

October 22, 2019

To: JoVE Editor

Dear Sir or Madam,

Please find the enclosed manuscript “**RiboTag immunoprecipitation in the germ cells of the male mouse**”, for consideration of publication in JoVE.

The RiboTag protocol, initially published in 2009 by Sanz and colleagues, has become a landmark method for understanding the translome of specific cell types in complex tissues. In this work, we describe a more practical method of conducting this protocol in the germ cells of the testis, a translationally complex and critical system. By employing stringent breeding schemes, verifying the efficacy of flash frozen tissue, and adding a pre-clear step to greatly abrogate nonspecific background, we mitigate a number of established issues with the existing protocol.

The method illustrated in this work represent improvements on the published RiboTag protocol and describe in detail the means by which to apply these methods to the murine male germ cell, providing key notes to facilitate the application of the method to other systems. As such, they should appeal to the scientifically diverse readership of JoVE.

All authors have agreed to the submission of this manuscript and declare no potential conflicts of interest. All Supplemental Materials are for final publication.

Thank you very much for your attention.

Sincerely,



Elizabeth M. Snyder, PhD