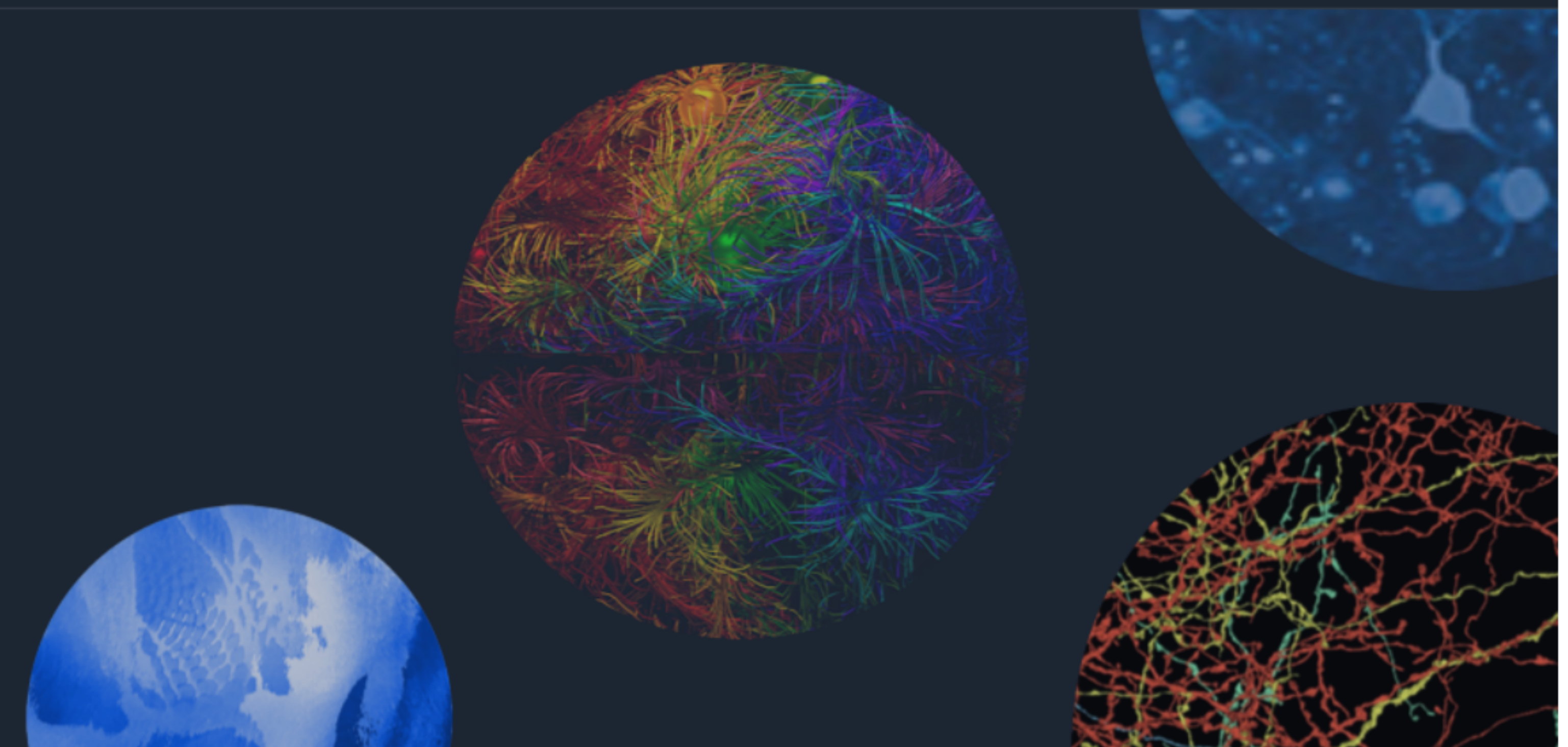


Basic Generalized Linear Models with NeMoS

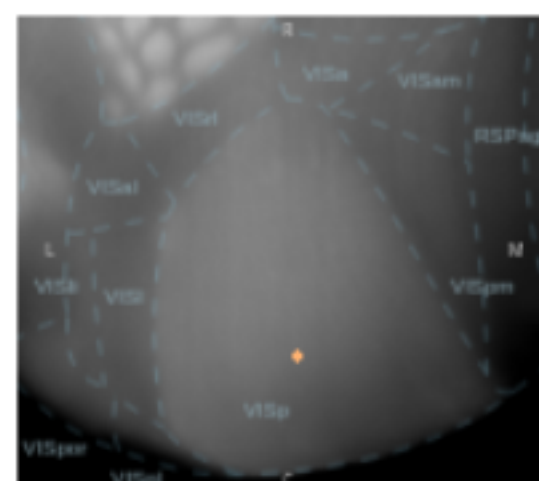
Billy Broderick

FENS 2024

Accelerating progress
toward understanding
the brain

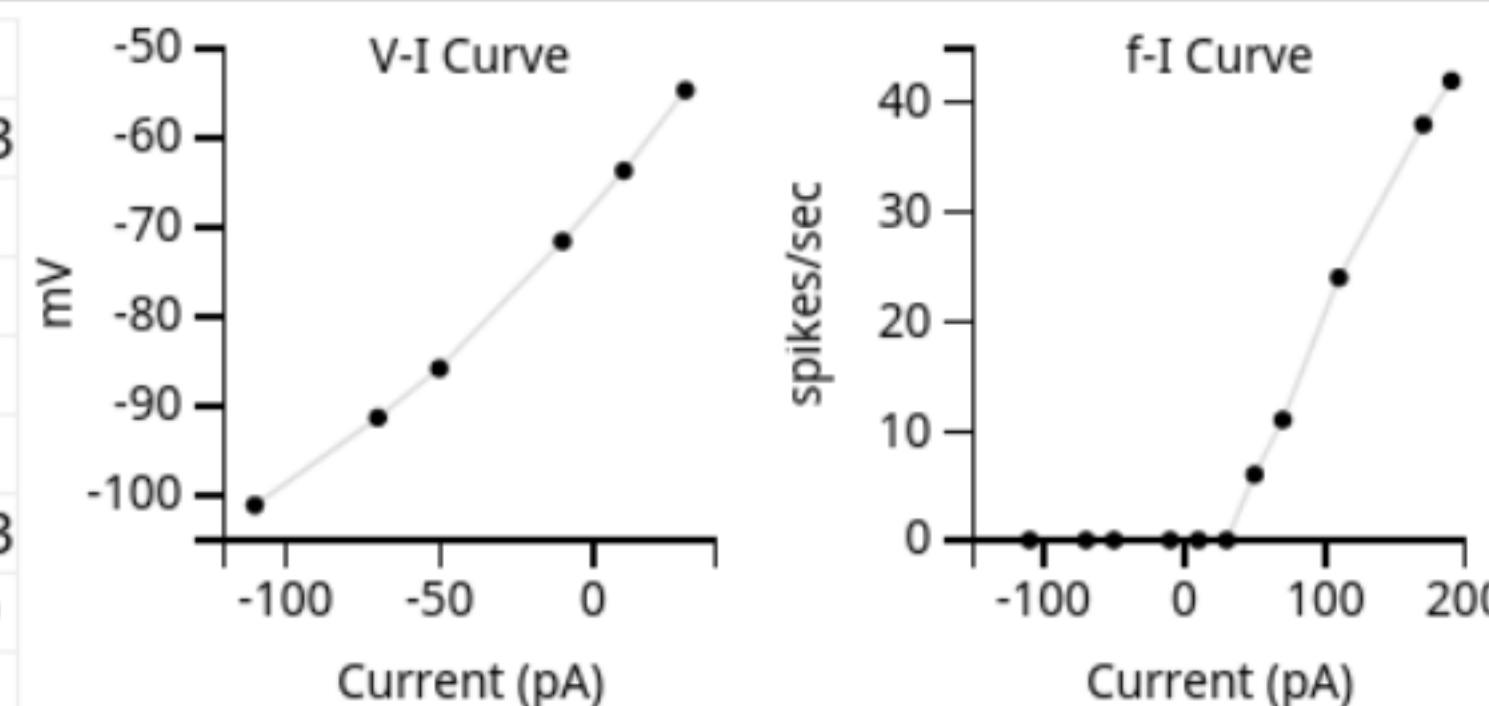


Electrophysiology Summary



Mouse Line **Rorb-IRES2-Cre**
ID 478498617
Area **Primary visual area**
Layer **4**
Cell Reporter
Dendrite Type spiny
Apical Dendrite truncated
Hemisphere left

