

MITCHELL ROSEN BIOGRAPHY:



Dr. Mitchell Rosen is a reproductive endocrinology and fertility expert at the UCSF Center for Reproductive Health. He also is director of the UCSF Fertility Preservation Center, which helps patients with cancer preserve their ability to have children, despite aggressive cancer treatment.

Rosen earned a medical degree at Saint Louis University and completed residency training in obstetrics and gynecology at the University of Texas Medical Branch in Galveston, Texas. During medical and residency training, he was named the best resident twice and received the Ortho-McNeil Best Resident Teacher Award in 2002. Rosen completed fellowship training in reproductive endocrinology and infertility at UCSF. He was trained in the UCSF embryology laboratory to qualify as a high complexity lab director (HCLD). In addition to caring for patients, he is an assistant professor of medicine at UCSF and teaches medical students, residents and fellows.

Dr. Rosen on his research: My research focuses on Reproductive Endocrinology and Infertility, oogenesis (folliculogenesis) and early reproductive failure. During my fellowship I explored a basic research interest in a candidate gene (DAZ-L) involved in gametogenesis, and determined that this gene may be involved in the age at ovarian failure and spermatogenesis. I am actively involved in studies to better understand the impact of exogenous stimulation on in vivo and subsequent in vitro oocyte development and maturation. Of particular interest is understanding ways to optimize controlled ovarian hyperstimulation to improve pregnancy outcomes during assisted reproduction. I have recently received funding to develop a randomized trial evaluating concomitant FSH with hCG for ovulation trigger. During a spontaneous ovulatory surge, there is a rise in both FSH and LH. While hCG has been substituted for the LH surge, no studies have addressed the role of FSH on the developing oocyte during the final steps of nuclear and cytoplasmic maturation. This prospective study will compare ovarian stimulation and follicular development, along with oocyte maturation, developmental competence, and quality between those participants receiving hCG alone or combined FSH/hCG. In addition, the intrafollicular hormonal milieu, embryo quality, and pregnancy rates will be compared between the two treatment groups.

I am also involved in several other studies, which focus on optimizing embryo selection, leading to single embryo transfer, and thereby decreasing health risks to women and their children. We have established a protocol utilizing proton magnetic spectroscopy and HPLC proteomics to compare embryos with and without known implantation. Additionally, I am a member of a research team addressing the role of methyl-tetrahydrofolate reductase in ovarian stimulation and IVF outcomes, and the effect CMV in semen has on fertilization and embryo quality. Ultimately, my goal is to promote a team effort between clinicians, basic scientists, and embryologists in order to better study folliculogenesis and apply this knowledge to understanding the process of ovarian aging and the impact of exogenous medications on follicle development.

Education/Training

Year Institution & Location
1998 Saint Louis University

Degree Field of Study
M.D.

2002 University of Texas Medical Branch, Galveston, TX Resident Obstetrics and Gynecology
2005 University of California San Francisco, San Francisco, CA Fellow Reproductive Endocrinology

Achievements & Recognition

Year Major Honors
1998, 2002 Honor Roll for Patient Care
2002 Ortho-McNeil Best Resident Teacher Award
2002 Best Resident Award
2006-08 Teaching Resident Award, UCSF School of Medicine

MITCHELL ROSEN RESEARCH LIST:

