Intranasal Instillations in Mice

1. Prepare ribonucleoprotein/peptide complex on ice immediately prior to instillation. Calculate required amounts of each component, and add in order: sterile saline, peptides, ribonucleoprotein. Mix gently. Store on ice until instillation
2. Anesthetize mice with Ketamine/xylazine mix (dose 87.5mg/kg ketamine/12.5mg/kg xylazine, Concentration 17.5mg/cc ketamine/ 2.5mg/cc xylazine) i.p. Approximately 0.1ml/20g mouse.
3. When the mouse is in a deep plane of anesthesia, hold the mouse in your palm and instill 50ul to the nares of the mice using a pipette. Instill slowly so the mouse can breathe the solution in. If the mouse starts to “blow bubbles”-it is still too awake.

Preparation of 17.5 mg/ml ketamine + 2.5 mg/ml xylazine:

1 ml

175 µl of 100 mg/ml ketamine

125 µl of 20 mg/ml xylazine

700 µl of sterile PBS

2 ml

350 µl of 100 mg/ml ketamine

250 µl of 20 mg/ml xylazine

1.4 ml of sterile PBS