

Overview

- companion diagnostics, IHC and FISH, are currently used to test HER2 status to determine patients' eligibility for the treatment.
- However, both IHC and FISH have limitations. IHC is semiquantitative, subjective, and sensitive to antigen instability in FFPE; throughput assays.
- We developed a clinically-validated multiplex MS assay (selected reaction monitoring – SRM) on GEC FFPE tissues for HER2 status evaluation compared to IHC and FISH, along with multivariate analysis of other oncoprotein expression levels including Met-SRM, Egfr-SRM, Her3-SRM.



Her2 expression in Gastroesophageal Cancer (GEC) FFPE Tissue using Mass Spectrometry (MS) and correlation with HER2 gene amplification

Daniel VT Catenacci¹, Lei Zhao², Emma Whitcomb², Les Henderson¹, Emily O'Day¹, Peng Xu¹, Shu-Yuan Xiao², Sang M Lee³, Wei-Li Liao⁴, Sheeno Thyparambil⁴, Kathleen Bengali⁴, Jamar Uzzell⁴, Marlene Darfler⁴, David Krizman⁴, Jon Burrows⁴, and Todd Hembrough⁴.

¹University of Chicago, Department of Hematology, Chicago, IL, ²University of Chicago, IL, ³University of Chicago, IL, ²University of Chicago, IL, ²University of Chicago, IL, ²University of Chicago, IL, ²University of Chicago, IL, ³University of Chicago, IL,

Results







Correlation of HER2-SRM with HER2 FISH & HER2 IHC in FFPE GEC Tissues