**AUTHENTICATION OF KEY BIOLOGICAL and/or CHEMICAL RESOURCES**

**Cell Lines:**

CSHL runs a central service designed to comply with NIH rules regarding the authentication of cell lines. In particular, this facility expands and stores a variety of human cell lines, tests these lines for mycoplasma contamination, and confirms cell line identity through Short Tandem Repeat (STR) profiling of genomic DNA (done off-site). The proposed experiments will use HeLa and/or other human cell lines provided and validated through this shared resource. Any new cell lines created in the course of Dr. Kinney’s experiments will, in a similar manner, be tested for mycoplasma contamination and validated using STR profiling.

**Chemical agents:**

We do not plan to generate new chemical resources as part of this proposal, but will rather use previously published, well-characterized chemical agents.

**Microbial strains:**

The genotypes of bacterial strains used in the proposed experiments will be confirmed by whole-genome sequencing. Key phenotypes will be validated using growth assays, flow cytometry, and microscopy.

**Statistics:**

Dr. Kinney and Dr. McCandlish are experts in statistics and will oversee the execution of all statistical methods reported in the publications that arise from this research. The CSHL Cancer Center also has an Animal and Tissue Imaging Shared Resource that provides biostatistics support for all animal experiments.