



B I O P R O D U C T I O N A T S C A L E

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2023

THE PROBLEM

BIOMANUFACTURING IS CONSTRAINED BY THE NATURAL FORMATION OF NON-PRODUCING CELL VARIANTS

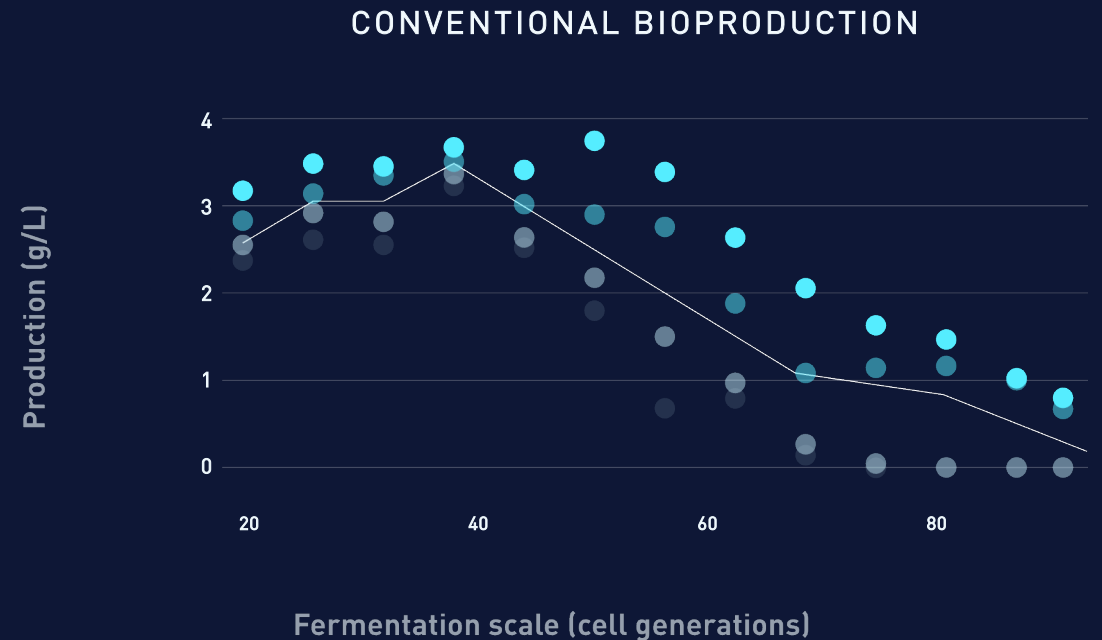
Biological production puts a burden on the producing cells

This burden favours the emergence and takeover of non-producing cells

This leads to declining productivity, with examples of 15% of cells being responsible for >50% of production*

*Ref: Xiao et al 2016, Nature Chem Biology.

During fermentation, populations lose productivity as non-producing cells outcompete the producing cells

