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John Kuo, MD, PhD



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John Kuo, MD, PhD

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Specialty Obstetrics & Gynecology, Reproductive Endocrinology

Gender Language Spoken Male English, Chinese (Mandarin)

Hospital Affiliation Ronald Reagan UCLA Medical Center

State License Number A79484

Contact

(310) 794-7274 Appointments (310) 825-9500 IVF office

Fax Number

(310) 825-2168

PRACTICE LOCATION

UCLA Department of Obstetrics & Gynecology 200 UCLA Medical Plaza, Suite 220 Los Angeles, CA 90095

MEDICAL BOARD CERTIFICATION

Reproductive Endocrinology, American Board of Obstetrics and Gynecology, 2012, 2013 Obstetrics & Gynecology, American Board of Obstetrics and Gynecology, 2005, 2013

EDUCATION

Fellowship

Reproductive Endocrinology, UCLA School of Medicine, 2004 - 2007

Residency

Obstetrics & Gynecology, UCLA School of Medicine, 2001 - 2004

Internship

Obstetrics & Gynecology, UCLA School of Medicine, 2000 - 2001

Medical Degree

MD, USC School of Medicine, 2000

CLINICAL INTEREST

Abnormal Breast Milk, Hirsutism & Masculinization, Hysteroscopy, In Vitro Fertilization, Infertility, Laparoscopy, Menopause, Recurrent Pregnancy Loss, Reproductive Endocrinology, Tubal Reversal

AFFILIATION

Department Affiliation

Physician, Obstetrics and Gynecology, General Gynecology Practice, UCLA Fertility and Reproductive Health Center, Gynecologic Endoscopy

MORE INFORMATION

Additional Information

Dr. John Kuo has two doctorate degrees (M.D. and Ph.D.) and is double board-certified in Reproductive Endocrinology and Infertility and Obstetrics and Gynecology. He has been a full-time Assistant Professor at the David Geffen School of Medicine at the University of California at Los Angeles (UCLA) since 2007. He has trained and mentored numerous Reproductive Endocrinology and Infertility doctors at UCLA. Dr. Kuo is nationally recognized among the best Infertility doctors in the United States. For his outstanding clinical abilities, excellent patient reviews, new research discoveries, and medical publications, Dr. Kuo has been honored by U.S. News & World Report's "America's Top Doctor" (2012 and 2013), Los Angeles Magazine's "Southern California Super Doctors" (2010, 2011, 2012 and 2013), Consumer's Research Council of America's "America's Top Obstetricians and Gynecologists" (2009, 2010, 2011, 2012 and 2013), Avvo.com's "Superb Doctor – Rated 10 out of 10" (2011 and 2012), Vitals.com's "Patients' Choice Award" (2012).

Dr. John Kuo's extensive 19 year education started with a Bachelor of Science (B.S.) degree with Academic Honors from Columbia University, a top Ivy-League school. He then earned a Medical Doctor (M.D.) degree from the Keck School of Medicine at the University of Southern California (USC). Dr. Kuo continued his medical training with an internship and residency in Obstetrics and Gynecology (Ob/Gyn) at the David Geffen School of Medicine at UCLA, followed by a fellowship in Reproductive Endocrinology and Infertility (REI) at UCLA. He then joined the UCLA faculty specializing in Reproductive Endocrinology and Infertility. Dr. Kuo is dedicated to providing top quality personalized medical care to his patients. He has been the Oncofertility Director at UCLA since January 2011, which is the fertility field dedicated to preserving the reproductive potential of cancer patients and survivors. His commitment to teaching at UCLA includes multiple Grand Rounds lectures, Graduate level course instructor, fellow physician training, resident physician training, medical student teaching, and medical presentations to the community.

Dr. John Kuo also earned a Doctor of Philosophy (Ph.D.) degree in Neuroscience at UCLA. He has extensive knowledge and research experience in studying the brain and its functions. The reason is that the human menstrual cycle is actually controlled by the brain. Dr. Kuo's current research in the field of Neuroendocrinology involves understanding hormonal control of ovulation, estrogen effects on brain function, and estrogen receptor signaling. He has been awarded the Women's Reproductive Health Research (WRHR) Grant and the Reproductive Scientist Development Program (RSDP) Grant, which are prestigious physician-scientist research programs from the National Institutes of Health (NIH).