Upstroke:downstroke ratio 3.81
Adaptation Index 0.023
Rheobase 50
Membrane Time Constant 26.1
Firing Rate 24.1
Input Resistance 332
Ramp Spike Time 2.273
Resting Potential -67.9
F/I Curve Slope 0.30

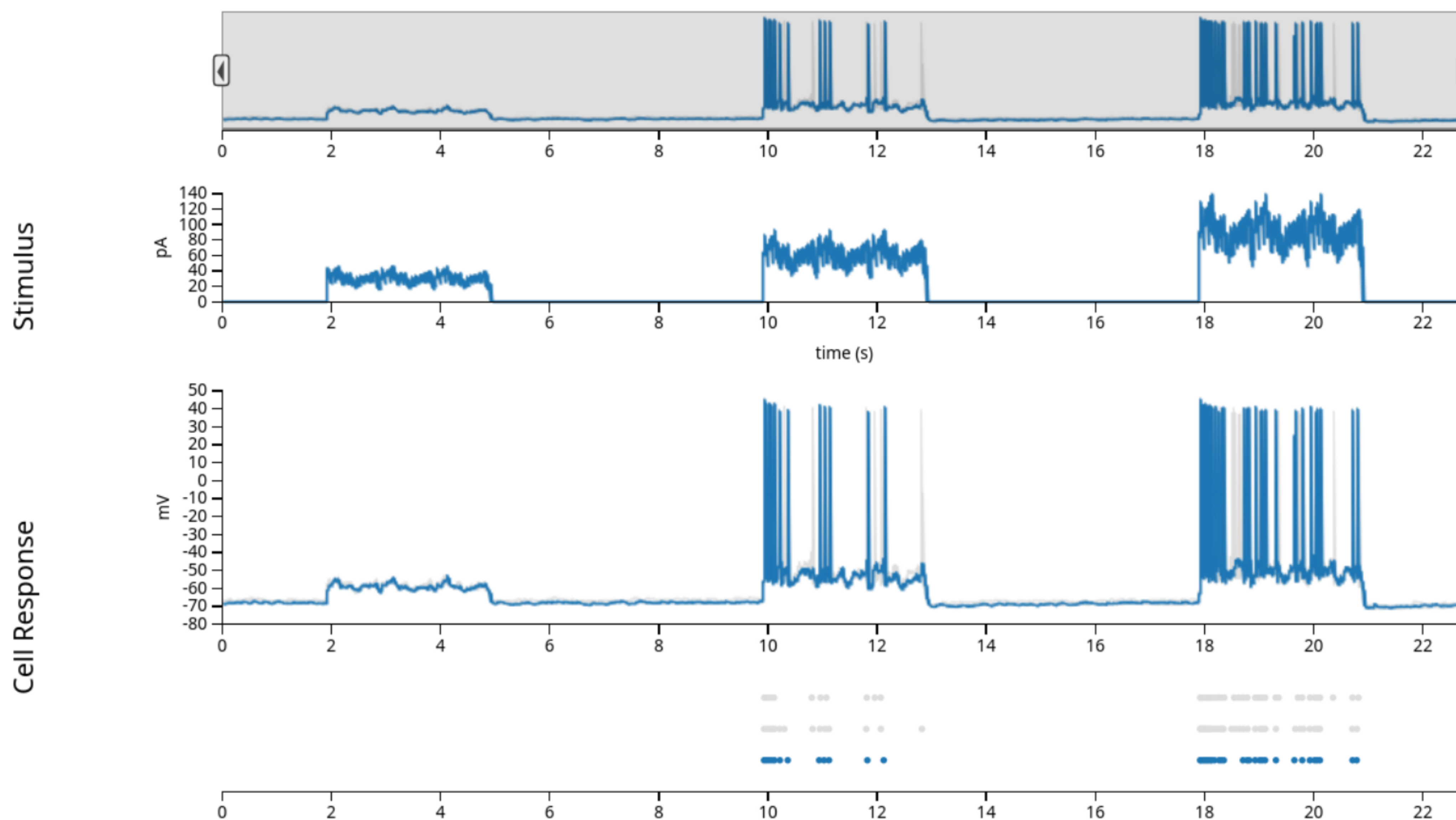


Browse Electrophysiology Data

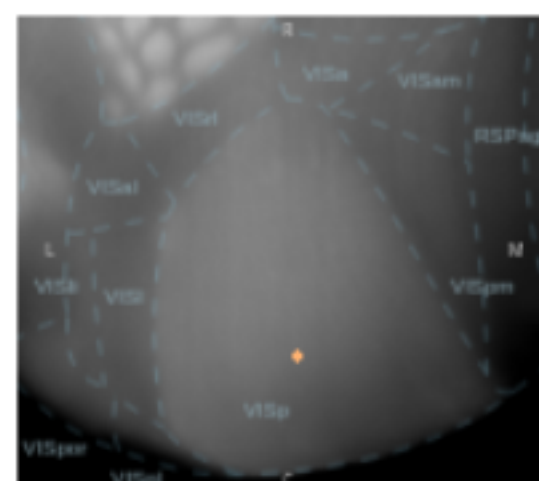
Select stimulus type **Noise 1** Select neuronal model **-- Show model response --** [Download data](#)