- 1: Bleil ME, Gregorich SE, Adler NE, Sternfeld B, Rosen MP, Cedars MI. Race/ethnic disparities in reproductive age: an examination of ovarian reserve estimates across four race/ethnic groups of healthy, regularly cycling women. *Fertil Steril.* 2014 Jan;101(1):199-207. doi: 10.1016/j.fertnstert.2013.09.015. Epub 2013 Oct 29. PubMed PMID: 24182412.
- 2: Letourneau J, Chan SW, Rosen MP. Accelerating ovarian age: cancer treatment in the premenopausal woman. *Semin Reprod Med.* 2013 Nov;31(6):462-8. doi: 10.1055/s-0033-1356482. Epub 2013 Oct 7. PubMed PMID: 24101227.
- 3: Practice Committee of American Society for Reproductive Medicine in collaboration with Society for Reproductive Endocrinology and Infertility. Optimizing natural fertility: a committee opinion. *Fertil Steril.* 2013 Sep;100(3):631-7. doi: 10.1016/j.fertnstert.2013.07.011. PubMed PMID: 23993665.
- 4: Cakmak H, Katz A, Cedars MI, Rosen MP. Effective method for emergency fertility preservation: random-start controlled ovarian stimulation. *Fertil Steril.* 2013 Dec;100(6):1673-80. doi: 10.1016/j.fertnstert.2013.07.1992. Epub 2013 Aug 26. PubMed PMID: 23987516.
- 5: Practice Committee of American Society for Reproductive Medicine. Medical treatment of ectopic pregnancy: a committee opinion. *Fertil Steril.* 2013 Sep;100(3):638-44. doi: 10.1016/j.fertnstert.2013.06.013. Epub 2013 Jul 10. PubMed PMID: 23849842.
- 6: Practice Committee of the American Society for Reproductive Medicine. Use of clomiphene citrate in infertile women: a committee opinion. *Fertil Steril.* 2013 Aug;100(2):341-8. doi: 10.1016/j.fertnstert.2013.05.033. Epub 2013 Jun 27. PubMed PMID: 23809505.
- 7: Bleil ME, Bromberger JT, Latham MD, Adler NE, Pasch LA, Gregorich SE, Rosen MP, Cedars MI. Disruptions in ovarian function are related to depression and cardiometabolic risk during premenopause. *Menopause.* 2013 Jun;20(6):631-9. doi: 10.1097/GME.0b013e31827c5c45. PubMed PMID: 23715377; PubMed Central PMCID: PMC3657585.

8: Practice Committees of the American Society for Reproductive Medicine and the Society for Assisted Reproductive Technology. Blastocyst culture and transfer in clinical-assisted reproduction: a committee opinion. *Fertil Steril*. 2013 Mar 1;99(3):667-72. doi: 10.1016/j.fertnstert.2013.01.087. PubMed PMID: 23714439.

9: Cakmak H, Rosen MP. Ovarian stimulation in cancer patients. *Fertil Steril*. 2013 May;99(6):1476-84. doi: 10.1016/j.fertnstert.2013.03.029. Review. PubMed PMID: 23635348.

10: Bleil ME, Gregorich SE, McConnell D, Rosen MP, Cedars MI. Does accelerated reproductive aging underlie premenopausal risk for cardiovascular disease? *Menopause*. 2013 Nov;20(11):1139-46. doi: 10.1097/GME.0b013e31828950fa. PubMed PMID: 23591257.

11: Rosen MB, Das KP, Wood CR, Wolf CJ, Abbott BD, Lau C. Evaluation of perfluoroalkyl acid activity using primary mouse and human hepatocytes. *Toxicology*. 2013 Jun 7;308:129-37. doi: 10.1016/j.tox.2013.03.011. Epub 2013 Apr 6. PubMed PMID: 23567314.

12: Practice Committee of the American Society for Reproductive Medicine. The clinical utility of sperm DNA integrity testing: a guideline. *Fertil Steril*. 2013 Mar 1;99(3):673-7. doi: 10.1016/j.fertnstert.2012.12.049. Epub 2013 Feb 1. PubMed PMID: 23391408.

13: Practice Committee of the American Society for Reproductive Medicine. Definition of experimental procedures: a committee opinion. *Fertil Steril*. 2013 Apr;99(5):1197-8. doi: 10.1016/j.fertnstert.2012.12.036. Epub 2013 Feb 1. PubMed PMID: 23391407.

