



**INVESTOR PRESENTATION**

*January 2023*

# Speakers



**Julien  
VEYS**

**Chief Business  
Development Officer**

Graduate in Science from the  
University of Aix-Marseille

MBA (Master of Business  
Administration) from HEC  
Paris

20 years of experience in the  
healthcare industry



**Mathieu  
CHARVERIAT**

**Co-founder, CSO  
& Deputy CEO**

Ecole Polytechnique and  
Mines Paris-Tech

Doctor in Neuroscience and  
Cell Biology from the Pierre  
and Marie Curie Institute.

HEC Challenge + program



**Thierry  
LAMBERT**

**Chief Financial Officer**

Business Administration at  
the University of Birmingham

MBA (Master of Business  
Administration) from INSEAD

Chartered Accountant and  
Certified Public Accountant  
ICAEW (Institute of Chartered  
Accountants in England and  
Wales)

# Profile and pipeline

THERANEXUS IS A CLINICAL STAGE COMPANY DEVELOPING FIRST-IN-CLASS OR FIRST TO MARKET INNOVATIONS TO TACKLE RARE NEUROLOGICAL DISORDERS



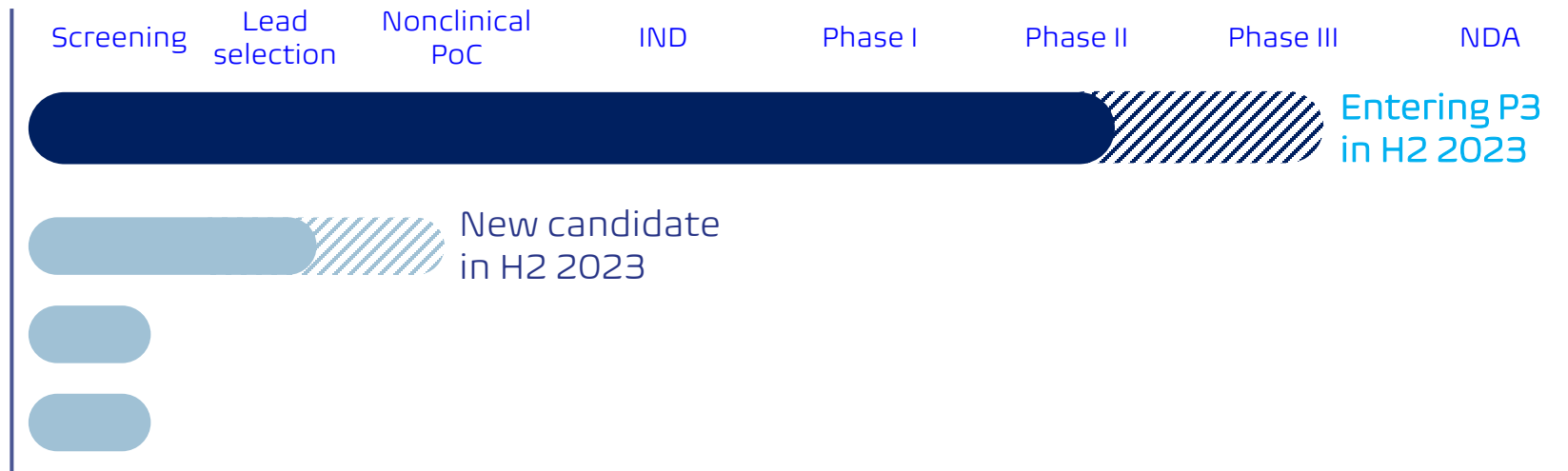
## Batten-1 BEYOND BATTEN DISEASE FOUNDATION

Juvenile Batten disease (CLN3)  
P1-2 fully recruited & ongoing

TFEB platform

Lysosomal dysfunction platform

Neuronal hyperexcitability platform



# Juvenile Batten disease (CLN3) in brief



700-1,000 patients in the US<sup>1</sup>  
800 - 1,000 patients in the EU<sup>2</sup>



