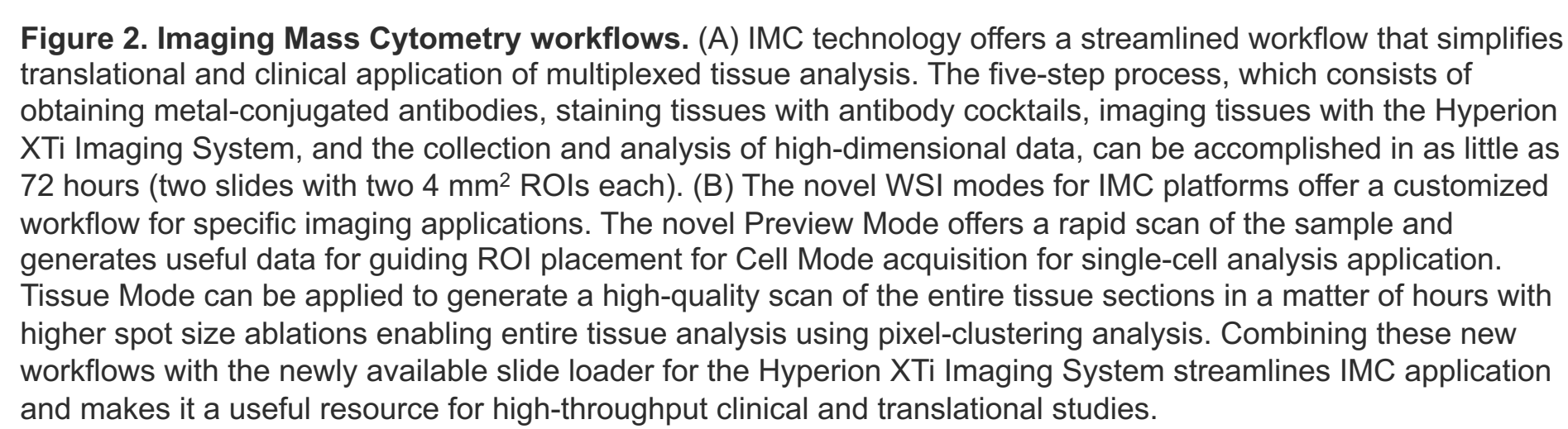
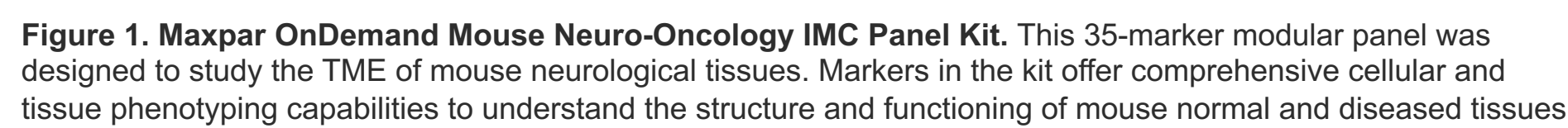




