



ESTER BIOTECH

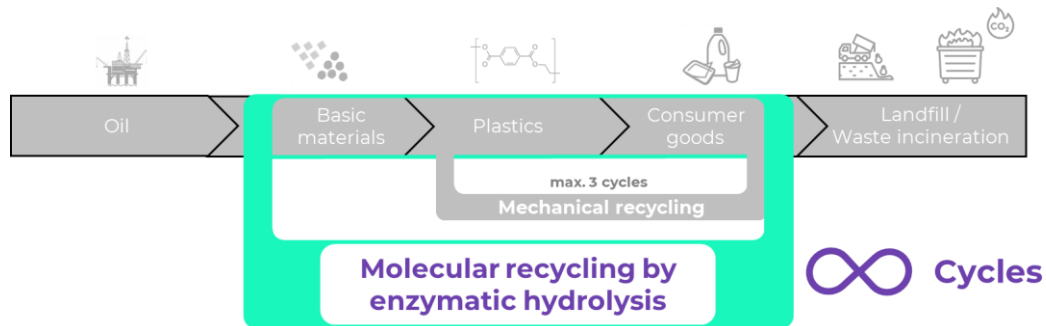
SOLVING FRONTIERS

Who we are?

- Biotech start up located in BioCity Leipzig, Germany
- 5 team members
- Company formation in Q1/2025
- Federal funding > 1 Mio. €

What is our vision?

A bio-based plastics circular economy through molecular recycling.



What are our technologies?

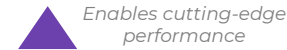
Enzymatic hydrolysis:



Enables cutting-edge performance

- Fast depolymerization of all types of polyesters (e.g. PET, PLA, PBS, PBAT & TPS)
- Low energy input & ambient atmosphere

Enzyme development



Enables cutting-edge performance

- Leading plastics degradation performance combined with high persistency
- AI-driven approach allows highly effective enzyme prediction & optimization

Degradation screening

Patented USP

- Continuous live monitoring of plastic degradation
- High throughput & reliable results in 24 hours
- Original material samples (multi-layer capable)

What services do we provide?

ESTER SCREEN

- Disintegration tests as indication regarding biodegradability / compostability or stability

ESTER DEEP-E & SCORE

- Enzyme design & optimization for specific applications
- Performance analysis within 24 h

ESTER UPCYLCE

- Technology licensing of enzymatic recycling process
- Currently only available for pre-processing

ESTER CONSULT

- Enzyme technology
- Funding proposal for R&D projects



Ronny Frank
Managing Director &
Co-Founder



Martin Hirschfeld
Managing director/
Co-Founder



Christian Sonnendecker
Head of Research/
Co-Founder



Madalin Ceausescu
Head of Engineering/
Co-Founder



Alexander Hergett
Head of Data Science



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Please contact us via info@esterbiotech.com

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