Autosomal recessive  
Founding effect localised in the Nordic countries



No treatment registered



Diagnosis in children aged 4 to 8 years



Loss of visual acuity leading to blindness 6-10 years



Cognitive decline and epileptic seizures 12-20 years



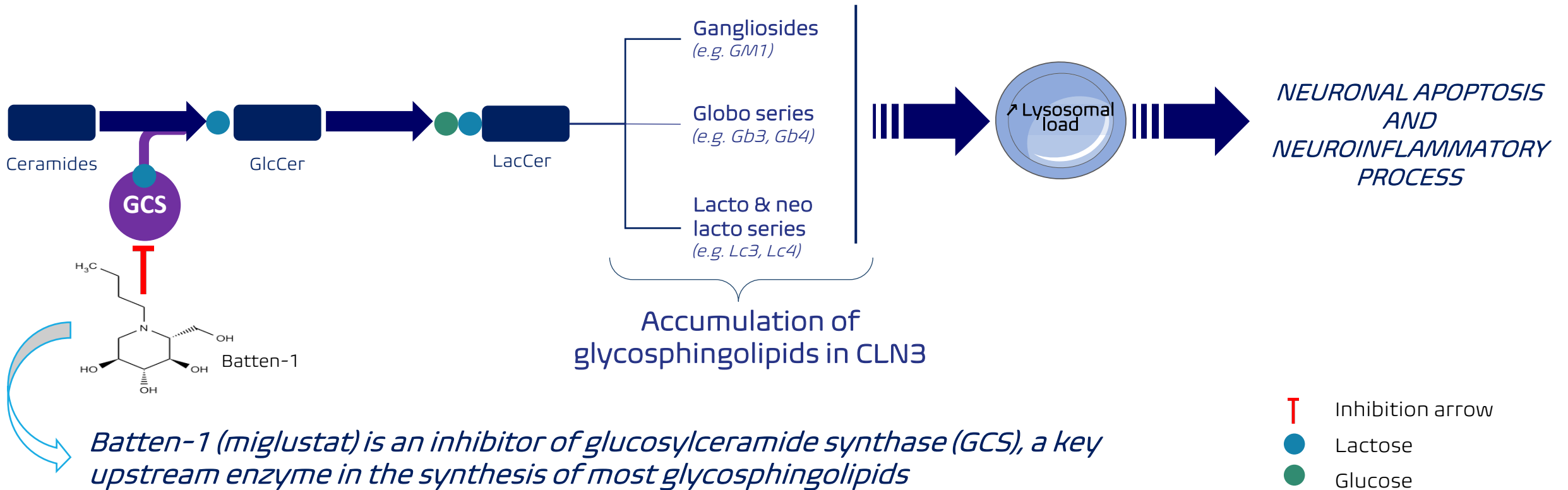
Motor symptoms before the age of 20  
Patients die in their 20s

The absence of CLN3 leads to the accumulation of toxic deposits of glycosphingolipids and results in neuronal death

Our objective : to market the first treatment for Batten disease by 2026:

- Targeting glycosphingolipids synthesis to change the course of the disease
- with a formulation adapted to the patient population

# Batten-1 in CLN3: a strong molecular rationale



Batten-1, through its direct effect on glycosphingolipid synthesis, blocks neuroinflammation and prevents cell death in Batten disease

# Batten-1 in CLN3: non-clinical validation of efficacy

Miglustat restores physiological levels of glycosphingolipids and reduces apoptosis in CLN3 models

