

Forward Looking Statements

This presentation contains forward-looking statements. Forward-looking statements include all statements that are not historical facts. In some cases, you can identify these forward-looking statements by the use of words such as "outlook," "believes," "expects," "potential," "continues," "may," "will," "should," "could," "seeks," "predicts," "intends," "trends," "plans," "estimates," "anticipates" or the negative version of these words or other comparable words. These forward-looking statements include statements regarding Biophytis' anticipated timing for its various Ruvembri clinical trials and expectations regarding commercialization. Such forward-looking statements are based on assumptions that Biophytis considers to be reasonable. However, there can be no assurance that the statements contained in such forward-looking statements will be verified, which are subject to various risks and uncertainties including, without limitation, delays in patient recruitment or retention, interruptions in sourcing or supply chain, its ability to obtain the necessary regulatory authorizations, COVID-19-related delays, and the impact of the current pandemic on the Company's clinical trials. The forward-looking statements contained in this presentation are also subject to risks not yet known to Biophytis or not currently considered material by Biophytis. Accordingly, there are or will be important factors that could cause actual outcomes or results to differ materially from those indicated in these statements. Please refer to the "Risk Factors" section of the Company's 2021 Full Year Financial Report available on BIOPHYTIS website (www.biophytis.com) and to the risks discussed in the Company's registration statement on Form F-1 and other reports filed with the Securities and Exchange Commission (the "SEC"). We undertake no obligation to publicly update or review any forward-looking statement, whether as a result of new information, future developments or otherwise, except as required by law.



Today's Corporate Highlights



HQ location: Paris, France



Founded: 2006



Employees: 25



Euronext growth (ALBPS): July 2015



Nasdaq (BPTS): February 2021



Key partner: Sorbonne University

Biophytis SA

- Is a clinical-stage biotechnology company specialized in the development of therapeutics that are aimed at slowing the **degenerative processes** associated with aging
- Our small molecules are aimed at stimulating biological resilience to stress during aging

Ruvembri - in regulatory and clinical phases

- Our leading drug candidate is administered orally:
 - for the treatment of severe respiratory events related to COVID-19 following positive results in Phase 2/3 clinical study (COVA)
 - for the treatment of reduced mobility in elderly patients with sarcopenia, with promising results in a Phase 2 clinical study (SARA) conducted in the United States and Europe
- A pediatric formulation of Ruvembri is being developed with IND granted in the US and Belgium (MYODA) for the treatment of Duchenne Muscular Dystrophy (DMD)



Executive Team



Stanislas Veillet - Founder & CEO

- PhD in genetics, AgroParisTech
- 25+ years in biotech; Pharmacia-Monsanto, Danone Group



Edouard Bieth - CBO

- Over 18 years' experience in the pharmaceutical industry (Tillotts Pharma, AstraZeneca, Servier, Menarini)
- Master's degree in Biology and Pharmacology of aging, Master's degree in Intelligence Marketing, Training in LeaderShip and Finance



Pierre Dilda – CSO

- PhD in pharmacology (Paris V)
- 25 years experience in pharmaceutical research, in both academic and industrial settings



Chiara Baccelli – Director of Pharma Operations & Quality Assurance

- PharmD from Pisa University, PhD in Pharma and Biomedical Sciences from the CU of Leuven and MBA in Innovation and Strategy from IRIIG in Lyon
- 20+ years' experience in the development and production of pharma products, at UCB, Delpharm and Bioprojet



Nicolas Fellmann - CFO

- Over 25 years' experience in finance (Onxeo, BioAlliance Pharma, Pfizer) after several years as an auditor at E&Y
- Expertise in fund raising, mergers & acquisitions and managing strategic partnerships in Europe, the US and Asia



Waly Dioh – COO

- PhD in phytopathology (Paris XI) and MBA
- 21+ years biotech experience in France and the U.S. and R&D at Monsanto



Rob van Maanen – CMO

- MD from the University of Ultrech-NL, MBA from UvA Amsterdam-NL
- 20 years of experience in both large pharmaceutical companies and small biotechs (Khondrion, Astellas, Roche, Novartis, Eisai and Organon)



Our Clinical Pipeline as of today

Candidate	Indication	Program	Preclinical	Phase 1	Phase 2	Phase 3	Regulatory	Market
Ruvembri 20-hydroxyecdysone	Covid-19	COVA						
	Sarcopenia	SARA						
	Duchenne Muscular Dystrophy	MYODA						
Macuneos (BIO201)	Dry AMD	MACA						
	Stargardt							