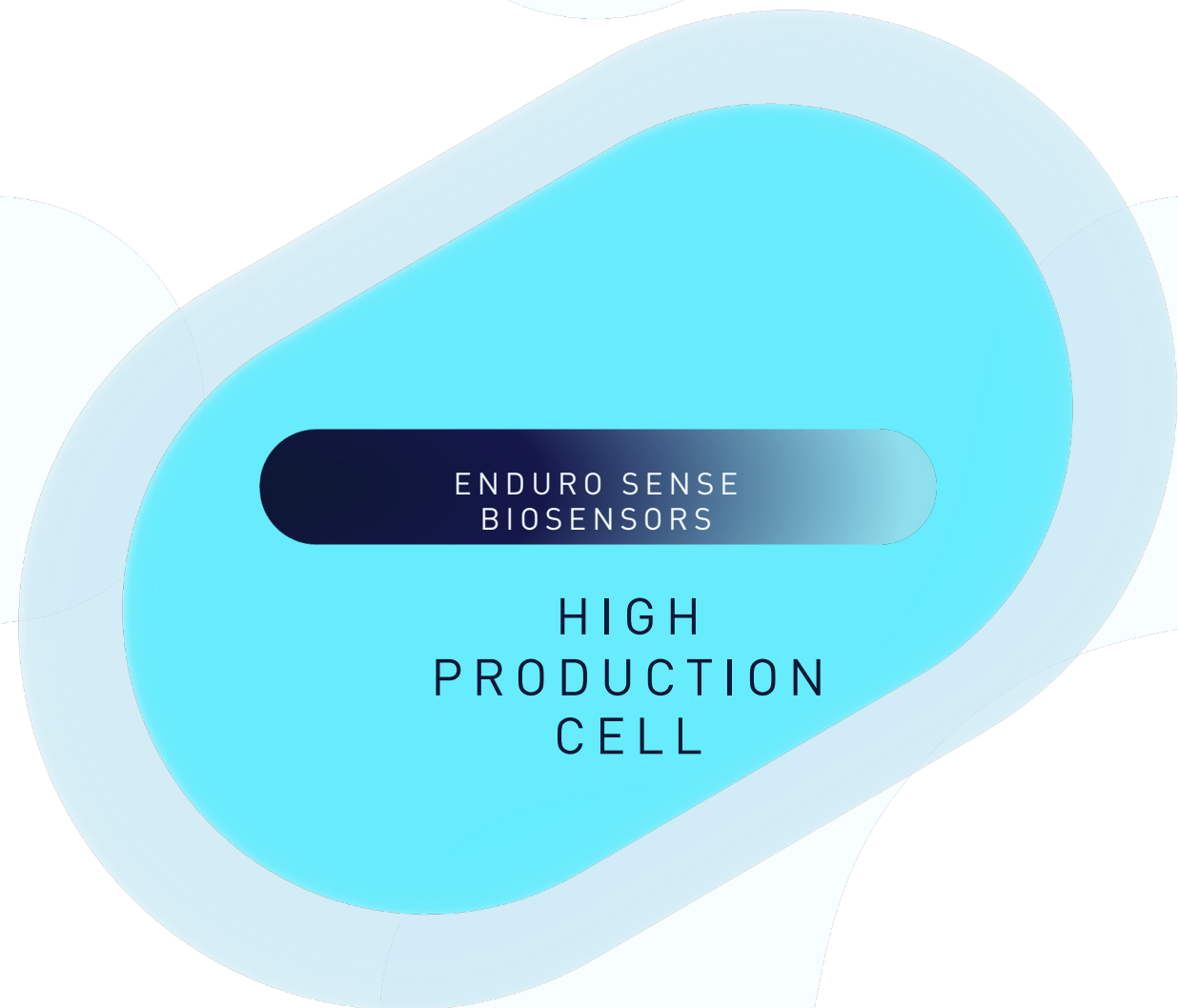




ENDURO SENSE: PLUGIN TO CELLS

Enduro sense is technology platform built to design and implement proprietary genetic biosensors that detect high-production cellular states

The Enduro Sense biosensor is implemented one time into the master cell at the cell bank level



