

Fraunhofer-Einrichtung für Individualisierte und Zellbasierte Medizintechnik IMTE

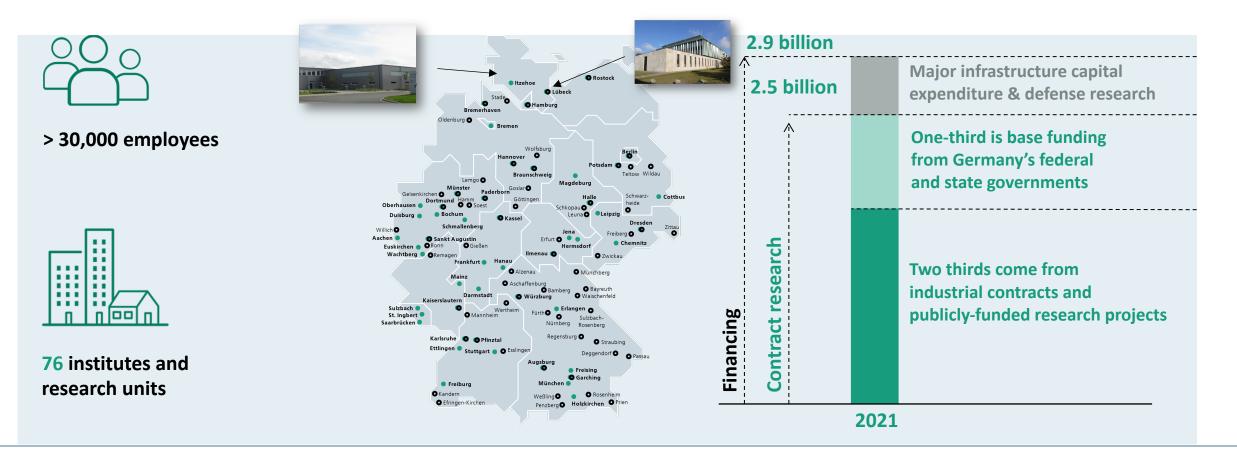
Aquaculture@Fraunhofer

In the Case of Fraunhofer Research Institution for Individualized and Cell-Based Medical Engineering

The Fraunhofer-Gesellschaft

At a glance

Applied research with a focus on key future-relevant technologies and the commercialization of findings in business and industry. A trailblazer and trendsetter in innovative developments.







in the field of aquaculture and aquatic resources





Competencies of IMTE

Focus and competencies

- Investigations and developments in animal health and animal welfare in vivo and in vitro (use of cell culture techniques)
- Development and investigation of novel raw materials and additives for feeding aquaculture organisms
- Research and application of innovative aquaculture systems (RAS) and components (Co-Culture, aquaponics, filter systems)
- Use of aquatic resources for applied food research to develop innovative foods and ingredients

Reference project examples

- Part of the Innovation room Bioeconomy on marine locations e.V (BaMS): Research and development in the field of sustainable blue bioeconomy
- SALHEARTCELL: Vaccine Developement using novel Fish cell cultures
- CoNaFi: Optimization of feeding management in fish larvae rearing to improve larval quality and survival rate using copepods.
- OASEE: Optimization of the air conditioning of an aquaculture hall to increase energy efficiency and to improve the humidity balance (hygiene) with innovative use of model-predictive approaches for intelligent and energyefficient control
- **Ich liebe Fisch":** Aquaponics and integrated aquaculture in Malawi





Challenges And our approaches to overcoming them

Spektrum.de

NEWS

Umweltbelastungen durch Aquakultur



Fische zu Fischfutter – Doku über die dramatischen Folgen der Fischmehl-Industrie

SPIEGEL Wissenschaft

Fische aus Zuchtanlagen stark mit Medikamenten belastet

Fisch ist gesund - so das gängige Urteil. Nach neuesten Erkenntnissen der Bundesregierung kann man daran Zweifel bekommen. Laut SPIEGEL ist die Zahl der mit antimikrobiellen Medikamenten behandelten Tiere in der Fischzucht alarmierend.



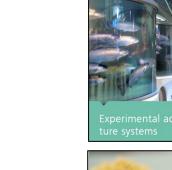














Fish nutrition and hus-

Thank you for your attention !!!



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