

Resource Summary Report

Generated by ASWG on May 7, 2025

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: portal, instrument resource, data or information resource, 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

Funding:

Availability: Free, Freely available

Resource Name: COMPASS

Resource ID: SCR_022329

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

Record Creation Time: 20220602T050139+0000

Record Last Update: 20250507T061523+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 246 mentions in open access literature.

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

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.

Zhang S, et al. (2025) The association between neighborhood social vulnerability and community-based rehabilitation after stroke. BMC health services research, 25(1), 55.

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.

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.

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.

Du Y, et al. (2025) Efficacy and safety of combined low-dose rituximab regimen for chronic inflammatory demyelinating polyradiculoneuropathy. *Annals of clinical and translational neurology*, 12(1), 180.

Fischer M, et al. (2025) Molecular Simulation Study of All-Silica Zeolites for the Adsorptive Removal of Airborne Chloroethenes. *Langmuir : the ACS journal of surfaces and colloids*, 41(2), 1344.

Donadio V, et al. (2025) Small fiber neuropathy associated with COVID-19 infection and vaccination: A prospective case-control study. *European journal of neurology*, 32(1), e16538.

Nehra G, et al. (2025) Plasma S100 β is a predictor for pathology and cognitive decline in Alzheimer's disease. *Fluids and barriers of the CNS*, 22(1), 4.

Zeifman RJ, et al. (2025) From relaxed beliefs under psychedelics (REBUS) to revised beliefs after psychedelics (REBAS). *Scientific reports*, 15(1), 3651.

Aghila Rani KG, et al. (2025) Medwakh smoking induces alterations in salivary proteins and cytokine expression: a clinical exploratory proteomics investigation. *Clinical proteomics*, 22(1), 2.

Srila W, et al. (2025) Relationship Between the Salivary Microbiome and Oral Malodor Metabolites in Older Thai Individuals with Periodontitis and the Cytotoxic Effects of Malodor Compounds on Human Oral Squamous Carcinoma (HSC-4) Cells. *Dentistry journal*, 13(1).

Azcue N, et al. (2025) Small fiber neuropathy in the post-COVID condition and Myalgic Encephalomyelitis/Chronic Fatigue Syndrome: Clinical significance and diagnostic challenges. *European journal of neurology*, 32(2), e70016.

Rai U, et al. (2025) Examining the association between public health unit spending and adolescent substance use. *Heliyon*, 11(1), e40884.

Patte KA, et al. (2024) School learning modes during the COVID-19 response and pre- to during pandemic mental health changes in a prospective cohort of Canadian adolescents. *Social psychiatry and psychiatric epidemiology*, 59(1), 137.

Dos Santos S, et al. (2024) Carbapenem-producing Enterobacteriaceae in mothers and newborns in southeast Gabon, 2022. *Frontiers in cellular and infection microbiology*, 14, 1341161.

Akinyemi RO, et al. (2024) Novel functional insights into ischemic stroke biology provided by the first genome-wide association study of stroke in indigenous Africans. *Genome medicine*, 16(1), 25.

Mott H, et al. (2024) Exploring the association between the proximity to and density around schools of retailers selling IQOS products and youth use of heated tobacco products: evidence from the 2020-2021 COMPASS study. *Health promotion and chronic disease prevention in Canada : research, policy and practice*, 44(1), 1.