THE SOLUTION

ENDURO SENSE ADDICTS CELLS TO HIGH AND STABLE PRODUCTION

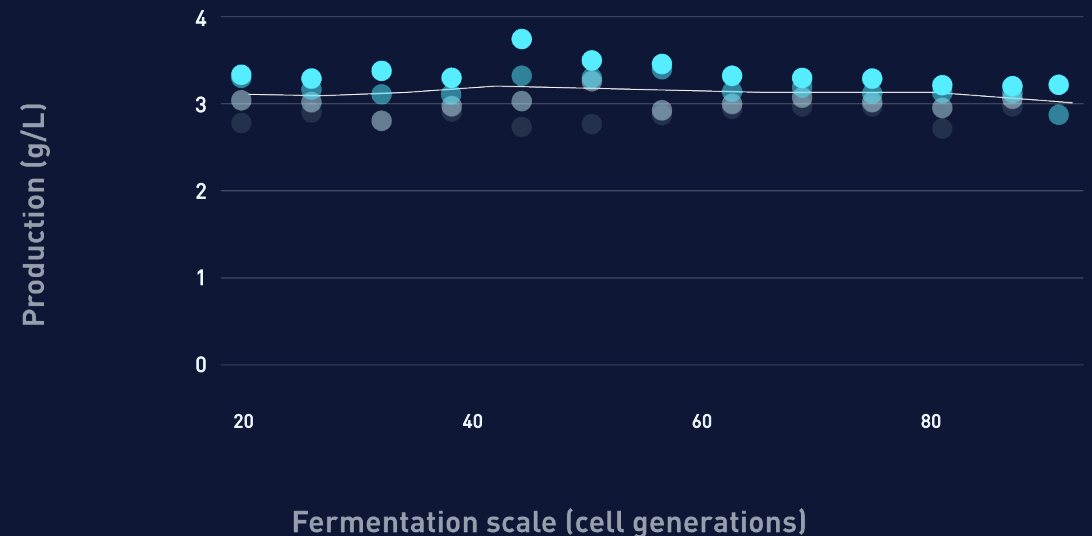
Enduro Sense is a genetic 'Biosensor' plugin that couples cell health to high and stable production

This makes the cells 'addicted' to the production of the desired product

Enduro Sense works by making high production an advantage for the cell and avoids the proliferation of low producing cells in the bioreactor

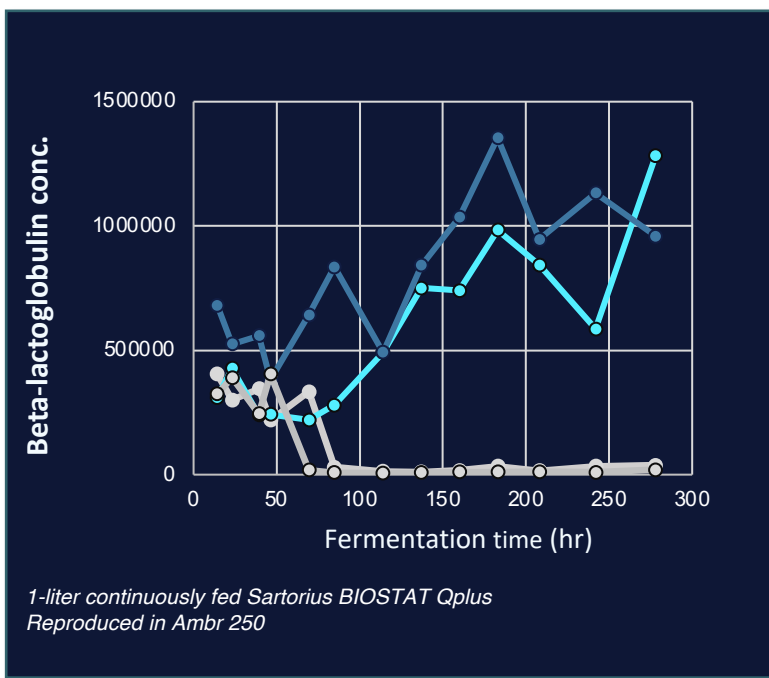
Enduro Sense effectively addicts cells to high production thereby eliminating low- or non-producers

