The M²OLIE Research Campus offers scientists and young professionals as well as industry partners from Germany and Europe a unique interdisciplinary platform to contribute to a paradigm shift in the entire diagnostic-therapeutic treatment process of oncological patients.

The M²OLIE Research Campus draws on the established infrastructure on the campus of the University Medical Center Mannheim and at the same time provides new, state-of-the-art research facilities which have been established on the campus during the first funding phase of M²OLIE.

WE ARE LOOKING FORWARD TO HEARING FROM YOU!

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M²OLIE (Mannheim Molecular Intervention Environment) is one of nine Research Campuses in Germany that have been funded by the Federal Ministry of Education and Research since 2012 as part of the “Research Campus – Public-Private Partnership for Innovation” initiative. In June 2019, M²OLIE successfully entered the second of three possible funding phases (2019-2024).

The goal of M²OLIE is to establish the M²OLIE Closed Loop, a patient-centered and time-optimized infrastructure for innovative tumor therapies. By means of molecular intervention, the aim is to make treatment of cancer patients with oligometastases possible in a “one-stop shop”.

The M²OLIE Research Campus
- bundles resources under one roof through long-term integration of medical research, sciences, engineering, computer science and business administration
- enables public-private partnership on equal footing – with six academic and 21 German and European partners from industry
- creates tomorrow’s innovation by developing the “intervention environment of the future”.

The M²OLIE Closed-Loop Process starts with the patient’s admission (top left). In the next step, an electronic M²OLIE patient file is created using data from MIRACUM. The automated process control takes over and initiates an iterative path of different treatment stages: multimodal (pre-)interventional imaging, automated biopsy, molecular biopsy analysis, individualized minimally invasive therapy.

The therapy decision is made as suggested by the digital expert system after the ad hoc tumor board (top center). After the therapy of each metastasis, the patient leaves the Closed Loop with or without subsequent drug tumor therapy (top right). The blue area symbolizes the data lake, in which all data is stored, processed and made available on demand.

The “intervention environment of the future” at the M²OLIE Research Campus.

Photo: Porsche Consulting.

THE M²OLIE RESEARCH CAMPUS

THE M²OLIE CLOSED-LOOP PROCESS

THE PROJECTS OF THE RESEARCH CAMPUS