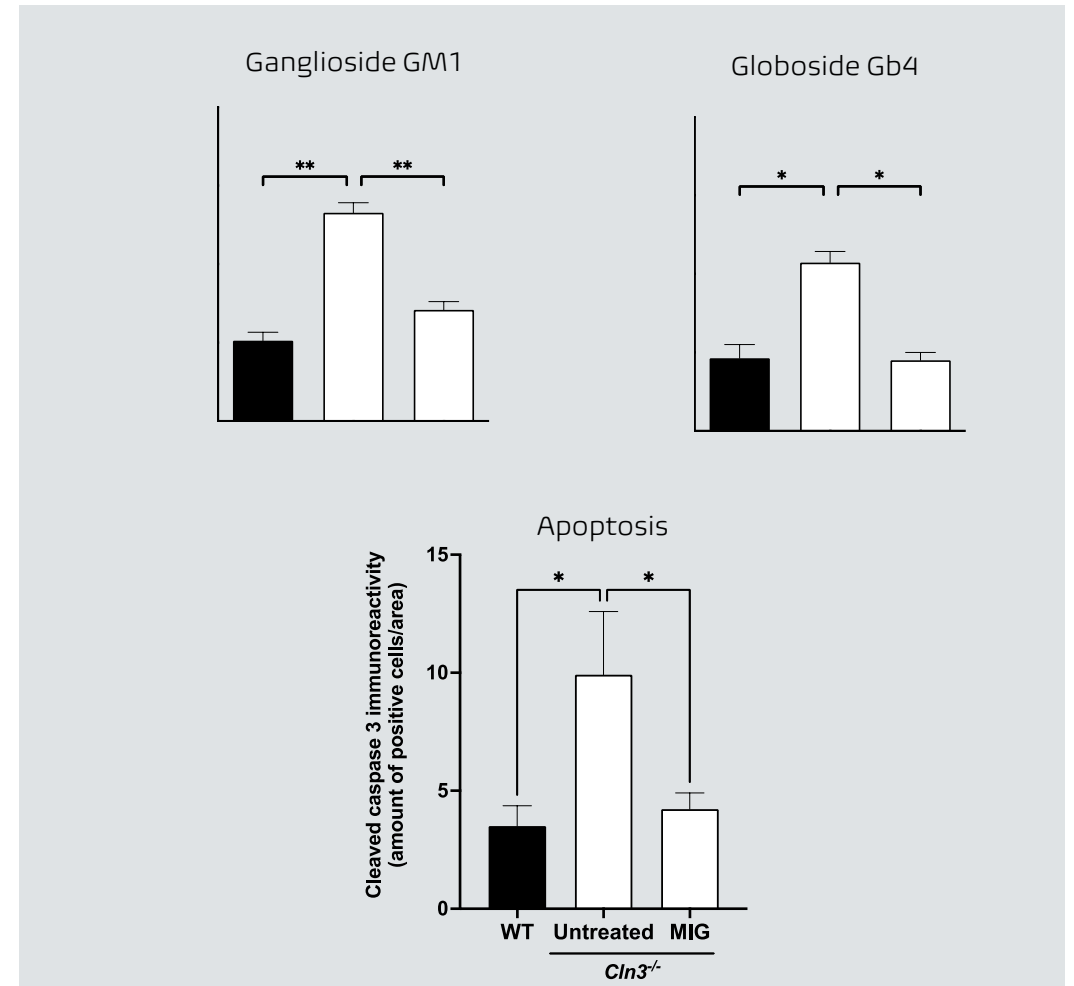
CLN3 patient iPSC derived cortical neurons :

- Reversion of GM1, Gb4, SCMAS by miglustat

Similar conclusions in several other CLN3 cellular models :

- CLN3 patient derived fibroblasts
- Neurons derived from a non-clinical model of CLN3 (mouse)
- HeLa cells with CLN3 down-regulation of expression

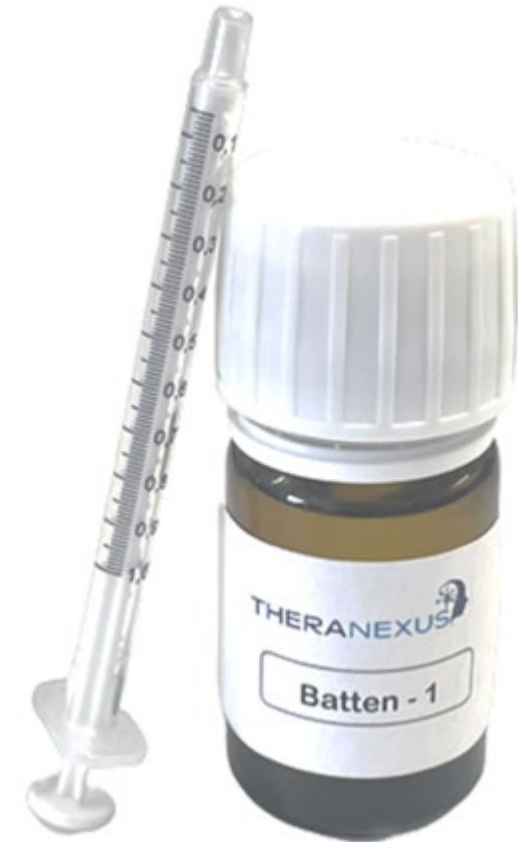
Miglustat reduced apoptosis (cell death) in the brain of CLN3-KO Mice



