



Friday, July 26

Centennial Ballroom (C&D)

Poster Sessions

Anatomical and functional characterization of autonomic neural network for organ control

Poster view times

11:20 – 13:00

16:00 - 17:00 presenter present

- SPARC42126 *Three-dimensional (3D) imaging and phenotyping of intrinsic cholinergic innervation in the human colon by using CLARITY and a novel anti-human peripheral choline acetyltransferase (hpChAT) antibody*
Presenting author: **Pu-Qing Yuan PhD** UCLA, Los Angeles, CA, USA
Co-authors: Jean-Pierre Bellier, Tao Li, Mary R Kwaan, Hiroshi Kimura, Yvette Taché
- SPARC8220 *Functional mapping of the stomachs neural circuitry: Stimulation of different stomach regions evokes different site-dependent effects on duodenal motility in rats*
Presenting author: **Zhenjun Tan PhD** Purdue University, West Lafayette, IN, USA
Co-authors: Matthew Ward, Robert Phillips, Xuoguo Zhang, Bartek Rajwa, Deborah Jaffey, Elizabeth Baronowsky, Jennifer McAdams, Logan Chesney, Terry Powley,
- SPARC23130 *Intrinsic cardiac neural control of the sinoatrial node*
Presenting author: **Peter Hanna MD** UCLA, Los Angeles, CA, USA
Co-authors: Mohammed Swid, Michael Dacey, Pradeep Rajendran, Sara Hiyari, John Tompkins, Ching Zhu, Elizabeth Smith, Stanley Peirce, Jin Chen, Rajanikanth Vadigepalli, James Schwaber, Zixi Cheng, Donald Hoover, Jeffrey Ardell, Kalyanam Shivkumar
- SPARC9729 *Epidural stimulation of the lumbosacral cord evokes voiding in urethane-anesthetized Wistar rats*
Presenting author: **Charles Hubscher PhD** University Louisville, Kentucky, KY, USA
Co-authors: Robert Hoey, Sharon Zdunowski, Daniel Medina-Aguinaga, Fahmi Khalifa, Ayman El-Baz
- SPARC7748 *Characterization of synaptic specializations associated with sympathetic and parasympathetic neurons and lower urinary tract pathways in the male and female rat major pelvic ganglion*
Presenting author: **Peregrine Osborne PhD** University of Melbourne, Victoria, Australia
Co-authors: Pawan Bista, Victoria Morrison, Janet Keast

- SPARC1124 *Feeding behavior following optimized electrical stimulation applied to focal sites of vagal afferent terminal specializations located in the muscle wall of the stomach*
Presenting author: **Robert Phillips PhD** Purdue University West Lafayette, IN, USA
Co-authors: Matthew Ward, Kun-Han Lu, Jiayue Cao, Trevor Meyer, Gabriel Albers, Zhongming Liu, Deborah Jaffey, Pedro Irazoqui, Terry Powley
- SPARC8112 *The brain responds to gastric electric stimulation with orientation selectivity*
Presenting author: **Jiayue Cao BS MS** Purdue University, West Lafayette IN, USA
Co-authors: Ranajay Mandal, Kun-Han Lu, Christina Hendren, Robert Phillips, Terry Powley, Zhongming Liu
- SPARC5540 *Building the ganglion-organ connectome for distinct regions of the lower urinary tract in rats*
Presenting author: **Janet Keast PhD** University of Melbourne, Australia
Co-authors: Agnes Wong, Victoria Morrison, Peregrine Osborne
- SPARC9494 *Anatomical and functional mapping of renal nerves*
Presenting author: **Roman Tyshynsky BS** University of Minnesota, Saint Paul, MN, USA
Co-authors: John Osborn, Lucy Vulchanova
- SPARC1018 *Chemical taxonomy of nerve fibers in human oxyntic mucosa in proximity to ghrelin cells*
Presenting author: **Josiane Fakhry BS MS** University of Melbourne, Australia
Co-authors: Martin Stebbing, Yulia Bayguinov, Sean Ward, Kent Sasse, Billie Hunne, John Furness
- SPARC93133 *Differing molecular characteristics between the right atrial ganglionated plexus and the sinoatrial node in pig heart*
Presenting author: **Alison Moss BS** Thomas Jefferson University, Philadelphia, PA, USA
Co-authors: Sirisha Achanta, Shaina Robbins, Sean Nieves, Peter Hanna, Jeffrey Ardell, Kalyanam Shivkumar, James Schwaber, Rajanikanth Vadigepalli
- SPARC4654 *Anatomical mapping of pre- and postganglionic sympathetic innervation to interscapular brown adipose tissue in mice*
Presenting author: **Rui Zhang PhD** Louisiana State University Baton Rouge, LA, USA
Co-authors: Marie François, Clara Huesing, Nathan Lee, Emily Qualls-Creekmore, Hayden Torres, Christopher Morrison, Sangho Yu, Hans-Rudolf Berthoud, David Burk, Heike Münzberg
- SPARC3144 *Neurochemical plasticity of serotonin receptors on phrenic motor neurons: Effects of cervical spinal Injury and intermittent hypoxia*
Presenting author: **Latoya Allen BS** University of Florida, Gainesville, FL, USA
Co-authors: Yasin Seven, Marissa Ciesla, Kristin Smith, Zachary Asa, Alec Simon, Ashley Holland, Juliet Santiago, Kelsey Stefan, Ashley Ross, Elisa Gonzalez-Rothi, Gordon Mitchell

