

### Lumosa Therapeutics Co., Ltd. (TPEX:6535)

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# **Overview of Lumosa**

R fr ai	011 eceived an investment om Center Laboratories nd reposition its focus n the development of	2016 Publicly listed on the Taipei Exchange, cod 6535.TWO		
Second merger (2018)	Acquired biologics	and oncology assets		
First merger (2014)	Expanded pipeline (acqu	Expanded pipeline (acquired late-stage asset)		
Listing date (TWO.6535	5)	Sep, 2016		
Chairman and CEO		Mr. Rong-chin Lin		
Major shareholders	Center Labo	Center Laboratories Group (34%)		
Paid-in capital		US\$ 52 million		
Founding Date		Nov, 2000		

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2000 SunTen Phytotech Founded with focus on the development of botanical new drugs

2014 Merger between Cheng Pang Biopharma and BroadChan Biopharm, name change to Lumosa Therapeutics. Focus development on pain, stroke and oncology pipeline

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Innovation-driven Drug Development Company with Commercial Focus



# LT1001 (Naldebain<sup>®</sup>)

#### Week-long Extended-release Analgesic Injection

Approved in: Taiwan, Singapore, Thailand, Malaysia, Ukraine and Brunei





### LT1001 (Naldebain<sup>®</sup>): World's First Week-long Extended-release Analgesic Injection

#### Patented compound + patented release formulation

- Indications: Relief of moderate to severe postoperative pain
  - Patented compound
    - ✓ Active ingredient: Dinalbuphine sebacate
    - ✓ Prodrug of nalbuphine
    - ✓ Analgesic effect comparable to that of morphine
    - Excellent safety profile, low addiction potential, no respiratory depression
  - Patented release formulation



- Special formulation with intramuscular injection
- Extended-release analgesic with effective concentration for up to 7 days





Unmet medical need	<b>Effective</b> Analgesic effect comparable to that of morphine	<b>Safe</b> No opioid-related side effects (respiratory depression, addiction risk)	<b>Convenient</b> Single dose administration, reduced hospital stay, better pharmacoeconomics			
	The opioid crisis has led to a strong demand for non-addictive and safer postoperative analgesics					



### LT1001 (Naldebain<sup>®</sup>): World's First Week-long Extended-release Analgesic Injection



# LT3001

Novel Dual-function Molecule for the Treatment of Acute Ischemic Stroke

- The safety, pharmacokinetics, and drug-drug interactions confirmed by three Phase 1 trials
  - Safety confirmed and efficacy trend observed in the Phase 2a trial
- Three Phase 2b trials ongoing, targeting enrollment completion and initiate out-licensing activities in 2024



### LT3001: The World's First Novel Dual-function Molecule



Targeted indication	Acute ischemic stroke (AIS)		
Administration route	Short infusion		
Patent protecvtion	2034 (Composition patent), 2040 (Formulation), 2042 (Method of use)		
Development status	1) Phase 2a (single-dose) – completed		
	2) Phase 2b – Three Phase 2b trials ongoing		
Primary targeted population	1) AIS patients < 24 hours after stroke symptoms		
	2) Concomitant use with endovascular thrombectomy in AIS patients		
Forecast (worldwide)	US\$ 6.4 ~ 9.6 billion		



#### The Unmet Needs of Acute Ischemic Stroke and Product Positioning of LT3001





#### The Unmet Needs of Acute Ischemic Stroke and Product Positioning of LT3001



World's first novel therapy for AIS with an innovative MOA

- **√** Extends the treatment time window
- ✓ Thrombolysis and neuroprotection functions
- **v** No hemorrhagic risk

#### **LT3001** Objective

Improve the outcomes of > 80% of the 16 million global AIS patients



# **LT3001 Clinical Status**



### LT3001-205 Phase 2 Trial: European Site Initiation Visit (October 2023)

「順天<sub>醫藥生技</sub> ▼**✓ □ 5** 月





# **Medical Advisors**



#### **Dr Marc Fisher**

President of World Stroke Organization Professor of Neurology at Harvard Medical School



#### **Dr Gregory Albers**

Director, Stanford Stroke Center, Stanford Medical Center, US



Director of Acute Stroke Program for the University of Cincinnati, US



Dr Han Hua Hu

Founding Chairman of Taiwan Stroke Society Neurology and Cerebrovascular Center, Taipei VGH Treatment and Research Center for Cerebrovascular Diseases, TMU



#### **Dr Tom Devlin**

Director of CHI Memorial Stroke and Neuroscience Center, US



Dr Yongjun Wang

Deputy Superintendent, Beijing Tiantan Hospital Director of Neurology Center Executive Vice President, China Stroke Association

# LT6001

### Innovative Induced Exosomes

### **Drug Delivery Platform + Novel Therapy**

### Innovative Exosome Development Strategy: New Therapies & Platforms

		Everaging delivery platforms fostering tech transfer or co- development		<image/>	
ltem	Description	2023	2024	2025	2026
Platform	Delivery platform & targeting research				
LT6001	Targeted delivery platform R&D				
LTxxxx	Neuroregenerative therapy				
LTxxxx	Neuroimmunological therapy				

# Lumosa's Future and Outlook



# **Becoming the Global Leader in Neuroscience**



AIS R&D expertise Global network of experts

#### LT6001 reaching clinical stage

Exosome production technology validation AIS animal model validation

#### Innovative approach to ischemic stroke management



#### **Exosome platform**

Continual process and manufacturing optimization to meet industry standards Delivery and targeting platform development





# Thank You