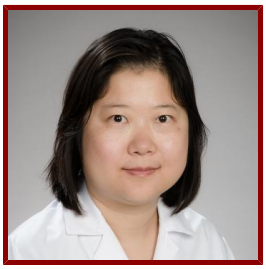
Stanford



Bo Yu, MD

Assistant Professor of Obstetrics and Gynecology (Reproductive Endocrinology and Infertility)

Obstetrics & Gynecology - Reproductive Endocrinology & Infertility

CLINICAL OFFICES

- **Stanford Medicine Fertility and Reproductive Health**

  1195 W Fremont Ave

  Sunnyvale, CA 94087

  Tel (650) 498-7911 **Fax** (669) 233-2869

Bio

CLINICAL FOCUS

- Obstetrics and Gynecology
- Reproductive Endocrinology and Infertility
- Infertility, Female
- Assisted Reproductive Technologies

ACADEMIC APPOINTMENTS

- Assistant Professor - University Medical Line, Obstetrics & Gynecology - Reproductive Endocrinology & Infertility
- Member, Maternal & Child Health Research Institute (MCHRI)

HONORS AND AWARDS

- Akiko Yamazaki and Jerry Yang Faculty Scholar in Pediatric Translational Medicine, Stanford Maternal & Child Health Research Institute (2021-2026)
- Top Doctor, Seattle Met (2019)
- Early Career Award, Society of Reproductive Investigation (2017)
- Prize Paper Presentation, American Society of Reproductive Medicine (2016, 2011)
- Young Investigator Achievement Award, Howard and Georgeanna Jones Foundation for Reproductive Medicine (2014)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Chair, Physician Scientist Interest Group, American Society of Reproductive Medicine (2020 - present)
- Research Committee, American Society of Reproductive Medicine (2019 - present)

PROFESSIONAL EDUCATION

- Board Certification: Reprod. Endocrinology and Infertility, American Board of Obstetrics and Gynecology (2016)
- Board Certification: Obstetrics and Gynecology, American Board of Obstetrics and Gynecology (2012)
- Fellowship: National Institutes of Health - Office of Education (2012) MD
- Residency: New York Presbyterian Columbia Campus OBGyn Program (2009) NY

- Medical Education: University of Michigan School of Medicine (2005) MI

LINKS

- Bo Yu Lab: https://med.stanford.edu/bo-yu.html

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Dr. Yu's lab is interested in ovarian physiology and pathology, as well as assisted reproductive technologies (ART). The main goals are to (i) develop non-invasive preimplantation genetic testing, (ii) examine the impact of ART on the long-term health and future generations, (iii) understand the initiating events of ovarian cancer for early detection. Yu lab uses a combination of cellular & molecular biology, genomics, animal model, and molecular imaging technologies to better understand molecular and pathological processes.

Publications

PUBLICATIONS

- **Single-cell analysis of transcriptome and DNA methylome in human oocyte maturation.** *PloS one*
  Yu, B. n., Doni Jayavelu, N. n., Battle, S. L., Mar, J. C., Schimmel, T. n., Cohen, J. n., Hawkins, R. D.
  2020; 15 (11): e0241698
- **Superovulation alters global DNA methylation in early mouse embryo development.** *Epigenetics*
  Yu, B. n., Smith, T. H., Battle, S. L., Ferrell, S. n., Hawkins, R. D.
  2019; 14 (8): 780–90
- **Gonadotropin-Releasing Hormone (GnRH) Agonists for Fertility Preservation: Is POEMS the Final Verse?** *Journal of the National Cancer Institute*
  Yu, B. n., Davidson, N. E.
  2019; 111 (2): 107–8
- **The impact of using donor sperm in assisted reproductive technology cycles on perinatal outcomes.** *Fertility and sterility*
  Yu, B. n., Fritz, R. n., Xie, X. n., Negassa, A. n., Jindal, S. n., Vega, M. n., Buyuk, E. n.
  2018; 110 (7): 1285–89
- **Comparison of perinatal outcomes following frozen embryo transfer cycles using autologous versus donor oocytes in women 40 to 43 years old: analysis of SART CORS data.** *Journal of assisted reproduction and genetics*
  Yu, B. n., Vega, M. n., Zaghi, S. n., Fritz, R. n., Jindal, S. n., Buyuk, E. n.
  2018; 35 (11): 2025–29
- **Genome-wide, Single-Cell DNA Methylomics Reveals Increased Non-CpG Methylation during Human Oocyte Maturation.** *Stem cell reports*
  Yu, B. n., Dong, X. n., Gravina, S. n., Kartal, Ö. n., Schimmel, T. n., Cohen, J. n., Tortoriello, D. n., Zody, R. n., Hawkins, R. D., Vijg, J. n.
  2017; 9 (1): 397–407
- **DNA methylome and transcriptome sequencing in human ovarian granulosa cells links age-related changes in gene expression to gene body methylation and 3'-end GC density.** *Oncotarget*
  Yu, B. n., Russanova, V. R., Gravina, S. n., Hartley, S. n., Mullikin, J. C., Ignezweski, A. n., Graham, J. n., Segars, J. H., DeCherney, A. H., Howard, B. H.
  2015; 6 (6): 3627–43
- **Changes in markers of ovarian reserve and endocrine function in young women with breast cancer undergoing adjuvant chemotherapy.** *Cancer*
  Yu, B. n., Douglas, N. n., Ferin, M. J., Nakhuda, G. S., Crew, K. n., Lobo, R. A., Hershman, D. L.
  2010; 116 (9): 2099–2105
- **Therapeutic effects of tumor reactive CD4+ cells generated from tumor-primed lymph nodes using anti-CD3/anti-CD28 monoclonal antibodies.** *Journal of immunotherapy (Hagerstown, Md. : 1997)*
  Li, Q. n., Yu, B. n., Grover, A. C., Zeng, X. n., Chang, A. E.
  ; 25 (4): 304–13
- **Severe ovarian hyperstimulation syndrome associated with long-acting GnRH agonist in oncofertility patients.** *Journal of assisted reproduction and genetics*