Select sweep: ☒ ☐ ☐

Sweep: 50 Stimulus amplitude: 139 pA Number of spikes: 40

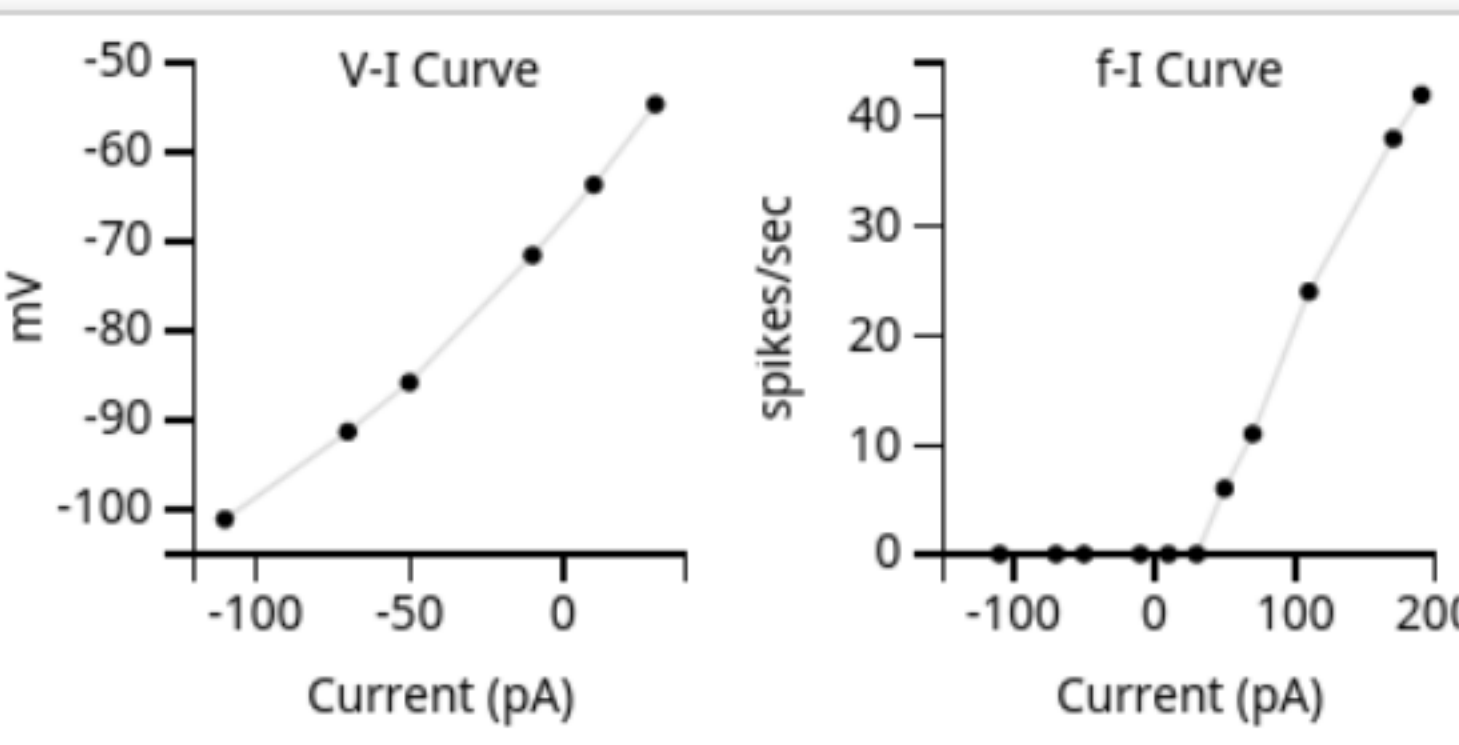


Electrophysiology Summary



Mouse Line	Rorb-IRES2-Cre
ID	478498617
Area	Primary visual area
Layer	4
Cell Reporter	
Dendrite Type	spiny
Apical Dendrite	truncated
Hemisphere	left

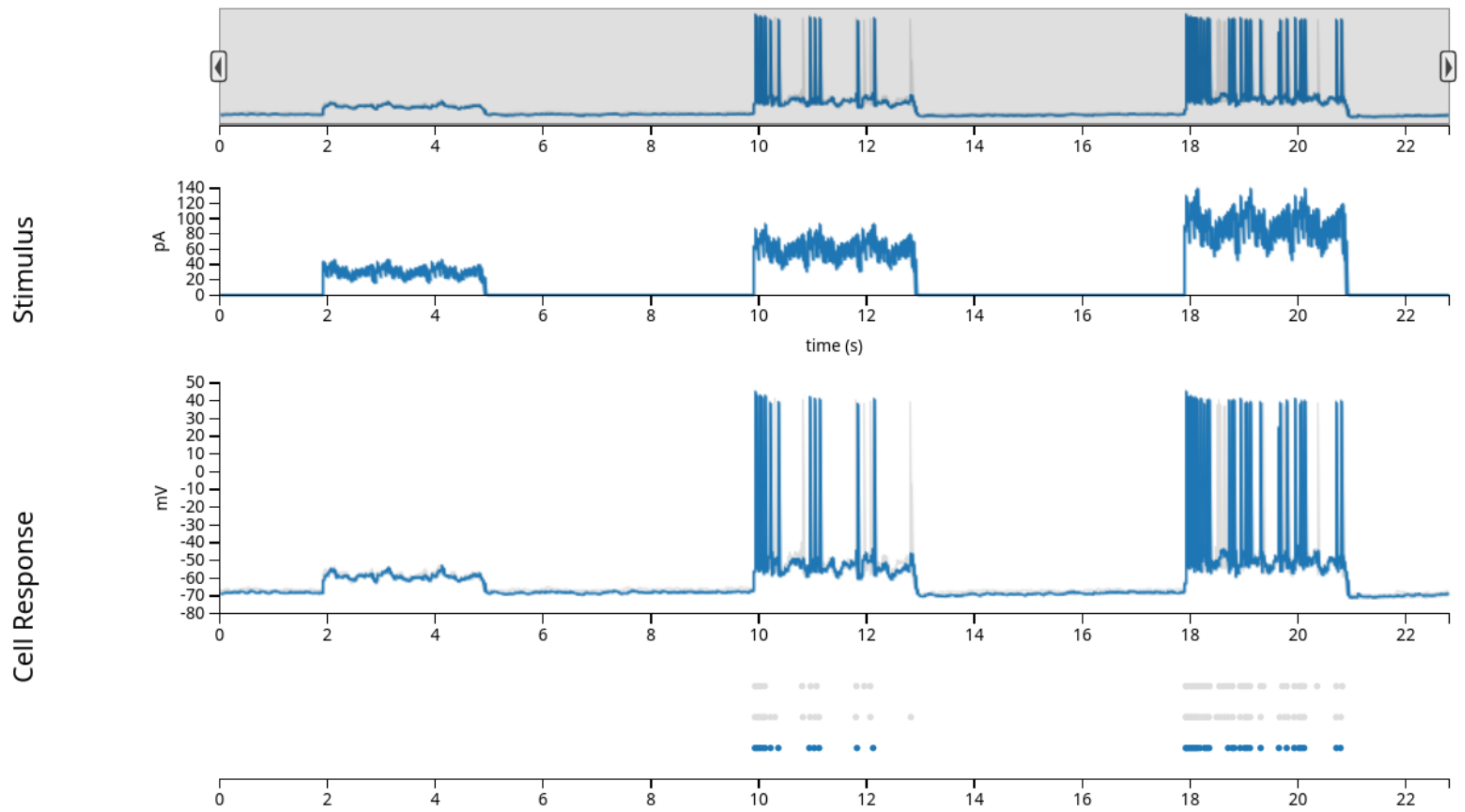
Upstroke:downstroke ratio	3.81
Adaptation Index	0.023
Rheobase	50
Membrane Time Constant	26.1
Firing Rate	24.1
Input Resistance	332
Ramp Spike Time	2.273
Resting Potential	-67.9
F/I Curve Slope	0.30



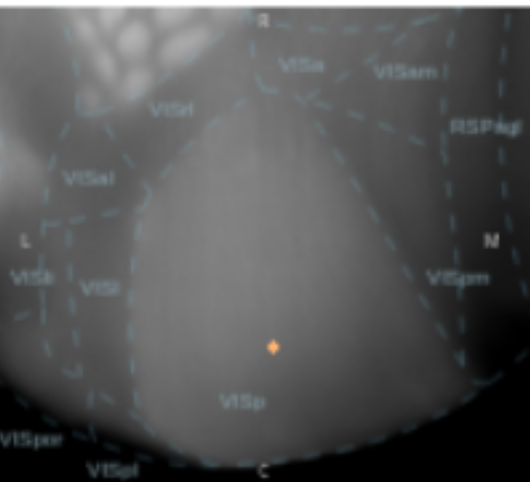
Browse Electrophysiology Data

Select stimulus type Noise 1
Select neuronal model -- Show model response --
[Download data](#)

