1. RNA isolation for tissue V.1

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Protocol status: In development
We are still developing and optimizing this protocol.

Created: Mar 23, 2019
1. Homogenization in TriZol
   Add 1mL of Trizol reagent per 30mg of tissue and homogenize using handheld homogenizer

2. Incubate at RT for 5 mins to allow nucleoprotein complexes to dissociate

3. Add 1/5 the volume of trizol of chloroform carefully, and vortex to mix well

4. Spin down at max speed, chilled centrifuge for 15 minutes

5. Carefully remove the top aqueous phase and transfer to a new Eppendorf tube
   The interphase and bottom organic phase can be saved for DNA and protein respectively

6. To the aqueous phase, add 500 microliters of 100% isopropanol, mix by inversion and incubate at
   -20C for a minimum for 2hrs

7. Spin down at max speed for 30 minutes to precipitate RNA

8. Remove supernatant, and add 1mL of 75% Ethanol to wash the pellet
9  Spin down at max speed for 15 minutes and remove supernatant

10  Resuspend pellet in appropriate volume of nuclease free water