UCLA Titles/Positions:

- Assistant Professor
- Oncofertility Director
- Director of Kuo Research Laboratory

Medical Board Licensure/Certifications:

- Reproductive Endocrinology and Infertility, American Board of Obstetrics and Gynecology, 2012
- Obstetrics and Gynecology, American Board of Obstetrics and Gynecology, 2005
- Physician and Surgeon, Medical Board of California, 2002

Education/Degrees:

- Doctor of Philosophy (Ph.D.), University of California, Los Angeles, 2011
- Reproductive Endocrinology and Infertility (Fellowship), University of California, Los Angeles, 2007
- Obstetrics and Gynecology (Residency), University of California, Los Angeles, 2004
- · Obstetrics and Gynecology (Internship), University of California, Los Angeles, 2001
- Medical Doctor (M.D.), University of Southern California, 2000
- Bachelor of Science (B.S.), Columbia University, 1993

Additional Areas of Expertise/Clinical Interests:

- In Vitro Fertilization (IVF)
- Fertility Preservation (Due to Cancer or Advancing Age)
- Surgical and Medical Treatment of Infertility and Pregnancy Loss
- Donor Oocyes / Donor Sperm / Gestational Surrogate
- · Preimplantation Genetic Diagnosis and Screening of Embryos
- Irregular Menstrual Cycles

Professional Society Memberships:

- American Society for Reproductive Medicine
- Society for Reproductive Endocrinology and Infertility

- · Society for Assisted Reproductive Technology
- · American College of Obstetricians and Gynecologists
- · Society for Neuroscience

Link: Free In Vitro Fertilization (IVF) Class at UCLA

Awards & Recognition

Clinical Awards:

- 2013 America's Top Doctor, Reproductive Endocrinology and Infertility, Castle Connolly Medical Ltd., U.S. News & World Report
- · 2013 Southern California Super Doctors, Reproductive Endocrinology and Infertility, Los Angeles Magazine
- 2013 <u>Guide to America's Top Obstetricians and Gynecologists</u>, Reproductive Endocrinology and Infertility, Consumer's Research Council of America
- 2012 <u>America's Top Doctor</u>, Reproductive Endocrinology and Infertility, Castle Connolly Medical Ltd., U.S. News & World Report
- 2012 Southern California Super Doctors, Reproductive Endocrinology and Infertility, Los Angeles Magazine
- 2012 <u>Guide to America's Top Obstetricians and Gynecologists</u>, Reproductive Endocrinology and Infertility, Consumer's Research Council of America
- 2012 Superb Doctor Rated 10 out of 10, Reproductive Endocrinology and Infertility, Avvo Inc.
- 2012 Most Compassionate Doctor, Top 3% of doctors, Vitals.com
- 2012 Patients' Choice Award, Avvo Inc.
- 2012 Patients' Choice Award, Rated and Awarded by Patients, Vitals.com
- 2011 Southern California Super Doctors, Reproductive Endocrinology and Infertility, Los Angeles Magazine
- 2011 <u>Guide to America's Top Obstetricians and Gynecologists</u>, Reproductive Endocrinology and Infertility, Consumer's Research Council of America
- 2011 Superb Doctor Rated 10 out of 10, Reproductive Endocrinology and Infertility, Avvo Inc.
- · 2010 Southern California Super Doctors, Reproductive Endocrinology and Infertility, Los Angeles Magazine
- 2010 <u>Guide to America's Top Obstetricians and Gynecologists</u>, Reproductive Endocrinology and Infertility, Consumer's Research Council of America
- 2009 <u>Guide to America's Top Obstetricians and Gynecologists</u>, Reproductive Endocrinology and Infertility, Consumer's Research Council of America

Research Awards:

- Reproductive Scientist Development Program (RSDP) K12 Grant, National Institutes of Health and Bayer HealthCare Pharmaceuticals, 2010 – 2012
- Women's Reproductive Health Research (WRHR) K12 Grant, National Institutes of Health, 2007 2010

Grand Rounds Speaker:

- UCLA Medical Center, Department of Obstetrics and Gynecology, "Oncofertility: fertility preservation options for cancer patients." – 6/29/12
- UCLA Medical Center, Department of Obstetrics and Gynecology, "Infertility: Evaluation and Treatment Options." 2/24/12
- Cedars-Sinai Medical Center, Department of Obstetrics and Gynecology, "Interaction of membrane estradiol receptors with metabotropic glutamate receptors." – 8/8/07