- SPARC8096 *Adenosine A1 and A2A receptor expression on phrenic motor neurons after cervical spinal injury and different intermittent hypoxia exposures*
Presenting author: **Yasin Seven PhD** University of Florida, Gainesville, FL, USA
Co-authors: Marissa Ciesla, Kristin Smith, Zachary Asa, Alec Simon, Ashley Holland, Juliet Santiago, Kelsey Stefan, Ashley Ross, Elisa Gonzalez-Rothi, Gordon Mitchell
- SPARC4682 *DARPP-32 and Cdk5 expression in the ventral cervical spinal cord of rats*
Presenting author: **Ashley Ross BS** University of Florida, Gainesville, FL, USA
Co-authors: Mia Kelly, Latoya Allen, Yasin Seven, Gordon Mitchell
- SPARC8459 *Novel inhibitory post-synaptic potentials in mouse proximal colon myenteric neurons - a role for nitric oxide*
Presenting author: **Parvin Zarei Eskikand PhD** University of Melbourne, Parkville, VIC, Australia
Co-authors: Rachel M Gwynne, Joel C Bornstein
- SPARC88105 *Neuromodulation mapping of the sensory and motor neurons innervating the pancreatic islets and vasculature in the rat*
Presenting author: **Aritra Kundu PhD** University of Florida, Gainesville, FL, USA
Co-authors: Ty Redler, Victoria Dugan, Richard D Johnson
- SPARC51120 *Colon epithelial cells initiate activity in myenteric neurons and extrinsic primary afferent neurons*
Presenting author: **Sarah Najjar BS** University of Pittsburgh, Pittsburgh, PA, USA
Co-authors: Kristen Smith-Edwards, Kathryn Albers, Brian Davis
- SPARC57114 *Response of distal colon and rectum to epidural stimulation of the lumbosacral cord in Wistar rats under urethane anesthesia*
Presenting author: **Charles Hubscher PhD** University Louisville, Kentucky, KY, USA
Co-authors: Daniel Medina-Aguinaga, Fahmi Khalifa, Sharon Zdunowski, Ayman El-Baz
- SPARC43124 *Nanoscale organization of the neurovascular unit*
Presenting author: **Eric Arreola BS** UC Davis, Davis, CA USA
Co-authors: Luis Santana, Claudia Moreno
- SPARC2764 *Identifying subpopulations of visceral afferents involved in neuroimmune interactions and nociception*
Presenting author: **Kimberly Meerschaert BS** University of Pittsburgh, Pittsburgh, PA, USA
Co-authors: Peter Adelman, Robert Fiedman, Kathryn Albers, Richard Koerber, Brian Davis
- SPARC7966 *Superior cervical ganglionectomy alters the electrophysiological properties of potassium-channels in carotid body type I glomus cells*
Presenting author: **Paulina Getsy BS** Case Western Reserve University, Cleveland OH, USA
Co-authors: Greg Coffee, Stephen Lewis