14: Lin WT, Beattie M, Chen LM, Oktay K, Crawford SL, Gold EB, Cedars M, Rosen M. Comparison of age at natural menopause in BRCA1/2 mutation carriers with a non-clinic-based sample of women in northern California. *Cancer*. 2013 May 1;119(9):1652-9. doi: 10.1002/cncr.27952. Epub 2013 Jan 29. PubMed PMID: 23362014; PubMed Central PMCID: PMC3634895.

15: Cakmak H, Fujimoto VY, Zamah AM, Rosen MP, Tran ND, Cedars MI, Rinaudo PF. Metaphase II (MII) oocytes obtained at different time points in the same in vitro fertilization cycle. *J Assist Reprod Genet*. 2012 Nov;29(11):1203-5. doi: 10.1007/s10815-012-9852-5. Epub 2012 Sep 1. PubMed PMID: 22941385; PubMed Central PMCID: PMC3510378.

16: Bleil ME, Adler NE, Pasch LA, Sternfeld B, Gregorich SE, Rosen MP, Cedars MI. Depressive symptomatology, psychological stress, and ovarian reserve: a role for psychological factors in ovarian aging? *Menopause*. 2012 Nov;19(11):1176-85. doi: 10.1097/gme.0b013e31825540d8. PubMed PMID: 22760086; PubMed Central PMCID: PMC3465629.

17: Niemasik EE, Letourneau J, Dohan D, Katz A, Melisko M, Rugo H, Rosen M. Patient perceptions of reproductive health counseling at the time of cancer diagnosis: a qualitative study of female

California cancer survivors. *J Cancer Surviv.* 2012 Sep;6(3):324-32. doi: 10.1007/s11764-012-0227-9. Epub 2012 Jul 3. PubMed PMID: 22752834.

18: Schuh-Huerta SM, Johnson NA, Rosen MP, Sternfeld B, Cedars MI, Reijo Pera RA. Genetic markers of ovarian follicle number and menopause in women of multiple ethnicities. *Hum Genet.* 2012 Nov;131(11):1709-24. doi: 10.1007/s00439-012-1184-0. Epub 2012 Jun 13. PubMed PMID: 22696150; PubMed Central PMCID: PMC3470691.

19: Letourneau JM, Smith JF, Ebbel EE, Craig A, Katz PP, Cedars MI, Rosen MP. Racial, socioeconomic, and demographic disparities in access to fertility preservation in young women diagnosed with cancer. *Cancer.* 2012 Sep 15;118(18):4579-88. doi: 10.1002/cncr.26649. Epub 2012 Mar 26. PubMed PMID: 22451228; PubMed Central PMCID: PMC3387319.

20: Rosen MP, Meldrum DR. Can FSH co-trigger prevent OHSS? *Fertil Steril.* 2012 Mar;97(3):534-5. doi: 10.1016/j.fertnstert.2012.01.105. Epub 2012 Jan 29. PubMed PMID: 22285746.

21: Rosen MP, Johnstone E, McCulloch CE, Schuh-Huerta SM, Sternfeld B, Reijo-Pera RA, Cedars MI. A characterization of the relationship of ovarian reserve markers with age. *Fertil Steril.* 2012 Jan;97(1):238-43. doi: 10.1016/j.fertnstert.2011.10.031. Epub 2011 Nov 30. PubMed PMID: 22130324; PubMed Central PMCID: PMC3312467.

22: Schuh-Huerta SM, Johnson NA, Rosen MP, Sternfeld B, Cedars MI, Reijo Pera RA. Genetic variants and environmental factors associated with hormonal markers of ovarian reserve in Caucasian and African American women. *Hum Reprod.* 2012 Feb;27(2):594-608. doi: 10.1093/humrep/der391. Epub 2011 Nov 24. PubMed PMID: 22116950; PubMed Central PMCID: PMC3258032.

