

Transcriptome Year 5 Production Plans

		All Done in Duplicate *2							
	Cell Line	Compartment	RNA Type	Assay 1	Assay 2	Assay 3	Assay 4	Assay 5	Assay 6
Tier 2	GM12878	Nucleoplasm	Ribo - Total	RNA-Seq	CAGE				
	GM12878	Chromatin	Ribo - Total	RNA-Seq	CAGE				
	GM12878	Nucleolus	Ribo - Total	RNA-Seq	CAGE				
Tier 2.5	GM12878	Nucleoplasm	Small					TAP Only	
	GM12878	Chromatin	Small					TAP Only	
	GM12878	Nucleolus	Small					TAP Only	
	MCF7	Whole Cell	Poly-A+	RNA-Seq	CAGE	RNA-PET			
	MCF7	Cyto	Poly-A+	RNA-Seq	CAGE	RNA-PET			
	MCF7	Nuclear	Poly-A+	RNA-Seq	CAGE	RNA-PET			
	MCF7	Whole Cell	Small				CIP/TAP	TAP Only	Untreated
	MCF7	Cyto	Small				CIP/TAP	TAP Only	Untreated
	MCF7	Nuclear	Small				CIP/TAP	TAP Only	Untreated
	SK-N-SH	Whole Cell	Poly-A+	RNA-Seq	CAGE	RNA-PET			
	SK-N-SH	Cyto	Poly-A+	RNA-Seq	CAGE	RNA-PET			
	SK-N-SH	Nuclear	Poly-A+	RNA-Seq	CAGE	RNA-PET			
	SK-N-SH	Whole Cell	Small				CIP/TAP	TAP Only	Untreated
	SK-N-SH	Cyto	Small				CIP/TAP	TAP Only	Untreated
	SK-N-SH	Nuclear	Small				CIP/TAP	TAP Only	Untreated
	IMR90	Whole Cell	Poly-A+	RNA-Seq	CAGE	RNA-PET			
	IMR90	Cyto	Poly-A+	RNA-Seq	CAGE	RNA-PET			
	IMR90	Nuclear	Poly-A+	RNA-Seq	CAGE	RNA-PET			
IMR90	Whole Cell	Small				CIP/TAP	TAP Only	Untreated	
IMR90	Cyto	Small				CIP/TAP	TAP Only	Untreated	
IMR90	Nuclear	Small				CIP/TAP	TAP Only	Untreated	
A549	Whole Cell	Poly-A+	RNA-Seq	CAGE	RNA-PET				
A549	Cyto	Poly-A+	RNA-Seq	CAGE	RNA-PET				
A549	Nuclear	Poly-A+	RNA-Seq	CAGE	RNA-PET				
A549	Whole Cell	Small				CIP/TAP	TAP Only	Untreated	
A549	Cyto	Small				CIP/TAP	TAP Only	Untreated	
A549	Nuclear	Small				CIP/TAP	TAP Only	Untreated	
Tier 3	SkMC	Whole Cell	Ribo - Total	RNA-Seq					
	SkMC	Whole Cell	Poly-A+		CAGE				
	SkMC	Whole Cell	Small					TAP Only	
	NHDF	Whole Cell	Ribo - Total	RNA-Seq					
	NHDF	Whole Cell	Poly-A+		CAGE				
	NHDF	Whole Cell	Small					TAP Only	
	HVMF	Whole Cell	Ribo - Total	RNA-Seq					
	HVMF	Whole Cell	Poly-A+		CAGE				
	HVMF	Whole Cell	Small					TAP Only	
	HOB	Whole Cell	Ribo - Total	RNA-Seq					
	HOB	Whole Cell	Poly-A+		CAGE				
	HOB	Whole Cell	Small					TAP Only	
	HAoAF	Whole Cell	Ribo - Total	RNA-Seq					
	HAoAF	Whole Cell	Poly-A+		CAGE				
	HAoAF	Whole Cell	Small					TAP Only	
	HAoEC	Whole Cell	Ribo - Total	RNA-Seq					
	HAoEC	Whole Cell	Poly-A+		CAGE				
	HAoEC	Whole Cell	Small					TAP Only	
	HCH	Whole Cell	Ribo - Total	RNA-Seq					
	HCH	Whole Cell	Poly-A+		CAGE				
	HCH	Whole Cell	Small					TAP Only	
	HFDP	Whole Cell	Ribo - Total	RNA-Seq					
	HFDP	Whole Cell	Poly-A+		CAGE				
	HFDP	Whole Cell	Small					TAP Only	
	HMEpC	Whole Cell	Ribo - Total	RNA-Seq					
	HMEpC	Whole Cell	Poly-A+		CAGE				
	HMEpC	Whole Cell	Small					TAP Only	
	hMSC-AT	Whole Cell	Ribo - Total	RNA-Seq					
	hMSC-AT	Whole Cell	Poly-A+		CAGE				
	hMSC-AT	Whole Cell	Small					TAP Only	
	hMSC-BM	Whole Cell	Ribo - Total	RNA-Seq					
	hMSC-BM	Whole Cell	Poly-A+		CAGE				
	hMSC-BM	Whole Cell	Small					TAP Only	
	hMSC-UC	Whole Cell	Ribo - Total	RNA-Seq					
	hMSC-UC	Whole Cell	Poly-A+		CAGE				
	hMSC-UC	Whole Cell	Small					TAP Only	
	HPC-PL	Whole Cell	Ribo - Total	RNA-Seq					
	HPC-PL	Whole Cell	Poly-A+		CAGE				
	HPC-PL	Whole Cell	Small					TAP Only	
	HPIEpC	Whole Cell	Ribo - Total	RNA-Seq					
	HPIEpC	Whole Cell	Poly-A+		CAGE				
	HPIEpC	Whole Cell	Small					TAP Only	
	hMNC-CB	Whole Cell	Ribo - Total	RNA-Seq					
	hMNC-CB	Whole Cell	Poly-A+		CAGE				
	hMNC-CB	Whole Cell	Small					TAP Only	
	hMNC-PB	Whole Cell	Ribo - Total	RNA-Seq					
	hMNC-PB	Whole Cell	Poly-A+		CAGE				
	hMNC-PB	Whole Cell	Small					TAP Only	
HWP	Whole Cell	Ribo - Total	RNA-Seq						
HWP	Whole Cell	Poly-A+		CAGE					
HWP	Whole Cell	Small					TAP Only		
NHEM.f M2	Whole Cell	Ribo - Total	RNA-Seq						
NHEM.f M2	Whole Cell	Poly-A+		CAGE					
NHEM.f M2	Whole Cell	Small					TAP Only		
NHEM M2	Whole Cell	Ribo - Total	RNA-Seq						
NHEM M2	Whole Cell	Poly-A+		CAGE					
NHEM M2	Whole Cell	Small					TAP Only		
HSaVEC	Whole Cell	Ribo - Total	RNA-Seq						
HSaVEC	Whole Cell	Poly-A+		CAGE					
HSaVEC	Whole Cell	Small					TAP Only		

Total Libraries Y5

RNA-Seq 35*2 = 70
CAGE 35*2 = 70
RNA-PET 12*2 = 24
Small 59*2 = 118

Additional Activity in Year 5

1. RIP-Seq in Collaboration with the T'baum Lab
2. PacBio in Collaboration with Stylianos Lab
3. Anything Else