- SPARC3283 *Sex differences in rat cardiac autonomic innervation*
Presenting author: **Beth Habecker PhD** Oregon Health & Science University, Portland, OR, USA
Co-authors: Richard Bayles, Joanne Tran, Antoinette Olivas, Suzi Fei, Lina Gao, William Woodward
- SPARC5792 *The effects of inflammation on colon motility patterns*
Presenting author: **Brian Edwards PhD** University of Pittsburgh, Pittsburgh, PA, USA
Co-authors: Kristen Smith-Edwards, Brian Davis
- SPARC73108 *Adrenergic effects on porcine cardiac electrophysiology: Combined experimental and modeling framework*
Presenting author: **Stefano Morotti PhD** UC Davis, Davis, CA, USA
Co-authors: Lianguo Wang, Bardia Ghayoumi, Yanyan Jiang, Ye-Ji Chen, Daisuke Sato, Crystal Ripplinger, Eleonora Grandi
- SPARC1588 *Spinal adenosine 2A receptor activation is necessary for phrenic long-term facilitation in carotid-denervated Rats*
Presenting author: **Raphael Rodrigues Perim PhD** University of Florida, Gainesville, FL, USA
Co-authors: Paul Kubilis, Gordon Mitchell
- SPARC9785 *Recovery of serotonergic innervation in respiratory motor nuclei after cervical spinal injury, with and without intermittent hypoxia*
Presenting author: **Marissa Ciesla BS** University of Florida, Gainesville, FL, USA
Co-authors: Yasin Seven, Latoya Allen, Kristin Smith, Zachary Asa, Alec Simon, Ashley Holland, Juliet Santiago, Kelsey Stefan, Ashley Ross, Elisa Gonzalez-Rothi, Gordon Mitchell
- SPARC74129 *The stimulus-intensity dependent recruitment of voltage-gated sodium channel (NaV1) subunits in action potential initiation in nerve terminals of vagal esophageal C-fibers*
Presenting author: **Fei Ru PhD** Johns Hopkins University, Baltimore, MD, USA
Co-authors: N Pavelkova Marian Kollarik
- SPARC6372 *Neural responses of the cervical sympathetic chain to baroreceptor activation and to hypoxic challenge in Sprague-Dawley rats*
Presenting author: **Martin Muntzel BS** Case Western Reserve University, Cleveland, OH, USA
Co-authors: Yee-Hsee Hsieh, Stephen Lewis
- SPARC9570 *Daily acute, but not chronic, intermittent hypoxia enhances phrenic motor plasticity in chronic cervical spinal cord injury*
Presenting author: **Arash Tadjalli BS** University of Florida, University of Florida, Gainesville, FL, USA
Co-authors: Elisa Gonzalez-Rothi, Latoya Allen, Marissa Ciesla, Kristin Smith, Mohamad El Chami, Gordon Mitchell, Ashley Holland

- SPARC8942 *Functional imaging of peripheral nerves in vivo using polarization-sensitive and angiographic optical coherence tomography*
Presenting author: **Mohsen Efranzadeh PhD**, Massachusetts General Hospital, Boston, MA, USA
Co-authors: Guillermo Monroy, Ahhyun Nam, Srikanth Vasudevan, Daniel Hammer, Benjamin Vakoc
- SPARC41119 *Integrated mapping and modeling of the innervated mouse heart reveals unique electrophysiological activities during the fight-or-flight response*
Presenting author: **Lianguo Wang MD** UC Davis, Davis, CA, USA
Co-authors: Stefano Morotti, Srinivas Tapa, Samantha Francis Stuart, Yanyan Jiang, Eleonora Grandi, Crystal Ripplinger

Saturday, July 27

Centennial Ballroom (C&D)

Poster sessions

Mapping and neuromodulation technologies, models and modeling

Poster view times

11:45 – 13:00

15:30 - 17:00 presenter present

Mapping Technologies

SPARC144 *Microscope integratable “non-invasive” light sheet fluorescent microscopy (miniLSFM)*

Presenting author: **Yehe Liu BS/MS** Case Western Reserve University, Cleveland OH, USA

Co-authors: Junqi Zhuo, Michael Jenkins

SPARC7733 *Multicolor sparse labeling of mouse colonic enteric neurons using a novel AAV capsid*

Presenting author: **Lixin Wang MD PhD** UCLA, Los Angeles, CA, USA

Co-authors: Collin Charlis, Tao Li, Pu-Qing Yuan, Charless Fawlkes, Viviana Gradinaru, Yvette Taché

SPARC5811 *Visualization of the human enteric cholinergic system using a newly generated antibody against the human peripheral choline acetyltransferase (hpChAT)*

Presenting author: **Jean-Pierre Bellier PhD**, Shiga University of Medical Science, Shiga, Japan

