Board of Obstetrics and Gynecology (ABOG). Graduates of the program will possess the full range of clinical, educational and investigative competencies necessary to become successful clinician-scientists.

Educational Objectives

The proposed program is structured to provide each fellow with a progressive experience in the conduct of clinical or basic research, depending on each fellow's background and interests. This progressive approach is predicated on the fact that the majority of prospective fellows have had limited exposure to the entire research process. During the first year, the fellowship training structure begins with a clinical focus which evolves to a primary research emphasis during the second year. The third year will be a balance of clinical and research responsibilities in preparation for productive research careers in academic medicine.

Rutgers - NEW JERSEY MEDICAL SCHOOL

Program Director: Sara Morelli, M.D. Mailing Address: Rutgers-New Jersey Medical School Dept. of OB/GYN & Women's Health 185 South Orange Ave., MSB-E506 Newark, New Jersey 07103-2714 Telephone: (973) 972-5554 FAX: (973) 972-4574 Email: sn445@njms.rutgers.edu morellsa@njms.rutgers.edu Website: www.njms.rutgers.edu	2016 1st yr positions 1 Most recent year of Program Certification (Recertification) 2010 FACULTY APPOINTMENT 1st year: NA 2nd year: NA 3rd year: NA
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Program Length: 3 years 3 yr conversion start date: 1997 Prerequisites: ACGME accredited U.S. Residency in OB/GYN Salary 1st Year: \$65,079 (PGY-5) Number of fellows trained within the past 5 years 5 How many of them are currently in academic positions? 3	Deadline for Receiving Fellowship Applications: June 1, 2016
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PROGRAM DESCRIPTION	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
<u>Research Time</u>			
Total Research time			
Clinical	<u>20%</u>	<u>50%</u>	<u>50%</u>
Laboratory	<u>80%</u>	<u>50%</u>	<u>50%</u>
<u>Direct Patient Care</u>			
Total Clinical Time			
Endocrine	<u>0%</u>	<u>20%</u>	<u>20%</u>
Infertility	<u>0%</u>	<u>75%</u>	<u>75%</u>
Obstetrics/Gynecology	<u>0%</u>	<u>5%</u>	<u>5%</u>
<u>Surgical Procedures</u>			
Diagnostic/Operative			
Laparoscopies	<u>0</u>	<u>40</u>	<u>58</u>
Hysteroscopies	<u>0</u>	<u>103</u>	<u>167</u>
Assisted Reproduction	<u>0</u>	<u>52</u>	<u>150</u>
Laparotomies	<u>0</u>	<u>9</u>	<u>24</u>

GRADUATE LEVEL COURSES	Mandatory (M) <u>1st Year</u>	Recommended (R) <u>2nd Year</u>	Offered (O) <u>3rd Year</u>
Statistics/Epidemiology	M		
Research Methodology	R		
Genetics/Molecular Biology			
Other Basic Science			
Other Clinical Course			

Rutgers-NEW JERSEY MEDICAL SCHOOL

FACULTY

* = Full Time

** = Other

Reproductive Endocrinology/Infertility

Areas of Special Interest

* Michael M. Cho, M.D.

Endothelial Function and HRT,
Andrology

* Laura T. Goldsmith, Ph.D.

Corpus Luteum Physiology, Signal
Transduction, and Endocrinology
of Pregnancy

* Sara Sinha Morelli, M.D.

Endometrial Function
Uterine Stem Cells, Infertility

* Jacquelyn S. Loughlin, M.D.

Infertility, Polycystic
Ovarian Syndrome, In Vitro Fertilization

** Peter G. McGovern, M.D.

Infertility, In Vitro Fertilization,
Ovarian and Corpus Luteum Function

** Taonei Mushayandebvu, M.D.

Clinical Infertility, Reproductive Surgery

** Aimee Seungdamrong, M.D.

Infertility, Female Fertility Preservation

** Gerson Weiss, M.D.

Menopause, Physiology of Relaxin

* Adam Fechner, M.D.

Infertility, Reproductive Surgery,
Invitro Fertilization

BRIEF DESCRIPTION OF PROGRAM WITH TEACHING ACTIVITIES DISCUSSED

The Reproductive Endocrine Fellowship at New Jersey Medical School combines an active clinical practice with the opportunity to perform high-caliber basic or clinical research. The research component includes support from both industry and NIH grants for basic and clinical research. These targeted investigators offer the Fellow the chance for participation in and management of a large variety of research protocols.

A large core laboratory is in operation within the Division, encompassing all reproductive hormone immunoassays and ELISAs, molecular biology, a sophisticated tissue and organ culture facility and a variety of technical equipment suitable for biomedical research.

The clinical base of the Fellowship is University Reproductive Associates (URA), a free-standing patient care facility located in suburban Bergen County, through which approximately 440 IVF cycles and 500 gonadotropin or clomiphene IUI cycles are managed annually by Fellows and staff. Patients suitable for clinical research are recruited from URA.

A key component at the program is a sincere commitment to protected research time, allowing the Fellow to finish with a published thesis project and the skills to maintain a productive ongoing research career. To this end, the entire first year is protected for research (and the two graduate level courses). Years two and three are divided 50/50 between research and clinical time, with rotations through our own busy practice, Clinical Genetics, Pediatric Endocrinology and Male Infertility at University Reproductive Associates and our Newark clinics for REI and Medical Endocrinology.

Fellows are encouraged to take their General OB/GYN Board exams during Fellowship, and given free time and support to attend the NIH and SREI conferences. Thus, the overall scope and versatility of both research and clinical venues remain the most attractive features of New Jersey Medical School's REI Fellowship Program.

UNIVERSITY OF ALABAMA AT BIRMINGHAM

Program Director: G. Wright Bates, M.D. Mailing Address: University of Alabama at Birmingham 619 19th St. So, WIC 10390 Birmingham, AL 35249-7333 Telephone: (205) 934-1030 FAX: (205) 975-5732 Email: gbates@uabmc.edu Website: _____	2015 1st yr positions 1 Most recent year of Program Certification (Recertification) 2012 <hr/> FACULTY APPOINTMENT 1st year: Instructor 2nd year: Instructor 3rd year: Instructor
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Program Length: 3 years	
3 yr conversion start date: 7/1/2002	Fellowship Application Deadline: June 1
Prerequisites: OB/GYN Residency	
Salary 1st Year: \$55,273.00	
Number of fellows trained within the past 5 years	5
How many of them are currently in academic positions?	1

PROGRAM DESCRIPTION	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
<u>Research Time</u>			
Total Research time	20%	85%	50%
Clinical	<u>50%</u>	<u>50%</u>	<u>50%</u>
Laboratory	<u>50%</u>	<u>50%</u>	<u>50%</u>
<u>Direct Patient Care</u>			
Total Clinical Time	80%	15%	50%
Endocrine	<u>25%</u>	<u>5%</u>	15%
Infertility	<u>50%</u>	<u>5%</u>	30%
Obstetrics/Gynecology	<u>5%</u>	<u>5%</u>	5%
<u>Surgical Procedures</u>			
Diagnostic/Operative			
Laparoscopies	<u>40</u>	<u>14</u>	28
Hysteroscopies	<u>24</u>	<u>11</u>	18
Assisted Reproduction	30	17	23
Laparotomies	<u>50</u>	<u>15</u>	21

GRADUATE LEVEL COURSES			
Mandatory (M), Recommended (R), Offered (O)			
	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
Statistics/Epidemiology	M	O	O
Research Methodology	M	O	O
Genetics/Molecular Biology	O	R	O
Other Basic Science	O	R	O
Other Clinical Course	O	O	O

UNIVERSITY OF ALABAMA AT BIRMINGHAM

FACULTY

* = Full Time

** = Other

Reproductive Endocrinology/Infertility

Areas of Special Interest

*G. Wright Bates, Jr., M.D.

In vitro fertilization,
reproductive surgery, polycystic
ovarian syndrome, premature ovarian failure

*Richard E. Blackwell, Ph.D., M.D.

Pathophysiology of gonadotropin
and prolactin secretion,
contraceptive technology, menopause

*Janet F. McLaren, M.D.

In vitro fertilization, reproductive surgery
fertility preservation

**Robert W. Rebar, M.D.

Disorders of puberty and ovarian
function, menopause

*Andrew R. La Barbera, Ph. D.

Reproductive physiology,
systems based medical education

BRIEF DESCRIPTION OF PROGRAM WITH TEACHING ACTIVITIES DISCUSSED

The Reproductive Endocrinology and Infertility training program at the University of Alabama at Birmingham is a three-year program designed to give excellent training in both clinical and research aspects of the specialty. The first year is designed to provide the backbone of clinical training, with 10 months devoted to clinical duties and 2 months devoted to a research rotation. During the first 2 months, the fellow spends time learning transvaginal ultrasound and intrauterine insemination, along with an introduction to REI office patients. The fellow spends an additional 4 months seeing REI office patients and doing reproductive surgery, with exposure to IVF. One month each of pediatric and adult endocrinology is included. The fellow also spends time in the gamete biology lab and with male infertility specialist in urology during the first year. During the second year, the fellow spends 2 months in clinical duties and 10 months in research. The majority of the thesis, either basic or translational research, is completed during the second year. During the third year, the fellows spend 6 months on clinical duties, with more exposure to IVF skills and the IVF lab, with 6 months on research. The thesis should be completed and written during the third year.

UCLA MEDICAL CENTER

Program Director: Gautam Chaudhuri, M.D., Ph.D.
Mailing Address: UCLA Medical Center
 Dept. of Ob/Gyn
 10833 Le Conte Ave., 27-117 CHS
 Los Angeles, CA 90095-1740
Telephone: (310) 206-6558
FAX: (310) 206-6531
Email: ksfong@mednet.ucla.edu
Website: <http://www.uclaobgyn.com/academics/rei-fellowship>

2014 1st yr positions 2
Most recent year of Program Certification (Recertification) 1999
2009

FACULTY APPOINTMENT

1st year: No
2nd year: No
3rd year: No

Program Length: 3 years
3 yr conversion start date: 1998
Prerequisites: Ob/Gyn Residency/CA license
Salary 1st Year: \$58,679.00

Fellowship Application Deadline: Jun-3

Number of fellows trained within the past 5 years 8
How many of them are currently in academic positions? 2

PROGRAM DESCRIPTION

	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
<u>Research Time</u>			
Total Research time			
Clinical	<u>90%</u>	<u>50%</u>	<u>10%</u>
Laboratory	<u>10%</u>	<u>50%</u>	<u>90%</u>
<u>Direct Patient Care</u>			
Total Clinical Time			
Endocrine	<u>30%</u>	<u>30%</u>	<u>30%</u>
Infertility	<u>65%</u>	<u>65%</u>	<u>65%</u>
Obstetrics/Gynecology	<u>5%</u>	<u>5%</u>	<u>5%</u>
<u>Surgical Procedures</u>			
Diagnostic/Operative			
Laparoscopies	<u>21</u>	<u>10</u>	<u>6</u>
Hysteroscopies	<u>30</u>	<u>15</u>	<u>6</u>
Assisted Reproduction	<u>75</u>	<u>46</u>	<u>10</u>
Laparotomies	<u>36</u>	<u>14</u>	<u>2</u>

GRADUATE LEVEL COURSES

Mandatory (M), Recommended (R), Offered (O)

	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
Statistics/Epidemiology	O	O	M
Research Methodology		M	
Genetics/Molecular Biology	O	O	O
Other Basic Science	O	O	O
Other Clinical Course			

UCLA MEDICAL CENTER

FACULTY

* = Full Time

** = Other

Reproductive Endocrinology/Infertility

*Gautam Chaudhuri, M.D., Ph.D.
(Chair & Director, UCLA)

**Carolyn Alexander, MD (Cedars-Sinai)

**Wendy Chang, M.D. (SCRC)

**Yii-Der Ida Chen, Ph.D. (Cedars)

**Hal C. Danzer, M.D. (SCRC)

**Catherine Deugarte, M.D.

*Daniel Dumesic, M.D. (UCLA)

*William Freije, M.D., Ph.D. (UCLA)

**Shahin Ghadir, M.D. (SCRC)

**David L. Hill, Ph.D. (ART)

*John Kuo, M.D. (UCLA)

**David R. Meldrum, M. D. (Reproductive Partners)

*Margaret Pisarska, M.D. (Cedars-Sinai)

*Ingrid Rodi, M.D.

*Mousa Shamonki, M.D. (UCLA)

**Mark Surrey, M.D. (SCRC)

*T.C. Jackson Wu, M.D., Ph.D. (UCLA)

Areas of Special Interest

Vasoactive Substances,
Menopause

Infertility

ART: Infertility

Genetics

Infertility

Genetics, Infertility, PCOS

Infertility, PCOS

Menopause, Genetics

Fertility Preservation

ART: Infertility

IVF, Menopause

IVF

Ovarian Follicle Development

Endocrinology, Infertility

IVF

ART: Pelviscopy

Retinoic Acid Metabolism

BRIEF DESCRIPTION OF PROGRAM WITH TEACHING ACTIVITIES DISCUSSED

The Division of Reproductive Endocrinology and Infertility at UCLA Medical Center has an affiliation with Cedars-Sinai Medical Center for the purposes of teaching and research. The fellowship is a 3-year program individualized to meet the needs and interests of each trainee. The fellowship will also satisfy the requirements of the subspecialty board of Reproductive Endocrinology of the American Board of Obstetrics and Gynecology. The program presently has three fellows completing their 18 months research training and three fellows in their 18 months of clinical training. The program is directed towards giving each fellow the clinical skills and research background needed to begin an academic career in Obstetrics and Gynecology.

