

# Society for Neuroscience 2021

Telemetry and Software

November, 2021



# Stronger. Together.



Pre-clinical solutions



Panlab



Cellular solutions



Molecular solutions



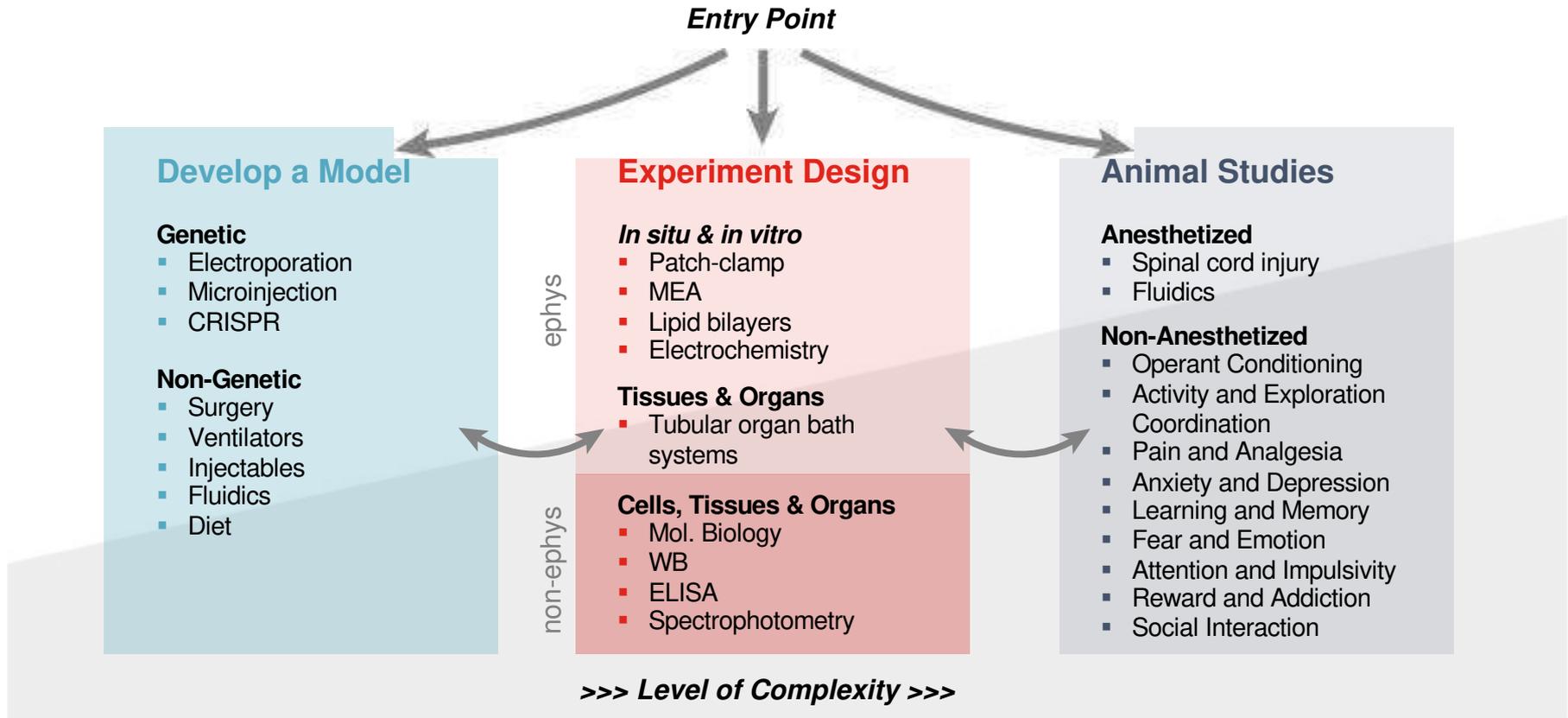
Support solutions



Powered by Harvard Bioscience, Inc.



