

Resource Summary Report

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COMPASS

RRID:SCR_022329

Type: Tool

Proper Citation

COMPASS (RRID:SCR_022329)

Resource Information

URL: <https://edspace.american.edu/openbehavior/project/compass/>

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Description: Non invasive, infrared activity and sleep measurement system that uses passive infrared sensors and Arduino microprocessor. Publication provides protocol for assembling COMPASS as well as provides support protocols and python scripts for data analysis, best practices for optimum results, troubleshooting, and alternative protocols for different use scenarios.

Synonyms: Continuous Open Mouse Phenotyping of Activity and Sleep Status

Resource Type: data or information resource, instrument resource, portal, project portal

Defining Citation: [DOI:10.1002/cpmo.81](https://doi.org/10.1002/cpmo.81)

Keywords: OpenBehavior, Instrument, behavior apparatus, behavior measurement, sleep tracking, infrared sensors, Arduino microprocessor

Resource Name: COMPASS

Resource ID: SCR_022329

Alternate URLs: <https://github.com/MRC-Harwell/sleep-tracking>

Record Creation Time: 20220602T050139+0000

Record Last Update: 20260821T194223+0000

Ratings and Alerts

No rating or validation information has been found for COMPASS.

No alerts have been found for COMPASS.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 265 mentions in open access literature.

Listed below are recent publications. The full list is available at [NIF](#) .

Su Q, et al. (2026) Integrated bulk RNA-seq and scRNA-seq identification of a novel "PET-SPI1-MYL9" transcriptional axis in lung adenocarcinoma driven by polyethylene terephthalate exposure. *Translational cancer research*, 15(3), 173.

Matsuo M, et al. (2025) Time-sensitive effects of quercetin on rat basophilic leukemia (RBL-2H3) cell responsiveness and intracellular signaling. *PloS one*, 20(2), e0319103.

Liu M, et al. (2025) Identification of small fiber neuropathy in neuronal intranuclear inclusion disease: A clinicopathological study. *Alzheimer's & dementia : the journal of the Alzheimer's Association*, 21(2), e14596.

Saha A, et al. (2025) Diminished Mycobacterium tuberculosis-specific T-cell Responses During Pregnancy in Women With HIV and Receiving Isoniazid Preventive Therapy. *Open forum infectious diseases*, 12(2), ofaf067.

Schramm MC, et al. (2025) Influence of autonomic neuropathy, systemic inflammation and other clinical parameters on mortality in dialysis patients. *Clinical kidney journal*, 18(2), sfae416.

Banerjee S, et al. (2025) Evaluation of MALDI-TOF for identification of *Vibrio cholerae* and *Vibrio parahaemolyticus* from growth on agar media. *Applied microbiology and biotechnology*, 109(1), 5.

Hoffmann TJ, et al. (2025) Genome-wide association study of prostate-specific antigen levels in 392,522 men identifies new loci and improves prediction across ancestry groups. *Nature genetics*, 57(2), 334.

Girolamini L, et al. (2025) Identification of *Legionella* by MALDI Biotyper through three preparation methods and an in-house library comparing phylogenetic and hierarchical cluster results. *Scientific reports*, 15(1), 2162.

Hergenroeder GW, et al. (2025) Administration of anti-GFAP antibodies increases CGRP expression and increases pain hypersensitivity in spinal cord injured animals. *International journal of immunopathology and pharmacology*, 39, 3946320251320754.

Bienefeld N, et al. (2025) AI Interventions to Alleviate Healthcare Shortages and Enhance Work Conditions in Critical Care: Qualitative Analysis. *Journal of medical Internet research*, 27, e50852.

Jameson NM, et al. (2025) The Selective WEE1 Inhibitor Azenosertib Shows Synergistic Antitumor Activity with KRASG12C Inhibitors in Preclinical Models. *Cancer research*

communications, 5(2), 240.

Calistri NL, et al. (2025) TNBC response to paclitaxel phenocopies interferon response which reveals cell cycle-associated resistance mechanisms. *Scientific reports*, 15(1), 4294.

Prindle V, et al. (2025) Synthetic lethality of mRNA quality control complexes in cancer. *Nature*, 638(8052), 1095.

Twala C, et al. (2025) Ezetimibe Anticancer Activity via the p53/Mdm2 Pathway. *Biomedicines*, 13(1).

Schweizer TA, et al. (2025) Photodynamic Therapy with Protoporphyrin IX Precursors Using Artificial Daylight Improves Skin Antisepsis for Orthopedic Surgeries. *Microorganisms*, 13(1).

Choudhary A, et al. (2025) A machine learning approach to stratify patients with hypermobile Ehlers-Danlos syndrome/hypermobility spectrum disorders according to disorders of gut brain interaction, comorbidities and quality of life. *Neurogastroenterology and motility*, 37(1), e14957.

McGregor G, et al. (2025) Exercise rehabilitation for people with postural tachycardia syndrome at two secondary care centres in the UK: the PULSE feasibility randomised controlled trial. *BMJ open*, 15(2), e090197.

Stiving AQ, et al. (2025) Functionality and translation fidelity characterization of mRNA vaccines using platform based mass spectrometry detection. *NPJ vaccines*, 10(1), 38.

Mueller M, et al. (2025) The SnackerTracker: A novel home-cage monitoring device for measuring food-intake and food-seeking behaviour in mice. *Wellcome open research*, 10, 172.

Yu S, et al. (2025) Metabolites and metabolic pathway reactions links to sensitization of immunotherapy in pan-cancer. *Molecular therapy. Oncology*, 33(1), 200933.