

Interplay between TIM-3⁺ immune cells and other immune checkpoints in more than 40 different human carcinoma entities using 21 marker BLEACH&STAIN mfIHC

Introduction & Objectives

An increasing number of therapy regimens using a combination of immune checkpoint different inhibitors have shown remarkable results in several different tumor entities. However, the likelihood of a positive response rate to immune checkpoint combined therapy is poor in most tumor entities and depends on several parameters including the tumor Particularly microenvironment. little is known about the spatial orchestration and spatial interplay between different immune checkpoint expressing cells. T-cel the immunoglobulin and mucin domain-containing protein (TIM3) is expressed on both immune cells as well as tumor cells and that several phase I/II studies are currently evaluating anti-TIM3 drugs, the interplay between immune these checkpoints in human cancers is of topical interest.

Materials & Methods

To study the spatial orchestration TIM-3, between PD-L anc subsets, Γ-cell CD11c⁺ macrophage subsets, dendritic cells, CD20⁺B-cells in to panCK⁺ malignant relation cells, CD31⁺ vessels and other structural tumor compartments, a multiplex fluorescence immunohistochemistry approach was used to stain 21 different antibodies on a set of tissue microarrays containing samples from more than 3000 carcinoma samples. In addition, a deep learning-based framework for cell type identification was developed and validated in this study.





CD68	TIM-3	PD-L1	CTLA-4	PD-1	CD163	CD20	CD3	CD11c	FOXP3	CD4
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RESULTS

and CDH16 antibody clones were provided by MS Validated Antibodies GmbH (owned by a family member of GS)

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