UC SAN DIEGO SCHOOL OF MEDICINE

<p>Program Director: Antoni J. Duleba, M.D. Mailing Address: UCSD School of Medicine 9500 Gilman Drive, #0633 La Jolla, CA 92093-0633 Telephone: 858/534-8930 FAX: 858/534-8856 Email: aduleba@ucsd.edu; ahartgrove@ucsd.edu Website: http://repromed.ucsd.edu/education/reproductive-endocrinology.shtml</p>	<p>2014 1st yr positions 1 Most recent year of Program Certification 1996 (Recertification) 2012</p> <hr/> <p>FACULTY APPOINTMENT 1st year: Instructor 2nd year: Instructor 3rd year: Instructor</p>
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Program Length: 3 years
3 yr conversion start date: July 1
Prerequisites: Completion of US residency, US Permanent Resident
Salary 1st Year: \$58,679

Number of fellows trained within the past 5 years 7
How many of them are currently in academic positions? 0

PROGRAM DESCRIPTION			
	1st Year	2nd Year	3rd Year
<u>Research Time</u>			
Total Research time	15%	50%	90%
Clinical	<u>15%</u>	<u>50%</u>	<u>80%</u>
Laboratory	<u>0%</u>	<u>0%</u>	<u>10%</u>
<u>Direct Patient Care</u>			
Total Clinical Time	85%	50%	10%
Endocrine	<u>30%</u>	<u>5%</u>	<u>0%</u>
Infertility	<u>50%</u>	<u>40%</u>	<u>5%</u>
Obstetrics/Gynecology	<u>0</u>	<u>5%</u>	<u>5%</u>
<u>Surgical Procedures</u>			
Diagnostic/Operative	76	17	2
Laparoscopies	<u>15</u>	<u>5</u>	<u>0</u>
Hysteroscopies	<u>61</u>	<u>12</u>	<u>2</u>
Assisted Reproduction	29	80	10
Laparotomies	5	1	1

GRADUATE LEVEL COURSES			
	Mandatory (M)	Recommended (R)	Offered (O)
	1st Year	2nd Year	3rd Year
Statistics/Epidemiology	R	O	O
Research Methodology	R	O	O
Genetics/Molecular Biology	R	O	O
Other Basic Science	O	O	O
Other Clinical Course	O	O	O

UC SAN DIEGO SCHOOL OF MEDICINE

FACULTY

* = Full Time

** = Other

Reproductive Endocrinology/Infertility

Areas of Special Interest

*Sanjay Agarwal, M.D.	Endometriosis
*R. Jeffrey Chang, M.D.	Reproductive Endocrinology, PCOS
**Donald Crain, M.D.	Male Infertility
*Antoni Duleba, M.D.	Endometriosis, Reproductive Endocrinol, PCOS
**Gabriel Garzo, M.D.	Assisted Reproductive Technology
**Michael Gottschalk, M.D.	Pediatric Endocrinology
*Alexander (Sasha) Kauffman, Ph.D.	Molecular Neuroendocrinology
**Larry Laufer, M.D.	Infertility, ART
*Mark Lawson, Ph.D.	Molecular Neuroendocrinology
**Li-Shei Lin, M.D.	Infertility
**David Meldrum, M.D.	Assisted Reproductive Technology
*Pamela Mellon, Ph.D.	Molecular Neuroendocrinology
*Shunichi Shimasaki, Ph.D.	Molecular Ovarian Biology
*Irene Su, M.D., MSCE	Oncofertility, Clinical Epidemiology
*Miles F. Wilkinson, Ph.D.	Reproductive Biology, Gonadal Development
**Michael Wittenberger, M.D.	Infertility, ART
**Patricia Wu, M.D.	Medical Endocrinology
**Richard Y. Yoo, M.D.	Infertility

BRIEF DESCRIPTION OF PROGRAM WITH TEACHING ACTIVITIES DISCUSSED

This program offers balanced exposure to clinical training and clinical and basic research in reproductive endocrinology and infertility. Fellows actively participate in ongoing research projects and initiate their own protocols with respect to altered physiology and reproductive disorders. These projects encompass clinical investigation as well as cellular and molecular research.

UC San Francisco

Program Director: Marcelle I. Cedars, M.D. Mailing Address: Center for Reproductive Health Univ. of California, San Francisco 550 16th Street, 7 th Floor San Francisco, CA 94158 Telephone: (415) 353-9776 FAX: (415) 353-7744 Email: marcelle.cedars@obgyn.ucsf.edu Program Director Email: pliskal@obgyn.ucsf.edu Program Coordinator Website: www.obgyn.ucsf.edu	2015 1st yr positions 2 Most recent year of Program Certification 2003 (Recertification) 2007 (Recertification) 2013		
FACULTY APPOINTMENT			
1st year: None 2nd year: None 3rd year: None			
Program Length: 3 years 3 yr conversion start date: 1997 Prerequisites: Residency in OB/GYN Salary 1st Year: \$61,275	Fellowship Application Deadline: May 29, 2015		
Number of fellows trained within the past 5 years 8 How many of them are currently in academic positions? 4			
PROGRAM DESCRIPTION			
	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
<u>Research Time</u>			
Total Research time			
Clinical	<u>25%</u>	<u>45%</u>	
Laboratory	<u>25%</u>	<u>40%</u>	<u>50%</u>
<u>Direct Patient Care</u>			
Total Clinical Time			
Endocrine	<u>20%</u>	<u>10%</u>	<u>10%</u>
Infertility	<u>30%</u>	<u>5%</u>	<u>40%</u>
Obstetrics/Gynecology	<u>0%</u>	<u>0%</u>	<u>0%</u>
<u>Surgical Procedures</u>			
Diagnostic/Operative			
Laparoscopies	<u>25</u>	<u>3</u>	<u>86</u>
Hysteroscopies	<u>30</u>	<u>8</u>	<u>108</u>
Assisted Reproduction			
Laparotomies	<u>85</u>	<u>5</u>	<u>268</u>
	<u>15</u>	<u>2</u>	<u>15</u>
GRADUATE LEVEL COURSES			
Mandatory (M), Recommended (R), Offered (O)			
	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
Statistics/Epidemiology	M	O	O
Research Methodology	R	R	O
Genetics/Molecular Biology	M	R	O
Other Basic Science	O	R	R
Other Clinical Course	O	O	O

UC San Francisco

Faculty

* = Full Time ** = Other

Reproductive Endocrinology & Infertility

Areas of Special Interest

*Marcelle I. Cedars, M.D.
(REI Division Director, Fellowship Director)
*Hakan Cakmak, M.D.
*Victor Y. Fujimoto, M.D.
*Heather Huddleston, M.D.
*Evelyn Mok-Lin, M.D.
*Paolo Rinaudo, M.D., Ph.D.
*Mitchell Rosen, M.D.
*James Smith, M.D.
*Nam Tran, M.D., Ph.D.

Polycystic ovary syndrome, ovarian aging

Oocyte maturation
Ethnic variation in infertility, environment & infertility
Polycystic ovary syndrome
Endometriosis
IVF, embryonic effects and genomic imprinting
Fertility preservation, folliculogenesis
Andrology, genetics of male infertility
Stem cell biology, germ cell derivation

*Linda Guidice, M.D., Ph.D., MS.c
*Marco Conti, M.D.
**Robert Belloch, M.D., Ph. D.
**Susan Fisher, Ph.D.
**Diana Laird, Ph.D.
**Synthia H. Mellon, Ph.D.
** Walter Miller, M.D.
**Lauri Pasch, Ph.D

Endometriosis, implantation
Germ cell terminal differentiation and mechanisms of ovulation
Stem cells, epigenetics and cancer
Human trophoblast invasion, implantation
Germ cell biology – development of the somatic cell niche
Neurosteroids, steroid hormone metabolism
Adrenarache, steroid hormone metabolism
Research Clinical Psychologist; phycho-social implications of reproductive health care

REPRODUCTIVE ENDOCRINOLOGY AND INFERTILITY CLINICAL FELLOWSHIP TRAINING PROGRAM UNIVERSITY OF CALIFORNIA, SAN FRANCISCO

INFORMATION FOR THE APPLICANTS

The UCSF Reproductive Endocrinology and Infertility (REI) Fellowship Program is a three-year training program designed to include clinical experience in reproductive endocrinology, advanced reproductive technology, reproductive surgery, and formal coursework and seminars, as well as an investigative program in reproductive medicine with emphasis on interdisciplinary and translational training and research. While UCSF has always had strength in molecular biology and reproductive physiology, the REI division and fellowship span the breath of REI training from basic, to translational, to clinical, to epidemiological. The focus is on training academic physicians who can participate, and lead, *interdisciplinary* translational and clinical research. Two research “tracks” are available to the REI fellows: 1) basic science research track, and 2) a clinical investigative track. However, fairly uniquely at UCSF, while fellows will focus their two-year research experience in one primary type of research, they are expected to complete both a basic science and clinical project in the same topical area. This plan encourages an in-depth reading, and understanding, of the literature and the application of the two skill-sets in an interactive translational format. This will uniquely develop a graduate with the expertise needed to compete in a changing research environment. The strong relationship between the bench and clinical researchers at UCSF has enabled this unique form of training enhancing productivity and the developing role of the clinician scientist. The UCSF Pathways to Discovery Program is a unique program open to all UCSF professional students, residents, fellows, and postdoctoral researchers. Five pathways were established in 2008, with the goal of facilitating motivated learners in developing the knowledge, skills, and experience to contribute to health beyond the care of individual patients. The pathways include: Clinical and Translational Research; Global Health; Health and Society; Health Professions Education; and Molecular Medicine.

A large number of patients are seen with a wide variety of endocrine, infertility, and genetic problems. These include amenorrhea, anovulatory bleeding, endometriosis, hirsutism, intersex problems, pituitary tumors, thyroid disorders, female infertility, recurrent pregnancy loss, adrenal disorders, and related dysfunctions. Fellows participate in clinical activities at UCSF and San Francisco General Hospital. Fellows also spend 6 months in the pediatric endocrinology clinics and unique to UCSF are involved in the multi-disciplinary PCOS clinic, fertility preservation program, and participation in a delivery of low-cost, low-complexity IVF to underserved women. Additionally, due to the multi-disciplinary nature of the practice at UCSF, fellows have exposure to and actively participate in reproductive urology and male reproductive health, psychology and genetic evaluation/counseling. There is also the opportunity to obtain a High Complexity Lab Director (HCLD) certification if desired.

UNIVERSITY OF CINCINNATI

Program Director: Michael A. Thomas, M.D. Mailing Address: Univ. of Cincinnati Medical Center P.O. Box 670526 Cincinnati, OH 45267-0526 Telephone: (513)475-7657 FAX: (513)475-7601 Email: michael.thomas@uc.edu amanda.pack@uc.edu Website: www.ucfertility.com	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">2014 1st Year Positions</td> <td style="text-align: right;">1</td> </tr> <tr> <td>Most recent year of Program Certification (Recertification)</td> <td style="text-align: right;">2010</td> </tr> </table> <hr/> FACULTY APPOINTMENT 1st year: Clinical Instructor 2nd year: Clinical Instructor 3rd year: Clinical Instructor	2014 1st Year Positions	1	Most recent year of Program Certification (Recertification)	2010
2014 1st Year Positions	1				
Most recent year of Program Certification (Recertification)	2010				

Program Length:	3 years	Fellowship Application Deadline:	Jul-1
3 yr conversion start date:	1995		
Prerequisites:	Residency in Ob/Gyn		
Salary 1st Year:	\$53,912.00		
Number of fellows trained within the past 5 years			5
How many of them are currently in academic positions?			3

PROGRAM DESCRIPTION	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
<u>Research Time</u>			
Total Research time	<u>10%</u>	<u>50%</u>	<u>90%</u>
Clinical	<u>80%</u>	<u>20%</u>	<u>0%</u>
Laboratory	<u>20%</u>	<u>80%</u>	<u>100%</u>
<u>Direct Patient Care</u>			
Total Clinical Time	<u>90%</u>	<u>50%</u>	<u>10%</u>
Endocrine	<u>50%</u>	<u>25%</u>	<u>60%</u>
Infertility	<u>50%</u>	<u>75%</u>	<u>40%</u>
Obstetrics/Gynecology	<u>0%</u>	<u>0%</u>	<u>0%</u>
<u>Surgical Procedures</u>			
<u>Diagnostic/Operative</u>			
Laparoscopies	<u>100</u>	<u>50</u>	<u>25</u>
Hysteroscopies	<u>50</u>	<u>30</u>	<u>10</u>
<u>Assisted Reproduction</u>			
Laparotomies	<u>15</u>	<u>10</u>	<u>12</u>

GRADUATE LEVEL COURSES			
Mandatory (M), Recommended (R), Offered (O)			
	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
Statistics/Epidemiology	O	O	O
Research Methodology	O	O	O
Genetics/Molecular Biology	O	O	O
Other Basic Science	O	O	O
Other Clinical Course	O	O	O
Excellence in Women's Health Course	R	O	O

UNIVERSITY OF CINCINNATI

FACULTY

* = Full Time

** = Other

Reproductive Endocrinology/Infertility

Areas of Special Interest

*Kenneth Clark, Ph.D.
Professor, Ob/Gyn

Hormonal Regulation of Coronary Uterine,
Blood Flow in the Sheep Model

*SK Dey, Ph.D.
Professor, Pediatrics, Cancer and Cell Biology
Director, Division of Reproductive Sciences