Select sweep: ☒ ☐ ☐
Sweep: 50 Stimulus amplitude: 139 pA Number of spikes: 40



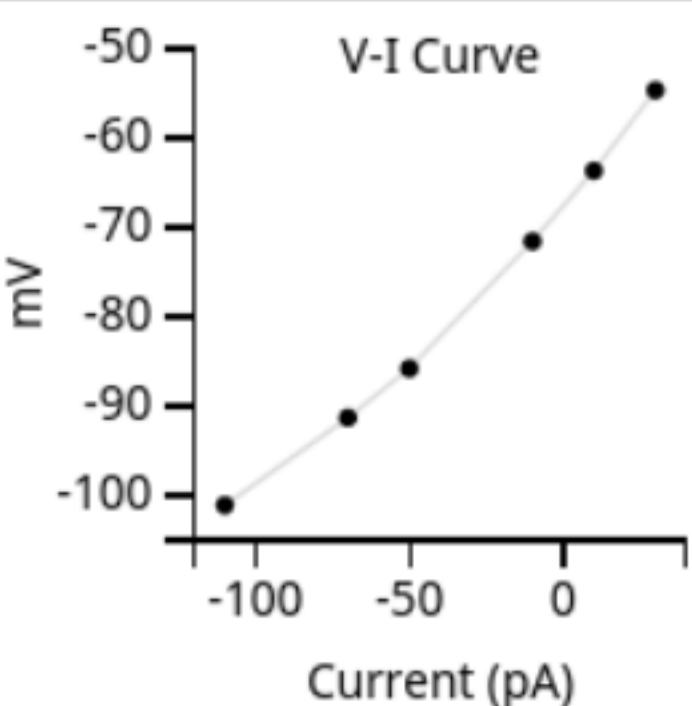
Electrophysiology Summary



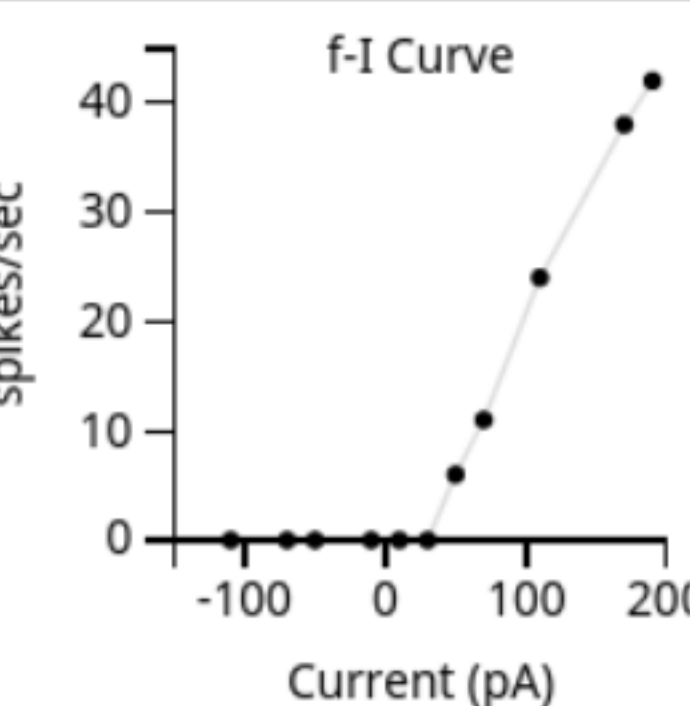
Mouse Line Rorb-IRES2-Cre
ID 478498617
Area Primary visual area
Layer 4
Cell Reporter
Dendrite Type spiny
Apical Dendrite truncated
Hemisphere left

Upstroke:downstroke ratio 3.81
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Membrane Time Constant 26.1
Firing Rate 24.1
Input Resistance 332
Ramp Spike Time 2.273
Resting Potential -67.9
F/I Curve Slope 0.30

V-I Curve



f-I Curve



Browse Electrophysiology Data

Select stimulus type ? **Noise 1** ▼

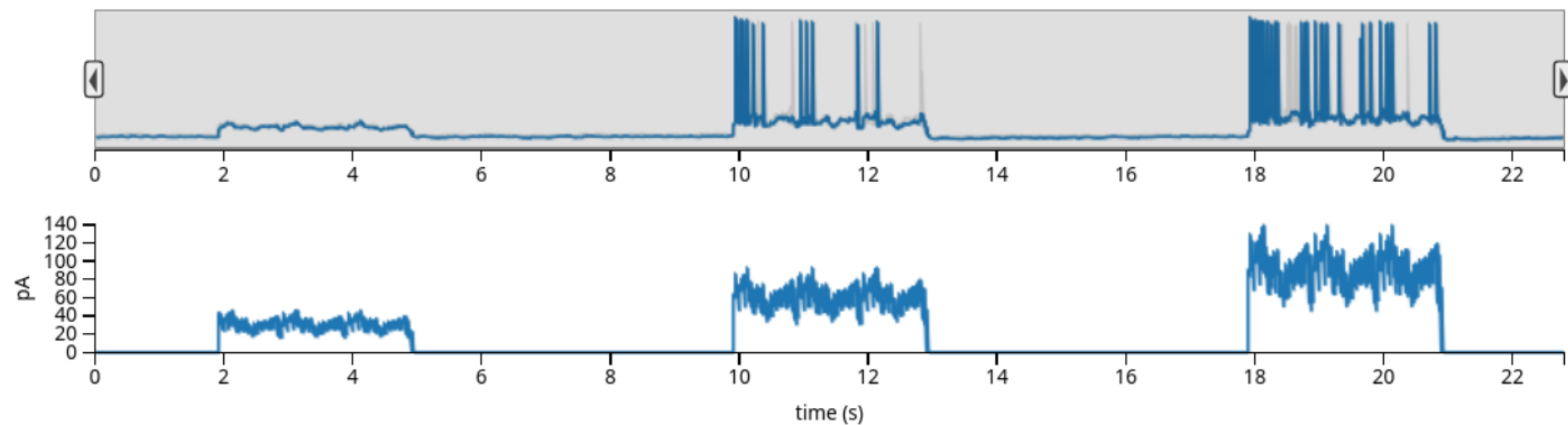
Select neuronal model ? **-- Show model response --** ▼

[Download data](#) ?

