**Department of Bioengineering**

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| **Faculty** | | **Title** | **Research Focus** |
|  | Russ Altman | Professor | Examination of sex-differential effects in normal tissue and drug response expression data  *PI 2018 WHSDM seed grant:* Developing a robust baseline gene expression dataset for menstrual cycle variability in blood |
|  | David Camarillo | Assistant Professor | Method for examining egg health - found that mechanical consistency of eggs can help predict quality; Will inform need for more egg collection cycles, which are expensive and invasive |
|  | Jennifer Cochran | Professor | Engineered a protein that interferes with breast and ovarian cancer signaling |
|  | Alison Marsden | Associate Professor | Fetal/developmental congenital heart disease |
|  | Stephen Quake | Professor | Non-invasive diagnosis of fetal aneuploidy in maternal blood; Single cell RNA-seq to examine changes in the human endometrium throughout the menstrual cycle |
|  | Annelise E. Baron | Associate Professor | Factors that put women at a higher risk for Alzheimer’s, including examining potential reasons for these risk differences in the context of the hypothesis that cathelicidin expression levels may be a risk factor (females naturally express substantially lower cathelicidin levels than males; for unknown reasons) |