ENDURO

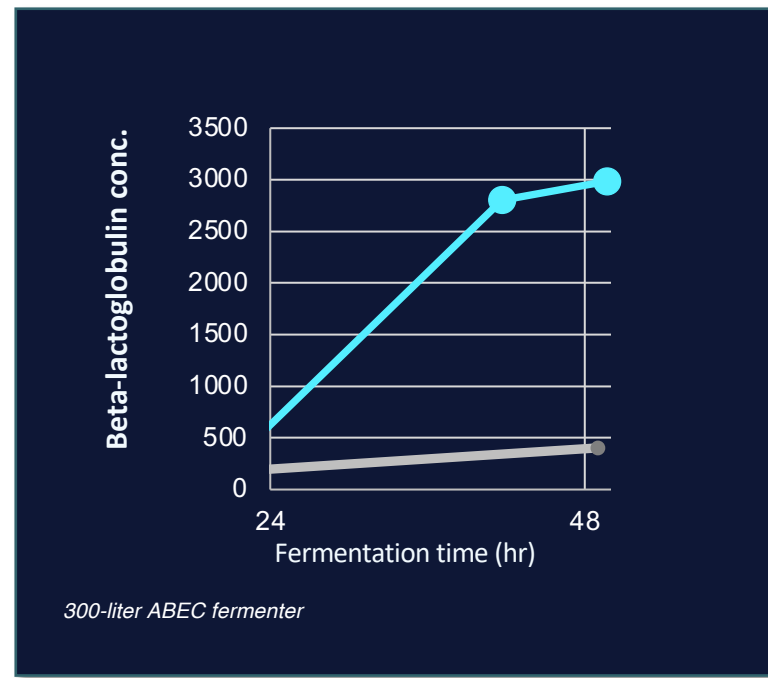


CASE EXAMPLES

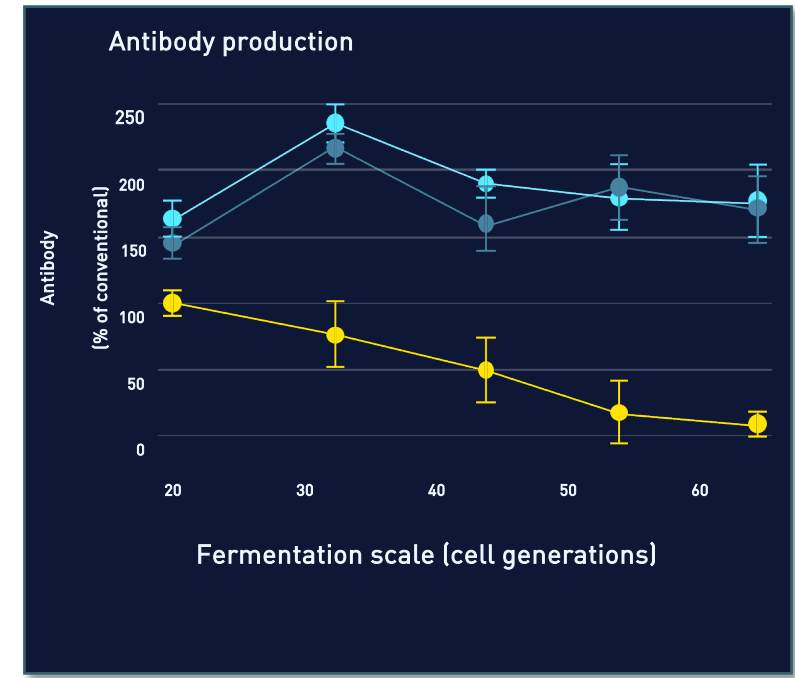
ENABLING CONTINUOUS PRODUCTION MILK PROTEIN IN BACILLUS



RAPID SCALE UP TO PRODUCTION FROM 1L TO 300L



INSTANT TITER LIFT IN FED-BATCH ANTIBODY PRODUCTION IN E. COLI



● Enduro Sense
 ● Conventional

MOVING INTO COMMERCIALIZATION AND SCALE





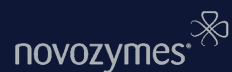
MANAGEMENT



CHRISTIAN MUNCH

CEO
Economics and Business Administration, MSc

Experience across Life Science, BioAg and industrial biotech



PETER RUGBJERG

CSO
Co-Founder
Inventor

Synthetic biology and metabolic engineering, PhD



CHRISTIAN MUNCK

Co-Founder
Inventor

Bioinformatics, PhD

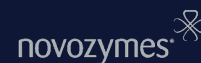


BOARD OF DIRECTORS

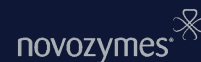
NIELS PEDER, NIELSEN



THOMAS, VIDEBAEK



EJNER, BECH JENSEN



INVESTORS



SPONSORS



Funded by the European Union