Molecular Road Map to Embryo Uterine
Interactions During Pregnancy

*Krystene DiPaola, M.D.
Assistant Professor, Ob/Gyn - REI

Cross-Talk Between the Endo Pathways
and DNA Damage Check-Point Pathways
in Breast Cancer, ART

*Sanjoy Das, PhD
Professor,
Department of Pediatrics, University of Cincinnati,
Division of Reproductive Sciences,
Cincinnati Children's Hospital Medical Center

Molecular Aspects for Decidualization in Implantation
Nongenomic Actions of Natural Estrogen and Xenoestrogens
in the Uterus

*Shuk-mei Ho, Ph.D.
Director of Academic Medicine, Environmental Health

DNA Methylation of Hormone Receptor
Genes in PCOS

*Randy J. Seeley, Ph.D.
Donald C. Harrison Endowed Professor in Medicine
Director, Cincinnati Diabetes and Obesity Center

Neuroendocrine aspects of obesity and diabetes and
developing new therapies for these diseases

*Julie Sroga, M.D.
Assistant Professor, Ob/Gyn - REI

PCOS, implantation and decidualization
Oncofertility

*Michael A. Thomas, M.D.
Professor, Director of REI Division
Director of REI Fellowship Program

The Effects of Stress on Reproductive
Hormones, Hormonal Contraception

BRIEF DESCRIPTION OF PROGRAM WITH TEACHING ACTIVITIES DISCUSSED

The major goal of our three-year fellowship program in Reproductive Endocrinology and Infertility is to provide advanced training in both the clinical aspects of RE and pathophysiology of mammalian reproduction. Basic instruction in the physiologic principles of hormone action is combined with clinical instruction involving the pathophysiology of disorders of human reproductive function to provide a fellowship experience with sufficient depth for development of competent and complete endocrine and infertility specialists. Areas in which the fellow can have "hands-on" research experience include RIA, EIA, cell culture techniques, receptor binding, embryo culture, PCR, Western, Southern, and Northern blots. Fellows will participate in conferences/lectures occurring on a regular basis in both clinical and basic science research, reproductive surgery (robotic and non-robotic), and in the writing of grant proposals aimed at initiating fellows into productive academic/investigative careers in reproductive endocrinology. During the last 18 months of training, the fellow will expand and further develop research projects and hone grant writing skills. It is anticipated that these endeavors will serve as a sound base for submission of extramural grant applications prior to completion of fellowship training. First year fellows are expected to apply for the SREI/University of Pennsylvania T32 training grant. Third year

UNIVERSITY OF COLORADO DENVER

Program Director: Alex Polotsky, MD, MSc Associate Director: Mailing Address: University of Colorado Denver Section of REI, Dept of Ob-Gyn 12631 E. 17th Ave, Rm 4411, MS B198-6 Aurora, CO 80045 Telephone: (303) 724-2014 FAX: (303) 724-2055 Email: fellowships.obgyn@ucdenver.edu Website: www.arm.coloradowomenshealth.com	2013 1st yr positions 1 Most recent year of Program Certification (Recertification) 2012
FACULTY APPOINTMENT	
1st year: Instructor fellow 2nd year: Instructor fellow 3rd year: Instructor fellow	

Program Length: 3 years	Fellowship Application
3 yr conversion start date: N/A	Deadline: Jun-1
Prerequisites: ABOG approved Ob-Gyn residency	
Salary 1st Year: \$59,014.00	
Number of fellows trained within the past 5 years	New Program
How many of them are currently in academic positions?	N/A

PROGRAM DESCRIPTION

	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
<u>Research Time</u>			
Total Research time	20%	90%	60%
Clinical	<u>100%</u>	<u>30%</u>	<u>40%</u>
Laboratory	<u>0%</u>	<u>70% (varies depends on project)</u>	<u>60% (varies depends on project)</u>
<u>Direct Patient Care</u>			
Total Clinical Time	80%	10%	40%
Endocrine	<u>55%</u>	<u>50%</u>	40%
Infertility	<u>45%</u>	<u>50%</u>	60%
Obstetrics/Gynecology	<u>0%</u>	<u>0%</u>	0%
<u>Surgical Procedures</u>			
Diagnostic/Operative			
Laparoscopies	<u>40</u>	<u>5</u>	10
Hysteroscopies	<u>55</u>	<u>10</u>	12
Assisted Reproduction	75	25	35
Laparotomies	<u>10</u>	<u>2</u>	2

GRADUATE LEVEL COURSES

	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
Mandatory (M), Recommended (R), Offered (O)			
Statistics/Epidemiology	O	M	O
Research Methodology	O	O	O
Genetics/Molecular Biology		M	
Other Basic Science	O	O	O
Other Clinical Course	O	O	O

UNIVERSITY OF COLORADO DENVER

FACULTY

* = Full Time

** = Other

Reproductive Endocrinology/Infertility

*Ruben J. Alvero, M.D.
Associate Professor
Department of Obstetrics and Gynecology

**Patricia M. McShane, M.D.
Assistant Professor
Department of Obstetrics and Gynecology

*Shona C. Murray, M.D.
Assistant Professor
Department of Obstetrics and Gynecology

*Alex Polotsky, M.D., M.Sc.
Assistant Professor
Department of Obstetrics and Gynecology

*Nanette Santoro, M.D.
Professor and Chair
Department of Obstetrics and Gynecology

*Laxmi Kondapalli, M.D.
Assistant Professor
Department of Obstetrics and Gynecology

*Shunping Wang, Ph.D.
IVF Laboratory Director
Department of Obstetrics and Gynecology

*James McManaman, Ph.D.
Professor
Department of Obstetrics and Gynecology

*Andy Bradford, Ph.D.
Associate Professor
Department of Obstetrics and Gynecology

**Lynn Blyth, Ph.D.
Assistant Clinical Professor
Department of Obstetrics and Gynecology

**Joan Manheimer, Ph.D.
Assistant Clinical Professor
Department of Obstetrics and Gynecology

*Stephanie Teal, M.D., M.P.H.
Associate Professor
Department of Obstetrics and Gynecology

*Randall Meacham, M.D.
Professor and Chief
Department of Surgery

*Michael McDermott, M.D.
Professor
Division of Endocrinology and Metabolism

*Margaret Wierman, M.D.
Professor
Division of Endocrinology and Metabolism

*Phil Zeitler, M.D.
Associate Professor
Division of Pediatric Endocrinology

Sharon Travers, M.D.
Associate Professor
Division of Pediatric Endocrinology

Julia Drose, BA, ARDMS
Associate Professor
Department of Radiology

Areas of Special Interest

PCOS, IVF

Clinical REI, IVF, Fertility preservation

Clinical REI, IVF

Obesity, ART outcomes, reproductive epidemiology,
non-human primate models of human disease

Menopause, perimenopause, menstrual disorders,
reproductive neuroendocrinology

Fertility preservation

Stem cell biology

Molecular regulators of lipid accumulation,
obesity, mammary gland development

Hormone/growth factor signaling

Clinical psychology

Clinical psychology

Contraception

Male infertility, microsurgery

Medical endocrinology, thyroid

Medical endocrinology, basic reproductive
endocrinology, neuroendocrinology

Pediatric endocrinology

Pediatric endocrinology

Clinical ultrasound

BRIEF DESCRIPTION OF PROGRAM WITH TEACHING ACTIVITIES DISCUSSED

The University of Colorado's Fellowship in Reproductive Endocrinology is designed to provide a balanced educational experience for all fellows. The structure of this fellowship program emphasizes diverse opportunity and maximum flexibility to accommodate the interests and needs of each fellow. There is formal educational experience in associated disciplines such as medical endocrinology, pediatric endocrinology, male infertility and microsurgery, and ultrasonography. Fellows will have extensive and supervised experience in the broad clinical practice of reproductive endocrinology and infertility.

The fellowship also provides a graduated and structured research experience which has the potential to be either in clinical or basic science areas. Formal and ongoing research mentorship is provided by both reproductive endocrinologists in the Division as well as basic scientists in the Division of Basic Reproductive Science in our Department. Structural didactic conferences including REI case conferences are held on a weekly basis, and the fellow's schedules in all years will prioritize these conferences over service responsibilities. The first year of fellowship will focus on clinical experience in reproductive endocrinology as well as associated disciplines such as medical endocrinology. Fellows will be exposed to research conferences and will participate in ongoing dialogue to help develop a research thesis. Fellows will develop their own continuity clinic beginning in the first year and will follow a cohort of patients in their continuity clinic throughout all three years of fellowship. The second year will be 90% protected for research with the anticipation that the fellow will complete much of the work required for the thesis project during this year. In the second year formal courses are required in biostatistics as well as molecular biology; additional courses are available to fellows depending on their customized program. The third year will include 60% protected time which may be used to promote the research goals of the fellow. The final six months of

UNIVERSITY OF CONNECTICUT

Program Director: John C. Nulsen, M.D. Mailing Address: University of Connecticut Ctr for Advanced Reproductive Services 263 Farmington Avenue Farmington, CT 06030-6224 Telephone: (860) 679-4363 FAX: (860) 679-1228 Email: brancatimoynihnan@uchc.edu Website: http://gme.uchc.edu/programs/reproductiveendo/	2013 1st yr positions 1 Most recent year of Program Certification 2009 (Recertification)
FACULTY APPOINTMENT	
1st year: Instructor 2nd year: Instructor 3rd year: Instructor	

Program Length:	3 years	
3 yr conversion start date:	1997	Fellowship Application
Prerequisites:	Approved OB/GYN Residency Pass USMLE Step 3 Do not accept H-1 visas	Deadline: Jun-30
Salary 1st Year:	\$66,400	
Number of fellows trained within the past 5 years	5	
How many of them are currently in academic positions?	2	

PROGRAM DESCRIPTION	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
<u>Research Time</u>			
Total Research time	<u>10%</u>	<u>85%</u>	<u>65%</u>
Clinical	<u>10%</u>	<u>10%</u>	<u>15%</u>
Laboratory	<u>0%</u>	<u>75%</u>	<u>50%</u>
<u>Direct Patient Care</u>			
Total Clinical Time	<u>90%</u>	<u>15%</u>	<u>35%</u>
Endocrine	<u>30%</u>	<u>5%</u>	<u>20%</u>
Infertility	<u>60%</u>	<u>10%</u>	<u>15%</u>
Obstetrics/Gynecology	<u>0%</u>	<u>0%</u>	<u>0%</u>
<u>Surgical Procedures</u>			
Diagnostic/Operative			
Laparoscopies	<u>130</u>	<u>22</u>	<u>35</u>
Hysteroscopies	<u>160</u>	<u>22</u>	<u>26</u>
Assisted Reproduction	<u>70</u>	<u>5</u>	<u>67</u>
Laparotomies	<u>3</u>	<u>2</u>	<u>4</u>

GRADUATE LEVEL COURSES			
Mandatory (M), Recommended (R), Offered (O)			
	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
Statistics/Epidemiology	M		
Research Methodology	O	R	
Genetics/Molecular Biology	O	R	
Other Basic Science	O		
Other Clinical Course	O		
Masters in Clinical & Translational Research	O	R	R

UNIVERSITY OF CONNECTICUT

FACULTY

* = Full Time

** = Other

Faculty Member

*Claudio Benadiva, M.D.
*Andrea DiLuigi, M.D.
* Lawrence Engmann, M.D.

*Stanton Honig, M.D.
*Mary Casey Jacob, Ph.D.
**Anthony A. Luciano, M.D.
**Lisa Mehlmann, Ph.D.

**Marc Lalonde, Ph.D.
* John C. Nulsen, M.D.

**John J. Peluso, Ph.D.
**Karen Rubin, M.D.
**Melinda Sanders, M.D.
*David Schmidt, M.D.
**Pam Taxel, M.D.
**Peter Benn, PhD.
**Alicia Craffey, M.S.

Areas of Special Interest

IVF, PGD, oocyte cryopreservation, endoscopic surgery
IVF, oocyte donation, PCOS
Endoscopic surgery, stimulation protocols, OHSS prevention
Oncofertility
Male Infertility
Psychology of Pain, Infertility, Menopause
Reproductive Surgery, Menopause, Endometriosis
Signal transduction pathways regulating oocyte maturation and fertilization
Stem cell research
IVF, Donor Egg, Ovulation Induction, PGD, Fertility Preservation
Oncofertility
Ovarian Function, Fertilization
Pediatric and Adolescent Reproductive Endocrinology
Endometrial Pathology, Pathology of Pregnancy Loss
IVF, Ovulation Induction, Robotic Endoscopic Surgery
Medical Endocrinology and Osteoporosis
Genetics
Genetic Counselling

BRIEF DESCRIPTION OF PROGRAM WITH TEACHING ACTIVITIES DISCUSSED

Eighteen months of the fellowship are devoted to clinical activities in the reproductive endocrinology and infertility offices. Additionally, during these 18 months, the fellow spends time in the subspecialty clinics, including Urology (male factor evaluation and treatment), Medical Endocrinology and Osteoporosis, Human Genetics and the Clinic for Adolescent Gynecology where the fellow gains exposure to prepubescent children and adolescent women with disorders of sexual development, growth disturbances and various endocrinopathies. The clinical fellow also rotates through the embryology, andrology and endocrine labs completing a hands on curriculum. The remaining eighteen months of the fellowship are protected research time usually spent in a basic science laboratory.