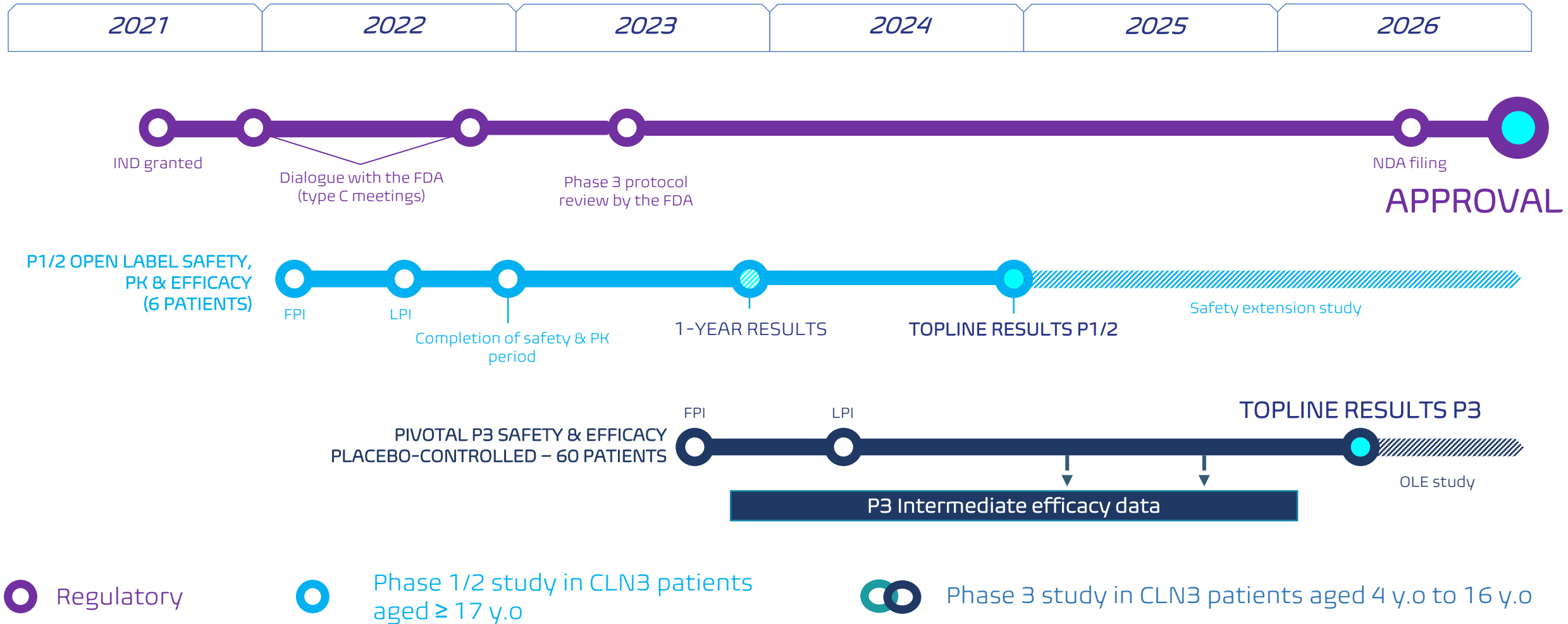
Work by Emyr Lloyd Evans' lab at the U. of Cardiff (UK) and by Marco Sardiello at Baylor College of Medicine <sup>6</sup>

# Batten-1: development of a proprietary drinkable formulation adapted to the CLN3 patient population

- **A drinkable solution that makes it easier to take and modulate the treatment**
  - Drinkable solution :
    - Suitable for pediatric patients as well as for patients presenting difficulties in swallowing
    - High concentration, allowing treatment of all patients regardless of age or weight
  - Graduated pipette => fine modulation of the dose, allowing the best possible tolerance during the progressive increase in dose at the beginning of the treatment
- **Method of use and formulation patents filed in major markets (2021 & 2022)**



# Development plan with the ambition of a market approval by 2026



## AIM FOR A MARKET APPROVAL BY 2026



# Batten-1: global peak sales exceeding \$500 million per year

Territories	no. of currently diagnosed patients	Sales based on diagn. patients (USD m) <sup>1</sup>	Est. prevalence <sup>4</sup>	Sales based on est. patients (USD m) <sup>1</sup>
United States	~750 <sup>2</sup>	~480	~1'200	~765
UE5 (Germany, France, Italy, Spain, UK)	~340 <sup>3</sup>	~50	~500	~75
Nordic countries	~120 <sup>3</sup>	~15	~180	~20

## MARKET OPPORTUNITY

\$545 Mn

\$860 Mn

1: Estimated pricing based on payers and KOLs interviews conducted in Q1 2022 (source: Justin Stindt Consulting report for Theranexus)

2: Estimated diagnosed population based on insurance reimbursement claims for neuronal ceroid lipofuscinosis (NCL) (ICD-10 code: E75.4) with an age at diagnosis between 8 and 15 y.o.; (source: DRG - Clarivate analytical report for Theranexus).

