

INVESTOR PRESENTATION



LABORATOIRE EN 1^{ÈRE} LIGNE CONTRE LES MALADIES NEUROLOGIQUES



YOUR CONTACTS



Franck MOUTHON

Co-founder and Chairman and CEO

- Franck Mouthon holds a degree in life sciences from the École Normale Supérieure
- Joined the Life Sciences Department of the French Alternative Energies and Atomic Energy Commission (CEA) in 1995
- Founded CEA spin-off Theranexus in March 2013 with Mathieu Charvériat
- Board member of France Biotech



Thierry LAMBERT

- Thierry Lambert holds a degree in business administration from Birmingham University and an MBA from INSEAD
- 4 years of experience in syndicated and corporate finance
- 5 years as Chief Financial Officer for listed companies Naturex and then Safe Orthopaedics
- Joined Theranexus in 2017





A DISRUPTIVE BIOTECH IN CENTRAL NERVOUS SYSTEM RESEARCH

MAJOR ASSETS

A high-potential diversified portfolio

Phase 2 for Parkinson's disease Two other high-need indications: Alzheimer's disease and neuropathic pain Potential for blockbuster technologies Shortly Phase I-III in Batten disease

A POWERFUL TOOL

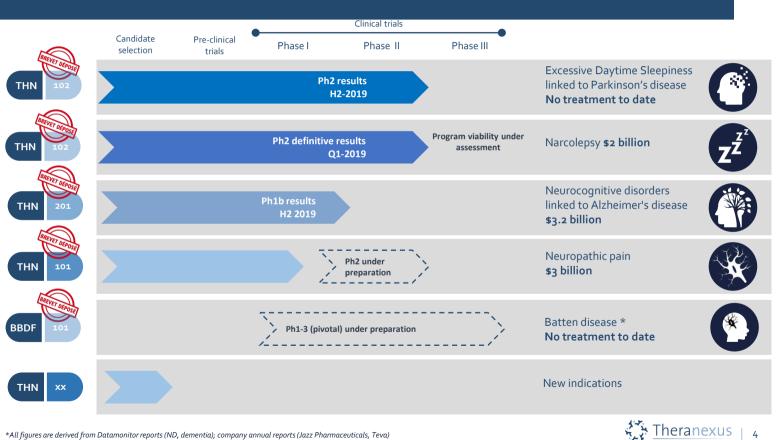
A unique & versatile platform for generating drug candidates

> First platform based on neuron-glia interactions



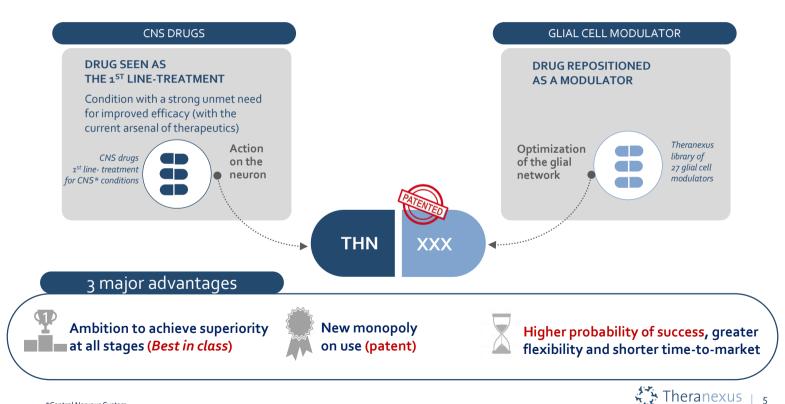


DIVERSIFIED PIPELINE





THERANEXUS PLATFORM: PROPRIETARY, SCALABLE & VERSATILE





NEUROLEAD :STRENGTHENING THE LEAD GENERATION PLATFORM

NeuroLead

- Development of a drug candidate generating platform based on neuron-glia interactions
- Prestigious partners:



- Capacity to build on the latest innovations in neuroscience and Deep Learning
- Funding package of €6.2m from
 BpiFrance, for the consortium
 managed by Theranexus