# Neuroscience Research

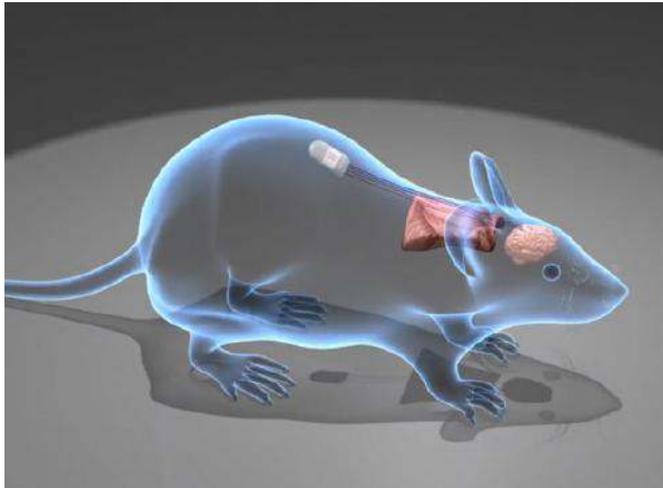


- HA Ventilators & pumps • BTX Electroporators • Warner Microinjectors • HEKA Patch-clamp • MCS MEA Systems •
- HSE Isolated Organ • Hofer & SciePlas WB • Biochrom AAA • DSI Telemetry • Panlab & Coulbourn Behavior •

# Telemetry and Software



High quality and stress-free data collection with DSI telemetry provides insights into underlying physiological mechanisms



**DSI**<sup>TM</sup>

Researchers typically need	How we support you
Manage large amounts of physiologic data	Analyze more data in less time: <ul style="list-style-type: none"><li>• Sophisticated analysis and visualization tools</li><li>• Easy and seamless data loading</li></ul>
Monitoring full range of physiological end points	<ul style="list-style-type: none"><li>• Tethered solutions with higher channel count for acute periods</li><li>• Telemetry for conscious and unrestrained chronic data collection</li><li>• Optogenetics combined with telemetry and/or whole body plethysmography</li><li>• Easily combine behavior and telemetry</li></ul>
Quantification of sleep and seizure in ambulatory animal models.	Chronic, continuous monitoring for stress free data with powerful analysis tools <ul style="list-style-type: none"><li>• Addresses full range of neurodegenerative and affective disorders</li><li>• Reduced analysis time with automated sleep scoring and seizure detection</li><li>• Synchronized video for validation</li></ul>

# Telemetry and Software



Complete solution for physiology research in conscious, freely moving animals.

- Chronic, continuous monitoring with lower data artifacts as telemetry is implanted under the skin
- Reduced stress environment with both wireless and hardwired options
- Discover new research insights for better results and more publishing opportunities

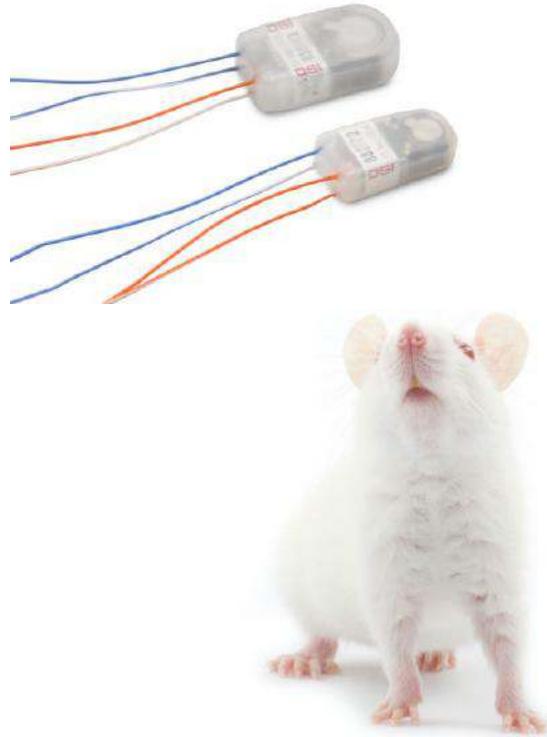


# Telemetry and Software



## Monitoring your studies with key endpoints

- Pressures: arterial, left ventricular, intra-cranial, bladder, and ocular
- Biopotential channels: ECG, video – EEG, EMG, EOG
- Respiration
- Temperature
- Activity
- Sympathetic nerve activity