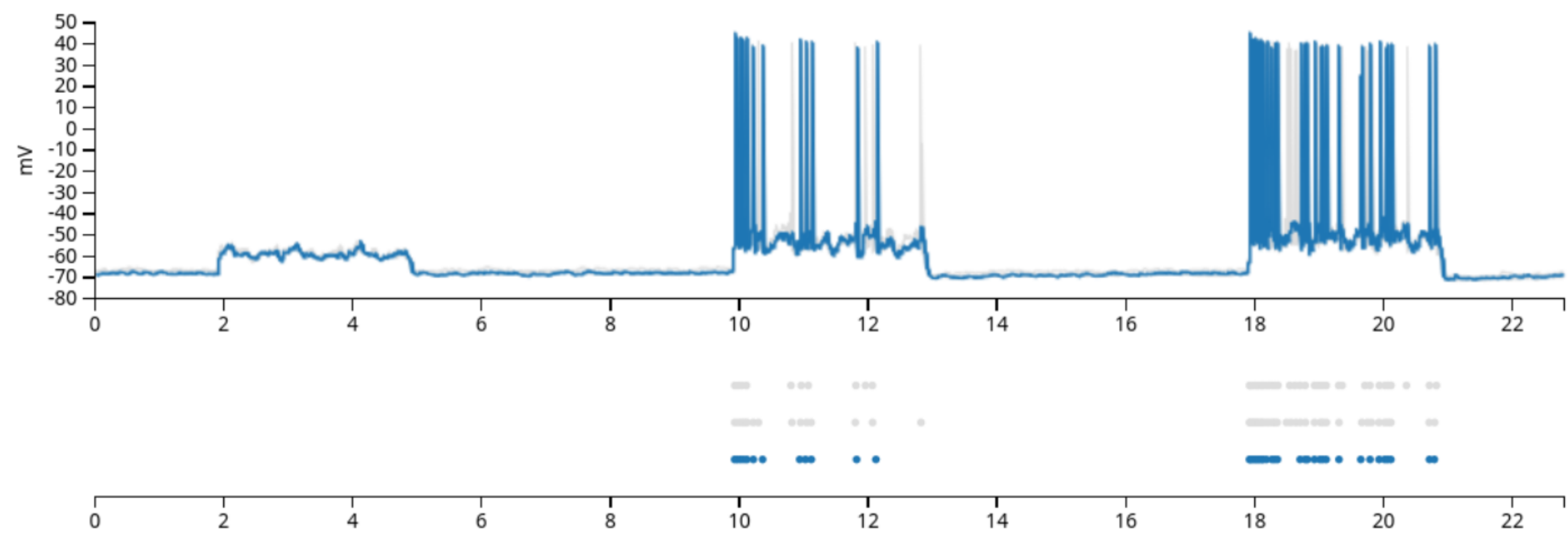
Select sweep: ☒ ☐ ☐

Sweep: 50 Stimulus amplitude: 139 pA Number of spikes: 40

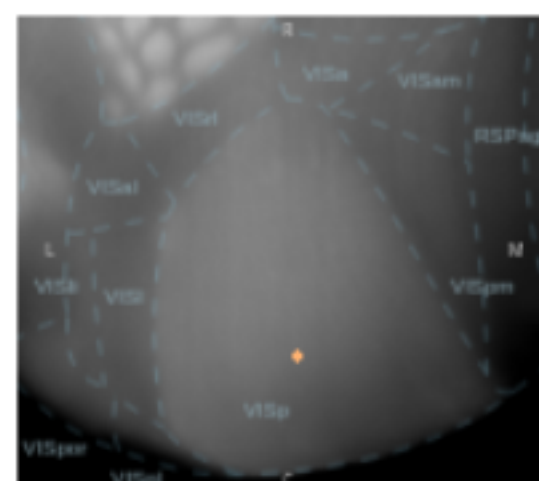
Stimulus



Cell Response

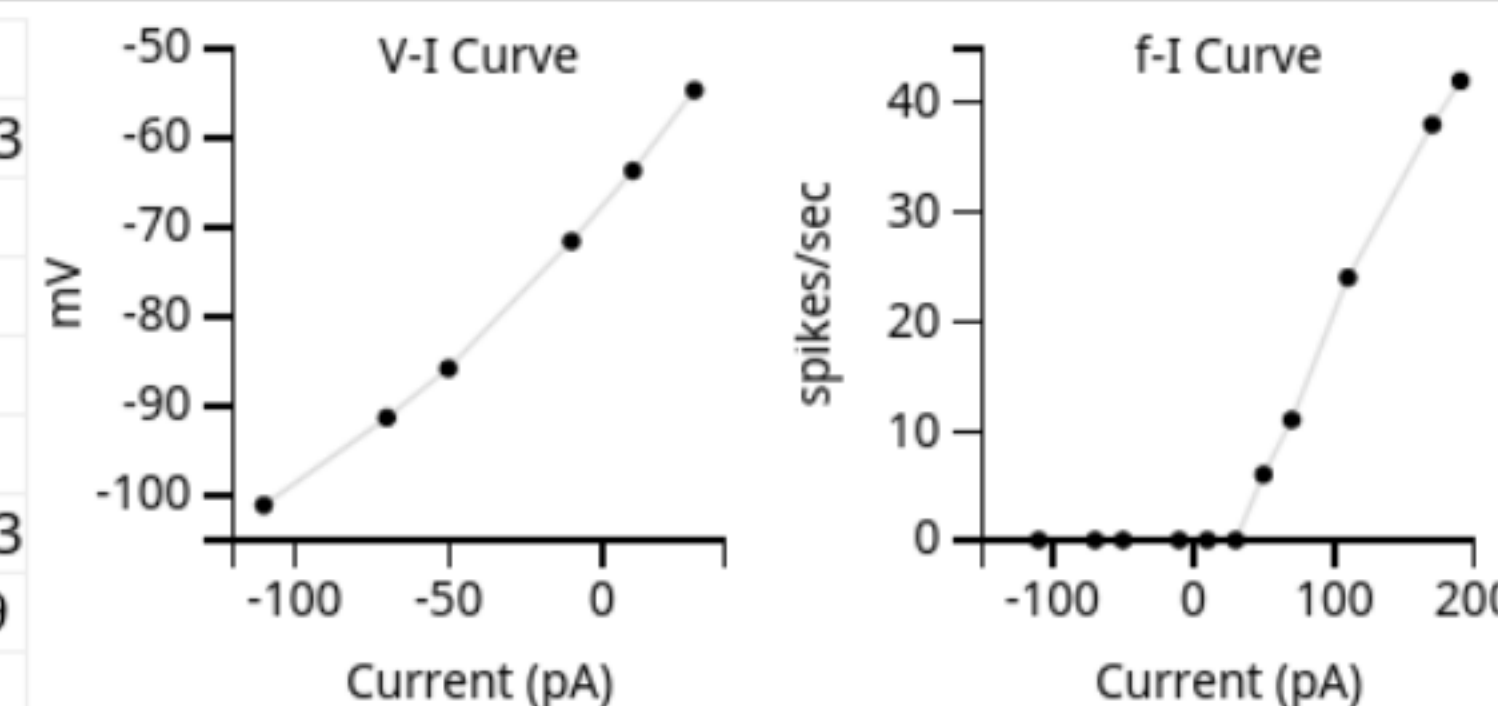


Electrophysiology Summary



Mouse Line **Rorb-IRES2-Cre**
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Cell Reporter
Dendrite Type spiny
Apical Dendrite truncated
Hemisphere left

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Browse Electrophysiology Data

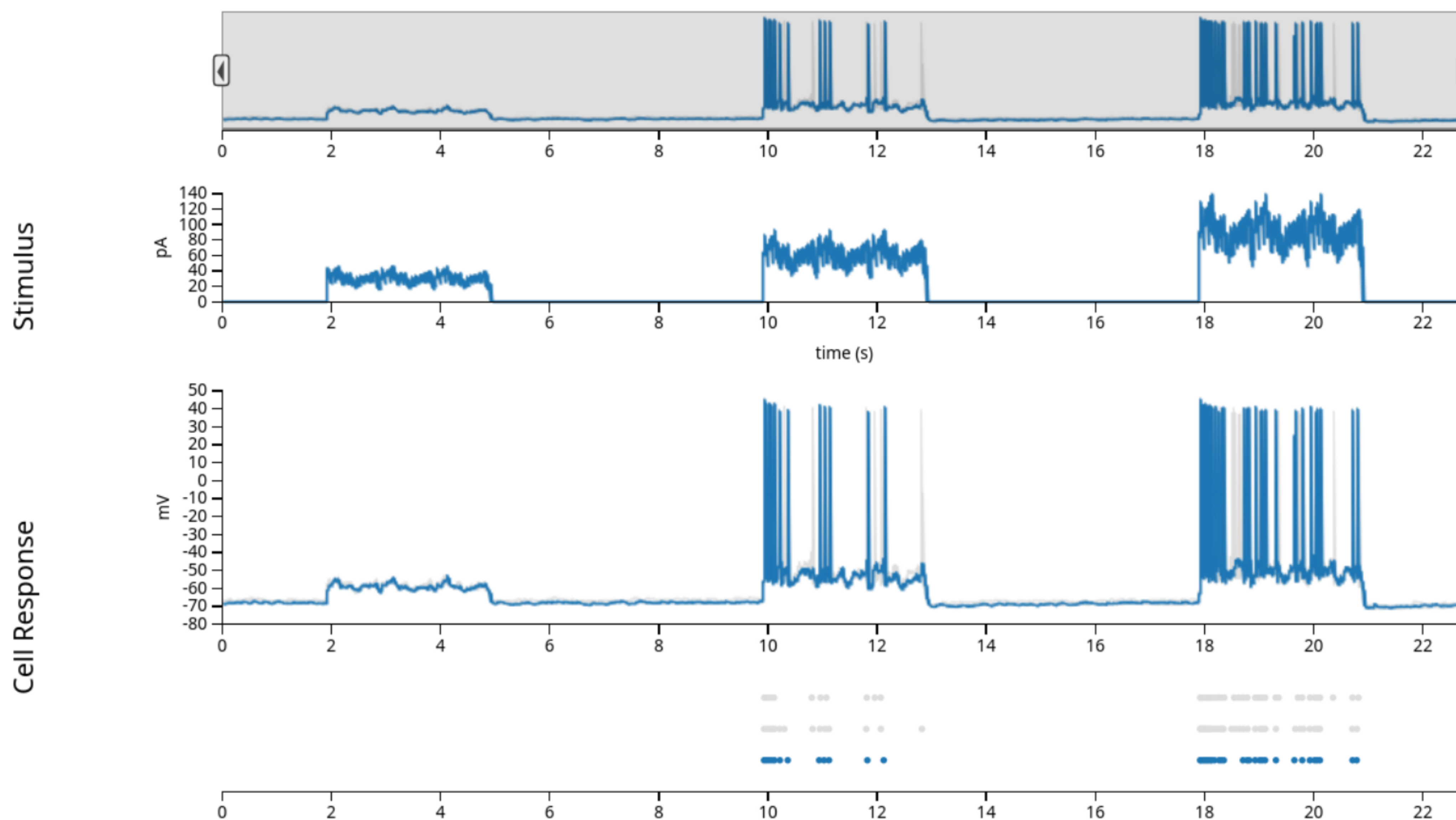
Select stimulus type ?
Noise 1

Select neuronal model ?
-- Show model response --

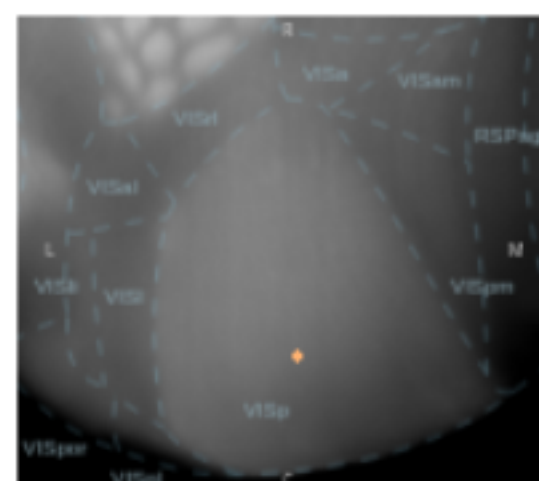
[Download data ?](#)