Invited Speaker:

- The Simms/Mann UCLA Center for Integrative Oncology, Insights Into Cancer 2013, "Parenthood after cancer diagnosis: fertility options from diagnosis to survivorship." – 4/9/13
- UCLA Medical Center, Department of Pediatrics, Division of Hematology and Oncology Conference, "Fertility Preservation and Assisted Reproduction." – 2/1/11

UCLA Ob/Gyn Residency and REI Fellowship Clinical Lectures:

- Fellowship Lecture, Department of Obstetrics and Gynecology, Division of Reproductive Endocrinology and Infertility, "Neuroendocrinology, Part I" – 10/24/11, 3/25/13
- Fellowship Lecture, Department of Obstetrics and Gynecology, Division of Reproductive Endocrinology and Infertility, "Neuroendocrinology, Part II" – 11/21/11
- Residency Lecture, Department of Obstetrics and Gynecology, "Galactorrhea/Hyperprolactinemia" 10/28/11

UCLA Medical School Courses:

- Ob/Gyn clerkship, "Climacteric and Infertility" 1/16/08, 3/11/08, 2/22/11, 6/21/11, 7/28/11, 9/8/11, 10/20/11, 11/17/11, 2/10/12, 2/28/12, 5/17/12, 6/25/12, 8/10/12
- Ob/Gyn clerkship, "History, Examination, Pap Smear and Cultures, Personal Interaction and Communication Skills, Preventive Care and Health Maintenance, and Diagnosis and Management Plan" – 7/13/07

UCLA Graduate Level Course:

Neurobiology M227 (Neuroendocrinology of Reproduction), "Reproductive Senescence in Women: Follicular Reserve,

Perimenopause, and Menopause" (2 hours) - 3/7/08, 3/1/10, 2/27/12

Community Presentation:

 UCLA Fertility and Reproductive Health Center, Division of Reproductive Endocrinology and Infertility, Department of Obstetrics and Gynecology, In Vitro Fertilization Class at UCLA: "The Couple's Guide to IVF" – 1/26/11, 4/6/11, 6/8/11, 7/13/11, 8/24/11, 10/26/11, 2/8/12, 4/25/12, 6/27/12, 8/8/12

Research Presentations:

- UCLA Medical Center, Department of Obstetrics and Gynecology, Research and Recognition Day, Specialty Training
 and Advanced Research Fellows Scientific Session, "Membrane estrogen receptor-alpha signaling in hypothalamic
 astrocytes." 6/15/12
- UCLA Medical Center, Women's Reproductive Health Research Center and Department of Obstetrics and Gynecology, Research Presentation, "The role of membrane-associated estrogen receptor-alpha in estrogen positive feedback." – 1/27/12
- Bayer-NICHD Reproductive Scientist Development Program, Scholar's Research Conference, Boulder, Colorado, "Membrane-associated estrogen receptor-alpha signaling in hypothalamic astrocytes is required for estrogen positive feedback in rodents." – 9/23/11
- UCLA Medical Center, Specialty Training and Advanced Research program, "Membrane estrogen receptor-alpha signaling in hypothalamic astrocytes." – 7/14/11
- UCLA Medical Center, Department of Obstetrics and Gynecology, Research and Recognition Day, Specialty Training
 and Advanced Research Fellows Scientific Session, "Membrane-associated estrogen receptor-alpha signaling in
 hypothalamic astrocytes is required for estrogen positive feedback in rodents." 6/17/11
- Bayer-NICHD Reproductive Scientist Development Program Symposium, Miami Beach, Florida, "Membrane estrogen receptor-alpha interaction with metabotropic glutamate receptor 1A is required for rapid estradiol signaling in hypothalamic astrocytes" – 3/17/11
- UCLA Medical Center, Department of Obstetrics and Gynecology, Research and Recognition Day, Specialty Training
 and Advanced Research Fellows Scientific Session, "Membrane ER-alpha signaling and trafficking in hypothalamic
 astrocytes." 6/18/10
- UCLA Medical Center, Brain Research Institute, Laboratory of Neuroendocrinology, Research Presentation, "Membrane estrogen receptor-alpha interacts with metabotropic glutamate receptor 1a to mediate rapid estradiol signaling in hypothalamic astrocytes." – 6/4/10
- UCLA Medical Center, Department of Obstetrics and Gynecology, Levey Symposium Research Presentation, "Membrane ER-alpha signaling and trafficking in hypothalamic astrocytes." – 5/6/10
- UCLA Medical Center, Women's Reproductive Health Research Center and Department of Obstetrics and Gynecology, Research Presentation, "Membrane estrogen receptor-alpha trafficking and signaling in hypothalamic astrocytes." – 12/11/09
- UCLA Medical Center, Department of Obstetrics and Gynecology, Research and Recognition Day, Specialty Training
 and Advanced Research Fellows Scientific Session, "Membrane estrogen receptor-alpha trafficking and signaling in
 hypothalamic astrocytes." 6/19/09
- UCLA Medical Center, Women's Reproductive Health Research Center and Department of Obstetrics and Gynecology, Research Presentation, "Membrane estrogen receptor-alpha interacts with metabotropic glutamate receptor 1a in hypothalamic astrocytes." – 10/3/08
- UCLA Medical Center, Department of Obstetrics and Gynecology, Research and Recognition Day, Specialty Training
 and Advanced Research Fellows Scientific Session, "Membrane estradiol receptors interact with metabotropic
 glutamate receptors in hypothalamic astrocytes." 6/20/08