23: Zamah AM, Mauro MJ, Druker BJ, Oktay K, Egorin MJ, Cedars MI, Rosen MP. Will imatinib compromise reproductive capacity? *Oncologist.* 2011;16(10):1422-7. doi: 10.1634/theoncologist.2011-0137. Epub 2011 Sep 23. PubMed PMID: 21948652; PubMed Central PMCID: PMC3228060.

24: Tran ND, Cedars MI, Rosen MP. The role of anti-müllerian hormone (AMH) in assessing ovarian reserve. *J Clin Endocrinol Metab.* 2011 Dec;96(12):3609-14. doi: 10.1210/jc.2011-0368. Epub 2011 Sep 21. PubMed PMID: 21937624.

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Acute ovarian failure underestimates age-specific reproductive impairment for young women undergoing chemotherapy for cancer. *Cancer*. 2012 Apr 1;118(7):1933-9. doi: 10.1002/cncr.26403. Epub 2011 Aug 17. PubMed PMID: 21850728; PubMed Central PMCID: PMC3220922.

27: Huddleston HG, Rosen MP, Gibson M, Cedars MI, Fujimoto VY.

Ethnic variation in estradiol metabolism in reproductive age Asian and white women treated with transdermal estradiol. *Fertil Steril*. 2011 Sep;96(3):797-9. doi: 10.1016/j.fertnstert.2011.06.023. Epub 2011 Jul 20. PubMed PMID: 21774930.

28: Rugo HS, Rosen MP. Reducing the long-term effects of chemotherapy in young women with early-stage breast cancer. *JAMA*. 2011 Jul 20;306(3):312-4. doi: 10.1001/jama.2011.1019. PubMed PMID: 21771995.

29: Singer ST, Vichinsky EP, Gildengorin G, van Disseldorp J, Rosen M, Cedars MI.

Reproductive capacity in iron overloaded women with thalassemia major. *Blood*. 2011 Sep 8;118(10):2878-81. doi: 10.1182/blood-2011-06-360271. Epub 2011 Jul 14. PubMed PMID: 21757620; PubMed Central PMCID: PMC3172803.

30: Rosen MP, Johnstone E, Addauan-Andersen C, Cedars MI. A lower antral follicle count is associated with infertility. *Fertil Steril*. 2011 May;95(6):1950-4, 1954.e1. doi: 10.1016/j.fertnstert.2011.01.151. Epub 2011 Mar 3. PubMed PMID: 21376313; PubMed Central PMCID: PMC3080442.

31: Lamb JD, Shen S, McCulloch C, Jalalian L, Cedars MI, Rosen MP.

Follicle-stimulating hormone administered at the time of human chorionic gonadotropin trigger improves oocyte developmental competence in in vitro fertilization cycles: a randomized, double-blind, placebo-controlled trial. *Fertil Steril*. 2011 Apr;95(5):1655-60. doi: 10.1016/j.fertnstert.2011.01.019. PubMed PMID: 21315341.

32: Rosen MP. Do oocyte quality and quantity as measured by antral follicle count decline in parallel? *Fertil Steril*. 2011 Feb;95(2):482-3; discussion 484-5. doi: 10.1016/j.fertnstert.2010.11.052. Epub 2010 Dec 23. PubMed PMID: 21183174.

33: Hotaling JM, Smith JF, Rosen M, Muller CH, Walsh TJ. The relationship between isolated teratozoospermia and clinical pregnancy after in vitro fertilization with or without intracytoplasmic sperm injection: a systematic review and meta-analysis. *Fertil Steril*. 2011 Mar 1;95(3):1141-5. doi: 10.1016/j.fertnstert.2010.09.029. Epub 2010 Oct 28. Review. PubMed PMID: 21030014.

34: Rosen MB, Schmid JR, Corton JC, Zehr RD, Das KP, Abbott BD, Lau C. Gene

Expression Profiling in Wild-Type and PPAR α -Null Mice Exposed to Perfluorooctane Sulfonate Reveals PPAR α -Independent Effects. *PPAR Res*. 2010;2010. pii: 794739. doi: 10.1155/2010/794739. Epub 2010 Sep 27. PubMed PMID: 20936131; PubMed Central PMCID: PMC2948942.