## Study types we address

- Sleep
- Seizure
- Affective & Anxiety Disorders
- Movement Disorders
- Neurodegenerative Disorders
- Behavior
- Traumatic Brain Injury
- Spinal Cord Injury
- Addiction

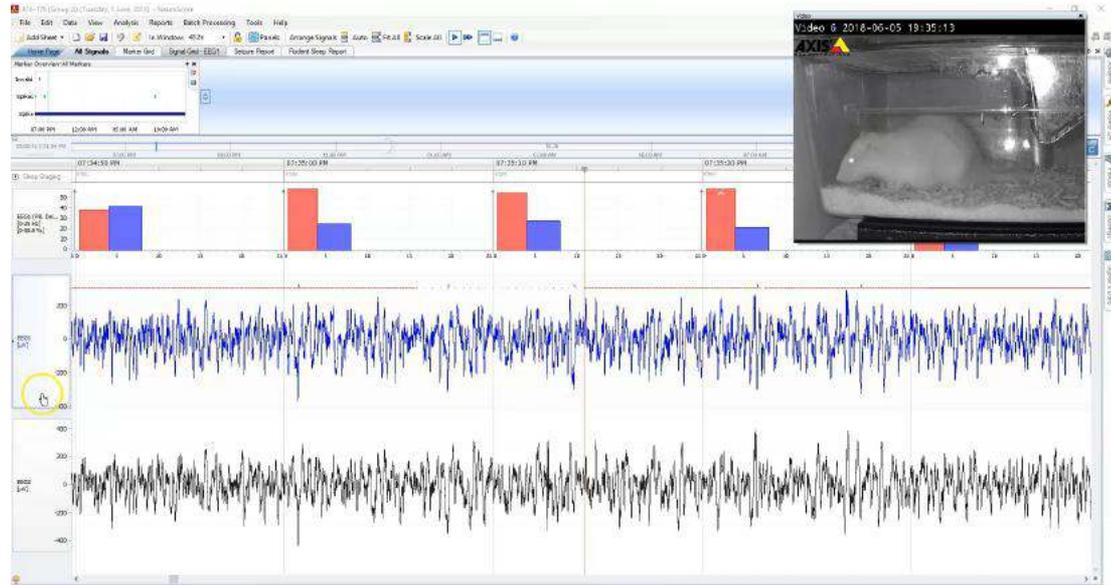
# Telemetry and Software

Don't lose sleep over your seizure studies



## Implants and software allow you to focus on what matters — research

- Smallest implants on the market
- Enhanced data security
- Fast study start-up with Auto Calibration
- Ponemah and NeuroScore software modules
  - Ease of data loading
  - Reduced analysis time and variabilities



# Why Harvard Bioscience?



Do you experience these challenges?	How Harvard Bioscience supports you
Inefficiencies due to multiple vendor transactions	Harvard Bioscience delivers a full suite of solutions to tackle your needs and minimize your headaches
Disconnect between adjacent labs	With scientists on staff, we are uniquely positioned to understand the requirements of all your labs, and construct a proposal that ensures the solutions for one lab appropriately feed the results of the others
“We don’t know what we don’t know.”	Experienced representatives can conduct an assessment to help you determine the solutions that are right for you
Inefficiencies with grant proposal applications	A trusted and reputable partner, Harvard Bioscience can provide expertise to support your grant proposal submissions



# Telemetry and Software



For more information on our telemetry and software products:  
[www.datasci.com/solutions](http://www.datasci.com/solutions)

