NCI Division of Cancer Biology Information Related to Element 1A in NIH Data Management and Sharing (DMS) Plans

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Example of a tabular format to describe all data generated under the proposed project for Element 1A in DMS Plans

Type of Data	Species	Sample Type	Platform/Source	# of Samples
scRNA sequencing data	Human	Primary tumor	Illumina	10 tumors with matched normal
				= 20 samples
				total
Whole RNA	Human	Primary tumor	Illumina	15 breast
sequencing data				primary tumors
				with 1 matched
				metastasis
				sample= 30
				samples
Targeted RNA	Human	Cell line	Illumina	20 samples from
sequencing data from				1 patient-derived
CRISPR/ORF screen				cell line
Bio-TAP-XL	Mouse	Cell line	Thermo Velos	10 samples from
proteomics			Elite Orbitrap	one cell line
			Mass	
			Spectrometer	
Cell biological assays:	Mouse	Cell line		5 mouse cell
qRT-PCR, Westen				lines
Blots, cell viability				
assays, ELISA				
HiPLex RNAscope	Mouse	Primary tumor	ACD Bio; ~12 RNA	30 mouse
			probes	tumors
Immunofluorescence,	Mouse	Primary tumor,	20-25 antibodies	20 mouse
IHC		cell lines		tumors, 5 mouse
				cell lines
Flow Cytometry	Mouse	Primary tumor	BD FACSCanto II	20 mouse tumor
				and 20 adjacent
				non-tumor tissue

Type of Data	Data Examples	# of Human Specimens (including Human Cell Lines)	# of Model Organisms, Non- Human Cell Lines, Infectious Organisms, etc.			
SNP array data from >500k single nucleotide polymorphisms (SNPS)	GWAS Data	1,000	500			
DNA sequence data from < 100 genes or regions of interest	Targeted Sequencing	1,000	500			
DNA sequence data from ≥ 100 genes or regions of interest	Targeted Sequencing, Whole Exome Sequencing, Whole Genome Sequencing	100	50			
Genome-wide RNA sequencing data ***	Transcriptomic Data	100	50			
Genome-wide DNA methylation data	Bisulfite Sequencing Data	100	50			
Genome-wide chromatin immunoprecipitation sequencing (ChIP-seq) data	Transcription Factor ChIP-seq, Histone Modification ChIP-seq	100	50			
Metagenome (or microbiome) sequencing data	16S rRNA Sequencing, Shotgun Metagenomics, Whole- Genome Microbial Sequencing	100	50			
Metatranscriptome sequencing data	Microbial/Microbiome Transcriptomics	100	50			
SNP array data from >500k single nucleotide polymorphisms (SNPS)	GWAS Data	1,000	500			

NIH Genomic Data Sharing (GDS) policy thresholds for large-scale data

If any single cell sequencing data is being generated, the GDS policy applies if over 50 individual cells will be profiled.