Select sweep: ☒ ☐ ☐

Sweep: 50 Stimulus amplitude: 139 pA Number of spikes: 40

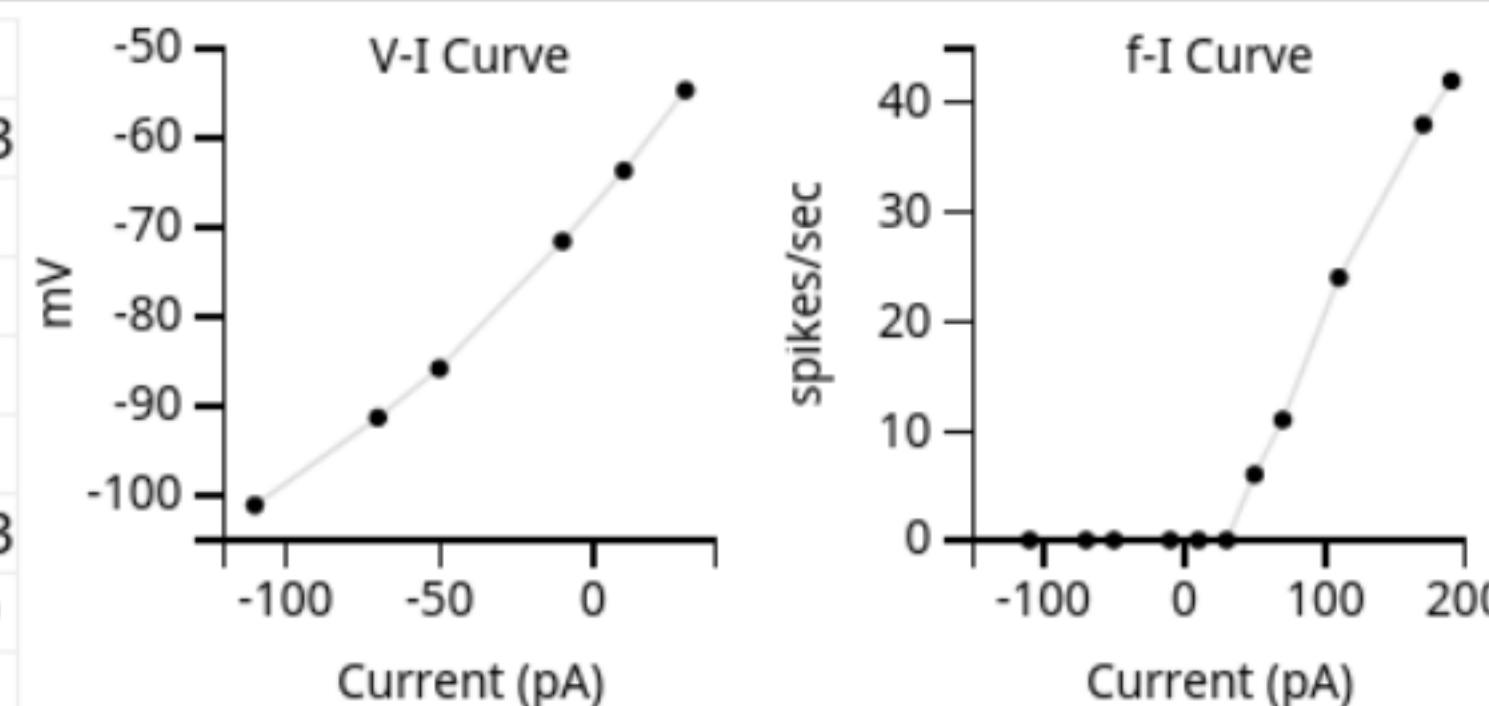


Electrophysiology Summary



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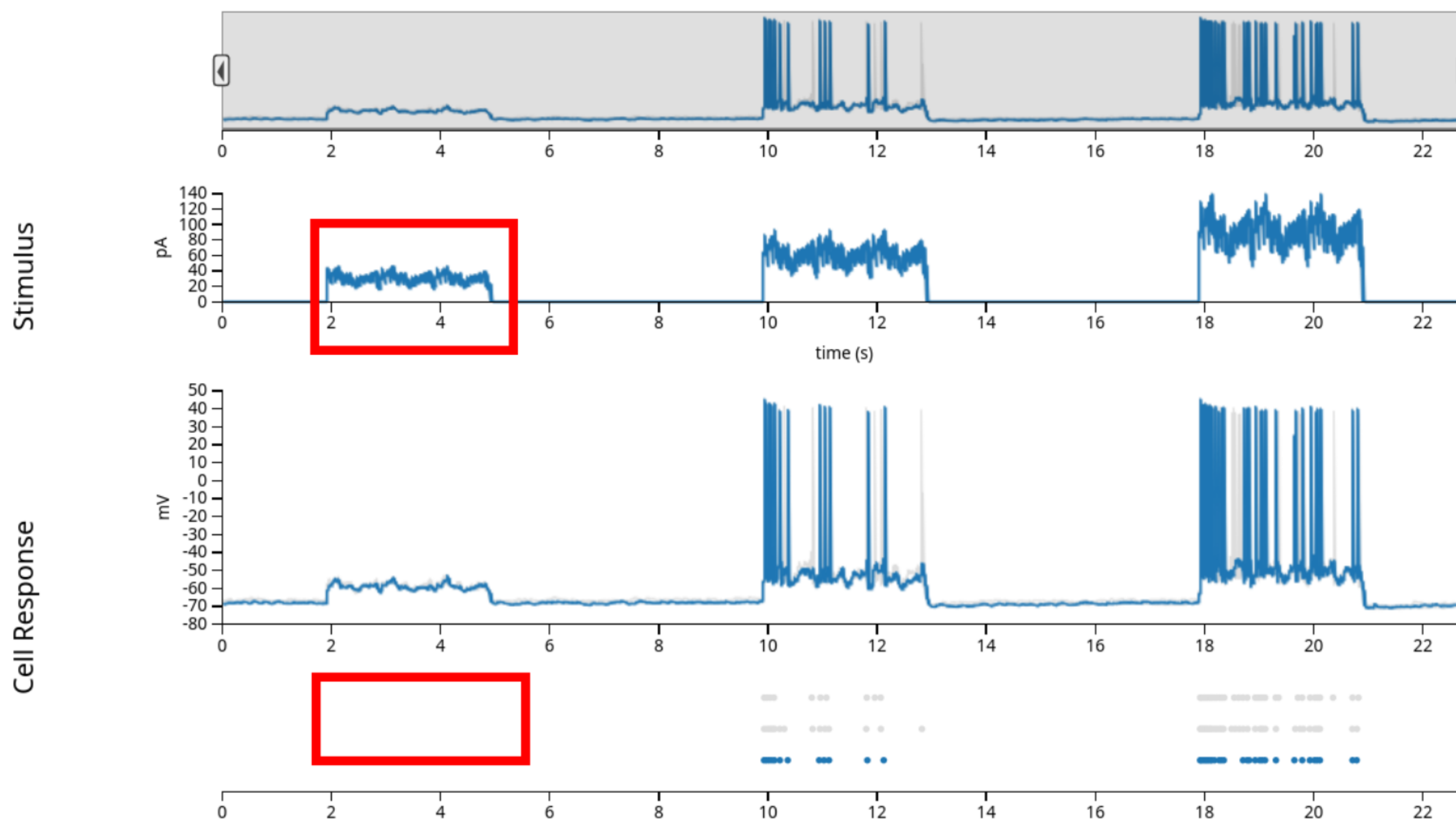
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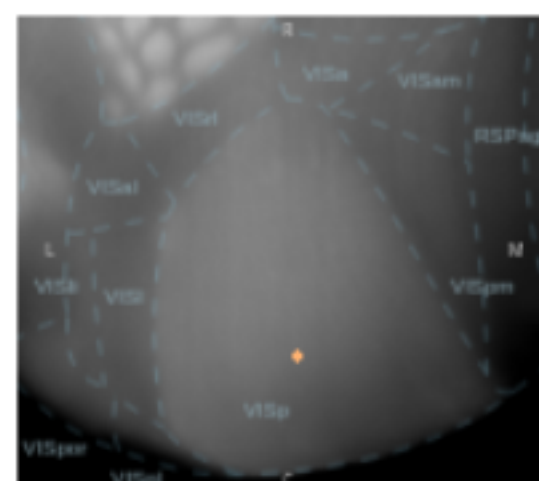
Browse Electrophysiology Data

