

Agriculture and Food Industry Alliance

Product Protection
and Analytics

Challenges

The vulnerability of the globalized food system, climate change, resource scarcity, and fragile supply chains, but also rising food prices are major challenges.

As a result, food safety and quality as well as consumer protection are becoming even more prominent.

This is where the Fraunhofer Agriculture and Food Industry Alliance comes in:

- Analysis of **contaminant exposure** for environmental and consumer protection as well as of authenticity to combat **food counterfeiting**
- Consideration of **sensory quality** and **consumer acceptance** for freshness, refinement, ripening, and spoilage
- Ensuring **transparency** and **traceability** in the food chain
- **Digital** solutions and **sensor** technologies



Customer Benefits

- **One-stop shop**: from concept to prototypes
- Holistic **product development** with a special focus on safety and quality
- Interdisciplinary **know-how** for solutions of a sustainable food industry
- **Customized solutions** for companies of all sizes
- Bundling of the **competencies** as part of the Fraunhofer network
- Unique scientific and technical **infrastructure**
- **Contacts** to policymakers, associations, and government research institutions

Opportunities

With their broad portfolio of competencies, the institutes of the Fraunhofer Agriculture and Food Industry Alliance provide answers to questions on:

- **Supply security** and **sustainability** in food production
- **Food safety** and **quality**, also for new foods, e.g., vegan, clean meat, insects, etc.
- **Rapid diagnostics** incl. cost-effective sensor technology & IT solutions in raw material control, production processes, and food logistics
- **Traceability** and **digitalization**
- Food **packaging**

Solutions

Our experts offer companies in the food industry solutions in areas such as:

- Product protection and analytics in **processes**, for **materials** and **packaging** in food production: **special laboratories** for a wide range of analytical issues
- **Special** chemical, biological, and physical **approaches** as well as **rapid diagnostics** and **analytics**: broad portfolio for use outside the laboratory, e.g., in processes – use of sensor technology and microsystem technology
- Development and **monitoring** of cost-effective **sensors** for **agriculture and food production**
- **Digitalization** in all stages of the **food chain**



Contact Agriculture and Food Industry Alliance

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