Fellows have the opportunity to participate in the Clinical and Translational Research Masters level program if desired. The REI program has a very active clinical service that presents excellent opportunities for fellowship training. In 2012, there were about 1350 new patient visits. There were a total of 1200 IVF cycles and 1250 IUI cycles. There were 300 surgical procedures including 30 robotic laparoscopic procedures. Our excellent outpatient facility houses all clinical, lab, IVF retrieval and transfer facilities.

Most teaching results from the close working relationship between the fellows and attendings. This is complemented by numerous didactic experiences, such as divisional journal clubs, reviews, with attendings, of chapters from standard textbooks, and weekly reproductive endocrinology and infertility seminars.

Basic research opportunities exist in the areas of oocyte maturation, ovarian function, fertilization, and stem cell research. Most clinical research has centered on IVF stimulation protocols and approaches, which lead to higher pregnancy rates with lower multiple rates (efficient embryo freezing, improved embryo selection methods, limiting the number of embryos to transfer, etc). An additional area of clinical research involves stimulation protocols for the prevention of OHSS, which the program's physicians have pioneered. At the completion of the fellowship, graduating fellows have 3-5 accepted, peer-reviewed publications. Fellows have minimal responsibilities outside the REI activities.

The strengths of the clinical program include the close relationship with the attending physicians, the active and varied clinical service, access to a specialized adolescent population, the large IVF program, the close relationship between the IVF lab and the clinical staff, and varied opportunities for both clinical and basic science research.

The suburban location of the program and the large referral base provides access to a large patient population without the potential problems of most urban settings. At the completion of the program, fellows will be exceptionally well trained in all clinical REI procedures and will be able to provide compassionate care to patients with infertility and endocrinopathies.

UNIVERSITY OF ILLINOIS AT CHICAGO

<p>Program Director: A. Musa Zamah, MD, PhD Mailing Address: 820 S. Wood Street, M/C 808 Chicago, IL 60612</p> <p>Telephone: 312-355-0458 FAX: 312-996-4238 Email: mzamah@uic.edu</p> <p>Website: www.obgyn.uic.edu</p>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">2016 1st yr positions</td> <td style="text-align: right;">1</td> </tr> <tr> <td>Most recent year of Program Certification (Recertification)</td> <td style="text-align: right;">2016</td> </tr> </table> <hr/> <p>FACULTY APPOINTMENT</p> <p>1st year: Clinical Instructor 2nd year: Clinical Instructor 3rd year: Clinical Instructor</p>	2016 1st yr positions	1	Most recent year of Program Certification (Recertification)	2016
2016 1st yr positions	1				
Most recent year of Program Certification (Recertification)	2016				

<p>Program Length: 3 years 3 yr conversion start date: N/A Prerequisites: ABOG approved Residency in OB/GYN Salary 1st Year: \$60,900</p>	<p>Fellowship Application Deadline: 8/1/2016</p>
<p>Number of fellows trained within the past 5 years How many of them are currently in academic positions?</p>	<p>N/A</p>

PROGRAM DESCRIPTION	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
<u>Research Time</u>			
Total Research time	30%	90%	15%
Clinical	15%	45%	5%
Laboratory	15%	45%	10%
<u>Direct Patient Care</u>			
Total Clinical Time	70%	10%	85%
Endocrine	20%	2.5%	20%
Infertility	45%	2.5%	60%
Obstetrics/Gynecology	5%	5%	5%
<u>Surgical Procedures</u>			
Diagnostic/Operative			
Laparoscopies	30	0	30
Hysteroscopies	70	0	35
Assisted Reproduction	50	0	100
Laparotomies	15	0	10

GRADUATE LEVEL COURSES			
Mandatory (M), Recommended (R), Offered (O)			
	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
Statistics/Epidemiology/Research Methodology		M	
Research Methodology	M	O	
Genetics/Molecular Biology		O	
Other Basic Science		O	
Other Clinical Course	M		O

UNIVERSITY OF ILLINOIS AT CHICAGO

FACULTY

* = Full Time

** = Other

Reproductive Endocrinology/Infertility:

Areas of Special Interest

* A. Musa Zamah, MD, PhD

Reproductive Endocrinology

*Mary D. Stephenson, MD, MSc

Recurrent Pregnancy Loss

*Humberto Scoccia, MD

Reproductive Surgery and Fertility
Preservation, Fertility Drugs and Cancer

*Albert Asante, MD, MPH

Gynecologic and Early Obstetric
Ultrasound, PCOS

Other Specialties:

**Carlos Stocco, PhD

Reproductive and Ovarian
Function

**Joanna Burdette, PhD

Reproductive Biology

**Martha Daviglius, MD, PhD

Gender and Ethnic Health
disparities

**Gail Prins, PhD

Andrology and Reproductive
Biology

**Dimitrios Mastrogianis, MD, PhD, MBA

Early Pregnancy

**Claudia Boucher-Berry, MD

Pediatric Endocrinology

**George Hoganson, MD

Pediatric Genetics

**Subhash Kukreja, MD

Medical Endocrinology

**Valerie Lindgren, PhD

Cytogenetics

**Craig Niederberger, MD

Male Infertility

**Nicola Winston, PhD

Embryology

**Laura M. DiGiovanni, MD

Medical Ethics

BRIEF DESCRIPTION OF PROGRAM WITH TEACHING ACTIVITIES DISCUSSED

The University of Illinois at Chicago's three year Fellowship in Reproductive Endocrinology and Infertility is structured to develop clinician-scientists in the field of Reproductive Endocrinology and Infertility and designed to meet the educational goals listed in ABOG's "Guide to Learning in Reproductive Endocrinology and Infertility." The aim of the program is to develop academicians who are prepared to conduct research, teach and provide high quality subspecialty care. The overall educational goals of our program are to train subspecialists in Reproductive Endocrinology and Infertility to provide consultation and/or comprehensive care for women with complex problems related to REI. They will acquire advanced knowledge of the most current diagnostic and therapeutic approaches available in the subspecialty. The REI subspecialist will have knowledge of endocrine and fertility problems in both female and male patients, and will be able to function effectively in the areas of basic and applied investigation in REI.

In addition, our goal is to train academicians and leaders who will have an impact in the field by contributing to and advancing the subspecialty through efforts in teaching and research. The didactic lectures, educational opportunities and research will teach fellows to use statistical, epidemiological and laboratory techniques. The fellowship offers 12 months of clinical activities, 18 months of protected research time and 6 months of clinical or research electives.

Year 1 of our training program focuses on clinical training with emphasis on mentored patient care. The majority of time will be spent at UIC's Fertility Center. Our program features a unique emphasis on early pregnancy physiology including recurrent pregnancy loss and early pregnancy ultrasound. The latter months of Year 1 and most of Year 2 of our training program focuses on research. In addition to mandatory courses covering topics such as experimental design, research methods and biostatistics, fellows have the opportunity to augment their research experience with additional graduate level courses in biology or other basic sciences as appropriate. To promote a strong clinical foundation, our fellows will also complete rotations with Adult Medical Endocrinology, Pediatric Endocrinology, Medical Genetics and Cytogenetics and Reproductive Urology. Year 3 will focus on refining clinical skills including assisted reproductive technology techniques and skills. Additional experience will be gained through time spent in the Andrology lab and ART laboratory. Increasing responsibility

UNIVERSITY OF IOWA			
Program Director:	BRAD VAN VOORHIS, M.D.	2014 1st yr positions	1
Mailing Address:	UNIVERSITY OF IOWA HOSPITALS AND CLINICS DEPT. OF OB/GYN, 31340 PFP IOWA CITY, IA 52246	Most recent year of Program Certification (Recertification)	2010
Telephone:	(319) 356-4536	FACULTY APPOINTMENT	
FAX:	(319) 384-9367	1st year:	FELLOW I
Email:	brad-van-voorhis@uiowa.edu	2nd year:	FELLOW II
Website:	www.uihealthcare.org/infertility	3rd year:	FELLOW III
Program Length:	3 YEARS		
3 yr conversion start date:	N/A		
Prerequisites:	MEDICAL DEGREE, ANTICIPATED - COMPLETION OF OB/GYN RESIDENCY		
Salary 1st Year:	\$59,000 (2012-2013)		
Number of fellows trained within the past 5 years	6 Fellows		
How many of them are currently in academic positions?	1 (2 Fellows Currently in Training)		
PROGRAM DESCRIPTION			
	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
<u>Research Time</u>			
Total Research time	25%	100%	25%
Clinical			
Laboratory			
<u>Direct Patient Care</u>			
Total Clinical Time	75%	0%	75%
Endocrine	50%		50%
Infertility	50%		50%
Obstetrics/Gynecology	0		0%
<u>Surgical Procedures</u>			
<u>Diagnostic/Operative</u>			
Laparoscopies	~110		~110
Hysteroscopies	~100		~100
Assisted Reproduction	~300/year		~300/year
Laparotomies	~45		~45
GRADUATE LEVEL COURSES			
	Mandatory (M)	Recommended (R)	Offered (O)
	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
Statistics/Epidemiology		171:161 Introduction to Biostatistics (O) 171:241 Statistical Methods In Epidemiology (O) 173:140 Epidemiology I: Principles (O)	
Research Methodology		174:221 Evaluation and Outcomes in Health Care (O) 171:162 Design and Analysis of Experiments in the Biomedical Sciences (O)	
Genetics/Molecular Biology		127:191 Human Molecular Genetics (O) 173:225 Genetics and Epidemiology (O) 072:209 Receptors and Signal Introduction (O)	
Other Clinical Course		Excellence in Faculty Development (O)	

University of Iowa

FACULTY

* = Full Time

** = Other

Reproductive Endocrinology/Infertility

Brad Van Voorhis, M.D. *

Craig H. Syrop, M.D. **

William A. Davis, M.D. *

Ginny L. Ryan M.D. *

E. Hakan Duran, MD*

Divya Shah, M.D.*

Paul Figge, M.D.*

Areas of Special Interest

Infertility-cost effective care
Reproductive Endocrinology
Benign Uterine Conditions-polyps, fibroids
Single-Embryo Transfer

Assisted Reproductive Technology
Saline Infusion Sonography

Polycystic Ovarian Syndrome
Ovulation Induction
Hypothalamic Hypofunction Evaluation

Infertility Treatment Outcomes
Ethics in Reproductive Medicine
Surgical Treatment of Endometriosis
Adolescent Gynecology

Male Infertility
Obesity and Reproduction

Obesity and Reproduction
Robotic Surgery
Education

General Infertility

BRIEF DESCRIPTION OF PROGRAM WITH TEACHING ACTIVITIES DISCUSSED

The Fellowship Program follows the educational objectives in the *Guide to Learning in Reproductive Endocrinology and Infertility*. We have a strong emphasis in clinical and reproductive endocrinology, infertility management including IVF, ultrasound evaluation of gynecological disorders and endoscopic surgery. Because we serve as a referral center for all of eastern Iowa, western Illinois, and northern Missouri, we have many interesting and unusual cases including mullerian anomalies, primary amenorrhea patients and difficult surgical cases. As such, we offer fellows the educational opportunity of seeing the full breadth of our subspecialty. We also are dedicated to providing fellows excellent research opportunities in both basic science and clinical investigation. Publishing a thesis paper will be the first priority of our fellows. We expect our fellows to become strong researchers and clinicians.

UNIVERSITY OF LOUISVILLE

Program Director: Kelly Pagidas, MD Mailing Address: University of Louisville Dept. of OB/GYN & Women's Health Ambulatory Care Building, 1st Floor 550 S. Jackson Street Louisville, KY 40202 Telephone: (502) 561-7482 FAX: (502) 561-7476 Email: kelly.pagidas@louisville.edu dana.lamon@louisville.edu Website: http://louisville.edu/medicine/departments/obgyn/	2017 1st yr positions 1 Most recent year of Program Certification 2015 (Recertification On Probation)
FACULTY APPOINTMENT	
1st year: Instructor 2nd year: Instructor 3rd year: Instructor	

Program Length:	3 years	
3 yr conversion start date:	1998	Fellowship Application
Prerequisites:	Approved Residency in OB/GYN	Deadline: Jul-01
Salary 1st Year:	\$55,000-\$60,000	
Number of fellows trained within the past 5 years	12	
How many of them are currently in academic positions?	1	

PROGRAM DESCRIPTION	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
<u>Research Time</u>			
Total Research time	10%	90%	50%
Clinical	100.00%	20.00%	20.00%
Laboratory	0%	80.00%	30.00%
<u>Direct Patient Care</u>			
Total Clinical Time	90%	10%	50%
Endocrine	25.00%	90.00%	25.00%
Infertility	75.00%	10.00%	75.00%
Obstetrics/Gynecology	0.00%	0.00%	0.00%
<u>Surgical Procedures</u>			
Diagnostic/Operative			
Laparoscopies			
Hysteroscopies			
Assisted Reproduction			
Laparotomies			

GRADUATE LEVEL COURSES			
Mandatory (M), Recommended (R), Offered (O)			
	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
Statistics/Epidemiology	O	M	O
Research Methodology	O	R	O
Genetics/Molecular Biology	O	O	O
Other Basic Science	O	O	O
Other Clinical Course	O	O	O

UNIVERSITY OF LOUISVILLE

FACULTY

* = Full Time

** = Other

Reproductive Endocrinology/Infertility

*Kelly Pagidas, MD
*Henry C.L. Bohler, M.D.
**Christine L. Cook, M.D.
*Zhenmin Lei, Ph.D.
**Marvin A. Yussman, M.D.

