

Resource Summary Report

Generated by PRECISE-TBI on Sep 8, 2026

Aurora Healthcare Biorepository

RRID:SCR_004587

Type: Tool

Proper Citation

Aurora Healthcare Biorepository (RRID:SCR_004587)

Resource Information

URL: <http://www.aurorahealthcare.org/services/orbit/bg.html>

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Description: The Open-Source Robotic Biorepository & Informatics Technology is a platform that aims to make blood samples and health related information available to researchers. This resource is intended to help researchers understand human biology so they can develop treatments that are effective for each individual. In the simplest terms, ORBIT is a large library of blood specimens. Patient recruitment for ORBIT is being rolled out of Aurora's 13 hospitals and 120 clinics in eastern Wisconsin, starting with its Milwaukee facilities. So far, more than 70 percent of patients have agreed to participate. If patients agree to participate, blood left over from their medical tests is sent to the ORBIT lab. Here a robot extracts the DNA from the blood, bar codes the sample and stores it in a freezer. The barcode allows the informatics technology to link each sample with the appropriate privacy-protected electronic medical record. The open source aspect of ORBIT is intended to expand scientific discovery. Researchers who use ORBIT specimens will return their research results to ORBIT to minimize study repetition and to allow researchers from around the world to build on previous results.

Abbreviations: ORBIT

Synonyms: ORBIT - The Biorepository Program, Open-Source Robotic Biorepository and Informatics Technology

Resource Type: biomaterial supply resource, material resource

Resource Name: Aurora Healthcare Biorepository

Resource ID: SCR_004587

Alternate IDs: nlx_57835

Record Creation Time: 20220129T080225+0000

Ratings and Alerts

No rating or validation information has been found for Aurora Healthcare Biorepository.

No alerts have been found for Aurora Healthcare Biorepository.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 2 mentions in open access literature.

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

Tong Y, et al. (2024) Anti-HER2 therapy response assessment for guiding treatment (de-)escalation in early HER2-positive breast cancer using a novel deep learning radiomics model. European radiology, 34(8), 5477.

Mao Y, et al. (2022) The Predictive Value of Magnetic Resonance Imaging-based Texture Analysis in Evaluating Histopathological Grades of Breast Phyllodes Tumor. Journal of breast cancer, 25(2), 117.