Publications

Publications:

- Dominguez R, Dewing P, Kuo J, Micevych P. Membrane-initiated estradiol signaling in immortalized hypothalamic N-38 neurons. Steroids. In Press.
- Kuo J, Micevych P. Neurosteroids, trigger of the LH surge. The Journal of Steroid Biochemistry and Molecular Biology. 2012 Aug;131(1-2):57-65.
- Kuo J. Membrane estrogen receptor-alpha interacts with metabotropic glutamate receptor 1a to stimulate intracellular calcium release and progesterone synthesis in female hypothalamic astrocytes. Ph.D. dissertation, University of California at Los Angeles. May 27, 2011.
- 4. **Kuo J**, Hamid N, Bondar G, Dewing P, Clarkson J, Micevych P. Sex differences in hypothalamic astrocyte response to estradiol stimulation. Biology of Sex Differences. 2010 Nov 22;1(1):7(1-9).
- Kuo J, Hamid N, Bondar G, Prossnitz ER, Micevych P. Membrane estrogen receptors stimulate intracellular calcium release and progesterone synthesis in hypothalamic astrocytes. The Journal of Neuroscience. 2010 Sept 29;30(39)12950-12957.
- Micevych P, Bondar G, Kuo J. Estrogen actions on neuroendocrine glia. Neuroendocrinology. 2010 Jun;91(3):211-222.
- Bondar G, Kuo J, Hamid N, Micevych P. Estradiol-induced estrogen receptor-alpha trafficking. The Journal of Neuroscience. 2009 Dec 2;29(48):15323-15330.
- 8. **Kuo J**, Hariri OR, Micevych P. An interaction of oxytocin receptors with metabotropic glutamate receptors in hypothalamic astrocytes. Journal of Neuroendocrinology. 2009 Dec;21(12):1001-1006.
- 9. Micevych P, Kuo J, Christensen A. Physiology of membrane oestrogen receptor signaling in reproduction. Journal of

- Neuroendocrinology. 2009 Mar;21(4):249-256.
- Kuo J, Hariri OR, Bondar G, Ogi J, Micevych P. Membrane estrogen receptor-alpha interacts with metabotropic glutamate receptor 1a to mobilize intracellular calcium in hypothalamic astrocytes. Endocrinology. 2009 Mar:150(3):1369-1376.
- Jain JK, Kuo J. Pregnancy outcomes with increased clomiphene citrate dose. Gynecological Endocrinology. 2004 Sept;19(3):141-145.
- 12. Jain JK, Nicosia AF, Nucatola DL, Lu JJ, **Kuo J**, Felix JC. Mifepristone for the prevention of breakthrough bleeding in new starters of depo-medroxyprogesterone acetate. Steroids. 2003 Nov;68(10-13):1115-1119.
- Fassett MJ, Bohn Y, Kuo J, Wing DA. Longitudinal evaluation of activated protein C resistance among normal pregnancies of Hispanic women. American Journal of Obstetrics & Gynecology. 2000 Jun;182(6):1433-1436.
- Jain JK, Kuo J, Mishell DR Jr. A comparison of two dosing regimens of intravaginal misoprostol for second-trimester pregnancy termination. Obstetrics & Gynecology. 1999 Apr;93(4):571-575.