A NEW PLATFORM FOR DRUG CANDIDATE GENERATION FOCUSED ON MEDICAL AND INDUSTRIAL VALUE

PLATFORM FIRST GENERATION

First family of glial targets identified

Reduction of risks, time and development costs versus standard approach

> One new candidate every 18 months

ADVANTAGES

Comprehensiveness, Automation

Acceleration

Predictability Industrialization

PLATFORM NeuroLead

4 new combinations identified per year

Early optimization of probabilities of success

Discovery of new neuroglia therapeutic

targets Opportunity to multiply business models

FROM PIONEER TO REFERENCE PLAYER IN NEUROLOGY

Theranexus 👔

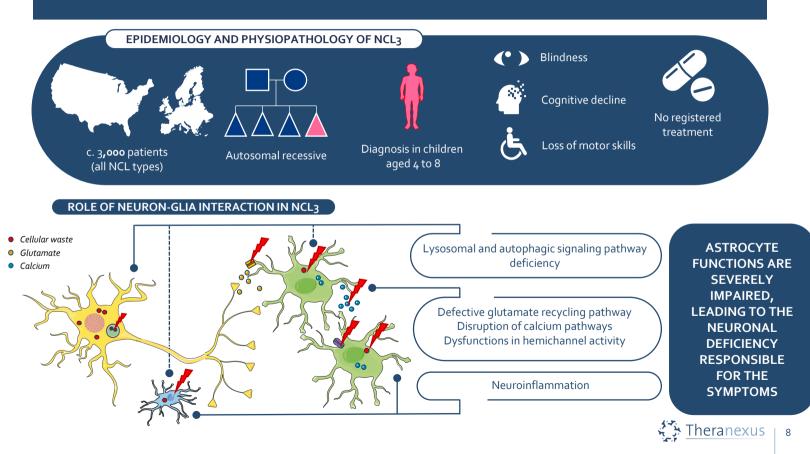


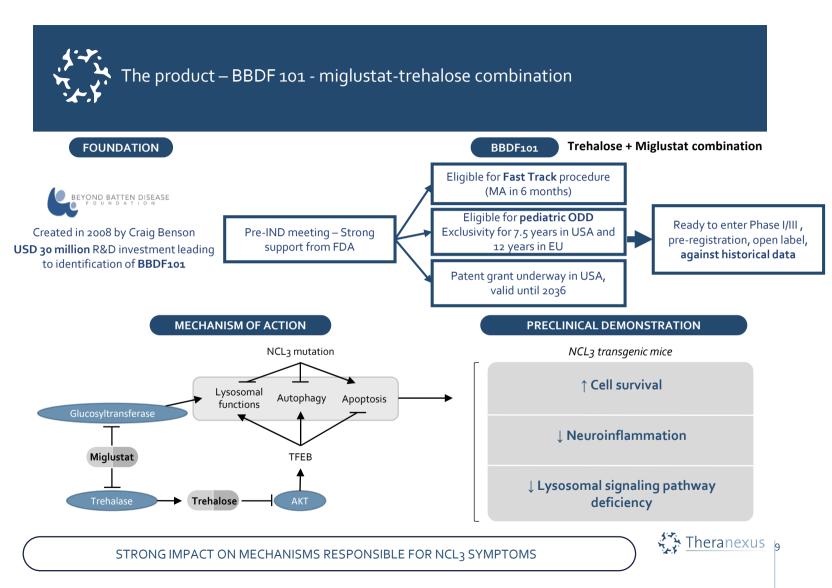


- 2 ASSETS UNDER CLINICAL DEVELOPMENT
- **3** FINANCIALS AND NEWSFLOW



Batten disease or juvenile neuronal ceroid lipofuscinosis (NCL3) – A rare genetic disease that is fatal between the ages of 20 and 30







Competitive environment and market opportunity

COMPARABLES

(miglustat) capsules	Myozyme* (alglucosidase alfa)	elaprase (idursulfase)	Brineura ® (cerliponase alfa)			
6,000 cases USA 5,000 cases EU	5,000 cases USA 1,800 cases EU	500 cases USA 400 cases EU	500 cases USA 250 cases EU			
Gaucher disease	Pompe disease	Hunter syndrome	NCL2			
\$240,000/yr/patient €55,000/yr/patient	\$300,000/yr/patient	\$375,000/yr/patient	\$700,000/yr/patient			
Peak (2014): \$113m	Peak (2018): \$947m	Peak (2018): \$634m	Peak (2027): \$359m (f)			
Notes: All drugs have 'Orphan Drug Designation' status and Brineura obtained a pediatric voucher (sold for \$120m)						

MARKET ACCESS

Access to patients highly structured – Direct sales force of limited size USA: Two main associations (BBDF and BDSRA)

and 18 hospitals taking care of Batten patients EU: 7 primary centers (France, UK, Germany, Norway)

COMPETITION IN CLINICAL DEVELOPMENT

NCL ₃ AAV ₉ gene therapy Amicus Therapeutics						
Phase I/II:	Recruitment underway					
Duration:	36 months' control Completion due in December 2022					
Design:	n=7					