Co-authors: Pu-Qing Yuan, Ikuo Tooyama, Yvette Taché, Hiroshi Kimura

SPARC8976 *Nerves of the bone: Foundational neuroanatomical mapping of skeletal nerves from bone to brain*

Presenting author: **Madelyn Lorenz BS** Washington University, St Louis, MO USA

Co-authors: Jennifer Brazill, Eva Jeliaskova, Natalie Wee, SungJae Park, Zhaohua Wang, Mark Jacquin, Clarissa Craft, Erica Scheller

SPARC2415 *In-vivo tracing of vagal projections to the brain with manganese enhanced magnetic resonance imaging*

Presenting author: **Steven Oleson BS MS** Purdue University, West Lafayette, IN, USA

Co-authors: Kun-Han Lu, Jiayue Cao, Terry Powley, Zhongming Liu

SPARC2291 *Low-cost, implantable wireless sensor platform for neuromodulation research*

Presenting author: **Ian McAdams BS** Cleveland Clinic, Cleveland, OH, USA

Co-authors: Aref Smiley, Bourbeau Dennis, Margot Damaser, Steve Majerus

SPARC367 *Distributions, morphologies and innervation of gastric enteroendocrine cells in the rat*

Presenting author: **Billie Hunne PhD** University of Melbourne, Melbourne, Australia

Co-authors: John Furness, Martin Stebbing

- SPARC8169 *A 64-Channel wireless implantable system to study gastrointestinal electrical activity*
Presenting author: **Amir Javan-Khoshkholgh PhD** New York Institute of Technology, New York, NY, USA
Co-authors: Wahib Alrofati, Larry Miller, Anil Vegesna, Ahmed Ibrahim, Mehdi Kiani, Aydin Farajidavar
- SPARC46135 *Comprehensive mapping of the intracardiac nervous system in rodents using knife-edge scanning microscopy*
Presenting author: **Hunter Jackson BS** 3Scan, San Francisco, CA, USA
Co-authors: Navid Farahani, Steve England, Todd Huffman, James Schwaber
- SPARC95138 *Intrinsic Cardiac Neurons (ICNs) Projecting to the SA and AV nodes in rat heart*
Presenting author: **Jin Chen PhD** University of Central Florida, Orlando, FL, USA
Co-authors: Jin Chen, Susan Tappan, Rajanikanth Vadigepalli, James Schwaber, Zixi Cheng
- SPARC14137 *Mapping intrinsic cardiac neuron distribution in 3-D reconstructed hearts of rats and mice*
Presenting author: **Clara Leung BS** University of Central Florida, Orlando, FL, USA
Co-authors: Clara Leung, Jin Chen, Shaina Robbins, Todd Huffman, Navid Farahani, Susan Tappan, Maci Heal, Rajanikanth Vadigepalli, James Schwaber, Zixi Cheng, Sirisha Achanta
- SPARC22136 *Integrated anatomical and molecular atlas of rodent intra-cardiac nervous system*
Presenting author: **Shaina Robbins BS** Thomas Jefferson University, Philadelphia, PA, USA
Co-authors: Sirisha Achanta, Susan Tappan, Maci Heal, Clara Leung, Jon Gorky, Alison Moss, Zixi Cheng, Jin Chen, Laura Calhill

Neuromodulation Technologies

- SPARC147 *An implantable closed-loop stimulation and recording device with self-closing nerve cuffs for chronic electrophysiology experiments*
Presenting author: **Bryan McLaughlin PhD** Micro-Leads Inc, Cambridge, MA, USA
Co-authors: John Ogren, Girish Chitnis, Liane Wong, Celine Chen, Kevin Meador, and Zhe Hu
- SPARC7186 *Vagal nerve stimulation using an implantable pulse generator for controlling blood glucose*
Presenting author: **Jieyun Yin PhD** Transtimulation Research Inc, Oklahoma City, OK, USA
Co-authors: Shiyong Li, Yan Dong, Yeram Kim, Wendy Williams
- SPARC7638 *Functional mapping of the influence of neuromodulation on colonic motility in a porcine model*
Presenting author: **Muriel Larauche PhD** UCLA, Los Angeles, Ca, USA
Co-authors: Po-Min Wang, Genia Dubrovsky, Yushan Wang, Yi-Kai Lo, Ian Hsiang, James Dunn, Wentai Liu, Yvette Taché, Mulugeta Million
- SPARC50122 *A novel stochastic self-assembly model for ion channel trafficking and clustering in excitable cells*
Presenting author: **Gonzalo Hernandez-Hernandez BS** UC Davis, Davis, CA, USA
Co-authors: Daisuke Sato, Luis Santana, Colleen Clancy, Collin Matsumoto, Sendoa Tajada, Claudia Moreno, Rose Dickson, Manuel Navedo, Marc D Binder

