

# Resource Summary Report

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## USC Immune Monitoring Core Facility

RRID:SCR\_012672

Type: Tool

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### Proper Citation

USC Immune Monitoring Core Facility (RRID:SCR\_012672)

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### Resource Information

**URL:** <http://www.scienceexchange.com/facilities/immune-monitoring-core-facility-usc>

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**Description:** The mission of the USC Arnold and Mabel Beckman Center for Immune Monitoring is to provide the USC community and external customers with the highest quality support for clinical trials for immunotherapy of human cancers; facilitate basic, translational, and clinical research with an immunological monitoring component; and provide immunological assay training and education. The IM core provides quality assessments of immunological function necessary for the study of pathogenesis, treatment, and prevention of cancer and other human diseases. Supporting clinical trials for immunotherapy of human cancer: For physicians involved in clinical trials for immunotherapy of human cancer, the Beckman Center for Immune Monitoring Core offers several assays to assess patient immune responses. Such assays provide a highly sensitive and quantitative means of measuring the efficacy of an experimental treatment as a surrogate endpoint or as a correlative to clinical responses. It can help establish proof of principle that a treatment works, and suggest changes to adapt a standard treatment protocol to individual patient needs. Besides the Gold Standard of Immune monitoring: the ELISPOT assay for detection of cytokines released by activated T cells, we also perform intracellular cytokine staining and can detect tumor specific T cells by MHC tetramer analysis. Helper and killer T cells can be separated, and proliferative and cytotoxic responses are quantified in radioactive assays. The monitoring protocol of choice is tailor made to fit the needs and the possibilities of each treatment protocol. The core offers freezing and storage capacity for clinical samples and full analytical support for monitoring assays. It is also possible to send in samples for post-assay analysis using our state-of-the-art ELISPOT reader. Facilitating research with an immune monitoring component: For researchers within travel distance of our facility, we offer equipment and technical assistance for performance and/or analysis of ELISPOT assays, flow cytometry-based assays, radioisotope-based proliferation and cytotoxicity assays, multiplexing ELISA assays, and molecular-based quantitative PCR assays. Our lab has equipment for controlled rate freezing and storage of cryopreserved peripheral blood cells, tissue culture facilities and an ELISPOT reader to analyze your 96 well plates. Assays and technical

support are also available to support translational projects that utilize in-vitro systems and in vivo animal models.

**Abbreviations:** USC Immune Monitoring Core Facility

**Synonyms:** USC Norris Comprehensive Cancer Center Immune Monitoring Core Facility, University of Southern California Norris Comprehensive Cancer Center Immune Monitoring Core Facility

**Resource Type:** access service resource, core facility, service resource

**Resource Name:** USC Immune Monitoring Core Facility

**Resource ID:** SCR\_012672

**Alternate IDs:** SciEx\_8807

**Record Creation Time:** 20220129T080311+0000

**Record Last Update:** 20260829T183232+0000

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## Ratings and Alerts

No rating or validation information has been found for USC Immune Monitoring Core Facility.

No alerts have been found for USC Immune Monitoring Core Facility.

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## Data and Source Information

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

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## Usage and Citation Metrics

We have not found any literature mentions for this resource.