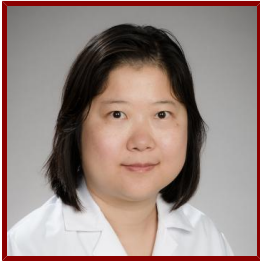


# Stanford

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## Bo Yu, MD

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

Obstetrics & Gynecology - Reproductive Endocrinology & Infertility

### CLINICAL OFFICE (PRIMARY)

- **Stanford Medicine Fertility and Reproductive Health**

1195 W Fremont Ave

Sunnyvale, CA 94087

Tel (650) 498-7911

Fax (669) 233-2888

### Bio

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#### CLINICAL FOCUS

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

#### ACADEMIC APPOINTMENTS

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

#### HONORS AND AWARDS

- Transdisciplinary Initiatives Program Award, Stanford Maternal Child Health Research Institute (2022-2024)
- 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)
- Graduation with Distinction in Research, University of Michigan Medical School (2005)
- J. Griswold Ruth, M.D., and Margery Hopkins Ruth Endowed Scholarship, University of Michigan Medical School (2004)

#### BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Chair, Physician Scientist Interest Group, American Society of Reproductive Medicine (2020 - 2021)
- Research Committee, American Society of Reproductive Medicine (2019 - present)

## PROFESSIONAL EDUCATION

- Board Certification: Reproductive 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

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### 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.

## Teaching

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### STANFORD ADVISEES

#### Postdoctoral Faculty Sponsor

David Hawke

## Publications

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### PUBLICATIONS

- **Identification of fallopian tube microbiota and its association with ovarian cancer.** *eLife*  
Yu, B., Liu, C., Proll, S. C., Manhardt, E., Liang, S., Srinivasan, S., Swisher, E., Fredricks, D. N.  
2024; 12
- **Vaginal Bacteria Elicit Acute Inflammatory Response in Fallopian Tube Organoids.** *Reproductive sciences (Thousand Oaks, Calif.)*  
Yu, B., McCartney, S., Strenk, S., Valint, D. J., Liu, C., Haggerty, C. L., Fredricks, D. N.  
2023
- **The developmental competence of human metaphase I oocytes with delayed maturation in vitro.** *Fertility and sterility*  
Moon, J. H., Zhao, Q., Zhang, J., Reddy, V., Han, J., Cheng, Y., Zhang, N., Dasig, J., Nel-Themaat, L., Behr, B., Yu, B.  
2022
- **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
- **Genome-wide, Single-Cell DNA Methylomics Reveals Increased Non-CpG Methylation during Human Oocyte Maturation.** *Stem cell reports*  
Yu, B., Dong, X., Gravina, S., Kartal, Ö., Schimmel, T., Cohen, J., Tortoriello, D., Zody, R., Hawkins, R. D., Vijg, J.  
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., Russanova, V. R., Gravina, S., Hartley, S., Mullikin, J. C., Iqbal, A., Graham, J., 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., Douglas, N., Ferin, M. J., Nakhuda, G. S., Crew, K., Lobo, R. A., Hershman, D. L.  
2010; 116 (9): 2099-105
- **DISCORDANT NON-INVASIVE PGT-A RESULTS AND CLINICAL OUTCOME**  
Curnow, E., Ryan, G. L., Yu, B.  
ELSEVIER SCIENCE INC.2023: E276
- **Vaginal bacteria elicit acute inflammatory response in fallopian tube organoids: a model for pelvic inflammatory disease.** *Research square*  
Yu, B., McCartney, S., Strenk, S., Valint, D., Liu, C., Haggerty, C., Fredricks, D. N.  
2023
- **Congenital male genital malformations and paternal health: an analysis of US claims data.** *Andrology*  
Yu, B., Zhang, C. A., Chen, T., Mulloy, E., Shaw, G. M., Eisenberg, M. L.  
2023
- **Pregnancy outcomes in women with sickle cell disease in California.** *American journal of hematology*  
Adesina, O. O., Brunson, A., Fisch, S. C., Yu, B., Mahajan, A., Willen, S. M., Keegan, T. H., Wun, T.  
2023
- **The Reproductive Competence of Human Metaphase I Oocytes with Delayed Maturation In Vitro**  
Nguyen, E., Moon, J. H., Nel-Themaat, L., Lathi, R., Yu, B.  
SPRINGER HEIDELBERG.2023: 43A-44A
- **Establishing Upper Genital Tract Organoids to Model Pathogenesis of Cancers and Infectious Diseases**  
Nguyen, E., Fredricks, D., Swisher, E., Yu, B.  
SPRINGER HEIDELBERG.2023: 145A-146A
- **Comprehensive Profiling of the Fallopian Tube Microbiome**  
Nguyen, E., Liu, C., Proll, S., Srinivasan, S., Yu, B.  
SPRINGER HEIDELBERG.2023: 208A
- **Preconception paternal comorbidities and offspring birth defects: Analysis of a large national data set.** *Birth defects research*  
Yu, B., Zhang, C. A., Li, S., Chen, T., Mulloy, E., Shaw, G. M., Eisenberg, M. L.  
2022
- **Pregnancy Outcomes in Women with Sickle Cell Disease in California: A Retrospective Cohort Study**  
Fisch, S. C., Brunson, A. M., Mahajan, A., Keegan, T., Yu, B., Wun, T., Adesina, O. O.  
AMER SOC HEMATOLOGY.2021
- **Severe ovarian hyperstimulation syndrome associated with long-acting GnRH agonist in oncofertility patients.** *Journal of assisted reproduction and genetics*  
Christ, J., Herndon, C. N., Yu, B.  
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
- **Gonadotropin-Releasing Hormone (GnRH) Agonists for Fertility Preservation: Is POEMS the Final Verse?** *Journal of the National Cancer Institute*  
Yu, B., Davidson, N. E.  
2019; 111 (2): 107-108
- **The impact of using donor sperm in assisted reproductive technology cycles on perinatal outcomes.** *Fertility and sterility*  
Yu, B., Fritz, R., Xie, X., Negassa, A., Jindal, S., Vega, M., Buyuk, E.

