**USF Genomics Program**

**Genomics Training Course (Laboratory) RNA-seq Illumina Sequencing Workshop**

**Date** TBA  
**Time** 9:00 am – 4:00 pm  
**Venue** IDRB404

**Goal:** 4-day intensive hands-on training to enable you to confidently prepare high-quality sample libraries for sequencing

**Introduction:** This training course includes presentations on technology theory and practical experience with entire laboratory sample prep workflow. Experienced trainers will lead you through using TapeStation and Miseq equipment. By the end of this training, you will be able to: complete Illumina library preparation process and set up a sequencing run using Illumina Miseq Control Software.

**Participants:**
- To maximize effectiveness, this training is limited to 6 participants at a time.
- A basic knowledge of biochemistry and molecular biology and familiarity with laboratory equipment usage are pre-requisites.
- Participants will need to bring your own micropipettes (10µl, 200µl and 1000µl)
- If participants wish to include their own experimental samples, each participant can prep two samples.

**Online registration:** [https://goo.gl/forms/lqxJFNKkHCOA9jSB3](https://goo.gl/forms/lqxJFNKkHCOA9jSB3)  
**Contact person:** Samantha Barnes  
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**Workshop Structure**

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<td>Illumina sequencing technology overview RNA sample Prep</td>
<td>Library Prep (1) mRNA purification, 1st, 2nd strand cDNA synthesis</td>
<td>Library Prep (2) A-Tailing, ligation, PCR amplification, Beads purification</td>
<td>qPCR quantification, Normalize &amp; pool Set up Miseq run, Base-Space</td>
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