35: Letourneau JM, Melisko ME, Cedars MI, Rosen MP. A changing perspective: improving access to fertility preservation. *Nat Rev Clin Oncol*. 2011 Jan;8(1):56-60. doi: 10.1038/nrclinonc.2010.133. Epub 2010 Aug 24. PubMed PMID: 20736926; PubMed Central PMCID: PMC3226819.

36: Mucowski SJ, Herndon CN, Rosen MP. The arcuate uterine anomaly: a critical appraisal of its diagnostic and clinical relevance. *Obstet Gynecol Surv*. 2010 Jul;65(7):449-54. doi: 10.1097/OGX.0b013e3181efb0db. Review. PubMed PMID: 20723266.

37: Johnstone EB, Rosen MP, Neril R, Trevithick D, Sternfeld B, Murphy R, Addauan-Andersen C, McConnell D, Pera RR, Cedars MI.

The polycystic ovary post-rotterdam: a common, age-dependent finding in ovulatory women without metabolic significance. *J Clin Endocrinol Metab*. 2010 Nov;95(11):4965-72. doi: 10.1210/jc.2010-0202. Epub 2010 Aug 18. PubMed PMID: 20719841; PubMed Central PMCID: PMC2968725.

38: Rosen MP, Sternfeld B, Schuh-Huerta SM, Reijo Pera RA, McCulloch CE, Cedars MI.

Antral follicle count: absence of significant midlife decline. *Fertil Steril*. 2010 Nov;94(6):2182-5. doi: 10.1016/j.fertnstert.2009.12.045. Epub 2010 Feb 10. PubMed PMID: 20149366; PubMed Central PMCID: PMC3210029.

39: Huddleston HG, Rosen MP, Lamb JD, Modan A, Cedars MI, Fujimoto VY. Asian

ethnicity in anonymous oocyte donors is associated with increased estradiol levels but comparable recipient pregnancy rates compared with Caucasians. *Fertil Steril*. 2010 Nov;94(6):2059-63. doi: 10.1016/j.fertnstert.2009.11.019. Epub 2010 Jan 13. PubMed PMID: 20056204.

40: Rosen M, Breitkopf D, Waud K. Tubo-ovarian abscess management options for women who desire fertility. *Obstet Gynecol Surv*. 2009 Oct;64(10):681-9. doi: 10.1097/OGX.0b013e3181b8b0d6. Review. PubMed PMID: 19772677.

41: Rosen MP, Johnstone EB, Gillham SJ, Modan AE, Lipshutz AK, Reijo-Pera R, Cedars MI.

Is antral follicle count a genetic trait? *Menopause*. 2010 Jan-Feb;17(1):109-13. doi: 10.1097/gme.0b013e3181b48a88. PubMed PMID: 19752762.

42: Urban P, Rosen MR, Berns RS. Spectral image reconstruction using an edge preserving spatio-spectral Wiener estimation. *J Opt Soc Am A Opt Image Sci Vis*. 2009 Aug;26(8):1865-75. PubMed PMID: 19649126.

43: Lamb JD, Zamah AM, Shen S, McCulloch C, Cedars MI, Rosen MP.

Follicular fluid steroid hormone levels are associated with fertilization outcome after intracytoplasmic sperm injection. *Fertil Steril*. 2010 Aug;94(3):952-7. doi: 10.1016/j.fertnstert.2009.04.010. Epub 2009 Jul 9. PubMed PMID: 19591987.

44: Rosen MB, Lau C, Corton JC. Does exposure to perfluoroalkyl acids present a risk to human health? *Toxicol Sci.* 2009 Sep;111(1):1-3. doi: 10.1093/toxsci/kfp142. Epub 2009 Jun 26. PubMed PMID: 19561327.

