## The

## Cancer borealis

STG guide

## The foregut



## The Cancer borealis Stomatogastric Nervous System



## The pyloric rhythm



The Cancer borealis gastric and pyloric networks


# Pyloric and Gastric Mill muscles and innervation 



## Neuromodulation in the STNS



## Some STNS Projection and sensory neurons



## MCN1-elicited Gastric Mill Rhythm



## VCN-triggered Gastric Mill Rhythm



Post VCN Stimulation


## Pyloric Neurons



## Gastric Mill Neurons

Gastric Mill Rhythm Off
Int1


GM






MG




## Cancer borealis

## RECORDINGS OF PYLORIC

# AND GASTRIC CELLS DURING 

## THE ONGOING PYLORIC

RHYTHM
(NO GASTRIC RHYTHM)

## PD-timed cells



No spikes on stn

AB

on Ivn, pdn
PD


4


LPG


## LP-timed cells


before LP, bump during trough, $P Y$ inhibition dominates, fewer spikes than LP on mun

IC

slightly before LP,
PD inhibition dominates,
fewer spikes than LP on Ivn, Ign

## PY-timed cells


convex rebound on Ivn, pyn

very long duty cycle on stn

Int1

bump after last spike (failure-like), fewer spikes than PY on mvn
VD


## Pure Gastric Cells



GM


High frequency of
PSPs not locked on pyloric cells on dgn, Ivn

