Background

Every human is unique. This impacts each person’s individual immunological response to a drug or chemical. Humans have 600 to 700 lymph nodes, or tiny organs that play a central role in protecting us from foreign bodies. To date, there is no artificial immune system that can reproduce human immune reactions in vitro (outside a living organism). The biotechnological hurdles are simply too great – too complex and too close to tissue formations, with too many possible biological immune responses. Moreover, there is enormous variability from person to person.

In this way, the Fraunhofer-Gesellschaft will make advances in animal-testing-free biomedical research.

Focus

On the basis of a strategic field analysis as well as a market and needs analysis, the researchers at Fraunhofer IMW are developing concrete options for the commercial exploitation of this innovative product/service offering.

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Fraunhofer-Gesellschaft
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Project Partners:

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