3: Estimated diagnosed population based on data derived from hospital discharges reports for neuronal ceroid lipofuscinosis (NCL) (ICD-10 code: E75.4) with an age at diagnosis between 8 and 15 y.o in the UK and Germany (RW Health report for Theranexus)

4: Estimates based on analysis of the literature (DRG - Clarivate analytical report for Theranexus ; RW Health report for Theranexus)

# Attractive competitive environment and strong market opportunities

- No competing treatments
- Two other assets in clinical development:
  - Polaryx - clinical study inactive for 2 years <sup>1</sup>
  - Amicus<sup>2</sup>, - will require further pre-clinical development

Batten-1  
on the front line  
developments

- Orphan designation obtained from the FDA (7 y. exclusivity) and the EMA (10 y. exclusivity)
- Patent protection covering at least until 2037
- New proprietary drinkable formulation adapted to patients' needs

High level of  
protection

**THERANEXUS** 

Facilitated access  
to a 500+M\$ market

- Partnership already in place with BBDF (largest CLN3 patient advocacy group worldwide)
- Streamlined process to approval
- Limited number of prescribers
- Possibility of early access to speed up treatment adoption

# Project achievements and ambition

- ✓ ODD status for Batten-1
- ✓ IND status for Batten-1
- ✓ P1/2 launched and fully recruited
- ✓ Good tolerance of Batten-1 highlighted by P1/2 safety results
- ✓ Clinical sites selected for P3

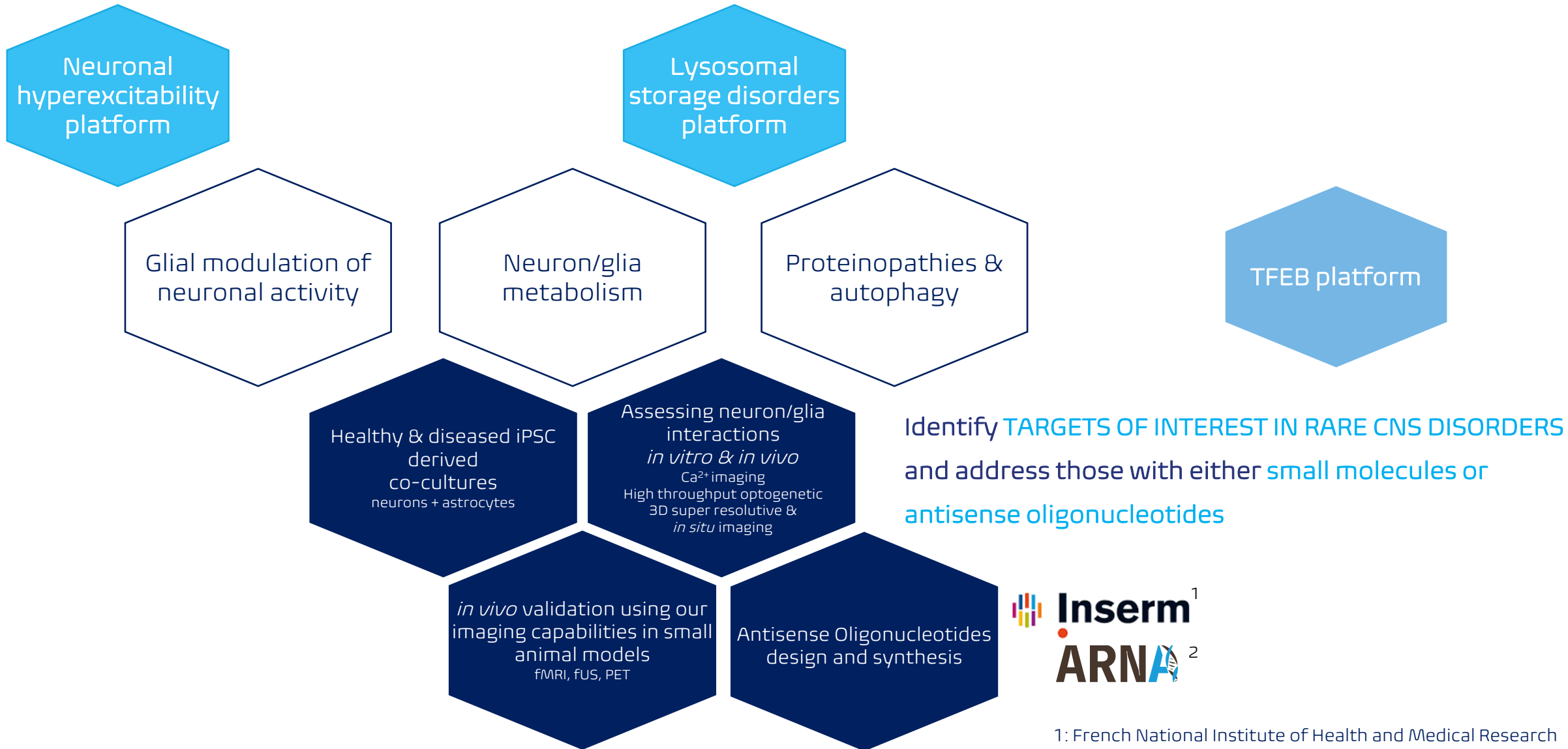
H2. 2023 Start of the Phase 3 clinical trial with Batten-1 in children with CLN3 disease

