RNA Bioinformatics Course and Symposium
August 10-14

Classes will be held in the “Simularium” Engineering Building 2 Room 180

August 9 Arrival in Santa Cruz

August 10
7:45-8:45 Breakfast (Dining hall, for those with lodging)
8:45 – 10:15 Introduction to RNA Biology and Bioinformatics (Jeppe Vinther)
10:15-10:30 Coffee Break
10:30-12:00 RNAseq data and mapping (Anders Krogh)
12:00-1:00 Lunch
1:00-2:30 UCSC Genome browser and database intro (Bob Kuhn)
2:30-2:45 Coffee break
2:45 – 4:15 UCSC Xena browser and database intro (Mary Goldman with Jing Zhu and Brian Craft)
5:00 Dinner

August 11
7:45-8:45 Breakfast (Dining hall, for those with lodging)
8:45 – 10:15 ncRNA introduction (Paul Gardner)
10:15-10:30 Coffee Break
10:30-12:00 RNA folding (Jakob Skou Pedersen)
12:00-1:00 Lunch
1:00-2:30 RNA Structure Homology Searches (Paul Gardner)
2:30-2:45 Coffee break
2:45 – 4:15 RNA Modifications – intro and mapping methods (Todd Lowe)
5:00  Dinner

August 12
7:45-8:45  Breakfast (Dining hall, for those with lodging)

8:45 – 10:15  RNA expression profiling and analysis I (Jakob Skou Pedersen)

10:15-10:30  Coffee Break

10:30-12:00  RNA expression profiling and analysis II (Angela Brooks)

12:00-1:00  Lunch

1:00-4:30  Sailing Excursion

5:00  Dinner

6:00 – 7:30  Experimental Structure Probing (Jeppe Vinther)

7:30 – 7:45  Break

7:45 – 9:30  Integrative Structure prediction (Jakob Skou Pedersen and Jeppe Vinther)

August 13
7:45-8:45  Breakfast (Dining hall, for those with lodging)

8:45 – 10:15  tRNAs: Transcription, Structure-based function prediction and new roles for tRNA fragments. (Todd Lowe)

10:15-10:30  Coffee Break

10:30-12:00  microRNA and RNA motif analysis (Anders Krogh and Jeppe Vinther)

12:00-1:00  Lunch

1:00-2:30  RNA Binding proteins and CLIP Data (Gene Yeo)

2:30-2:45  Coffee break

2:45 – 4:15  CLIP Data analysis (Gene Yeo)

5:00  Dinner at Olita’s Cantina and Grille
August 14  RNA Symposium at Baskin Auditorium 101
9:00-10:30  Session 1  - Spliceosome
10:00-10:50  Coffee Break
10:50-12:00  Session 2  - mRNPs and telomerase
12:00-1:00  Lunch
1:00-2:30  Session 3  - Ribosomes
2:30-2:45  Coffee break
2:45-3:45  Session 4  - microRNAs
3:45  Poster session and ribo-social!