

# Resource Summary Report

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## BioSHaRE

RRID:SCR\_003811

Type: Tool

### Proper Citation

BioSHaRE (RRID:SCR\_003811)

### Resource Information

**URL:** <https://www.bioshare.eu/>

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**Description:** A consortium of leading biobanks and international researchers from all domains of biobanking science to ensure the development of harmonized measures and standardized computing infrastructures enabling the effective pooling of data and key measures of life-style, social circumstances and environment, as well as critical sub-components of the phenotypes associated with common complex diseases. The overall aim is to build upon tools and methods available to achieve solutions for researchers to use pooled data from different cohort and biobank studies. This, in order to obtain the very large sample sizes needed to investigate current questions in multifactorial diseases, notably on gene-environment interactions. This aim will be achieved through the development of harmonization and standardization tools, implementation of these tools and demonstration of their applicability. BioSHaRE researchers are collaborating with P3G, the Global Alliance for Genomics and Health, IRDiRC (International Rare Diseases Research Consortium), H3Africa and other organizations on the development of an International Code of Conduct for Genomic and Health-Related Data Sharing. A draft version is available for external review. Generic documents have been prepared covering areas of biobanking that are of major importance. SOPs have been finalized for blood withdrawal (SOPWP5001blood withdrawal), manual blood processing (SOPWP5002blood processing), shipping of biosamples (SOPWP5003shipping) and withdrawal, processing and storage of urine samples (SOPWP5004urine).

**Abbreviations:** BIOSHARE-EU

**Synonyms:** Biobank Standardisation and Harmonisation for Research Excellence, Biobank Standardisation and Harmonisation for Research Excellence in the European Union

**Resource Type:** consortium, data or information resource, narrative resource, organization portal, portal, standard specification

**Keywords:** gene-environment interaction, life-style, social circumstance, environment, phenotype, disease, biobank, socio-economic factor, data sharing, gene, clinical

**Funding:** European Union FP7

**Resource Name:** BioSHaRE

**Resource ID:** SCR\_003811

**Alternate IDs:** nlx\_158110

**Record Creation Time:** 20220129T080221+0000

**Record Last Update:** 20260903T234646+0000

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## Ratings and Alerts

No rating or validation information has been found for BioSHaRE.

No alerts have been found for BioSHaRE.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 22 mentions in open access literature.

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

Gallardo LO, et al. (2025) Psychological repercussions of PM air pollution in human aging: a comprehensive review of urban and rural environments. *Frontiers in pharmacology*, 16, 1517090.

Yuan S, et al. (2023) Associations of air pollution with all-cause dementia, Alzheimer's disease, and vascular dementia: a prospective cohort study based on 437,932 participants from the UK biobank. *Frontiers in neuroscience*, 17, 1216686.

Hao G, et al. (2022) Associations of PM2.5 and road traffic noise with mental health: Evidence from UK Biobank. *Environmental research*, 207, 112221.

Yuan L, et al. (2022) The Risk of Hearing Impairment From Ambient Air Pollution and the Moderating Effect of a Healthy Diet: Findings From the United Kingdom Biobank. *Frontiers in cellular neuroscience*, 16, 856124.

Kanakoglou DS, et al. (2022) Laying the groundwork for the Biobank of Rare Malignant Neoplasms at the service of the Hellenic Network of Precision Medicine on Cancer. *International journal of oncology*, 60(3).

Parra KL, et al. (2022) Exposure to air pollution and risk of incident dementia in the UK Biobank. *Environmental research*, 209, 112895.

Chua SYL, et al. (2021) The Association of Ambient Air Pollution With Cataract Surgery in UK Biobank Participants: Prospective Cohort Study. *Investigative ophthalmology & visual science*, 62(15), 7.

van Tuijl LA, et al. (2021) Psychosocial factors and cancer incidence (PSY-CA): Protocol for individual participant data meta-analyses. *Brain and behavior*, 11(10), e2340.

Zhang Y, et al. (2021) Association analysis framework of genetic and exposure risks for COVID-19 in middle-aged and elderly adults. *Mechanisms of ageing and development*, 194, 111433.

Chua SYL, et al. (2020) Ambient Air Pollution Associations with Retinal Morphology in the UK Biobank. *Investigative ophthalmology & visual science*, 61(5), 32.

Wang Z, et al. (2020) Comparing Gut Microbiome in Mothers' Own Breast Milk- and Formula-Fed Moderate-Late Preterm Infants. *Frontiers in microbiology*, 11, 891.

Gale SD, et al. (2020) Association between exposure to air pollution and prefrontal cortical volume in adults: A cross-sectional study from the UK biobank. *Environmental research*, 185, 109365.

Cai Y, et al. (2020) Impact of road traffic noise on obesity measures: Observational study of three European cohorts. *Environmental research*, 191, 110013.

Prokosch HU, et al. (2018) MIRACUM: Medical Informatics in Research and Care in University Medicine. *Methods of information in medicine*, 57(S 01), e82.

Bergeron J, et al. (2018) Fostering population-based cohort data discovery: The Maelstrom Research cataloguing toolkit. *PloS one*, 13(7), e0200926.

Doiron D, et al. (2017) Residential Air Pollution and Associations with Wheeze and Shortness of Breath in Adults: A Combined Analysis of Cross-Sectional Data from Two Large European Cohorts. *Environmental health perspectives*, 125(9), 097025.

Pang C, et al. (2016) MOLGENIS/connect: a system for semi-automatic integration of heterogeneous phenotype data with applications in biobanks. *Bioinformatics (Oxford, England)*, 32(14), 2176.

Zijlema W, et al. (2016) Road traffic noise, blood pressure and heart rate: Pooled analyses of harmonized data from 88,336 participants. *Environmental research*, 151, 804.

Zijlema WL, et al. (2016) The LifeLines Cohort Study: a resource providing new opportunities for environmental epidemiology. *Archives of public health = Archives belges de sante publique*, 74, 32.

Lopes P, et al. (2015) Challenges and Opportunities for Exploring Patient-Level Data. *BioMed research international*, 2015, 150435.