Areas of Special Interest

ART, Reproductive Endocrinology, Ultrasound, PCOS
ART, Reproductive Endocrinology, Ultrasound, PCOS
PCOS, Fertility Preservation, Menopausal Physiology
Basic Science Research, Cell/Molecular Biology Techniques
Reproductive Surgery, Menopause

Supporting Faculty

Michael B. Foster, M.D.
Jeremy Thomas Gaskins, Ph.D.
Kara M. Goodwin, M.D.
Maria Koutourousiou, M.D.
Amanda Jo LeBlanc, Ph.D.
James J. Miller, Ph.D.
Resad Pasic, M.D. , Ph.D.
Shan Biscette, M.D.
Christopher Gerard Schrepferman, M.D.
Brittany Schulz, M.D.
Kira Taylor, Ph.D., M.S.
Stephen J. Winters, M.D.

Pediatric Endocrinology
Bioinformatics and Biostatics
Clinical and Metabolic Genetics
Department of Neurosurgery
Physiology and Biophysics
Biochemistry and Toxicology
Minimally Invasive Gynecologic Surgery
Minimally Invasive Gynecologic Surgery
Urology/Male Infertility
Department of Radiology
Department of Epidemiology and Public Health
Department of Endocrinology

BRIEF DESCRIPTION OF PROGRAM WITH TEACHING ACTIVITIES DISCUSSED

Our three-year Fellowship Training Program provides an intense educational experience for both the clinical and research aspects of the specialty. The division's outpatient clinic has 400 new patients and 5,000 follow-up visits annually, covering infertility, ART, and surgical aspects of the subspecialty. Utilizing the "Guide to Learning in Reproductive Endocrinology" of the American Board of Obstetrics and Gynecology, organized didactic sessions are incorporated into the clinical and research aspects of the program.

Established in 1984, the ART program has maintained an excellent ongoing pregnancy rate. The ART Fertility Center offers the full spectrum of ART technologies. The REI Division has extensive research facilities for a number of projects germane to the specialty. Additional research collaborations are available with other faculty members in the other divisions and departments within the University of Louisville School Of Medicine. These clinical and basic science opportunities provide a well-coordinated educational experience.

UNIVERSITY OF MICHIGAN

Program Director: John F. Randolph, Jr. Mailing Address: University of Michigan 1500 E. Medical Center Dr., L4510 Women's Hospital Ann Arbor, MI 48109 Telephone: 734-615-3773 FAX: 734-232-6020 Email: pengel@umich.edu Website: _____	2012 1st yr positions 1 Most recent year of Program Certification (Recertification) 2011		
FACULTY APPOINTMENT			
1st year: None 2nd year: None 3rd year: None			
Program Length: 3 years 3 yr conversion start date: n/a Prerequisites: OB/GYN Residency Salary 1st Year: \$63,337.00+ Number of fellows trained within the past 5 years 7 (First graduate June 30, 2006) How many of them are currently in academic positions 1			
Fellowship Application Deadline: July 1st, 2015			
PROGRAM DESCRIPTION			
	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
Research Time			
Total Research time	10%	80%	60%
Clinical			
Laboratory			
Direct Patient Care			
Total Clinical Time	90%	20%	40%
Endocrine	15%	5%	20%
Infertility	75%	15%	20%
Obstetrics/Gynecology	0%	0%	0%
Surgical Procedures			
Diagnostic/Operative			
Laparoscopies	31	21	17
Hysteroscopies	53	28	33
Assisted Reproduction	122	167	160
Laparotomies	7	4	0
GRADUATE LEVEL COURSES			
Mandatory (M), Recommended (R), Offered (O)			
	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
Statistics/Epidemiology		Clinical Option - Epidemiology and Biostats (M)	
Research Methodology		Basic Option - Biostats (M)	
Genetics/Molecular Biology		Basic Option - Molecular Biology (M)	Mammalian Reproductive Endocrinology (O)
Other Basic Science			
Other Clinical Course			

FACULTY

* = Full Time

** = Other

Reproductive Endocrinology/Infertility

John F. Randolph, Jr., M.D., Professor OB/GYN

Yolanda R. Smith, M.D., Professor OB/GYN and Associate Chair for Clinical and Health Services Research

Senait Fisseha, M.D., J.D., Associate Professor OB/GYN, Division Director of REI and Director of ART
Nastaran Foyouzi, MD, Clinical Lecturer OB/GYN

NON REI FACULTY

Gary D. Smith, Ph.D., Professor OB/GYN, Urology and Physiology

Steven E. Domino, M.D., Ph.D., Associate Professor OB/GYN and Cellular and Molecular Biology Program, Assist. Chair, Research Career Development

Dana A. Ohi, M.D., Professor of Urology, Co-PI of the U10 Cooperative Reproductive medicine network

K.M.J. Menon, Ph.D., Professor of OB/GYN and Biochemistry

Jason Swain, Ph.D., Assistant Professor of OB/GYN and Laboratory Director of ART

Areas of Special Interest

Reproductive Aging, Clinical Reproductive Endocrinology

Neurobiology of reproductive hormones, clinical Adolescent Gynecology

Reproductive Ethics and Law, Clinical ART

Genetics of premature ovarian insufficiency

Gamete physiology, cryobiology, microenvironment of gametes and stem cell biology

Glycobiology of the reproductive tract

Therapeutics of anejaculation, male infertility and erectile dysfunction

Mechanisms of gonadotropin action in the ovary

Gamete cryobiology, Clinical ART

BRIEF DESCRIPTION OF PROGRAM WITH TEACHING ACTIVITIES DISCUSSED

The Reproductive Endocrinology and Infertility Fellowship Program at the University of Michigan is designed to prepare fellows for careers in academic Reproductive Endocrinology and Infertility. It provides a progressive program of scientific inquiry, clinical competence, and didactic learning based on the educational objectives outlined by the 2004 Guide to Learning in Reproductive Endocrinology and Infertility from the American Board of Obstetrics and Gynecology. The full range of clinical, educational and investigative competencies is expected from graduates of the program, with particular emphasis on the acquisition of basic research skills by physicians who have completed training in general clinical Obstetrics and Gynecology in an ABOG approved program. The basic training structure evolves from a primarily clinical focus at the beginning of the Fellowship to a greater concentration on research later in the Program, for a total of 15-18 months devoted to research. Courses in biostatistics and either molecular biology or epidemiology are recommended.

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

Program Director: Steven L. Young, M.D., Ph.D.
Mailing Address: UNC School of Medicine
 Dept of OB/GYN
 CB #7570, 4001 Old Clinic
 Chapel Hill, NC 27599-7570
Telephone: (919) 966-5283
FAX: (919) 966-5214
Email: Steven_Young@med.unc.edu
Website:

Fellowship in 2016 1
Most recent year of Program Certification (Recertification) 2010

FACULTY APPOINTMENT

1st year: Instructor
2nd year: Instructor
3rd year: Instructor

Program Length: 3 years
3 yr conversion start date: 1998
Prerequisites: Approved Residency
Salary 1st Year: \$53,563
Fellowship Application Deadline: Jul-15
Number of fellows trained within the past 5 years 3
How many of them are currently in academic positions? 2

PROGRAM DESCRIPTION

	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
<u>Research Time</u>			
Total Research time	<u>30%</u>	<u>70%</u>	<u>30%</u>
Clinical	<u>50%</u>	<u>25%</u>	<u>70%</u>
Laboratory	<u>50%</u>	<u>75%</u>	<u>30%</u>
<u>Direct Patient Care</u>			
Total Clinical Time	<u>70%</u>	<u>30%</u>	<u>70%</u>
Endocrine	<u>25%</u>	<u>25%</u>	<u>25%</u>
Infertility	<u>75%</u>	<u>75%</u>	<u>75%</u>
Obstetrics/Gynecology	<u>0%</u>	<u>0%</u>	<u>0%</u>
<u>Surgical Procedures</u>			
Diagnostic/Operative	<u>75</u>	<u>30</u>	<u>75</u>
Laparoscopies	<u>50</u>	<u>20</u>	<u>50</u>
Hysteroscopies	<u>25</u>	<u>10</u>	<u>25</u>
Assisted Reproduction	<u>60</u>	<u>25</u>	<u>60</u>
Laparotomies	<u>20</u>	<u>10</u>	<u>20</u>

GRADUATE LEVEL COURSES

Mandatory (M), Recommended (R), Offered (O)

	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
Statistics/Epidemiology		O	
Research Methodology		O	
Genetics/Molecular Biology		O	
Other Basic Science		O	
Other Clinical Course		O	

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

FACULTY

* = Full Time

** = Other

Reproductive Endocrinology/Infertility

Areas of Special Interest

*Marc A. Fritz, M.D.

ART, Implantation, Corpus Luteum Function/
Regulation

*Steven L. Young, M.D., Ph.D.

Reproductive Immunology, Endometrium,
Endometriosis, Embryo Implantation
Ovarian Aging, Reproductive Epidemiology,
Clinical Research

*Anne Steiner, M.D., M.S.

Outcomes Research, Oncofertility

*Jennifer Mercereau, M.D., M.S.

**Carmen Williams, M.D., Ph.D.

Mullerian Development, Reproductive Toxicology,
Fertilization

**Emily Evans-Hoeker, M.D.

ART, Obesity, Clinical Research

**R. Matthew Coward, M.D.

Male Infertility, Clinical Research

** Dara Berger, Ph.D., HCLD

Embryology

BRIEF DESCRIPTION OF PROGRAM WITH TEACHING ACTIVITIES DISCUSSED

The University of North Carolina at Chapel Hill training program offers a thorough and balanced training experience in all aspects of the subspecialty and is designed to prepare graduates to be excellent, independent consultants in Reproductive Endocrinology and Infertility, whether they pursue academic or private-practice careers.

Fellowship Structure: The first nine months of training is devoted primarily to the development of clinical skills in the management of infertility and reproductive endocrinologic disorders through participation in the fellow's own clinic as well as in both pediatric endocrinology and medical endocrinology. During the next eighteen months, the focus is on formal laboratory training, basic bench research, postgraduate course work, and basically oriented clinical research activities though a small amount of clinical work is continued. The last nine months of training offer the fellow the opportunity to function as a subspecialty consultant in Reproductive Endocrinology and to complete the chosen lines of basic and clinical investigation.

Clinical Experience: A large referral base provides ample clinical experience and ongoing research activities provide opportunities for research in a wide variety of areas. As a junior faculty member, fellows have occasional night call responsibility for the benign gynecology service, with attending faculty back-up. Fellows have no obligations to the obstetrical service at any time.

Noteworthy aspects of training:

- * Fellows serve as the primary physician for their own patient population, drawn from the same patient pool as the faculty.
- * Fellows perform all subspecialty surgeries and procedures, including actual embryo transfers.
- * Fellows may pursue a Masters in Clinical Research through the Gillings School of Public Health, one of the best in the nation.
- * Clinical rotations in pediatric endocrinology and medical endocrinology help to supplement and solidify endocrine knowledge.
- * UNC is one of the only eight sites that are members of the NIH Reproductive Medicine Network, a multicenter REI clinical trials network.
- * The presence and active teaching by a subspecialty-trained expert in male fertility in the REI clinic provides significant training in male infertility.
- * Significant opportunities for bench or epidemiological research by primary faculty at UNC or collaborative faculty at the National Institute for

University of Oklahoma Health Sciences Center

Program Director: LaTasha B Craig, M.D.
Mailing Address: University of Oklahoma Health Sciences Center
 Department of Obstetrics & Gynecology
 920 Stanton L Young Blvd, WP 2410
 Oklahoma City, Oklahoma 73104
Telephone: (405) 271-8469
FAX: (405) 271-8547
Email: sarah-j-smith@ouhsc.edu

2016 1st yr positions 1
Most recent year of Program Certification (Recertification) 2015

FACULTY APPOINTMENT

1st year: Fellow in OB/GYN
2nd year: Fellow in OB/GYN
3rd year: Fellow in OB/GYN

Website: www.oumedicine.com/OBGYN/

Program Length: 3 years
3 yr conversion start date:
Prerequisites: ABOG approved Residency in OB/GYN
Salary 1st Year: \$59,095.00
Fellowship Application Deadline: 8/15/2016
Number of fellows trained within the past 5 years N/A
How many of them are currently in academic positions? N/A

PROGRAM DESCRIPTION

	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
<u>Research Time</u>			
Total Research time	50%	60%	17%
Clinical	10%	30%	12%
Laboratory	40%	30%	5%
<u>Direct Patient Care</u>			
Total Clinical Time	50%	17%	78%
Endocrine	15%	4%	15%
Infertility	35%	13%	63%
Obstetrics/Gynecology	0%	0%	0%
<u>Surgical Procedures</u>			
Diagnostic/Operative			
Laparoscopies	35	0	15
Hysteroscopies	70	0	30
Assisted Reproduction	50	0	100
Laparotomies	10	0	5

GRADUATE LEVEL COURSES

Mandatory (M), Recommended (R), Offered (O)

	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
Statistics/Epidemiology/Research Methodology		M	
Research Methodology		M	
Genetics/Molecular Biology		O	
Other Basic Science		M	O
Other Clinical Course		O	O

University of Oklahoma Health Sciences Center

FACULTY

* = Full Time

** = Other

Reproductive Endocrinology/Infertility:

Areas of Special Interest

*LaTasha B. Craig, M.D.