Select stimulus type **Noise 1** Select neuronal model **-- Show model response --** [Download data](#)

Select sweep: **Sweep: 50** Stimulus amplitude: 139 pA Number of spikes: 40

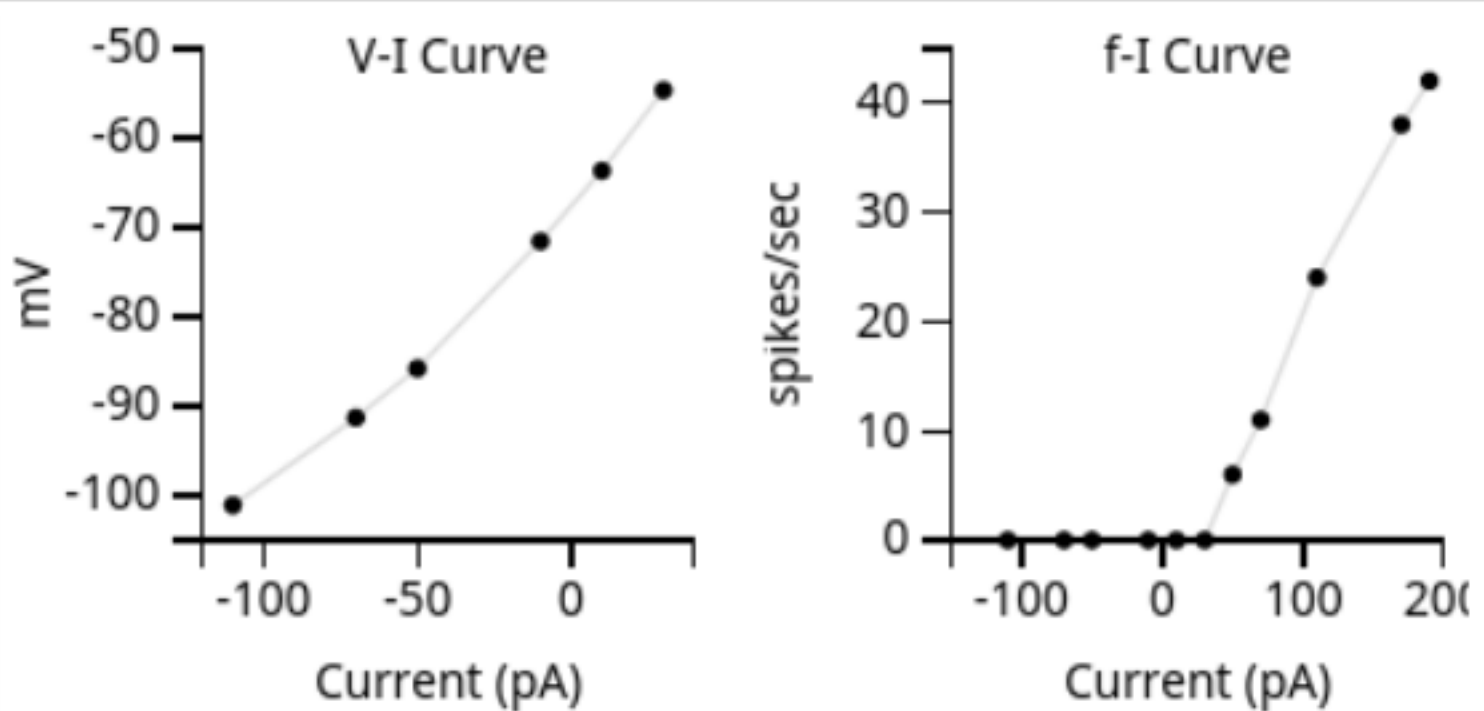


Electrophysiology Summary



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Area **Primary visual area**
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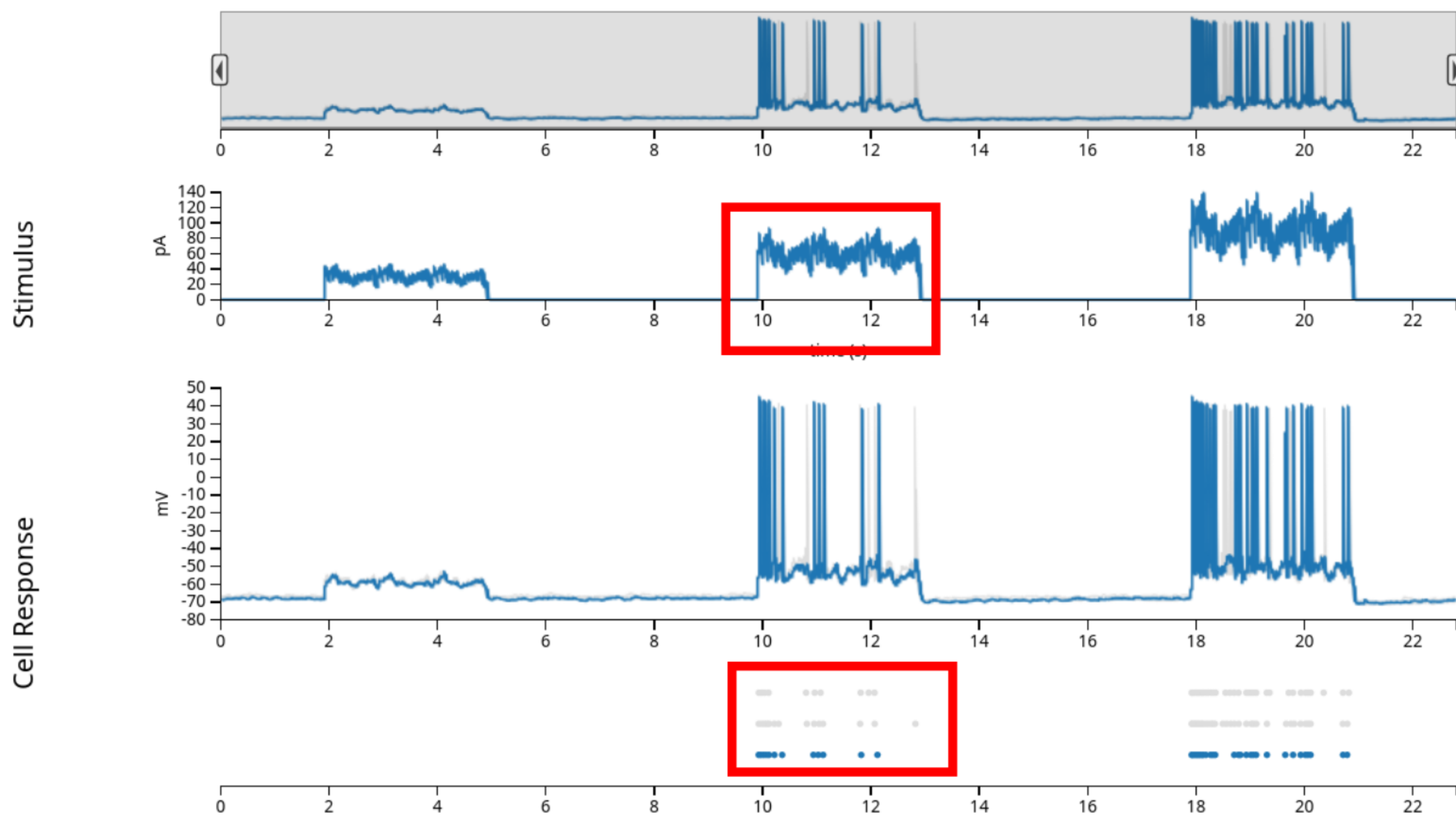
Upstroke:downstroke ratio 3.81
Adaptation Index 0.023
Rheobase 50
Membrane Time Constant 26.1
Firing Rate 24.1
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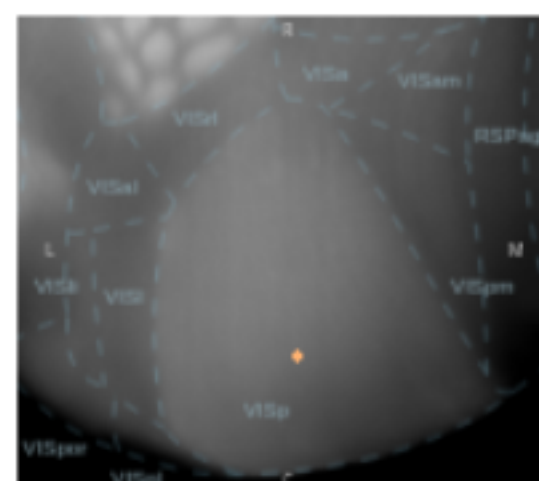
Browse Electrophysiology Data