45: Rosen MP, Shen S, Rinaudo PF, Huddleston HG, McCulloch CE, Cedars MI. Fertilization rate is an independent predictor of implantation rate. *Fertil Steril.* 2010 Sep;94(4):1328-33. doi: 10.1016/j.fertnstert.2009.05.024. Epub 2009 Jun 27. PubMed PMID: 19560757.

46: Rosen MB, Schmid JE, Das KP, Wood CR, Zehr RD, Lau C. Gene expression profiling in the liver and lung of perfluorooctane sulfonate-exposed Mouse fetuses: comparison to changes induced by exposure to perfluorooctanoic acid. *Reprod Toxicol.* 2009 Jun;27(3-4):278-88. doi: 10.1016/j.reprotox.2009.01.007. Epub 2009 Feb 6. PubMed PMID: 19429403.

47: Rosen MP, Zamah AM, Shen S, Dobson AT, McCulloch CE, Rinaudo PF, Lamb JD, Cedars MI. The effect of follicular fluid hormones on oocyte recovery after ovarian stimulation: FSH level predicts oocyte recovery. *Reprod Biol Endocrinol.* 2009 Apr 23;7:35. doi: 10.1186/1477-7827-7-35. PubMed PMID: 19389255; PubMed Central PMCID: PMC2679036.

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49: Rosen MB, Abbott BD, Wolf DC, Corton JC, Wood CR, Schmid JE, Das KP, Zehr RD, Blair ET, Lau C. Gene profiling in the livers of wild-type and PPARalpha-null mice exposed to perfluorooctanoic acid. *Toxicol Pathol.* 2008 Jun;36(4):592-607. doi: 10.1177/0192623308318208. Epub 2008 May 8. PubMed PMID: 18467677.

50: Cattaneo Z, Rosen M, Vecchi T, Pelz JB. Monitoring eye movements to investigate the picture superiority effect in spatial memory. *Perception.* 2008;37(1):34-49. PubMed PMID: 18399246.

51: Rosen MB, Lee JS, Ren H, Vallanat B, Liu J, Waalkes MP, Abbott BD, Lau C, Corton JC. Toxicogenomic dissection of the perfluorooctanoic acid transcript profile in mouse liver: evidence for the involvement of nuclear receptors PPAR alpha and CAR. *Toxicol Sci.* 2008 May;103(1):46-56. doi: 10.1093/toxsci/kfn025. Epub 2008 Feb 14. PubMed PMID: 18281256.

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54: Jackson JE, Rosen M, McLean T, Moro J, Croughan M, Cedars MI. Prevalence of celiac disease in a cohort of women with unexplained infertility. *Fertil Steril*. 2008 Apr;89(4):1002-4. Epub 2007 Jul 26. PubMed PMID: 17662282.

55: Rosen MP, Shen S, McCulloch CE, Rinaudo PF, Cedars MI, Dobson AT. Methylenetetrahydrofolate reductase (MTHFR) is associated with ovarian follicular activity. *Fertil Steril*. 2007 Sep;88(3):632-8. Epub 2007 Jun 18. PubMed PMID:

17572411.

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57: Tung JY, Rosen MP, Nelson LM, Turek PJ, Witte JS, Cramer DW, Cedars MI, Reijo-Pera RA. Novel missense mutations of the Deleted-in-AZoSpermia-Like (DAZL) gene in infertile women and men. *Reprod Biol Endocrinol*. 2006 Aug 2;4:40. PubMed PMID: 16884537; PubMed Central PMCID: PMC1557510.

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Gene expression analysis in the ventral prostate of rats exposed to vinclozolin or procymidone. *Reprod Toxicol.* 2005 Jan-Feb;19(3):367-79. PubMed PMID: 15686871.

64: Bradley RJ, Rosen MP. Subfertility and gastrointestinal disease: 'unexplained' is often undiagnosed. *Obstet Gynecol Surv.* 2004 Feb;59(2):108-17. Review. PubMed PMID: 14752299.

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