Appendix 1

Liver nuclear extracts

Buffer A	
10mM KHEPES pH 7.9,	
10mM KCI,	
1.5mM MgCl2,	
0.5mM DTT	

0.5mM D11, 1mM PMSF. protease inhibitors (Roche),

10mM Nicotinamide, 1µM TSA,

phosphatase inhibitors

Buffer B

20mM KHEPES pH 7.9.

400mM NaCl.

1.5mM MgCl2,

0.5mM DTT. 0.2mM EDTA.

1mM PMSF,

protease inhibitors (Roche),

10mM Nicotinamide, 1µM TSA, and

phosphatase inhibitors -Incubate ~300mg pulverized liver in 1.0mL Buffer A for 20 minutes on ice

-Resuspend pellet in 200uL Buffer B -rotate for 20 minutes at 4°C

-Homogenize using a Tissue Miser (Fisher) for 10 seconds on medium speed

-spin for 10 minutes at 16K RPM 4°C -Quantitate Protein.

-Remove supernatant

-spin 3 minutes 4K RPM at 4°C

10µg of nuclear extract were run on SDS-PAGE and probed with antibodies: SIRT1 (Upstate), anti-PGC-

1α (a generous gift from the laboratory of Marc Montminy), FOXO1 (Santa Cruz, H-128), HNF-4α (Santa Cruz, H-171), and Actin (Lab Vision).