Christ, J. n., Herndon, C. N., Yu, B. n.
2021

- **Dissociation of Pubertal Development Abnormality and Gonadal Dysfunction in Childhood Cancer Survivors** *JOURNAL OF ADOLESCENT AND YOUNG ADULT ONCOLOGY*
  Yu, B., Fritz, R., Vega, M., Merino, M.
  2020; 9 (4): 490–95
- **Single-cell genome-wide bisulfite sequencing uncovers extensive heterogeneity in the mouse liver methylome.** *Genome biology*
  Gravina, S. n., Dong, X. n., Yu, B. n., Vijg, J. n.
  2016; 17 (1): 150
- **Cost-effectiveness analysis comparing continuation of assisted reproductive technology with conversion to intrauterine insemination in patients with low follicle numbers.** *Fertility and sterility*
  Yu, B. n., Mumford, S. n., Royster, G. D., Segars, J. n., Armstrong, A. Y.
  2014; 102 (2): 435–39
- **The prevalence of genuine empty follicle syndrome.** *Fertility and sterility*
  Mesen, T. B., Yu, B. n., Richter, K. S., Widra, E. n., DeCherney, A. H., Segars, J. H.
  2011; 96 (6): 1375–77
- **The role of peripheral gonadotropin-releasing hormone receptors in female reproduction.** *Fertility and sterility*
  Yu, B. n., Ruman, J. n., Christman, G. n.
  2011; 95 (2): 465–73
- **Subclinical elevations of thyroid-stimulating hormone and assisted reproductive technology outcomes.** *Fertility and sterility*
  Michalakis, K. G., Mesen, T. B., Brayboy, L. M., Yu, B. n., Richter, K. S., Levy, M. n., Widra, E. n., Segars, J. H.
  2011; 95 (8): 2634–37
- **Uterine artery embolization as an adjunctive measure to decrease blood loss prior to evacuating a cervical pregnancy.** *Archives of gynecology and obstetrics*
  Yu, B. n., Douglas, N. C., Guarnaccia, M. M., Sauer, M. V.
  2009; 279 (5): 721–24
- **Efficacy of native and hyperglycosylated follicle-stimulating hormone analogs for promoting fertility in female mice.** *Fertility and sterility*
  Trousdale, R. K., Yu, B. n., Pollak, S. V., Husami, N. n., Vidali, A. n., Lustbader, J. W.
  2009; 91 (1): 265–70
- **A systematic, multidisciplinary approach to address the reproductive needs of HIV-seropositive women.** *Reproductive biomedicine online*
  Douglas, N. C., Wang, J. G., Yu, B. n., Gaddipati, S. n., Guarnaccia, M. M., Sauer, M. V.
  2009; 19 (2): 257–63
- **Management of chyle fistula utilizing thoracoscopic ligation of the thoracic duct.** *ORL; journal for oto-rhino-laryngology and its related specialties*
  Gunnlaugsson, C. B., Iannettoni, M. D., Yu, B. n., Chepeha, D. B., Teknos, T. N.
  2004; 66 (3): 148–54