Book Chapters:

- Kuo J. Case #7 Hypothyroidism; Case #12 Contraception: Depo-Provera; and Case #16 Menopause:
 Osteoporosis Prevention and Treatment. In: Azziz R, ed. McGraw-Hill Specialty Review: Obstetrics and Gynecology:
 Cases, Questions, and Answers. New York, NY: McGraw-Hill, 2007.
- Rapkin AJ, Kuo J. Neurotransmitter Physiology: The Basics for Understanding Premenstrual Syndrome. In: O'Brien PMS, Rapkin AJ, Schmidt PJ, eds. The Premenstrual Syndromes: PMS and PMDD. Boca Raton, FL: Taylor & Francis, 2007.

Abstracts:

- Kuo J, Chen C, Micevych P. Estradiol signaling regulates de novo progesterone synthesis in hypothalamic astrocytes. Poster presentation at the 42th Annual Meeting of the Society for Neuroscience, Oct. 13-17, 2012, New Orleans. Louisiana.
- Micevych P, Kuo J. Astrocyte steroidogenesis and estrogen positive feedback on GnRH neurons. Oral presentation
 at the 2012 Federation of American Societies for Experimental Biology Science Research Conferences: Integration of
 Genomic and Non-Genomic Steroid Receptor Actions, July 29 August 3, 2012, Snowmass Village, Colorado.
- Kuo J, Hamid N, Bondar G, Micevych P. Membrane ERa interacts with mGluR1a to stimulate progesterone synthesis
 in hypothalamic astrocytes. Oral presentation at the 58th Annual Meeting of the Society for Gynecological
 Investigation, Mar. 16-19, 2011, Miami Beach, Florida.
- Kuo J, Hamid N, Bondar G, Micevych P. Sex differences in astrocytic response to estradiol stimulation. Poster presentation at the 40th Annual Meeting of the Society for Neuroscience, Nov. 13-17, 2010, San Diego, California.
- Micevych P, Dominguez R, Dewing P, Kuo J. Membrane initiated estradiol signaling in immortalized hypothalamic neurons. Poster presentation at the 40th Annual Meeting of the Society for Neuroscience, Nov. 13-17, 2010, San Diego, California.
- Kuo J, Hamid N, Bondar G, Micevych P. Estradiol-induced progesterone synthesis in hypothalamic astrocytes requires rapid interaction between membrane ERa and mGluR1a. Poster presentation at the 39th Annual Meeting of the Society for Neuroscience, Nov. 17-21, 2009, Chicago, Illinois.
- Bondar G, Kuo J, Hamid N, Micevych P. Estradiol-induced estrogen receptor-a trafficking. Poster presentation at the 39th Annual Meeting of the Society for Neuroscience, Nov. 17-21, 2009, Chicago, Illinois.
- Dominguez R, Kuo J, Christensen A, Micevych P. Estradiol regulates levels of membrane ERa in hypothalamic neurons. Poster presentation at the 39th Annual Meeting of the Society for Neuroscience, Nov. 17-21, 2009, Chicago, Illinois
- Micevych P, Bondar G, Kuo J, Dominguez R. Estradiol regulation of membrane estrogen receptor and its role in reproduction. Oral presentation at the 5th International Meeting of Steroids and Nervous System, Feb. 13-18, 2009, Torino, Italy.
- Kuo J, Hamid N, Bondar G, Micevych PE. Membrane estradiol receptors interact with metabotropic glutamate receptors to induce progesterone synthesis in hypothalamic astrocytes. Poster presentation at the 38th Annual Meeting of the Society for Neuroscience, Nov. 15-19, 2008, Washington, D.C.
- 11. Micevych P, Christensen A, Hamid N, **Kuo J**. Physiology of membrane estrogen receptor signaling. Oral presentation at the US/Japan Neurosteroid Symposium 2008, Sept. 8-11, 2008, Gifu, Japan.
- Kuo J, Hariri OR, Bondar G, Ogi J, Shung MS, Micevych PE. Membrane estradiol receptors interact with metabotropic glutamate receptors in hypothalamic astrocytes. Poster presentation at the 2008 NIH/NICHD Women's Reproductive Health Research Symposium, Jun. 1-3, 2008, Rochester, New York.
- 13. Kuo J, Hariri OR, Bondar G, Ogi J, Shung MS, Micevych PE. Membrane estradiol receptors interact with metabotropic glutamate receptors in hypothalamic astrocytes. Oral presentation at the 55th Annual Meeting of the Society for Gynecological Investigation, Mar. 26-29, 2008, San Diego, California.
- 14. Hariri OR, Bondar G, Kuo J, Micevych PE. Estradiol Mobilization of Intracellular Calcium in Hypothalamic Astrocytes Requires ERa and mGluR1a Interaction. Poster presentation at the 37th Annual Meeting of the Society for Neuroscience, Nov. 3-7, 2007, San Diego, California.
- 15. Trivax BS, Huang A, Manipalviratn S, Kuo J, DeCherney AH, Wu TJ. The relationship of luteal phase progesterone levels and pregnancy outcomes in in-vitro fertilization-embryo transfer (IVF-ET) cycles. Poster presentation at the 62st Annual Meeting of the American Society for Reproductive Medicine, Oct. 21-25, 2006, New Orleans, Louisiana.
- Huang A, Trivax B, Manipalviratn S, Kuo J, Wu TCJ. Days of stimulation in in-vitro fertilization embryo transfer (IVF-ET) cycles and its relationship with pregnancy outcomes. Poster presentation at the 54th Annual Meeting of the Pacific Coast Reproductive Society, Apr. 26-30, 2006, Indian Wells, California.
- 17. Huang A, Trivax BS, Kuo J, Manipalviratn S, DeCherney AH, Wu TCJ. The relationship of luteal phase estradiol levels between pregnancy outcomes with in vitro fertilization-embryo transfer cycles. Poster presentation at the 2006 Annual Scientific Meeting of the Society for Gynecologic Investigation, Mar. 22-25, 2006, Toronto, Ontario, Canada.