H2. 2026 Market approval

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# Appendices

# Theranexus' discovery platforms



# Listing and Shareholding

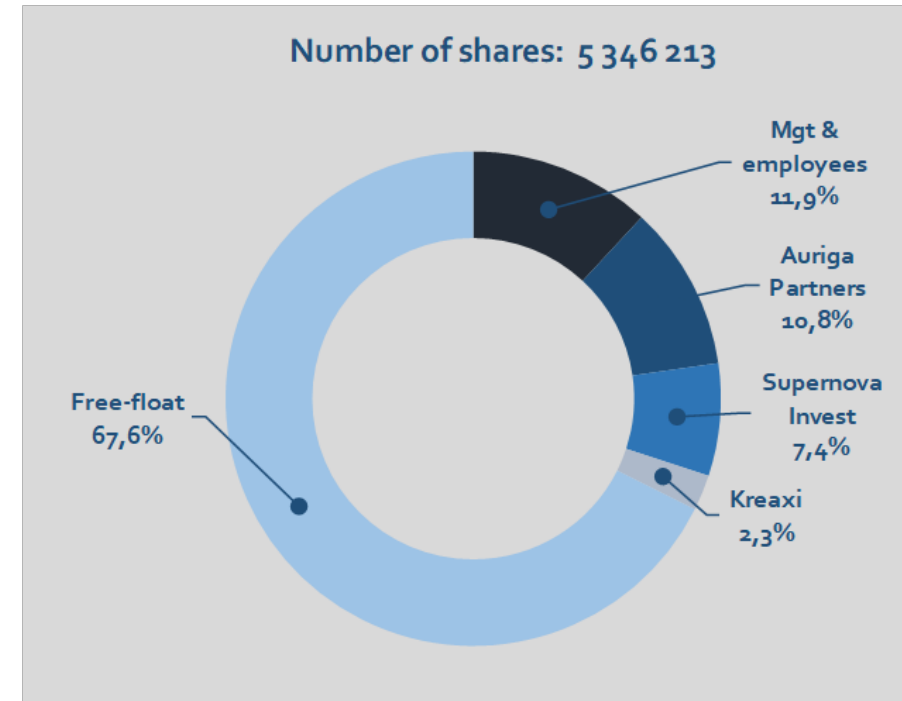
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## Financial data

- ISIN : FR0013286259 - Mnemo: ALTHX
- Market: Euronext Growth
- Share price on 30 December 2022: €1.75
- Market capitalisation: €9.3m
- Coverage: ODDO BHF, Portzamparc
- Liquidity contract: Portzamparc

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## Capital structure



# Simplified income statement

## Controlled expenditure

In K€ (French standards)	S1 2022	S1 2021
<b>Operating income</b>	<b>462</b>	<b>12</b>
Other purchases and external charges	1 950	2 944
Wages and social charges	1 509	1 388
Depreciation and amortization on fixed assets	166	195
Other expenses	24	34
<b>Operating result</b>	<b>(3 187)</b>	<b>(4 550)</b>
Financial result	(121)	(112)
Tax on profits	18	939
<b>Net result</b>	<b>(3 290)</b>	<b>(3 723)</b>

Cash and cash equivalents at 30/09/22: €11,000k

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# THANK YOU FOR YOUR ATTENTION!

Your contacts:

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