CBmed
BIOMARKER RESEARCH

Project Leader
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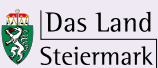isabell.dolznig@cbmed.at

CBmed
is an internationally recognized biomarker research center with a focus on cancer, metabolism and inflammation.
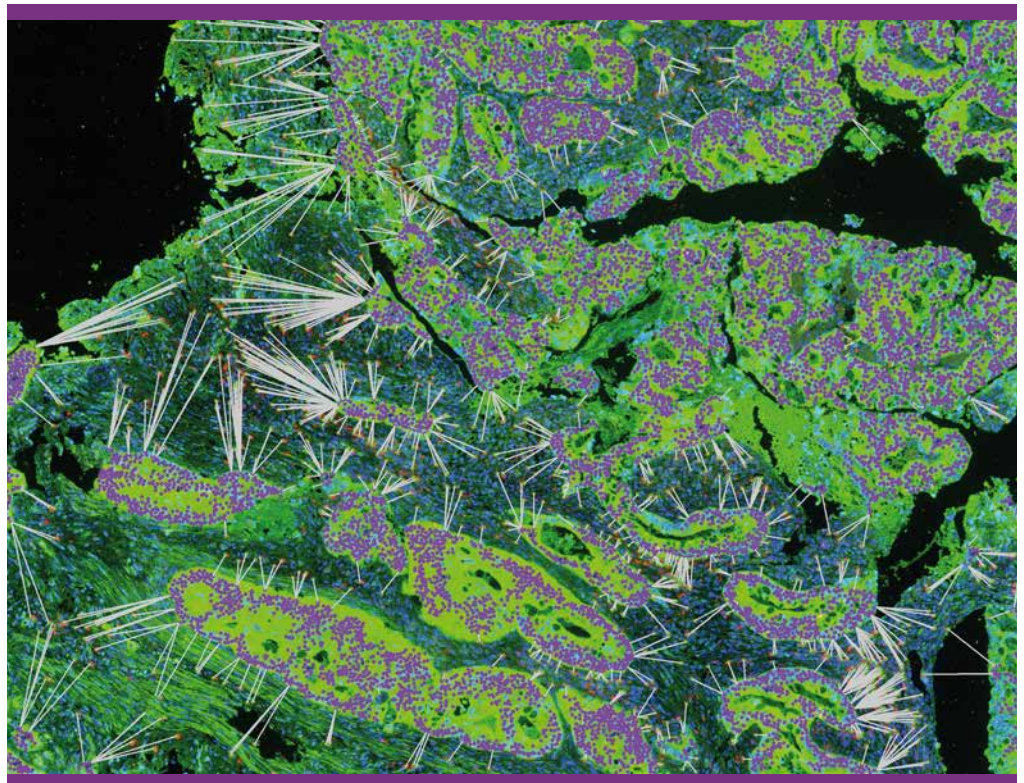**www.cbmed.at**

In cooperation with

Medical University of Graz

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Das Land Steiermark

vienna business agency

COMET
Competence Centers for Excellent Technologies

Digital Pathology

CD4, CD8, CD20, Foxp3, CD45R0 & cytokeratin on CRC

Our research is focussed on applying **multiplex IHC** and **multispectral imaging** technologies with novel analytical tools to enable the use of the **immune cell population** as a prognostic and predictive biomarker.

CBmed offers solutions from cohort design and assembly to pathological analysis, **Immunohistochemistry (IHC), Fluorescence In-Situ Hybridization (FISH), image analysis** and other complimentary analyses.
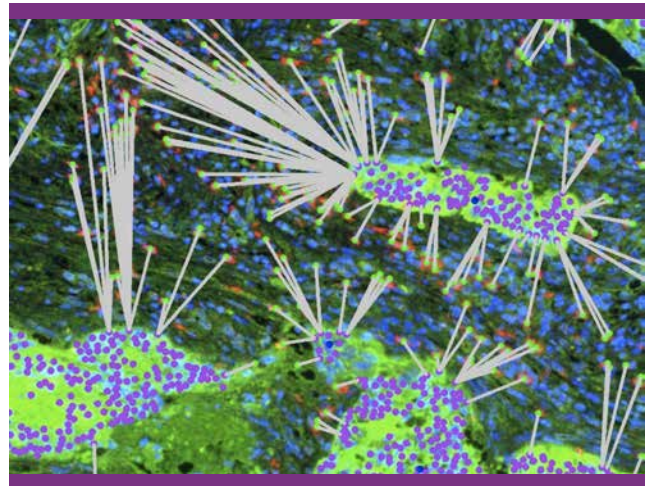
Our Expertise

- Cohort assembly
- Assay development (IHC, FISH)
- Prevalence studies and patient stratification
- Experience in image analysis projects

Spatial distance between cytotoxic T cells and nearest tumour cell
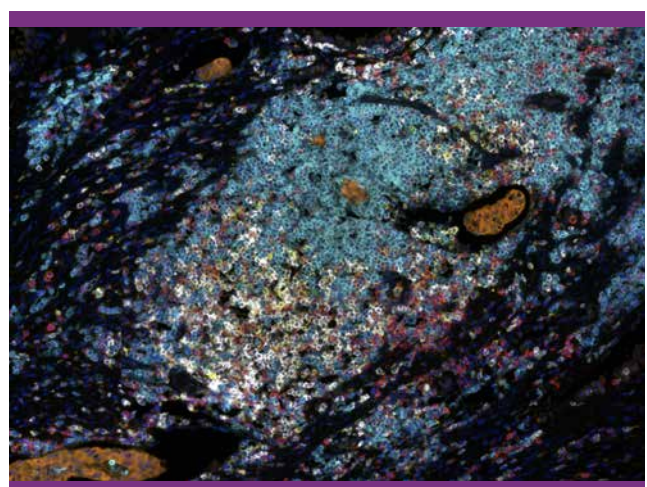
Our Resources

- Vectra System, PerkinElmer Vectra System (PerkinElmer) is a cutting edge digital pathology system allowing indepth cell phenotyping through spectral unmixing technology and quantitative spatial analysis through image analysis and bioinformatics software (InForm & Sportfire)
- Immunohistochemistry (IHC)
- Multiplex IHC
- Fluorescence In-Situ Hybridization (FISH)
- Digitalisation
- Image analysis tools
- Working closely with the Institute of Pathology & Division of Oncology at the Medical University of Graz, along with the Biobank Graz

Current Projects

- Investigation of distance measurements between specific immune cell subtypes and tumor cells as prognostic markers in colon cancer
- Comparison of early relapse vs late relapse in stage II colon cancer
- CBmed's Digital Pathology workflow enables the addressing of key issues in biomarker research including heterogeneity and spatial relationship of the immune system with tumour and tumour micro-environment

CD4, CD8, CD20, FoxP3, CD45R0 & cytokeratin on CRC