## Introduction

## Methods and materials

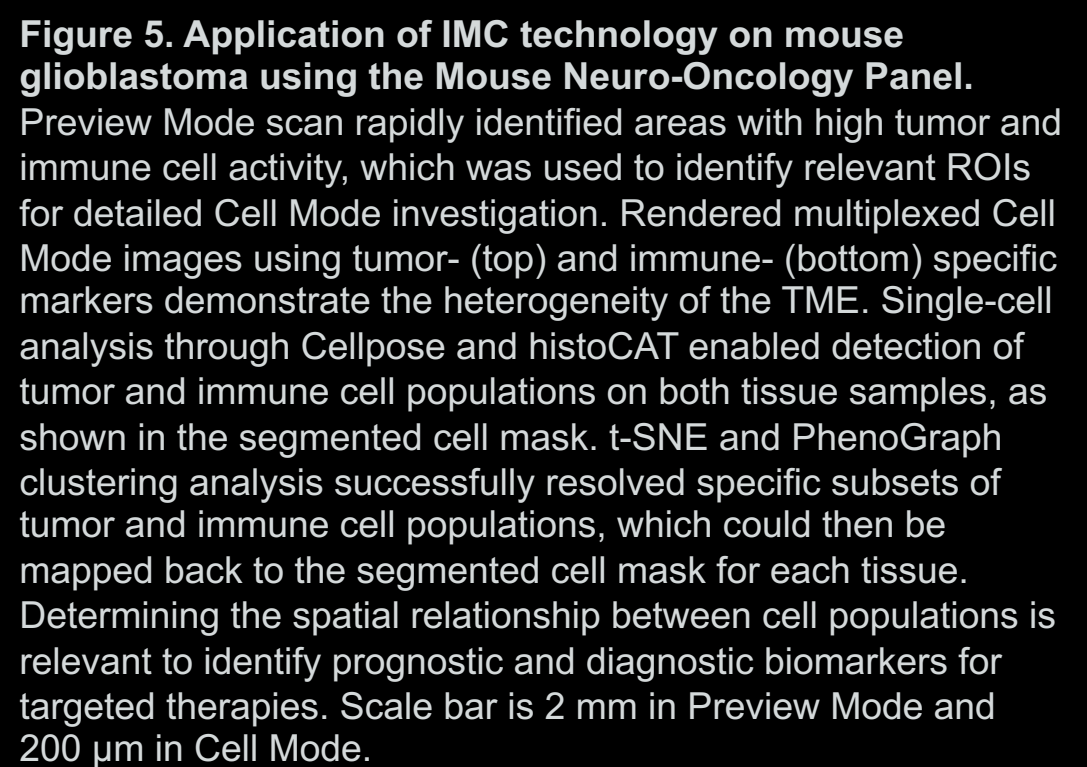
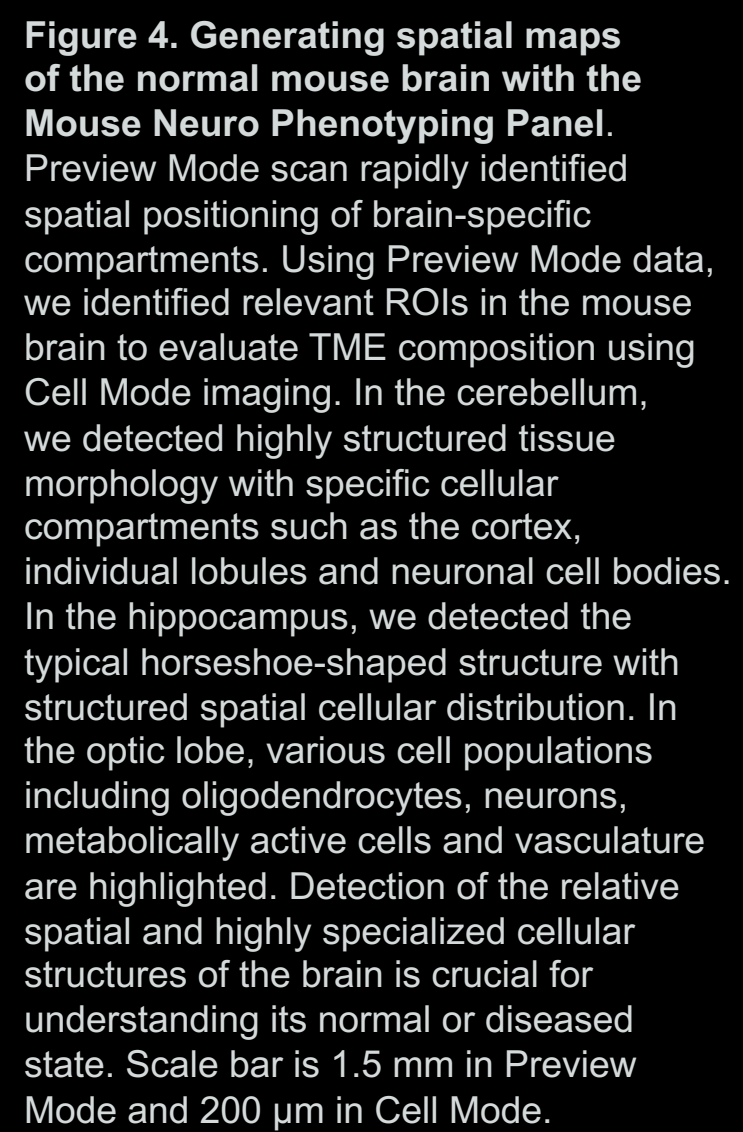
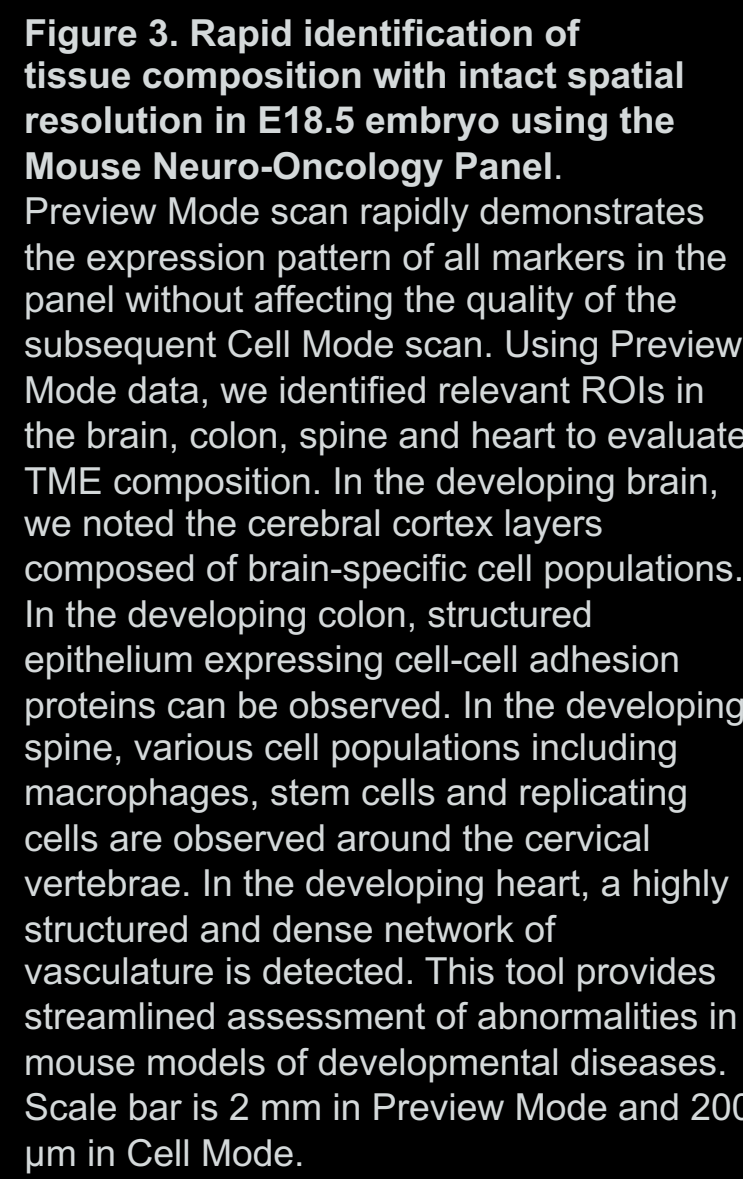
We demonstrate the WSI application using a 40-marker panel composed of the Maxpar™ OnDemand Mouse Immuno-Oncology IHC Panel Kit and the Maxpar Neuro Phenotyping IHC Panel Kit (Figure 1) on mouse embryo, normal brain and glioblastoma (GBM) tissue. We performed imaging using two new features of the Hyperion XTI Imaging System (Figure 2). Ultrafast Preview Mode (PM) was applied to rapidly screen entire tissue sections for marker expression signatures associated with tissue compartments and biological processes. This enabled biomarker-guided selection of areas in normal and tumor tissues that were imaged using region of interest (ROI)-based Cell Mode image and analyzed using single-cell analysis (SCA). In parallel, high-throughput Tissue Mode (TM) was applied to perform a detailed whole slide tissue scan of mouse embryo, normal brain and GBM tissues that were quantified using pixel-clustering analysis to unravel the composition of the TME.



## Conclusions

## Results

**Preview Mode facilitates ROI placement for Cell Mode acquisition.**



**Tissue Mode permits whole tissue acquisition and tissue phenotyping.**

