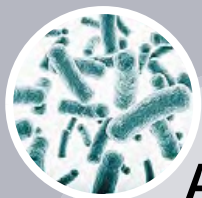


OVERVIEW

- 3 core programs reaching clinical phase in 2020 + menopause supplement commercialisation in Q1 2020
- Targeting US FDA pathways with development sites in North America



ACTICULE

Anti-virulence approach to bacteria



CLAVES

Pioneering druggable platform in microbiome



SMART-ACT™

Accelerating drug development for orphan diseases via drug repurposing

Additional preclinical programs under development, for details please refer to our website

1. Refers to the drug's existing Phase I/II safety data previously conducted by a third party. Does not refer to clinical trials conducted by Aptorum
 2. Subject to FDA's approval on a case-by-case basis, a 505(b)(2) can rely in part on existing information from approved products (such as FDA's previous finding on safety and efficacy) or data in the public domain
 3. Subject to the FDA's approval
 4. Recent deals in the antibiotic industry (2014-2019): Merck's acquisition of Cubist Pharmaceuticals for US\$ 8.4bn; Roivant's licensing of Intron's Phase II asset for US\$ 657.5m in milestones
 5. ALS-4's eligibility for the LPAD pathway is subject to the FDA's approval. Targeting other indications in Phase II may affect our valuation. QIDP status can be applied once we identify an indication
 6. BBC News: "National shortage in hormone replacement therapy adds to the stress of menopause" Aug 2019

Current progress of pipeline programs: → Lead Projects → Other Candidates → Projected timeline

Note: all projected timelines refer to the estimated commencement time of the indicated stages

Pillar 1: SMART-ACT™ (SACT series) - Orphan disease drug repurposing platform

Over 7,000 orphan diseases to be screened in the next 5 years

Program	Indication	Computational Discovery	In vitro validation	Existing PhI/II clinical safety data ¹	IND 505(b)(2) filing ²		PhII / III with limited population ³
					In vivo validation	Bridging studies	
SACT-1	Neuroblastoma	→	→	→	→ Q4 2019	→	ready for clinical trial by Q2/Q3 2020
SACT-2	To be disclosed	→	→	→	→	→	
SACT-3	To be disclosed	→	→	→	→	→	

Pillar 2: Acticule (ALS series) – Infectious diseases⁴

Small molecule, anti-virulence and non-bactericidal approach

Program	Indication	Discovery	Lead Optimization	IND enabling	IND		PhII/III based on LPAD pathway ⁵
					Phase I	NDA	
ALS-4	Anti <i>S. aureus</i> (incl. MRSA)	→	→ + oral formulation	→ Q3 2019	→ Q1/2 2020	→	
ALS-1	Anti Influenza A	→	→	→ Q4 2020	→	→	Hybrid study -volunteers + patients -initial efficacy readout
ALS-2	Gram+ bacteria	→	→	→	→	→	
ALS-3	Gram+ bacteria	→	→	→	→	→	

Pillar 3: Claves (CLS series) - Microbiota

Large molecule approach. Over 70 targets / indications

Program	Indication	Discovery	Lead Optimization	IND enabling	IND		Phase II / III
					Phase I	NDA	
CLS-1	Obesity	→	→	→ Q4 2019	→ Q2 2020	→ Q4 2020	
CLS-2	To be disclosed	→	→	→	→	→	
CLS-3	To be disclosed	→	→	→	→	→	

Program	Modality	Indication	Formulation	Commercialisation
DOI (NLS-2) ⁶	Supplement	Menopausal symptoms	→	→ Q1 2020