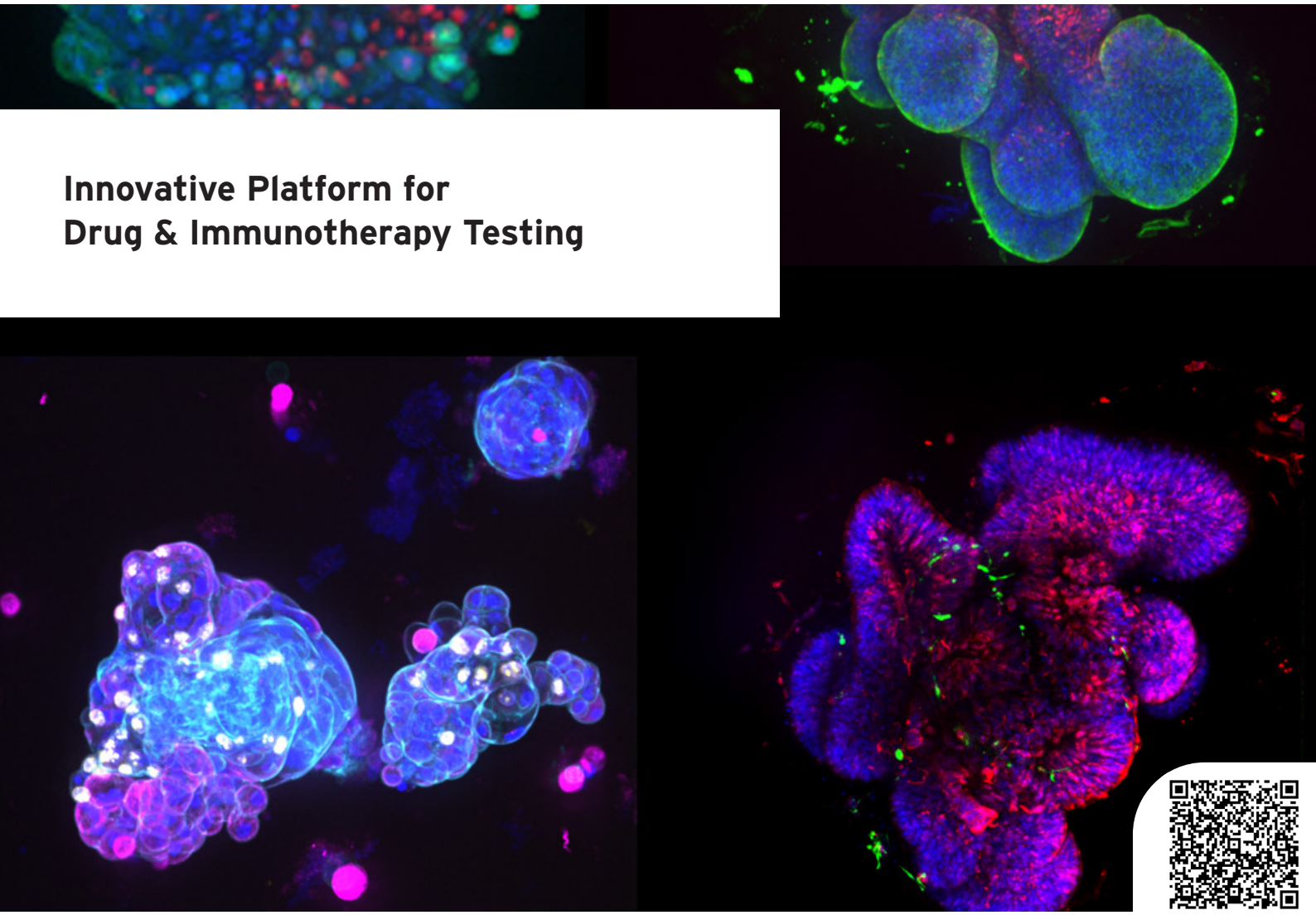
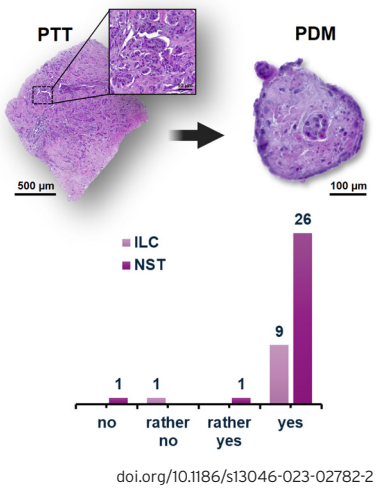
PATIENT-DERIVED MICROTUMORS

NMI
Natural and Medical Sciences Institute



Innovative Platform for Drug & Immunotherapy Testing

PDMs retain original tissue's histological characteristics



doi.org/10.1186/s13046-023-02782-2

We provide a versatile immuno-oncology testing platform powered by patient-derived microtumors (PDMs) and autologous immune cells (TILs, PBMCs) – for evaluating drug candidates, immunotherapies, and combination treatments.

