

## Exceptional longevity (EL)-specific iPSC library

Exceptional longevity (EL)-specific iPSC Bank. Our research group (which includes Drs. Thomas Perls, Paola Sebastiani and collaborations with the Long Life and New England Centenarian Studies) has perhaps the longest and most productive experience of any in the world in recruiting, enrolling and collecting data and biological samples from centenarians. We created a bank of EL-specific iPSC lines by procuring starting samples from subjects identified to have a demonstrated history of exceptional longevity with a median age at time of collection of 105 years. This flexible, longevity-specific iPSC library represents a permanent, one-of-a-kind resource that can be harnessed by any investigator in the world for molecular analyses of aging as well as the performance of functional assays necessary to validate findings from other data banks, tissue repositories, or models. These banks of cells can also be used for transcriptomic and proteomic profiling, in vitro functional assays, and eventually, for the identification of novel therapeutics against acute disease and age-related illness.