Infertility, ovulation induction, microbiome

*Karl R. Hansen, M.D., Ph.D.

Ovarian aging, clinical infertility

*Alexander Quaas, M.D., Ph.D.

ART outcomes, OHSS, ovulation induction

*Robert Wild, M.D., Ph.D.

Metabolic syndrome

*Michael Zavy, Ph.D.

Embryology

Other Specialties:

*Andy Wagner, M.D.

Thrombophilia in pregnancy, genetic counseling

*Dean Myers, Ph.D.

Physiology of pregnancy, fetal adiposity

*Steven Chernausek, M.D.

Disorders of sexual development, CAH

*David Fields, Ph.D.

Maternal factors affecting fetal health

*Sowmya Krishnan, M.D.

Metabolic bone disease in children

*Puneet Sindhvani, M.D.

Male infertility

*Amy Wisniewski, Ph.D.

Disorders of sexual development, CAH

*Jennifer Peck, Ph.D.

Reproductive epidemiology

*Madona Azar, M.D.

Diabetes in minority pregnancy

BRIEF DESCRIPTION OF PROGRAM WITH TEACHING ACTIVITIES DISCUSSED

The overall educational goal of the Reproductive Endocrinology & Infertility (REI) Fellowship Program at the University of Oklahoma Health Sciences Center is to prepare trainees for successful careers in either academic medicine or clinical practice by providing a strong foundation in basic and clinical research as well as the skills necessary to practice state-of-the-art patient care in a rich and diverse clinical setting. Fellows completing this training program are expected to be proficient in the pathophysiology, evaluation, diagnosis, and management of the broad spectrum of reproductive endocrine disorders as well as specialized surgical techniques including experience with endoscopy, oocyte retrievals, embryo transfers, and surgical management of acquired and developmental abnormalities of the reproductive tract.

We recognize that a strong foundation in research design, practice, and interpretation is a critical component of fellowship training. As such, fellows receive formalized training in theoretical and practical aspects of both quantitative and qualitative research. Our curriculum is designed to allow consistent, measurable training in key aspects of research, including research design and implementation, data collection, statistical analysis, scientific and grant writing, and special cross-cultural issues, while providing each fellow the flexibility to explore their own research interests.

Our fellowship curriculum includes formal didactic coursework, research conferences, clinical conferences, and clinical rotations. The first half of Year 1 of our training program focuses on clinical training with emphases on mentored patient care, both inpatient and outpatient. The majority of time will be spent at OU Physicians Reproductive Medicine Clinic. Additional experience will be gained in both Adult and Pediatric Endocrinology. The second half of Year 1 and most of Years 2 of our training program focuses on research. All fellows are required to complete the Master of Science degree program in Clinical and Translational Science (MSCTS) during the 2nd and 3rd years of fellowship training. Year 3 will also focus on clinical care including assisted reproductive technology techniques and skills. Additional experience will be gained in genetics, male infertility, and time spent in the Andrology, endocrinology, and ART laboratories. Increasing responsibility is given to upper-level fellows so they continue to develop skills in diagnosis and management of reproductive endocrine

UNIVERSITY OF PENNSYLVANIA

Program Director: Christos Coutifaris, M.D., Ph.D. Mailing Address: Univ. of Pennsylvania Med. Ctr. 3701 Market Street Suite 800 Philadelphia, PA 19104 Telephone: (215) 662-3378 FAX: (215) 349-5512 Email: ccoutifaris@obgyn.upenn.edu Website: www.uphs.upenn.edu/obgyn/education/fellow-rei.htm	2013 1st yr positions 2 Most recent year of Program Certification (Recertification) 2013 <p style="text-align: center;">pending</p>
FACULTY APPOINTMENT	
1st year: Instructor 2nd year: Instructor 3rd year: Instructor	

Program Length:	3 years	
3 yr conversion start date:	1997	Fellowship Application Deadline: Jul-1
Prerequisites:	Approved 4 year Residency	
Salary 1st Year:	approx. \$60,112	
Number of fellows trained within the past 5 years		10
How many of them are currently in academic positions?		10

PROGRAM DESCRIPTION	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
<u>Research Time</u>			
Total Research time	<u>10%</u>	<u>50%</u>	<u>100%</u>
Clinical	<u>100%</u>	<u>0%</u>	<u>0%</u>
Laboratory	<u>0%</u>	<u>100%</u>	<u>100%</u>
<u>Direct Patient Care</u>			
Total Clinical Time	<u>90%</u>	<u>50%</u>	<u>0%</u>
Endocrine	<u>35%</u>	<u>0%</u>	<u>0%</u>
Infertility	<u>60%</u>	<u>100% (IVF)</u>	<u>0%</u>
Obstetrics/Gynecology	<u>5%</u>	<u>0%</u>	<u>0%</u>
<u>Surgical Procedures</u>			
<u>Diagnostic/Operative</u>			
Laparoscopies	<u>300-350</u>	<u>0</u>	<u>0</u>
Hysteroscopies	<u>80-100</u>	<u>0</u>	<u>0</u>
Assisted Reproduction	<u>0</u>	<u>350-400</u>	<u>0</u>
Laparotomies	<u>100</u>	<u>0</u>	<u>0</u>

GRADUATE LEVEL COURSES			
Mandatory (M), Recommended (R), Offered (O)	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
Statistics/Epidemiology \			
Research Methodology /	N/A	M	N/A
Genetics/Molecular Biology		M	
Other Basic Science		O	
Other Clinical Course		O	

UNIVERSITY OF PENNSYLVANIA

FACULTY

* = Full Time

** = Other

Reproductive Endocrinology/Infertility

*Kurt T. Barnhart, M.D., M.S.C.E.

*Samantha Butts, M.D., M.S.C.E.

*Christos Coutifaris, M.D., Ph.D.

*Anuja Dokras, M.D., Ph.D.

*Scott Edwards, M.D.

*Clarisa Gracia, M.D., M.S.C.E.

*Suleena Kalra, M.D., M.S.C.E.

*Monica Mainigi, M.D.

*Samantha M. Pfeifer, M.D.

*Steven J. Sondheimer, M.D.

*Matthew VerMilyea, Ph.D.

**Marisa Bartolomei, Ph.D.

**Shelley Berger, Ph.D.

**Deborah Driscoll, M.D.

**George L. Gerton, Ph.D.

**Susan Mandel, M.D.

**Ralph G. Meyer, Ph.D.

**Sara Pinney, M.D.

**Richard Schultz, Ph.D.

**Becky Simmons, M.D.

**Peter Snyder, M.D.

**Keith VanArsdalen, M.D.

Areas of Special Interest

Reproductive epidemiology; early pregnancy complications and ectopic pregnancy; ART outcomes
Molecular determinants of egg quality; racial disparities in infertility/gynecology
Regulation of trophoblast adhesion and invasion; human oocyte maturation; in vitro fertilization; epigenetics and ART outcomes
PCOS; embryo implantation; in vitro fertilization
Reproductive surgery; in vitro fertilization
Reproductive aging; fertility preservation; ART
ART and adverse perinatal outcomes
Epigenetic regulation of early development
Reproductive surgery, premature ovarian failure; endocrinology of the menopause
Exercise and reproduction; premenstrual syndrome; contraception
Non-invasive evaluation of embryo quality; development of improved methods for embryo culture and embryo and gamete cryopreservation
Genomic imprinting and embryo development
Epigenetic regulation of spermatogenesis
Genetics of PCOS; genetics of congenital heart disease
Spermatogenesis
Thyroid and effects on reproductive function
Epigenetic regulation of spermatogenesis
Epigenetic regulation of obesity and diabetes
Gene expression during oocyte and embryo development; ART and genomic imprinting
Epigenetic regulation of gene expression; molecular and genetic/epigenetic basis of development of obesity and diabetes
Hormonal control of spermatogenesis; gonadotropin secreting pituitary adenomas; androgen replacement
Male infertility, surgical treatment of infertile males, impotence, sperm function

BRIEF DESCRIPTION OF PROGRAM WITH TEACHING ACTIVITIES DISCUSSED

The three-year program at the University of Pennsylvania is designed for candidates who project for themselves a career in academic obstetrics and gynecology and reproductive medicine. There is a significant research emphasis and at least 18-24 months are set aside for basic research, free of clinical responsibilities. Since the division contains ten full-time practicing academic reproductive endocrinologists, there is a heavy practice component with emphasis on the surgical aspects of the discipline and assisted reproductive technologies. During the course of the formal fellowship, there is interaction with Pediatric and Medical Endocrinology. There are four weekly formal conferences covering various aspects of reproductive, medical and pediatric endocrinology and infertility. A course in Statistics is required, and Human Genetics is recommended. For fellows interested in an academic career in clinical research, the three-year fellowship program can be combined with the Epidemiology Graduate Program leading to a Master of Science degree in Clinical Epidemiology.

UNIVERSITY OF PITTSBURGH

Program Director: Joseph S. Sanfilippo, M.D., M.B.A. Mailing Address: Magee-Womens Hospital 300 Halket Street Pittsburgh, PA 15213-3180 Telephone: 412-641-1204 FAX: 412-641-1133 Email: mturner@upmc.edu Website:	2002 1st yr positions 1 Most recent year of Program Certification 2007 (Recertification)	
		FACULTY APPOINTMENT 1st year: 2nd year: 3rd year:

Program Length: 3 years 3 yr conversion start date: Prerequisites: N/A Salary 1st Year: PGY5 scale plus stipend for conference membership & educational materials	
Number of fellows trained within the past 5 years	N/A
How many of them are currently in academic positions?	N/A

PROGRAM DESCRIPTION

	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
<u>Research Time</u>			
Total Research time			
Clinical	<u>10%</u>	<u>5%</u>	<u>10%</u>
Laboratory	<u>0</u>	<u>90%</u>	<u>35%</u>
<u>Direct Patient Care</u>			
Total Clinical Time			
Endocrine	<u>30%</u>	<u>5%</u>	20%
Infertility	<u>20%</u>	<u>0</u>	10%
Obstetrics/Gynecology	<u>5%</u>	<u>0</u>	5%
<u>Surgical Procedures</u>			
Diagnostic/Operative			
Laparoscopies	<u>20%</u>		5%
Hysteroscopies	<u>15%</u>		15%
Assisted Reproduction			
Laparotomies			

GRADUATE LEVEL COURSES

	Mandatory (M)	Recommended (R)	Offered (O)
	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
Statistics/Epidemiology		M	
Research Methodology		M	
Genetics/Molecular Biology	M		
Other Basic Science			M
Other Clinical Course	Certificate in Clinical Research Available		

UNIVERSITY OF PITTSBURGH

FACULTY

* = Full Time

** = Other

Reproductive Endocrinology/Infertility

*Joseph S. Sanfilippo, MD, MBA
Vice Chair, Director, Professor

*Anthony N. Wakim, MD
Director of IVF, Associate Professor

*Scott Kauma, MD
Assistant Professor

*Robert L. Collins, MD
Clinical Associate Professor

*Marie Menke, MD, MPH
Assistant Professor

*Shweta Nayak, MD
Assistant Professor

*Anthony M. Plant, PhD
Professor

*Anthony J. Zeleznik, PhD
Professor

*Kyle Orwig, PhD
Assistant Professor

Areas of Special Interest

Reproductive Endocrinology & Infertility

ART (Assisted Reproductive Technology) Program

Reproductive Endocrinology & Infertility

Reproductive Endocrinology & Infertility

Reproductive Endocrinology & Infertility

Reproductive Endocrinology & Infertility

Cell Biology & Physiology
Center for Research

Cell Biology & Physiology
Center for Research

Cell Biology & Physiology
Center for Research

BRIEF DESCRIPTION OF PROGRAM WITH TEACHING ACTIVITIES DISCUSSED

The University of Pittsburgh's Reproductive Endocrinology & Infertility (REI) fellowship program addresses all aspects of the American Board of Obstetrics & Gynecology (ACOG) requirements for subspecialty training. Particular emphasis is placed on surgical training spanning from pediatric to adult patients. Fellowship education will provide emphasis on bio-statistics-epidemiology, research design and implementation. There is also availability for a certificate in clinical research or a Masters. Issues related to the speciality will be addressed with detailed faculty supervision with regard to didactic, medical, surgical and assisted reproductive technology aspects, meeting the ABOG Guide to Learning Requirements in REI.

Individuals who are not within the Division but will have a direct effect on the fellowship education include:

W. Allen Hogge, M.D.; Yoel Sadovsky, M.D., PhD; Elizabeth Miller, M.D.; Richard S. Guido, M.D.; Ted T. Lee, M.D.; Suketu M. Mansuria, M.D.; Mary T. Korytkowski, M.D.; Lyndon Hill, M.D.; Selma Witchel, M.D.; Amal Kanbour-Shakir, M.D., PhD; Katherine Wiser, M.D., M.S.; and Janet Catove, PhD, M.S.

