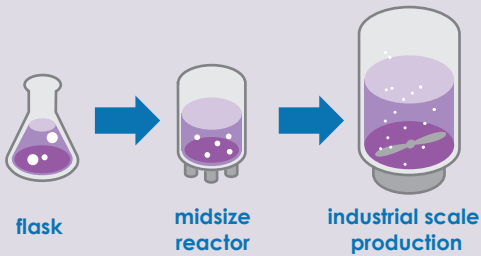


## Value proposition

For companies who are looking for a partner with a proven track record in scaling fermentation and DSP processes to help them achieve high-quality commercial production the very first time around, BPF offers extensive lab & pilot scale capabilities and industrial scale experience. Unlike universities, research companies and other scale-up service providers, the BPF team offers true industrial thinking on a smaller scale.

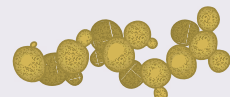
## 2<sup>nd</sup> generation sugar biomass sources



## MICRO ORGANISMS



Bacteria

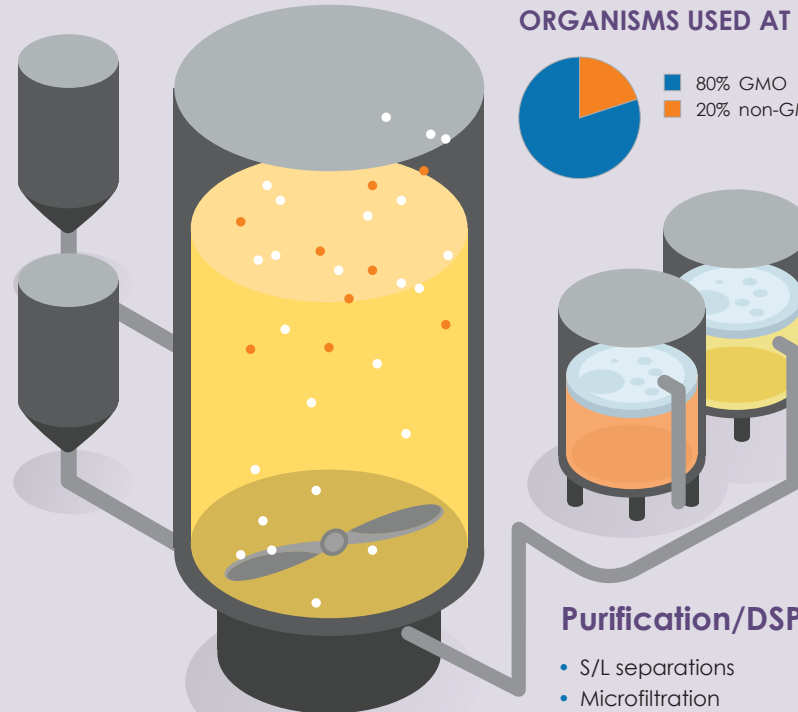
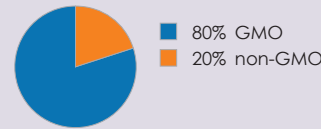


Yeast



Fungi

## ORGANISMS USED AT BPF



## Purification/DSP

- S/L separations
- Microfiltration
- Chromatography
- Evaporation

## Fermentation knowledge beyond just improving output

- Scalable, techno-economical viable solutions
- Seed train optimization
- Raw material choice and quality
- Focus on the application
- Medium preparation conditions
- Medium development
- Strain benchmarking
- Process optimization/Yield improvement
- Equipment utilization

## BPF's infographics

- 1 Impact of Bioprocess Pilot Facility 2012-2019
- 2 Unlock the potential of your biomass
- ✓ 3 Valorization of 1<sup>st</sup> and 2<sup>nd</sup> generation sugars
- 4 Benefits of piloting at BPF
- 5 Demonstration and pilot scale production at BPF
- 6 Benefits of Purification / Downstream Processing at BPF
- 7 Food and feed ingredients

BPF's customers come from all over the world:



380,000 hrs experience

197 Projects executed



15% Public Private Partnership projects  
85% Commercial projects

## Products

C5 & C6 sugars for



## BPF offers

- Multiple, complex automated feed systems
- Hands-on and extensive experience
- Lab, pilot and industrial scale knowledge
- De-risking of your business
- Shortening of your time-to-market