



EMORY  
UNIVERSITY

Emory Multiplexed  
Immunoassay Core  
Emory Integrated Core Facilities

## VIRTUAL SEMINAR: Applications of MSD Plate Based Multiplex ELISA Assays

**DATE:** Thursday Oct 7<sup>th</sup>, 2021  
**TIME:** 11 am  
**PLACE:** <https://zoom.us/j/95512627297>

Meso Scale Discovery biomarker assays provide a rapid and convenient method for measuring multiple analytes within a single, small-volume sample for mouse, rat, human and non-human primate studies. MSD platform offers a diverse menu of over 600 optimized kitted assays for exploring **inflammation, cancer, metabolism, neurodegenerative diseases and cell signaling** in two unique platforms using ECL detection:

**V-PLEX**- validated assays developed under design control **and** according to the FDA's analytical validation guidelines, V-PLEX represents the highest quality assay available from MSD. Comprehensive testing of all raw materials and kit components combined with rigorous manufacturing and QC specifications ensure reproducible results time after time.

**U-PLEX**- customizable assays that allow you to design and make personalized multiplex assay combinations. The flexibility of U-PLEX allows you to use your own antibodies or choose from the MSD menu of analytes in an easy workflow and simple protocol similar to ELISA.

**S-PLEX**- ultra-sensitive assays shown to achieve as much as 1000 fold improvement over standard ELISAs and 10-100 fold improvement over conventional MSD assays.

The data generated from MSD assays generally shows improved sensitivity and increased dynamic range while following a simpler assay workflow and requiring less sample volume when compared to other methodologies. With its large dynamic range, the MSD platform is highly amenable for measuring the concentration of analytes that may vary over a large range in both simple and complex sample matrices. The ability to multiplex assays further contributes to the reduced sample requirements and time savings.

For more information visit: <https://www.cores.emory.edu/emc/>  
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