- 18. Kuo J, Patel N, Sarajari S, Wu TC, DeCherney AH. Single beta-human chorionic gonadotropin value as a predictor of pregnancy outcome for In-Vitro Fertilization cycles. Poster presentation at the conjoint meeting of the 61st Annual Meeting of the American Society for Reproductive Medicine and the 51st Annual Meeting of the Canadian Fertility and Andrology Society, Oct. 15-19, 2005, Montreal, Quebec, Canada.
- 19. Kuo J, Kumar A, DeCherney AH, Azziz R. Are patients with idiopathic hirsutism insulin resistant?: Comparing women with idiopathic hirsutism to body mass index-matched patients with polycystic ovary syndrome and controls. Poster presentation at the 60th Annual Meeting of the American Society for Reproductive Medicine, Oct. 16-20, 2004, Philadelphia. Pennsylvania.
- 20. Jain JK, Kuo J, Nicosia AF, Dutton C, Lu J, Felix JC, Paulson RJ. A prospective, randomized, placebo-controlled trial of mifepristone for the prevention of breakthrough bleeding in new starters of depo-medroxyprogesterone acetate (DMPA). Oral presentation at the 2nd International Symposium on Progestins, Progesterone Receptor Modulators and Progesterone Antagonists, Nov. 20-23, 2002, Siena, Italy.
- 21. Fassett MJ, Bohn Y, Kuo J, Wing DA. Assessment of activated protein C resistance throughout the course of normal pregnancy. Oral presentation at the 66th Annual Meeting of the Pacific Coast Obstetrical and Gynecological Society, Oct. 20-24, 1999, Cancun, Mexico.
- 22. Jain JK, Kuo J, Gentzschein E, Paulson RJ. The ovarian and placental contribution to circulating levels of vascular endothelial growth factor (VEGF) in stimulated cycles and early pregnancy. Poster presentation at the joint meeting of the 16th World Congress on Fertility and Sterility and the 54th Annual Meeting of the American Society for Reproductive Medicine, IFFS'98, Oct. 4-9, 1998, San Francisco, California.
- 23. Jain JK, $\boldsymbol{\mathsf{Kuo}}\ \boldsymbol{\mathsf{J}}$, Gentzschein E, Paulson RJ. Vascular endothelial growth factor (VEGF) during early pregnancy is not principally a product of the corpus luteum. Oral presentation at the 46th Annual Meeting of the Pacific Coast Fertility Society, Apr. 22-26, 1998, Indian Wells, California.

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