Characteristics

- Retention of primary tumor tissue histology, no artificial ECM
- Real autologous co-culture models employing TILs or PBMC-derived lymphocytes
- Modeling of various types of solid tumors is available

Services

- Next-level drug & ATMP testing
- Full patient consent and FTO for commercial studies
- Seamless access to comprehensive in-house downstream analysis portfolio

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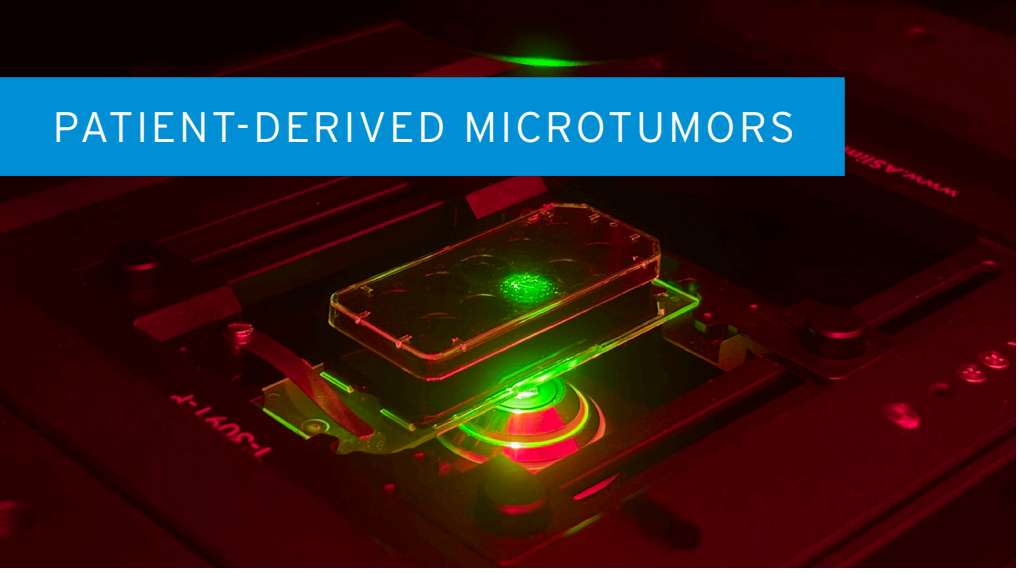
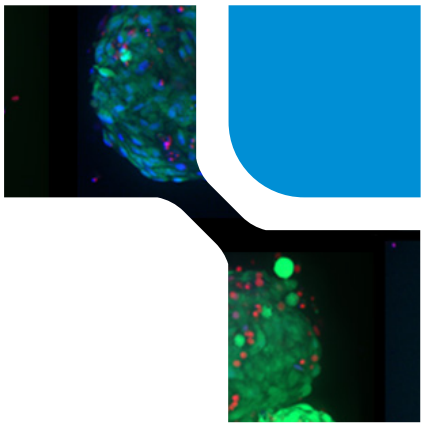
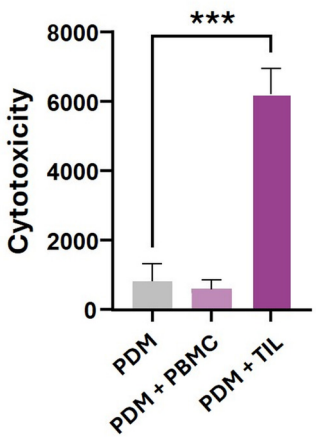


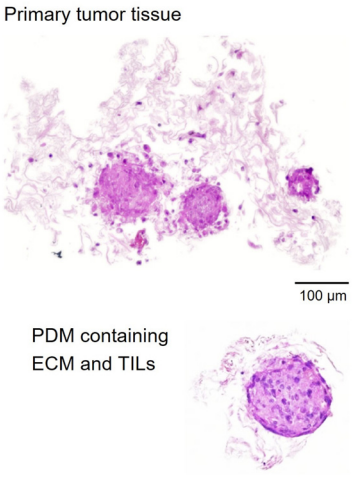


High-end confocal microscopy with up to 4D imaging and controlled environmental conditions tracks T-cell infiltration and assesses microtumor integrity and viability.



Analysis portfolio

- Viability and toxicity
- Tumor-specific apoptosis
- Presence of therapeutic targets and cell surface markers
- Cytokine release
- T-cell infiltration
- Tumor-specific protein expression and activation signatures



CONTACT US FOR MORE DETAILS!

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ABOUT THE NMI

The NMI is a non-university research institution that conducts application-oriented research in the biological and material sciences. It has an interdisciplinary range of expertise in R&D and services for companies in the healthcare, automotive, mechanical engineering, and toolmaking industries. The NMI cooperates with top-class institutions in its research activities. It is supported by the Baden-Württemberg Ministry of Economic Affairs and is a member of innBW.

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