Resource Summary Report

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Fiber Optic Button Response System

RRID:SCR_009577
Type: Tool

Proper Citation

Fiber Optic Button Response System (RRID:SCR_009577)

Resource Information

URL: http://www.pstnet.com/hardware.cfm?ID=91

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Description: Instrument that accurately gathers participant responses and verifies signals. The Celeritas Series response units are assembled using high-impact, chemical resistant, medical grade plastic. The response units include a tactile indicator to ensure correct finger placement during experiments and comfortably attach to the participant?s wrists. The units communicate button presses through fiber optic cabling which connects to a Fiber Optic Interface Console located in the control room through an available wave guide. The interface console provides real-time feedback of participant responses via LED indicators and includes a set of switches which can be used to make responses for the participant as needed.

Synonyms: Celeritas Fiber Optic Response System

Resource Type: instrument resource

Keywords: eeg, meg, electrocorticography, experiment control, hardware, magnetic resonance, response monitoring, instrument, equipment

Funding:

Resource Name: Fiber Optic Button Response System

Resource ID: SCR_009577

Alternate IDs: nlx_155759

Alternate URLs: http://www.nitrc.org/projects/fobrs, https://pstnet.com/wp-content/uploads/2021/04/Celeritas-Operator-Manual.pdf

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Ratings and Alerts

No rating or validation information has been found for Fiber Optic Button Response System.

No alerts have been found for Fiber Optic Button Response System.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 22 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Qiu C, et al. (2020) An Approximate Estimation Approach of Fault Size for Spalled Ball Bearing in Induction Motor by Tracking Multiple Vibration Frequencies in Current. Sensors (Basel, Switzerland), 20(6).

Iikura H, et al. (2020) Mosquito repellence induced by tarsal contact with hydrophobic liquids. Scientific reports, 10(1), 14480.

Escudero-Martinez C, et al. (2020) An aphid effector promotes barley susceptibility through suppression of defence gene expression. Journal of experimental botany, 71(9), 2796.

Fernández-Gómez J, et al. (2020) Increased expression of the MALE STERILITY1 transcription factor gene results in temperature-sensitive male sterility in barley. Journal of experimental botany, 71(20), 6328.

Delampady K, et al. (2020) Assessing the quality of life in Indian Graves' orbitopathy patients and validation of Hindi version of GO-QOL questionnaire. Indian journal of ophthalmology, 68(8), 1617.

Leybourne DJ, et al. (2020) The price of protection: a defensive endosymbiont impairs nymph growth in the bird cherry-oat aphid, Rhopalosiphum padi. Insect science, 27(1), 69.

Orman-Ligeza B, et al. (2020) TRA1: A Locus Responsible for Controlling Agrobacterium-Mediated Transformability in Barley. Frontiers in plant science, 11, 355.

Matsumoto S, et al. (2019) Enteroendocrine peptides regulate feeding behavior via controlling intestinal contraction of the silkworm Bombyx mori. PloS one, 14(7), e0219050.

Salman MS, et al. (2018) Cerebellar radiological abnormalities in children with neurofibromatosis type 1: part 2 - a neuroimaging natural history study with clinical correlations. Cerebellum & ataxias, 5, 13.

Escudero-Martinez CM, et al. (2017) Barley transcriptome analyses upon interaction with different aphid species identify thionins contributing to resistance. Plant, cell & environment, 40(11), 2628.

Bernardini S, et al. (2017) Combining temporal planning with probabilistic reasoning for autonomous surveillance missions. Autonomous robots, 41(1), 181.

Hiraoka K, et al. (2016) Regional Volume Decreases in the Brain of Pax6 Heterozygous Mutant Rats: MRI Deformation-Based Morphometry. PloS one, 11(6), e0158153.

Yuan A, et al. (2015) Dissociation of Axonal Neurofilament Content from Its Transport Rate. PloS one, 10(7), e0133848.

Marzec M, et al. (2015) Arabinogalactan proteins are involved in root hair development in barley. Journal of experimental botany, 66(5), 1245.

Tamura Y, et al. (2015) Daily heat stress treatment rescues denervation-activated mitochondrial clearance and atrophy in skeletal muscle. The Journal of physiology, 593(12), 2707.

Robertoni FS, et al. (2015) Collagenase mRNA Overexpression and Decreased Extracellular Matrix Components Are Early Events in the Pathogenesis of Emphysema. PloS one, 10(6), e0129590.

Heinecke KA, et al. (2015) Myelin abnormalities in the optic and sciatic nerves in mice with GM1-gangliosidosis. ASN neuro, 7(1).

Shen L, et al. (2015) Measuring stress signaling responses of stomata in isolated epidermis of graminaceous species. Frontiers in plant science, 6, 533.

Walters DR, et al. (2014) Control of foliar pathogens of spring barley using a combination of resistance elicitors. Frontiers in plant science, 5, 241.

Phillips D, et al. (2013) Quantitative high resolution mapping of HvMLH3 foci in barley pachytene nuclei reveals a strong distal bias and weak interference. Journal of experimental botany, 64(8), 2139.