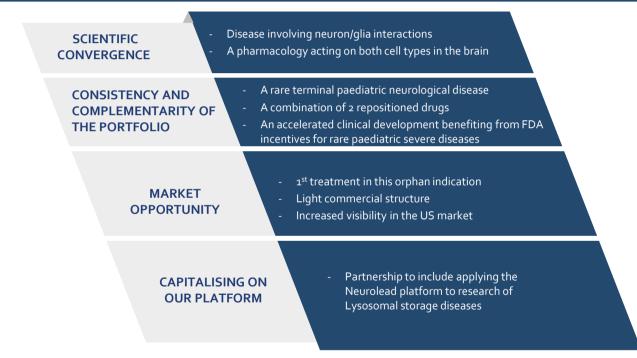


BBDF 101 development plan

Signing of firm agreen between BBDF and Theranexus (exclusivi negotiations in place months from signing Term Sheet)	(authorization to ity of clinical trial phase for 6 from the FDA (L	o enter FDA H se) that t JS eligib regist	tration of product – the has already confirmed he product would be le for fast-track ration (rare pediatric se)	Theranexus plans to mark product directly. The limit number of specialist doct therefore of potential prescribers limits the req marketing expenditure.	ted cors and
		Phase I-III pivotal	study	Produc registrati	Salac
2019	2020	2021	2022	2023	2024
 On 25 patient Open label The evaluation against the nationagainst the nationagainst the the similar to the similar to	ading directly to product n is in the USA n is based on comparing t	he disease progression in pat e as described by several exis marin for Brineura™			nexus 11



Strategic interest of BBDF101 for Theranexus



- Term Sheet signed with 6-months exclusivity
- Theranexus will market the product
- The foundation will have an interest in the additional value created in the form of milestones and royalties on future sales



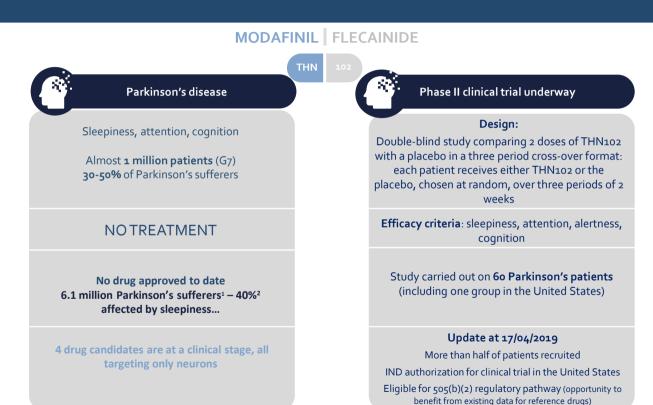




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THN102: A DRUG CANDIDATE TO COMBAT SLEEPINESS RELATED TO PARKINSON'S



1: European Parkinson's Disease Association 2 Market research study performed by LSA Partnering & Analytics

Results expected in H2 2019





THN201: A HIGH-POTENTIAL CANDIDATE FOR DEMENTIA

DONEPEZIL MEFLOQUINE



Neurocognitive disorders linked to **Alzheimer's disease**

Impaired memory, reasoning and orientation

15 million patients in 2015 (G7) **19 million** by 2030 **45%** of patients undiagnosed

DONEPEZIL

\$3.2 billion (annual cost of treatment per patient €4,000-

5,000)

23 drug candidates at clinical trial stage



Launch of Phase Ib clinical trial

Under the CX-COG project funded by the

French "Fonds Unique Interministériel" (FUI AAP22)

Double-blind randomized study comparing placebo and standard of care drug (Donepezil)

Trial conducted on three parallel groups evaluating the cognitive activity, tolerability and pharmacokinetic profile of THN201

> Key efficacy criteria: measurement of pro-cognitive activity through a scopolamine test

Trial conducted on **150 healthy volunteers** in a parallel group design **in 8 centers in France**. Repeated dose treatments to be orally administered once a day over **15** days. **Update at 17/04/2019:** more than 40% of volunteers recruited

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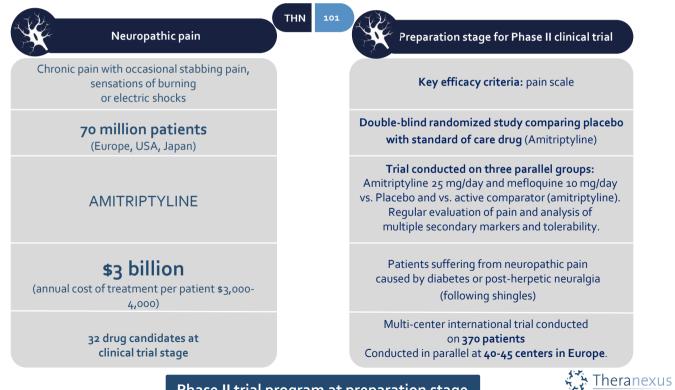
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Results expected in H2 2019



