

Resource Summary Report

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NIST - National Institute of Standards and Technology

RRID:SCR_006440

Type: Tool

Proper Citation

NIST - National Institute of Standards and Technology (RRID:SCR_006440)

Resource Information

URL: <http://www.nist.gov/index.html>

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Description: Founded in 1901, NIST (National Institute of Standards and Technology) is a non-regulatory federal agency within the U.S. Department of Commerce. NIST's mission is to promote U.S. innovation and industrial competitiveness by advancing measurement science, standards, and technology in ways that enhance economic security and improve our quality of life. NIST carries out its mission through the following programs: * the NIST Laboratories, conducting world-class research, often in close collaboration with industry, that advances the nation's technology infrastructure and helps U.S. companies continually improve products and services; * the Hollings Manufacturing Extension Partnership, a nationwide network of local centers offering technical and business assistance to smaller manufacturers to help them create and retain jobs, increase profits, and save time and money; and * the Baldrige Performance Excellence Program, which promotes performance excellence among U.S. manufacturers, service companies, educational institutions, health care providers, and nonprofit organizations; conducts outreach programs; and manages the annual Malcolm Baldrige National Quality Award which recognizes performance excellence and quality achievement; * From 2007 to 2011, NIST provided cost-shared grants through the Technology Innovation Program, and between 1990 and 2007, it managed the Advanced Technology Program. NIST measurements support the smallest of technologies nanoscale devices so tiny that tens of thousands can fit on the end of a single human hair to the largest and most complex of human-made creations, from earthquake-resistant skyscrapers to wide-body jetliners to global communication networks. We invite you to explore our web site to learn about our current projects, to find out how you can work with us, or to make use of our products and services. From the smart electric power grid and electronic health records to atomic clocks, advanced nanomaterials, and computer chips, innumerable products and services rely in some way on technology, measurement, and standards provided by the National

Institute of Standards and Technology. NIST funds industrial and academic research in a variety of ways. The Small Business Innovation Research Program funds R&D proposals from small businesses. We also offer other grants to encourage work in specific fields: precision measurement, fire research, and materials science. Grants/awards supporting research at industry, academic, and other institutions are available on a competitive basis through several different Institute offices. For general information on NIST grants programs, please contact Christopher Hunton at christopher.hunton@nist.gov and (301) 975-5718.

Abbreviations: NIST

Synonyms: National Institute of Standards and Technology

Resource Type: portal, funding resource, data or information resource, organization portal

Resource Name: NIST - National Institute of Standards and Technology

Resource ID: SCR_006440

Alternate IDs: nlx_144073

Record Creation Time: 20220129T080236+0000

Record Last Update: 20260728T043233+0000

Ratings and Alerts

No rating or validation information has been found for NIST - National Institute of Standards and Technology.

No alerts have been found for NIST - National Institute of Standards and Technology.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 206 mentions in open access literature.

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

Pan J, et al. (2025) Unraveling the microbiome-aroma Nexus: a metagenomic and volatile compound analysis of Yunnan cigars. *Frontiers in microbiology*, 16, 1597501.

Deng J, et al. (2025) Characterization of fermentation parameters, volatile compounds and microbial community structure of fermented grains in the upper and lower layers during strong-flavor Baijiu fermentation. *Bioresources and bioprocessing*, 12(1), 105.

Vollbrecht M, et al. (2025) An integrated data pipeline for semantic data representation of the flame spray pyrolysis process. *F1000Research*, 14, 173.

Akkus GN, et al. (2025) Effect of *Arum rupicola* Boiss *rupicola* Extracts on Visceral Larva Migrants in Mice. *Acta parasitologica*, 70(1), 31.

Sun X, et al. (2025) Study on enzyme activities and metabolomics of two *Penicillium chrysogenum* strains during fermentation of soybean paste. *Frontiers in microbiology*, 16, 1570939.

Liu Z, et al. (2025) Metabolomics Profiling and Advanced Methodologies for Wheat Stress Research. *Metabolites*, 15(2).

Zeng Y, et al. (2025) Transcriptome-Wide Analysis of N6-Methyladenosine-Modified Long Noncoding RNAs in Particulate Matter-Induced Lung Injury. *Toxics*, 13(2).

Wang J, et al. (2025) Influence of AcCdc42-overexpressing strain individual inoculation on volatile profile in fermentation of liquid-state malt yeast agar and dark tea soup. *Food chemistry. Molecular sciences*, 11, 100262.

Duan DM, et al. (2025) Comparisons of performances of structural variants detection algorithms in solitary or combination strategy. *PloS one*, 20(2), e0314982.

Zhou F, et al. (2025) Fine-tuned terpene synthase gene expression, functional promiscuity, and subcellular localization: implications for the evolution of complex floral volatile bouquet in *Caladenia* orchids. *Plant & cell physiology*, 66(4), 627.

Zhang Y, et al. (2025) Gut microbiota contributes to protection against porcine deltacoronavirus infection in piglets by modulating intestinal barrier and microbiome. *Microbiome*, 13(1), 93.

Richter A, et al. (2024) Enhanced surface colonisation and competition during bacterial adaptation to a fungus. *Nature communications*, 15(1), 4486.

Zhang M, et al. (2024) Analyzing microbial community and volatile compound profiles in the fermentation of cigar tobacco leaves. *Applied microbiology and biotechnology*, 108(1), 243.

Hu W, et al. (2024) Purine metabolite inosine induced by transforming growth factor?? promotes epithelial?mesenchymal transition in colorectal cancer. *Oncology letters*, 28(3), 416.

Wei M, et al. (2024) Baolier Capsule's Secret Weapon: Piperine Boosts Cholesterol Excretion to Combat Atherosclerosis. *Drug design, development and therapy*, 18, 6427.

Lee J, et al. (2024) Anti-Atopic Effect of *Scutellaria baicalensis* and *Raphanus sativus* on Atopic Dermatitis-like Lesions in Mice by Experimental Verification and Compound-Target Prediction. *Pharmaceuticals (Basel, Switzerland)*, 17(3).

Lv L, et al. (2024) The oral administration of *Lacticaseibacillus casei* Shirota alleviates acetaminophen-induced liver injury through accelerated acetaminophen metabolism via the liver-gut axis in mice. *mSphere*, 9(1), e0067223.

Chai YN, et al. (2024) Root-associated bacterial communities and root metabolite composition are linked to nitrogen use efficiency in sorghum. *mSystems*, 9(1), e0119023.

Sun XW, et al. (2024) *Christensenella* strain resources, genomic/metabolomic profiling, and association with host at species level. *Gut microbes*, 16(1), 2347725.

Najar B, et al. (2024) Exploring the Volatile Composition and Antibacterial Activity of Edible Flower Hydrosols with Insights into Their Spontaneous Emissions and Essential Oil Chemistry. *Plants (Basel, Switzerland)*, 13(8).