UNIVERSITY OF TEXAS AT SAN ANTONIO

Program Director: Randal D. Robinson, M.D. Mailing Address: The Univ. of TX HSC at San Antonio 7703 Floyd Curl Drive, MSC 7836 San Antonio, TX. 78229-3900 Telephone: 210-567-4924 FAX: 210-567-4958 Email: robinsonr3@uthscsa.edu Website: www.uthscsa.edu/obgyn/repro/	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">2014 1st yr positions</td> <td style="text-align: center; border: 1px solid black;">1</td> </tr> <tr> <td>Most recent year of Program Certification (Recertification)</td> <td style="text-align: center; border: 1px solid black;">2012</td> </tr> </table>	2014 1st yr positions	1	Most recent year of Program Certification (Recertification)	2012
2014 1st yr positions	1				
Most recent year of Program Certification (Recertification)	2012				
FACULTY APPOINTMENT 1st year: Instructor 2nd year: Instructor 3rd year: Instructor					

Program Length:	3 years	Fellowship Application Deadline	
3 yr conversion start date:	7/1/1998		July 1, 2014
Prerequisites:	Approved Residency/Texas License		
Salary 1st Year:	\$53,000		
Number of fellows trained within the past 5 years	4		
How many of them are currently in academic positions?	2		

PROGRAM DESCRIPTION

	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
<u>Research Time</u>			
Total Research time	<u>20%</u>	<u>80%</u>	<u>85%</u>
Clinical	<u>50%</u>	<u>33%</u>	<u>50%</u>
Laboratory	<u>50%</u>	<u>67%</u>	<u>50%</u>
<u>Direct Patient Care</u>			
Total Clinical Time	<u>10%</u>	<u>20%</u>	<u>30%</u>
Endocrine	<u>85%</u>	<u>65%</u>	<u>45%</u>
Infertility	<u>5%</u>	<u>15%</u>	<u>25%</u>
Obstetrics/Gynecology			
<u>Surgical Procedures</u>			
Diagnostic/Operative			
Laparoscopies	<u>38</u>	<u>17</u>	<u>20</u>
Hysteroscopies	<u>62</u>	<u>16</u>	<u>17</u>
Assisted Reproduction	<u>114</u>	<u>22</u>	<u>20</u>
Laparotomies	<u>18</u>	<u>5</u>	<u>7</u>

GRADUATE LEVEL COURSES

	Mandatory (M)	Recommended (R)	Offered (O)
	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
Statistics/Epidemiology	R	M	O
Research Methodology	O	R	O
Genetics/Molecular Biology	R	R	O
Other Basic Science	O	O	M
Other Clinical Course	O	O	O

FACULTY

* = Full Time

** = Other

Reproductive Endocrinology/Infertility

Areas of Special Interest

*Tien-cheng "Arthur" Chang, Ph.D., HCLD/ELD,
Clinical Consultant (ABB)

*Peter Nathanielsz, M.D., Ph.D.

*Randal D. Robinson, M.D.

*Robert S. Schenken, M.D.

*Rajeshwar Tekmal, M.D., Ph.D.

** Guangming Zhong, M.D. Ph.D.

** Matthew Retzlaff, M.D.

** Jamie Massey, MD

Assisted Reproductive Technologies

Embryology, Andrology, Preimplantation

Fetal Growth, Developmental Program

Regulation of Term and Preterm Labor

ART, Infertility, Reproductive Surgery

Reproductive Medicine Network

Clinical Infertility, ART, Biology of

Endometriosis, Women's Health Initiative

Hormonal Carcinogenesis, Hormone-Dependent

Gene Regulation, Role of Cytokines and Growth

Factors in Endometriosis

Basic Science Research, Reproductive Immunology

Immunology

ART, Infertility, Reproductive Surgery

ART, Infertility, Reproductive Surgery

BRIEF DESCRIPTION OF PROGRAM WITH TEACHING ACTIVITIES DISCUSSED

The Fellowship in Reproductive Endocrinology is a three-year program designed to train a candidate for a Certificate of Special Qualification in Reproductive Endocrinology and Infertility from the American Board of Obstetrics and Gynecology.

The Fellowship Program has three components: clinical, research, and didactic. The purpose of the program is to train well-rounded clinician-scientists who are clinically and surgically familiar with relevant laboratory procedures, and capable of independent investigation and the acquisition of a comprehensive understanding of the theoretical and technical aspects of the field. Emphasis is placed on continuation of an academic career. Clinical research and teaching are given equal importance and Fellows are provided opportunities to achieve their full potential in each area.

The educational component of the program includes formal courses in the Graduate Program in Biomedical Science and several weekly conferences. Instructional content includes both basic science topics and clinical aspects of reproductive endocrinology.

UT Southwestern Medical Center

Program Director: Bruce R. Carr, MD Mailing Address: UT Southwestern Medical Center 5323 Harry Hines Blvd. Dallas, TX 75390-9032 Telephone: (214) 648-4747 FAX: (214) 648-8066 Email: Briana.Collins@UTSouthwestern.edu bruce.carr@UTSouthwestern.edu Website: www.utsouthwestern.edu/utsw/cda/dept22001/files/46329.html	2012 1st yr positions 2 Most recent year of Program Certification (Recertification) 2005
FACULTY APPOINTMENT	
1st year: Assistant Instructor 2nd year: Assistant Instructor 3rd year: Assistant Instructor	

Program Length: 3 years	3 yr conversion start date: 1-Jul-95	Fellowship Application Deadline: July 1st
Prerequisites: Residency in Ob/Gyn	Salary 1st Year: \$56,039+ benefits	
Number of fellows trained within the past 5 years	7	
How many of them are currently in academic positions	4	

PROGRAM DESCRIPTION	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
Research Time			
Total Research time	<u>50%</u>	<u>80%</u>	<u>20%</u>
Clinical	<u>0%</u>	<u>0%</u>	<u>0%</u>
Laboratory	<u>100%</u>	<u>100%</u>	<u>100%</u>
Direct Patient Care			
Total Clinical Time	<u>50%</u>	<u>20%</u>	<u>80%</u>
Endocrine	<u>20%</u>	<u>30%</u>	<u>10%</u>
Infertility	<u>70%</u>	<u>60%</u>	<u>80%</u>
Obstetrics/Gynecology	<u>10%</u>	<u>10%</u>	<u>10%</u>
Surgical Procedures			
Diagnostic/Operative			
Laparoscopies	<u>35</u>	<u>20</u>	<u>10</u>
Hysteroscopies	<u>32</u>	<u>28</u>	<u>6</u>
Assisted Reproduction	<u>60</u>	<u>30</u>	<u>10</u>
Laparotomies	<u>11</u>	<u>5</u>	<u>7</u>

GRADUATE LEVEL COURSES			
Mandatory (M), Recommended (R), Offered (O)			
	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
Statistics/Epidemiology	M		
Research Methodology			
Genetics/Molecular Biology			M
Other Basic Science			
Other Clinical Course			

UT SOUTHWESTERN MEDICAL CENTER

FACULTY

* = Full Time

** = Other

Reproductive Endocrinology/Infertility

*Gary Ackerman, M.D.

**Kevin Doody, M.D.

*Karen Bradshaw, M.D.

*Karla Saner, Ph.D.

*Bruce R. Carr, M.D.

*Lisa Halvorson, M.D.

**Ellen Wilson, M.D.

*R. Ann Word, M.D.

Areas of Special Interest

ART, Reproductive Endocrinology

Reproductive Surgery

Infertility, In Vitro Fertilization, Reproductive Endocrinology, ART

Pediatric/Adolescent Gynecology, Peri- and Postmenopause, Androgen Excess, Reproductive Surgery

Andrology

Endocrinology of Pregnancy, Menopause, Reproductive Surgery, ART, Infertility

Menstrual Disorders, Reproductive Aging, Recurrent Pregnancy Loss, Androgen Excess

Reproductive Endocrinology and Surgery, Pediatric/Adolescent Gynecology,

Infertility, Perimenopause, Menopause

Smooth Muscle Biology, Parturition,

Cervical Ripening, Urogynecology,

Contractile Protein Gene Expression, Steroid Hormone Metabolism

differentiation and endocrine function

BRIEF DESCRIPTION OF PROGRAM WITH TEACHING ACTIVITIES DISCUSSED

Emphasis of the program is to develop academicians. Laboratory research is the primary strength, directed toward molecular biology. The program also emphasizes clinical research, and a large clinic and referral base of endocrine and infertility patients are available. All aspects of surgery for Reproductive Endocrinology and Infertility are available, as well as IVF-ET and Andrology training. Fellows present research at major meetings, gain experience in writing manuscripts and grants, and participate in resident and student teaching. Fellows also attend and participate in a number of teaching conferences in Reproductive Endocrinology, Infertility, and Reproductive Biology.

UNIVERSITY OF VERMONT

Program Director: Elizabeth McGee, M.D. Mailing Address: Fletcher Allen Health Care Dept. of Ob/Gyn 111 Colchester Ave, Smith 422 Burlington, VT 05401 Telephone: (802) 847-3450 FAX: (802) 847-9243 Email: suzanne.dunbar@vtmednet.org Website: http://www.med.uvm.edu/obgyn	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">2012 1st yr positions</td> <td style="text-align: right;">1</td> </tr> <tr> <td>Most recent year of Program Certification (Recertification)</td> <td style="text-align: right;">2010 (4 year)</td> </tr> </table> <hr/> FACULTY APPOINTMENT 1st year: Instructor 2nd year: Instructor 3rd year: Instructor	2012 1st yr positions	1	Most recent year of Program Certification (Recertification)	2010 (4 year)
2012 1st yr positions	1				
Most recent year of Program Certification (Recertification)	2010 (4 year)				

Program Length:	3 years	
3 yr conversion start date:	N/A	Fellowship Application
Prerequisites: Completion of ABOG or Canadian accredited Ob/Gyn Residency		Deadline: Aug-1
Salary 1st Year:	\$64,792.00	
Number of fellows trained within the past 5 years		5
How many of them are currently in academic positions?		2

PROGRAM DESCRIPTION	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
<u>Research Time</u>			
Total Research time	<u>10%</u>	<u>90%</u>	<u>50%</u>
Clinical	<u>90%</u>	<u>10%</u>	<u>30%</u>
Laboratory	<u>10%</u>	<u>90%</u>	<u>70%</u>
<u>Direct Patient Care</u>			
Total Clinical Time	<u>90%</u>	<u>10%</u>	<u>50%</u>
Endocrine	<u>40%</u>	<u>50%</u>	<u>25%</u>
Infertility	<u>50%</u>	<u>50%</u>	<u>75%</u>
Obstetrics/Gynecology	<u>10%</u>	<u>0%</u>	<u>0%</u>
<u>Surgical Procedures</u>			
Diagnostic/Operative			
Laparoscopies	<u>59</u>	<u>6</u>	<u>0</u>
Hysteroscopies	<u>68</u>	<u>5</u>	<u>0</u>
Assisted Reproduction	<u>8</u>	<u>14</u>	<u>240</u>
Laparotomies	<u>7</u>	<u>1</u>	<u>0</u>

GRADUATE LEVEL COURSES			
Mandatory (M), Recommended (R), Offered (O)			
	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
Statistics/Epidemiology	M		
Research Methodology		O	O
Genetics/Molecular Biology		O	O
Other Basic Science		M	O
Other Clinical Course		O	O

UNIVERSITY OF VERMONT

FACULTY

* = Full Time

** = Other

Reproductive Endocrinology/Infertility

*Peter R. Casson, M.D.
Board Certified, Ob/Gyn, RE
Director, IVF Program
Director, REI Fellowship Program

*Elizabeth McGee, MD
Board Certified, Ob/Gyn, REI
Assistant Director, REI Fellowship Program

John R. Brumsted, M.D.
Board Certified, Ob/Gyn, RE

**Christine A. Murray, M.D.
Board Certified, Ob/Gyn, RE

Zaher Merhi, MD

Areas of Special Interest

Assisted Reproductive Technologies,
Androgen Metabolism

Infertility, Reproductive Endocrinology,
Ovarian physiology
Gynecology of cancer survivors

Reproductive Surgery, Endometriosis,
Quality

Infertility, Polycystic Ovarian Disease
Adolescent gynecology

Obesity in Infertility, PCOS, Impact of
bariatric surgery on infertility,
infertility due to low ovarian reserve

BRIEF DESCRIPTION OF PROGRAM WITH TEACHING ACTIVITIES DISCUSSED

This three-year fellowship is designed to afford fellows an opportunity to:

- 1 Capitalize on clinical skills acquired during residency and develop clinical expertise in the evaluation and treatment of reproductive endocrinology, infertility, and reproductive surgery (Year 1).
- 2 Develop skills in pediatric and medical endocrinology (Year 3).
- 3 Acquire firsthand experience in designing and conducting clinical research (Years 1 & 2).
- 4 Develop the ability to formulate a hypothesis, learn methods, and conduct basic research (Years 2 & 3).
- 5 Learn advanced techniques in assisted reproductive technologies (Year 3).
- 6 Acquire knowledge in the field of reproductive endocrinology through weekly didactic and clinical education sessions (Years 1, 2 & 3).

