

## Introduction

- Rapid eye movement (**REM**) sleep plays an important role in memory consolidation, potentially mediated by phasic electrical events known as **P-waves** (Datta et al., 2004, Karashima et al., 2005))
- Previous research from the Weber lab suggests that medullary CRH+ neurons promote REM sleep in mice, and exhibit increased activity during P-waves in the subcoeruleus

# **Research Questions**

- What are the endogenous firing patterns of pontine neurons that generate P-waves?
- Do these neurons receive input from dmM CRH+ neurons?

### Methods

- CRH+ axor
- Simultaneous single-unit recording of pontine neurons and optogenetic stimulation of local dmM CRH+ axons