2018; 110 (7): 1285-1289

- **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., Vega, M., Zaghi, S., Fritz, R., Jindal, S., Buyuk, E.  
2018; 35 (11): 2025-2029
- **Single-cell genome-wide bisulfite sequencing uncovers extensive heterogeneity in the mouse liver methylome.** *Genome biology*  
Gravina, S., Dong, X., Yu, B., Vijg, J.  
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., Mumford, S., Royster, G. D., Segars, J., Armstrong, A. Y.  
2014; 102 (2): 435-9
- **The prevalence of genuine empty follicle syndrome.** *Fertility and sterility*  
Mesen, T. B., Yu, B., Richter, K. S., Widra, E., DeCherney, A. H., Segars, J. H.  
2011; 96 (6): 1375-7
- **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., Richter, K. S., Levy, M., Widra, E., Segars, J. H.  
2011; 95 (8): 2634-7
- **The role of peripheral gonadotropin-releasing hormone receptors in female reproduction.** *Fertility and sterility*  
Yu, B., Ruman, J., Christman, G.  
2011; 95 (2): 465-73
- **A systematic, multidisciplinary approach to address the reproductive needs of HIV-seropositive women.** *Reproductive biomedicine online*  
Douglas, N. C., Wang, J. G., Yu, B., Gaddipati, S., Guarnaccia, M. M., Sauer, M. V.  
2009; 19 (2): 257-63
- **Uterine artery embolization as an adjunctive measure to decrease blood loss prior to evacuating a cervical pregnancy.** *Archives of gynecology and obstetrics*  
Yu, B., Douglas, N. C., Guarnaccia, M. M., Sauer, M. V.  
2009; 279 (5): 721-4
- **Efficacy of native and hyperglycosylated follicle-stimulating hormone analogs for promoting fertility in female mice.** *Fertility and sterility*  
Trousdale, R. K., Yu, B., Pollak, S. V., Husami, N., Vidali, A., Lustbader, J. W.  
2009; 91 (1): 265-70
- **Management of chyle fistula utilizing thoroscopic ligation of the thoracic duct.** *ORL; journal for oto-rhino-laryngology and its related specialties*  
Gunnlaugsson, C. B., Iannettoni, M. D., Yu, B., Chepeha, D. B., Teknos, T. N.  
2004; 66 (3): 148-54
- **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., Yu, B., Grover, A. C., Zeng, X., Chang, A. E.  
2002; 25 (4): 304-13