- SPARC269 *Computational models of compound extracellular recordings from rat cervical vagus nerve*
Presenting author: **Edgar Pena PhD** Duke University, Durham, NC, USA
Co-authors: Eric Musselman, Nicole Pelot, Gabriel Goldhagen, Brandon Thio, Matthew Ward, Warren Grill
- SPARC9139 *Noninvasive sub-organ ultrasound stimulation for targeted neuromodulation*
Presenting author: **Jeffrey Ashe MS** General Electric Global Research, Niskayuna, NY, USA
Co-authors: Chris Puleo, Victoria Cotero
- SPARC18115 *Mechanism for cAMP overshoot in ventricular myocytes following β_1 - adrenergic stimulation*
Presenting author: **Emily Meyer BS** UC Davis, Davis, CA, USA
Co-authors: Tim Lewis, Colleen Clancy
- SPARC2689 *Real-time ultrasound displacement and cavitation imaging of focused ultrasound neuromodulation of the sciatic nerve*
Presenting author: **Stephen Lee BS** Columbia University, New York, NY, USA
Co-authors: Hermes Kamimura, Min Gon Kim, Elisa Konofagou
- SPARC8699 *A demonstration of modularity, reuse, reproducibility, portability and scalability for modeling and simulation of cardiac electrophysiology using Kepler Workflows*
Presenting author: **Pei-Chi Yang PhD** UC Davis, Davis, CA, USA
Co-authors: Shweta Purawat, Pek leong, Mao-Tsuen Jeng, Kevin DeMarco, Igor Vorobyov, Andrew McCulloch, Ilkay Altinas, Rommie Amaro, Colleen Clancy
- SPARC77116 *Modeling neuro-cardiovascular coupling modulation with atomistic simulations*
Presenting author: **Kevin R DeMarco PhD** UC Davis, Davis, CA, USA
Co-authors: John R D Dawson, Vladimir Yarov-Yarovoy, Colleen Clancy, Igor Vorobyov
- SPARC90128 *Respiratory-gated transcutaneous vagus nerve stimulation modulates dynamic MRI assessed stomach motility and emptying in humans*
Presenting author: **Roberta Sclocco PhD** Harvard Medical School, Boston, MA, USA
Co-authors: Christopher Nguyen, Rowan Staley, Harrison Fisher, Ronald Garcia, Catherine Hubbard, April Mendez, Kun-Han Lu, Zhongming Liu, Matthew Ward, Terry Powley, Braden Kuo, Vitaly Napadow
- SPARC4895 *Selective activation of ferret abdominal vagal pathways using a nerve cuff electrode with multiple circumferential contacts*
Presenting author: **Derek Miller PhD** University of Pittsburgh, Pittsburgh, PA, USA
Co-authors: Ameya Nanivadekar, Stephanie Fulton, Michael Sciallo, John Ogren, Liane Wong, Bryan McLaughlin, Lee Fisher, Bill Yates, Charles Horn
- SPARC7334 *Inhibitory effects of electrically evoked motor neuron activity in mouse peripheral nerve system using ultrasound-guided focused ultrasound in vivo*
Presenting author: **Min Gon Kim PhD** Columbia University, New York, NY, USA
Co-authors: Stephen Lee, Hermes Kamimura, Elisa Konofagou

- SPARC1584 *Acute and chronic responses of bone to bioelectric stimulation of the sciatic nerve*
Presenting author: **Alec Beeve BS** Washington University, St. Louis, MO, USA
Co-authors: Priscilla Stecher, Zhaohua Wang, Kristann Magee, Nathan Birenbaum, John Cirrito, Matthew MacEwan, Clarissa Craft, Erica Scheller
- SPARC76100 *Statistical and machine learning techniques to reveal predictors of cardiac dynamics in response to autonomic stimulation*
Presenting author: **Parya Aghasafari PhD** UC Davis, Davis, CA, USA
Co-authors: Pei-Chi Yang, Colleen Clancy
- SPARC3136 *Direct measurements of sympathetic input to brown adipose tissue in lean and obese mice*
Presenting author: **Kara Zang BS** New York University, New York, NY, USA
Co-authors: Lori Zeltser, Shyue-An Chen, Corey Smith, Jeffrey Ardell, Stephen Lewis
- SPARC81123 *Ultrasound stimulation of peripheral nerves and end-organs for treating health disorders*
Presenting author: **Hubert Lim PhD** University of Minnesota, Twin Cities, MN, USA
Co-authors: Daniel Zachs, Hongsun Guo, Pooja Mehta, Claire Kaiser, Yohan Kim, Jerel Mueller, Jennifer Auger, Nathaniel Schuldt, Jamu Alford, Bryce Binstadt, Sarah Offutt