THN101: DRUG CANDIDATE READY FOR PHASE II TRIALS: PAIN

AMITRIPTYLINE MEFLOQUINE



Phase II trial program at preparation stage



+ POSSIBILITY TO REACH NEW MARKET FOR EDS SPECIALISTS

BLOCKBUSTER POTENTIAL FOR AN INDICATION WITH A GROWING BUT UNTREATED NEED





STRONG INTEREST AMONG INDUSTRY PLAYERS FOR THE FIRST $_{\rm 3}$ CONDITIONS TARGETED

CONDITIC	N DATE	SELLER	BUYER	PROFILE	DEVELOPPEMENT STAGE	UP FRONT (M\$)	MILESTONES (M\$)	ROYALTIES (M\$)
Parkinson		Prexton	Lundbeck	NCE	Phase II	123	993	-
disease		Cynapsus	Sunovion	LCM		624		
Neuropath	nic 2015	Convergence	Biogen	NCE	Phase II	200	475	NC
pain	2015	Spinifex	Novartis	NCE	Phase II	200	500	NC
Alzheimer	's 2017	Lyndra	Allergan	LCM	Préclinique	15	90	NC
disease	2016	Chase Pharma	Allergan	Combination	Phase I/II	125	875	NC
Other neurologic disorder:		Avanir	Otsuka	Combination	Market	3,500		-

TURNING POINT IN VALUE AT THE END OF PHASE II (BETTER RATIO OF DEVELOPMENT COSTS TO IMMEDIATE AND SUBSEQUENT REVENUES)









2018 P&L

IN K€ (French GAAP)	2017	2018	
Operating income	164	175	
Other purchases and external charges	1 477	4 969	
Salaries and benefits	1 370	2 117	
Depreciation and amortization	26	55	
Other operating expenses	11	24	
Operating result	(2 719)	(6 990)	
Net financial income	(126)	(31)	
Corporate tax	730	1 721	
Net income	(2 115)	(5 301)	

GOOD CONTROL OVER EXPENSES IN A CONTEXT OF ACCELERATED CLINICAL DEVELOPMENTS

MAINLY RESEARCH TAX CREDIT

CASH AS AT MARCH 31ST 2019: 12,4M€ +R&D TAX CREDIT RECEIVABLE: 1,7M€





INVESTORS RELATIONS AND SHAREHOLDERS

DATA AS AT 26 JUNE 2019

ISIN : FR0013286259 - Mnemo: ALTHX

Listed on Euronext Growth

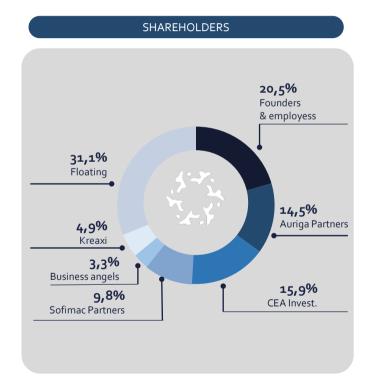
Stock price : 5,3€ (on Jun. 18th 2019)