Select stimulus type **Noise 1** Select neuronal model **-- Show model response --** [Download data](#)

Select sweep: **Sweep: 50** Stimulus amplitude: 139 pA Number of spikes: 40

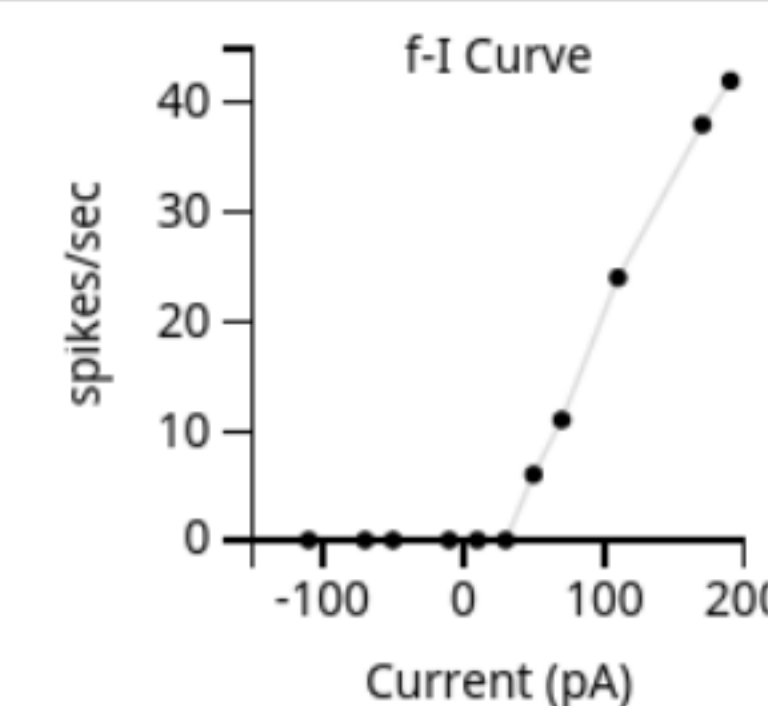
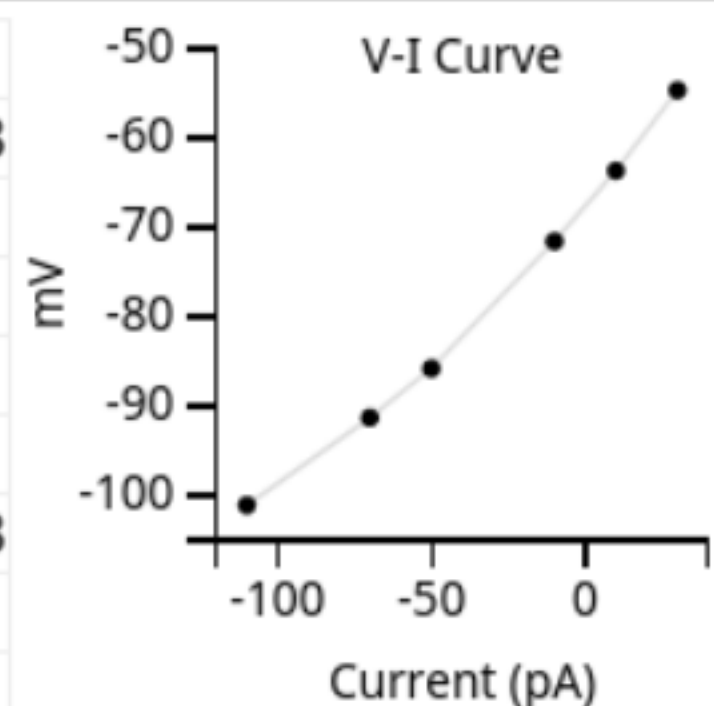


Electrophysiology Summary



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Browse Electrophysiology Data

Select stimulus type ?

Noise 1

Select neuronal model ?

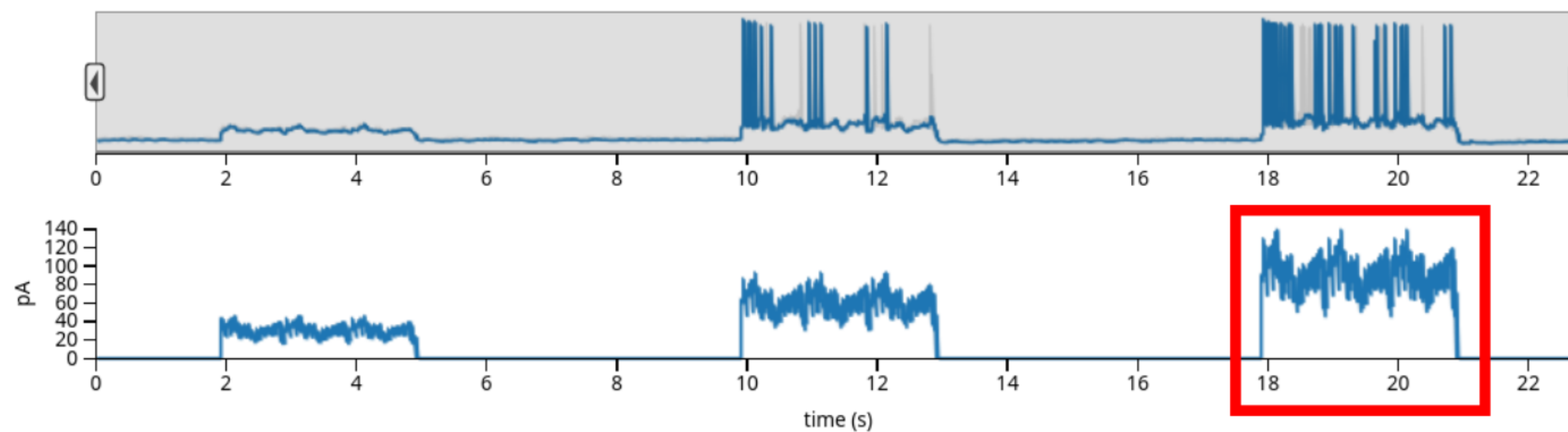
-- Show model response --

[Download data](#) ?

Select sweep: ☒ ☐ ☐

Sweep: 50 Stimulus amplitude: 139 pA Number of spikes: 40

Stimulus



Cell Response