Technologies and modeling

- SPARC85125 *Modelling the interaction between coronary perfusion flow and myocardium mechanics using computational poroelasticity*
Presenting author: **Yasser Aboelkassem PhD** UCSD, San Diego, CA, USA
Co-authors: Andrew McCulloch, Alexandra Diem, Kristian Valen-Sendstad
- SPARC4017 *Activation of long ascending excitatory interneurons, by electrical field stimulation in intact excised human colon*
Presenting author: **Phil G Dinning PhD** Flinders University, Adelaide, South Australia, Australia
Co-authors: Reizal Mohd Rosli, Tim Hibberd, Lukasz Wiklendt, David Wattchow, Dayan De Fontgalland, Marcello Costa, Simon Brookes, Nick Spencer
- SPARC6598 *Neuromodulation of spinal cord for ameliorating gastrointestinal motility*
Presenting author: **Jiande Chen PhD** Johns Hopkins University, Baltimore, MD, USA
Co-authors: Lei Tu, Bo Zhang, Payam Gharibani, Feng Ji
- SPARC4032 *Distension induced epithelial secretion in human intestine in vitro*
Presenting author: Stefanie Schäuuffele **MS** Technical University of Munich, Munich, Germany
Co-authors: Michael Schemann, Dagmar Krüger

- SPARC57107 *Machine learning prediction of emesis and gastric fill in ferrets implanted with customized gastrointestinal planar electrodes*
Presenting author: **Charles Horn PhD** University of Pittsburgh, Pittsburgh, PA, USA
Co-authors: Ameya Nanivadekar, Derek Miller, Stephanie Fulton, John Ogren, Liane Wong, Bryan McLaughlin, Lee Fisher, Bill Yates
- SPARC146 DNA-based nanosensor for in vivo imaging of acetylcholine in the peripheral nervous system
Presenting author: **Junfei Xia PhD** Northeastern University, Boston, MA, USA
Co-authors: Junfei Xia, Michelle Mu, Timothy Duerr, James Monaghan, Heather Clark
- SPARC116 *Neuroimaging of submucosal neurons from porcine colon*
Presenting author: **Anna Katharina Filzmayer BS** University of Veterinary Medicine Hannover, Hannover, Germany
Co-authors: Kristin Elfers, Gemma Mazzuoli-Weber
- SPARC632 *Antiarrhythmic and proarrhythmic effects of subcutaneous nerve stimulation in ambulatory dogs*
Presenting author: **Juyi Wan PhD**, Indiana University School of Medicine, Indianapolis, IN, USA
Co-authors: Mu Chen, Yuan Yuan, Zhuo Wang, Changyu Shen, Michael C Fishbein, Zhenhui Chen, Johnson Wong, Thomas H Everett, Peng-Sheng Chen
- SPARC2723 *Fecobionics technology for studying colonic and anorectal neurophysiology*
Presenting author: **Hans Gregersen MD PhD MPM** California Medical Innovations Institute, San Diego, CA, USA
Co-authors: Ghassan Kassab, Bhavesh Patel, Bill Combs, Frederic Field
- SPARC2275 *Airway-nervous system mediators for airway protection*
Presenting author: **Leah Reznikov PhD** University Florida, Gainesville, FL USA
Co-authors: Yan-Shin Liao, Tongjun Gu, Katelyn Davis, Shin Ping Kuan, Kalina Atanasova, Joshua Dadural, Emily Collins, Maria Guevara, Kevin Vogt
- SPARC9225 *Development of fully implanted wireless controlled system for vagal stimulation and recording in a translational model, the pig*
Presenting author: **John Furness PhD** University of Melbourne, Melbourne Australia
Co-authors: Gabriel Albors, Ruslan Pustovit, Peter Cakebread, Martin Stebbing, Pedro Irazoqui, Vivek Ganesh