Market Cap : 16 M€

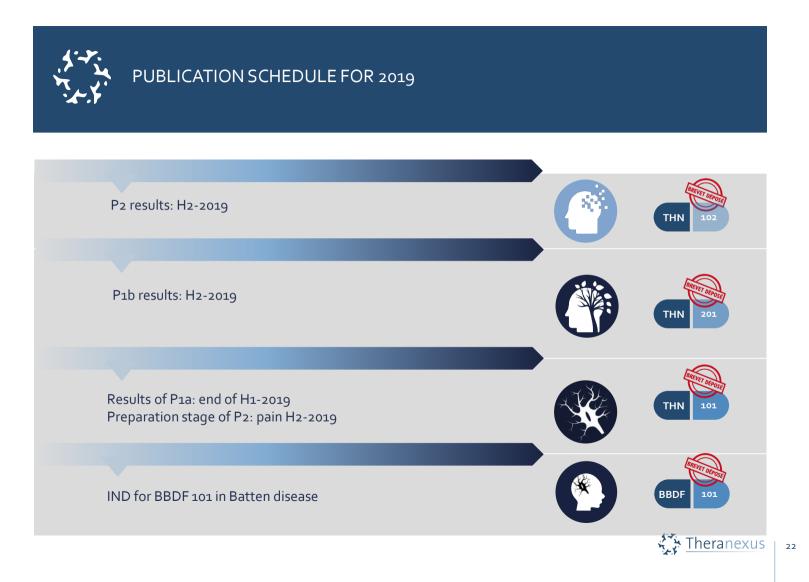
Liquidity contract : Portzamparc

Cash as at March 31st 2019 : 12,4 M€















Clinical development – Example: Brineura (BioMarin) for CLN2

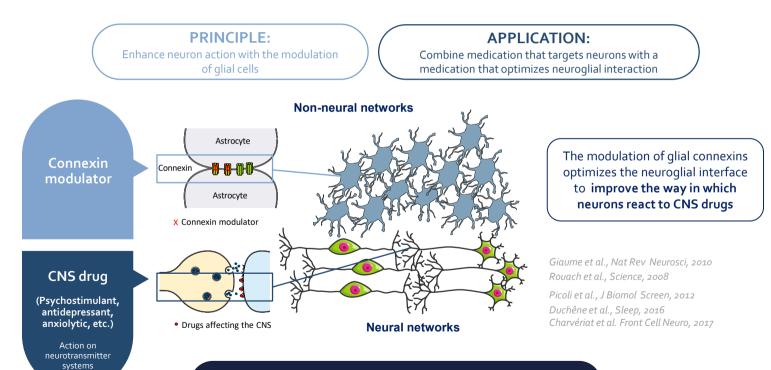


BioMarin – pioneer in enzymatic therapy for rare genetic diseases Market Capital: US\$ 15 B (Nasdaq)

Theranex



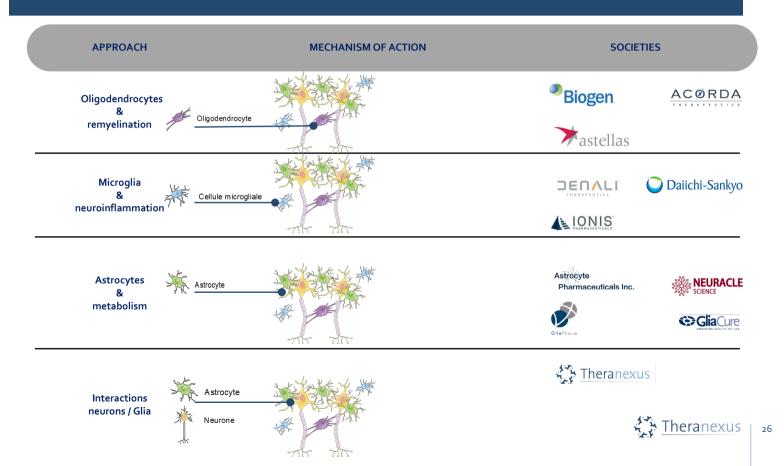
TRANSFORMING RESEARCH INTO INNOVATION



THE CHALLENGE: MAXIMISE NEURON RESPONSE TO EXISTING DRUGS BY TARGETING THE ENVIRONMENT



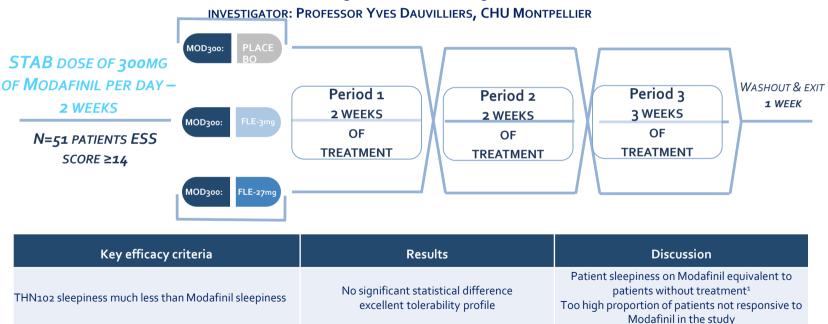






SAFETY AND EFFICACY OF THN102 IN SLEEPINESS IN NARCOLEPTIC PATIENTS

DOUBLE-BLIND MULTICENTER STUDY COMPARING 3 TREATMENTS OVER 5 SITES IN FRANCE AND ONE IN BELGIUM



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27

(1): Thorpy et al. 2019 / (2): Bogan et al. 2015 / (3): Dauvilliers et al. 2013 / (4): Fry et al. 1998