Washington University

Program Director: Emily Jungheim, M.D. Mailing Address: Washington University School of Medicine 660 S. Euclid Avenue Campus Box 8064 St. Louis, MO 63110 Telephone: 314-362-2022 FAX: 314-747-4150 Email: jungheime@wustl.edu Website: http://www.infertility.wustl.edu	2012 1st year position Open Most recent year of Program Certification 2012 (Recertification)
FACULTY APPOINTMENT	
1st year: Instructor 2nd year: Instructor 3rd year: Instructor	

Program Length: 3 years		
3 yr conversion start date: 7/1/1996		Fellowship Application
Prerequisites: Residency in Ob/Gyn		Deadlin s
Salary 1st Year: 59,543		
Number of fellows trained within the past 5 years		5
How many of them are currently in academic positions?		3

PROGRAM DESCRIPTION	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
<u>Research Time</u>			
Total Research time	<u>10%</u>	<u>100%</u>	50%
Clinical	<u>100%</u>	<u>0%</u>	<u>20%</u>
Laboratory	<u>0%</u>	<u>100%</u>	<u>80%</u>
<u>Direct Patient Care</u>			
Total Clinical Time	90%	0%	50%
Endocrine	<u>25%</u>	<u>0%</u>	0%
Infertility	<u>65%</u>	<u>0%</u>	95%
Obstetrics/Gynecology	<u>10%</u>	<u>0%</u>	5%
<u>Surgical Procedures</u>			
<u>Diagnostic/Operative</u>			
Laparoscopies	<u>34</u>	<u>0</u>	35
Hysteroscopies	<u>52</u>	<u>0</u>	14
<u>Assisted Reproduction</u>			
Laparotomies	<u>14</u>	<u>0</u>	9

GRADUATE LEVEL COURSES	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
Mandatory (M), Recommended (R), Offered (O)			
Statistics/Epidemiology	M	O	O
Research Methodology	M	M	O
Genetics/Molecular Biology	O	O	O
Other Basic Science	O	R	O
Other Clinical Course	O	O	R

Washington University

FACULTY

* = Full Time

** = Other

Reproductive Endocrinology/Infertility

*Kelle H. Moley, M.D.

*Randall R. Odem, M.D.

*Valerie S. Ratts, M.D.

*Sarah L. Keller, M.D.

* Emily S. Jungheim, M.D.,M.S.C.I.

*Amber R. Cooper, M.D., M.S.C.I.

Areas of Special Interest

Molecular Biology/Preimplantation Embryo/Gametogenesis
Implantation/Mouse Models/Male Infertility

Endoscopic Surgery/Ovulation Induction/Recurrent
Pregnancy Loss
Polycystic Ovarian Disease

Polycystic Ovarian Disease/Endoscopic Surgery/
Ovulation Induction/Recurrent Pregnancy Loss

Reproductive Endocrinology, Recurrent Pregnancy Loss, Infertility,
Assisted Reproductive Endocrinology, Polycystic Ovary
Syndrome, and Anovulation

Ovarian insufficiency, Ovarian reserve screens, Fertility preservation,
Reproductive Genetics, and the Relationship Between Autoimmune
Disease and Infertility.

BRIEF DESCRIPTION OF PROGRAM WITH TEACHING ACTIVITIES DISCUSSED

Objective: To provide special competence in the diagnosis and management of endocrine and infertility problems and in the design and execution of research related to reproductive endocrinology.

Year one is predominately a clinical year focused on reproductive endocrinology and infertility. This experience with patients of faculty members involves all aspects of care including hospitalizations and surgical procedures. The Fellow, along with house staff, co-manages the patients with the faculty. A significant portion is devoted to the implementation and participation in clinical research projects. Time is also devoted to medical endocrinology as well as pediatric endocrinology and male factor infertility. The second half of the first year focuses on the management of patients undergoing assisted reproductive technologies. The Fellow participates in all oocyte retrievals and embryo transfers.

The second year is devoted entirely to research. Fellows will have no clinical duties in this year.

During the third year, the first 6 months are protected for research. The balance of the third year is devoted to the management and performance of assisted reproductive therapies.

During the first and third years, the fellow attends Endocrine Division and Department of Ob/Gyn on a regular basis as well as some national meetings. They also are required to formally take Biostatistics and Epidemiology and one other course. At completion of the three year fellowship, fellows will be well prepared to pursue a career in Reproductive Endocrinology and Infertility.

needs updating

WAYNE STATE UNIVERSITY

Program Director: Elizabeth Puscheck, M.D. Mailing Address: Division of Reproductive Endocrinology & Infertility 60 West Hancock Street Detroit, MI 48201 Telephone: (313) 993-4523 FAX: (313) 993-4534 Email: epuscheck@med.wayne.edu lminchey@med.wayne.edu	2013 1st yr positions 2 Most recent year of Program Certification (Recertification) 2010 FACULTY APPOINTMENT 1st year: Instructor 2nd year: Instructor 3rd year: Instructor
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Program Length: 3 years 3 yr conversion start date: 1996 Prerequisites: Residency in Ob/Gyn Salary 1st Year: \$60,000 base total compensation	Fellowship Application Deadline: Aug-30
Number of fellows trained within the past 5 years	9
How many of them are currently in academic positions?	6

PROGRAM DESCRIPTION	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
<u>Research Time</u>			
Total Research time	approx. 6 mos.	approx. 6 mos.	approx. 6 mos.
Clinical			
Laboratory			
<u>Direct Patient Care</u>			
Total Clinical Time	approx. 6 mos.	approx. 6 mos.	approx. 6 mos.
Endocrine			
Infertility			
Obstetrics/Gynecology			
<u>Surgical Procedures</u> Procedures for all three years combined			
<u>Diagnostic/Operative</u>			
Laparoscopies	49		
Hysteroscopies	117		
Assisted Reproduction	160		
Laparotomies	17		

GRADUATE LEVEL COURSES			
Mandatory (M), Recommended (R), Offered (O)			
	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
Statistics/Epidemiology	M	M	
Research Methodology			
Genetics/Molecular Biology	R	R	
Other Basic Science	R	R	
Other Clinical Course			

WAYNE STATE UNIVERSITY

FACULTY

* = Full Time

** = Other

Reproductive Endocrinology/Infertility Areas of Special Interest

*Husam Abu-Soud, Ph.D.	Inflammation, Nitric Oxide Synthases, Peroxidases Free Radicals and Antioxidants, Oocyte Aging
**Mostafa Abuzeid, M.D.	Assisted Reproduction, 3D Ultrasound in Gynecology, Endoscopy, Reconstructive Surgery for Uterine Factors, Endometriosis
*D. Randall Armant, Ph.D.	Peri-Implantation Development, Trophoblast Biology: Regulation by Extracellular Matrix, Growth Factors and Oxygen
*Awoniyi Awonuga, M.D.	Assisted Reproductive Technologies, Ovulation Induction, Infertility, Recurrent Miscarriages, Polycystic Ovary Syndrome
*Jay Berman, M.D.	Hysteroscopic Surgery, Endometrial Ablation, Laparoscopic Surgery, Alternatives to Hysterectomy
**Charla Blacker, M.D.	Endometriosis, Minimally Invasive Surgery, Menopause
*Michael P. Diamond, M.D.	Infertility, Hyperandrogenism, Hyperinsulinism, Ovarian Function, Postoperative Adhesions
*Robert J. Freedman, Ph.D.	Menopause, Vascular Physiology, Peripheral Vascular Disease, Behavioral Treatment
**Kenneth Ginsburgh, M.D.	Infertility, Reproductive Endocrinology, Ovulation, Menopause, Assisted Reproduction, Fertility Preservation
*Stephen Krawetz, Ph.D.	Systems Biology of Male Reproduction, Epigenetics, Genome Reprogramming, Molecular Diagnostics
*Susan Land, Ph.D.	Genetic and Epigenetic Markers and Causes of Disease
*Douglas Ruden, Ph.D.	Epigenetics, Whole Genome Sequencing, Embryonic Stem Cells, Neurotoxicology
*Elizabeth Puscheck, M.D.	Assisted Reproduction, Endoscopy, Gyn Ultrasound, Adolescent and Adult Endocrinology, PCO, Menopause
*Daniel Rappolee, Ph.D.	Hirsutism, Implantation, Osteoporosis and Osteopenia Early Placentation, Early Embryonic Development, Stress Enzyme Signaling
*Ghassan Saed, Ph.D.	Wound Repair, Peritoneal Healing, Fibrosis, Ovarian Cancer Oxidative Stress
**Ronald Strickler, M.D.	Infertility, Ovulation Induction, Polycystic Ovary Syndrome, Adolescent Gynecology
*Terri L. Woodard, M.D.	Infertility, Assisted Reproductive Technologies, Menopause, Oncofertility, Sexual Health and Medicine

BRIEF DESCRIPTION OF PROGRAM WITH TEACHING ACTIVITIES DISCUSSED

This is a three-year approved fellowship in Reproductive Endocrinology designed to fulfill the requirements for board certification in the subspecialty. Time is equally divided between clinical duties and research experience. The three fellows rotate through clinical, surgical, and research blocks lasting approximately four months each. Clinical activities are scheduled five days a week. Exclusive of ART procedures, elective surgery is performed five days a week. An active IVF program continues to develop, incorporating new reproductive technologies, cryopreservation, embryo manipulation, ICSI, and preimplantation genetic diagnosis. Research duties include assisting in clinical research programs and development of independent laboratory research projects under the direction of one of the faculty members. Ample time is provided to obtain basic skills in radioimmunoassay, andrology, embryo biology, and other laboratory techniques. Teaching activities within the division include weekly endocrine/infertility seminars, monthly journal club, and discussion of ovulation induction and surgeries scheduled. Additionally, a departmental grand rounds and morbidity/mortality conference is held every Tuesday morning (2 hours). The fellows also participate in resident and medical student instruction both within the field of Reproductive Endocrinology & Infertility, and in general Obstetrics and Gynecology.

Program Director: Lubna Pal, MD Mailing Address: Yale School of Med., Dept OB/GYN P.O. Box 208063 New Haven, CT 06520-8063 Telephone: 203-785-8111 FAX: 203-785-8111 Email: jeannine.estrada@yale.edu Website: http://info.med.yale.edu/ogbyn	2013 1st yr positions Most recent year of Program Certification <u>20FH</u> (Recertification)
	FACULTY APPOINTMENT 1st year: Instructor 2nd year: Instructor 3rd year: Instructor

Program Length: 3 years 3 yr conversion start: 1996 Prerequisites: Salary 1st Year:	
Number of fellows trained within the past 5 years	6
How many of them are currently in academic positions?	2

PROGRAM DESCRIPTION			
	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
<u>Research Time</u>			
Total Research time	<u>20%</u>	<u>95%</u>	55%
Clinical	<u>100%</u>	<u>25%</u>	<u>25%</u>
Laboratory	<u>0%</u>	<u>75%</u>	<u>75%</u>
<u>Direct Patient Care</u>			
Total Clinical Time	<u>80%</u>	<u>5%</u>	<u>45%</u>
Endocrine	<u>20%</u>	<u>20%</u>	<u>10%</u>
Infertility	<u>75%</u>	<u>80%</u>	<u>85%</u>
Obstetrics/Gynecology	<u>0%</u>	<u>0%</u>	<u>5%</u>
<u>Surgical Procedures</u>			
Diagnostic/Operative			
Laparoscopies	<u>58</u>	<u>128</u>	<u>191</u>
Hysteroscopies	<u>91</u>	<u>198</u>	<u>192</u>
Assisted Reproduction	0	<u>0</u>	<u>267</u>
Laparotomies	<u>27</u>	<u>23</u>	<u>61</u>

GRADUATE LEVEL COURSES			
	Mandatory (M)	Recommended (R)	Offered (O)
	<u>1st Year</u>	<u>2nd Year</u>	<u>3rd Year</u>
Statistics/Epidemiology	M		
Research Methodology		M	
Genetics/Molecular Biology		R	
Other Basic Science	O	O	O
Other Clinical Course	O	O	O

YALE UNIVERSITY SCHOOL OF MEDICINE

FACULTY

*= Full Time

**= Other

Reproductive Endocrinology/Infertility

*Aydin Arici, MD
*Dorothy Greenfeld, LCSW
*Seth Guller, PhD
*Richard Hochberg, PhD
*Yingqun Huang, PhD
*Gabor Huszar, MD
*Joshua Johnson, PhD
*Amanda Kallen, MD

*Harvey Kliman, MD
*Pinar Kodaman, MD, PhD
**Maria Laliotti, PhD (adjunct)
*Winifred Mak, MD, PhD

*Ryan Martin, MD
*Gil Mor, MD, PhD
*Pasquale Patrizio, MD, MBE

*Lubna Pal, MD
**Denny Sakkas, PhD (adjunct)
*Emre Seli, MD
*Hugh Taylor, MD

*Shannon Whirledge, PhD

Areas of Special Interest

Reproductive Immunology, Implantation, Endometriosis
Psychological Aspects of Infertility
Placenta
Steroid Biochemistry of Estrogens
Molecular Reproductive Biology
Andrology
Stem Cells, Ovarian Biology
Gene expression in granulosa cells, pediatric and adolescent gynecology/endocrinology
Endometrial receptivity, Placental pathologies
Angiogenesis, PCOS
FSH Receptor, Molecular Genetics
Oogenesis, Placenta, Trophoblasts, Embryonic Development
Fertility Preservation for cancer patients, PCOS
Reproductive Immunology
Male Infertility, Bioethics of ART, Fertility Preservation
Menopause, PCOS, Osteoporosis
ART, Gametes, Embryogenesis
Oocyte biology
Endometrial Receptivity, Mullerian Development, Menopause, Endometriosis
Uterine Biology

BREIF DESCRIPTION OF PROGRAM WITH TEACHING ACTIVITIES DISCUSSED

The Reproductive Endocrinology Fellowship at Yale University School of Medicine is a three-year training program designed to produce academic reproductive endocrinologists. The first year is spent as a full-time clinician, performing surgery and seeing patient in the private office setting. All first year activities are supervised. During this time, clinical research projects are begun. The second year is devoted to research, clinical projects are continued, and laboratory research is begun. The final year is spent completing research initiatives and devoting significant time to assisted reproductive technologies. It is expected that all fellows completing the program will be competent in all aspects of clinical reproductive endocrinology and will have completed their thesis requirements for subspecialty certifications.