

Resource Summary Report

Generated by ASWG on Aug 2, 2026

National ESCA and Surface Analysis Center for Biomedical Problems

RRID:SCR_001430

Type: Tool

Proper Citation

National ESCA and Surface Analysis Center for Biomedical Problems
(RRID:SCR_001430)

Resource Information

URL: <http://www.nb.uw.edu/>

Proper Citation: National ESCA and Surface Analysis Center for Biomedical Problems
(RRID:SCR_001430)

Description: Biomedical technology research center that provides state-of-the-art surface analysis expertise, instrumentation, experimental protocols, and data analysis methods to address surface-related biomedical problems. NESAC/BIO develops and applies surface science methodologies that produce a full understanding of the surface composition, structure, spatial distribution, and orientation of biomaterials and adsorbed biomolecules. The NESAC/BIO program identifies areas where surface science must evolve to keep pace with the growth in biochemical knowledge and biomaterial fabrication technology, and develops instrumentation, experimental protocols, and data analysis methods to achieve this evolution. NESAC/BIO provides state-of-the-art surface analysis tools to researchers in the biomedical community. You can gain access to the NESAC/BIO facilities in one of the following ways: * Collaborative: Propose a project to collaborate on with NESAC/BIO. The project should be rewarding for both groups, and the results should reflect the utility of surface analysis for biomedical research * Service: Ask NESAC/BIO to analyze your biomaterial specimens. The spectra obtained from the analyses will be interpreted for you. * Training: Visit the University of Washington to receive training in surface analysis and personally run experiments for your individual research projects. These experiments should have a high probability for yielding useful information and should not involve the development of new ESCA techniques or methodologies.

Abbreviations: NESAC/BIO

Synonyms: NESAC/BIO - National ESCA and Surface Analysis Center for Biomedical Problems

Resource Type: training resource, service resource, biomaterial analysis service, material analysis service, production service resource, access service resource, biomedical technology research center, analysis service resource

Keywords: surface, composition, structure, spatial distribution, orientation, biomaterial, biomolecule, surface science, biochemical, biomaterial fabrication, surface analysis

Funding: NIBIB 5P41RR001296-11

Availability: Free, Freely Available

Resource Name: National ESCA and Surface Analysis Center for Biomedical Problems

Resource ID: SCR_001430

Alternate IDs: nlx_152654

Record Creation Time: 20220129T080207+0000

Record Last Update: 20260801T190129+0000

Ratings and Alerts

No rating or validation information has been found for National ESCA and Surface Analysis Center for Biomedical Problems.

No alerts have been found for National ESCA and Surface Analysis Center for Biomedical Problems.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1 mentions in open access literature.

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

Chang SY, et al. (2012) Catalase prevents maternal diabetes-induced perinatal programming via the Nrf2-HO-1 defense system. Diabetes, 61(10), 2565.