XXX : orphan diseases

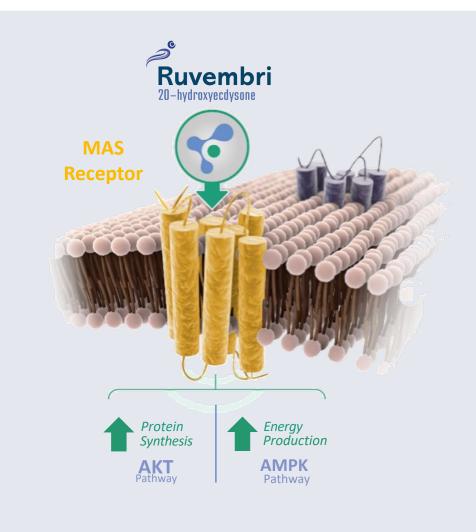


Ruvembri: Mechanism of Action

Ruvembri triggers two important MAS receptor downstream signaling-pathways in myocytes:

- PI3K/AKT/mTOR: Increases protein synthesis
- AMPK/ACC: Stimulates energy production

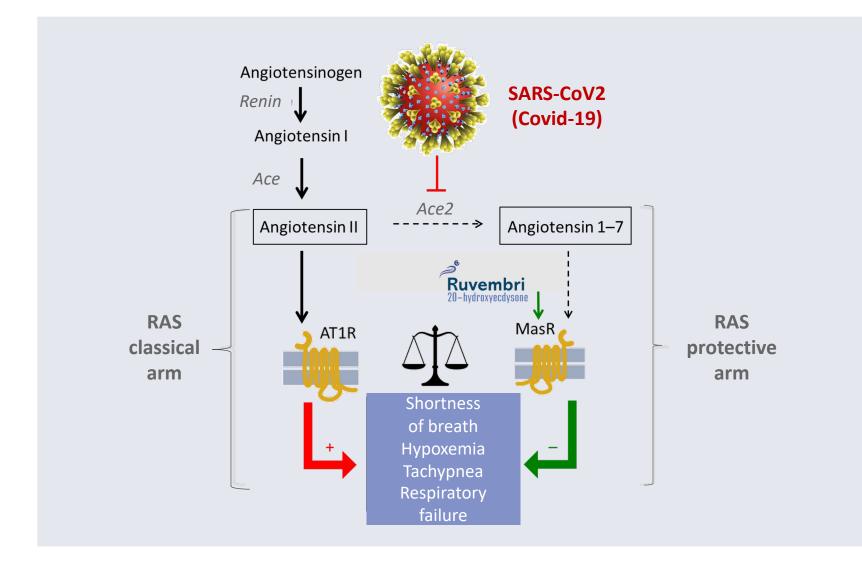
MAS activation in skeletal and smooth muscles stimulates muscle metabolism and strength with a potential impact on mobility and/or respiratory functions





Ruvembri stimulates respiratory function by activating the MAS receptor, a key component in the renin-angiotensin system, the target of SARS-CoV2

- Ruvembri activates the MAS
 receptor, a key component of the
 protective arm of the Renin Angiotensin System (RAS), involved
 in the balance of the
 cardiorespiratory function
- The production of Ang 1-7, the natural ligand of MAS receptor, is impaired by SARS-CoV-2, which uses ACE2 to penetrate the lungs, causing respiratory failures
- Ruvembri by reactivating the RAS protective arm, has the potential to restimulate respiratory capacity in COVID-19 patients









in COVID-19





COVA Study: Targeting COVID-19 Hospitalized Patients with severe COVID-19



Patients **aged 45 and above**, with proven COVID-19, and severe respiratory symptoms:

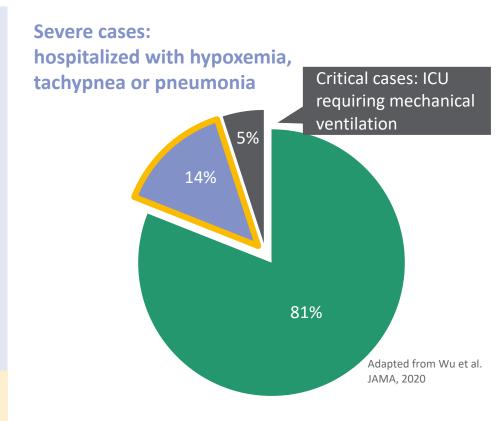
- With evidence of respiratory decompensation
 ≤7 days before start of study medication, meeting one of the following:
 - Tachypnea: ≥ 25 breaths per minute
 - Arterial oxygen saturation 92% or less

Hospitalized patients with respiratory failure estimated to 15-18% of hospitalized patients: ca **500 new patients per day or 180,000 patients/year in the USA** (*CDC data, October 27, 2022*)



Allowed medications:

- Antiviral agents such as remdesivir, paxlovid
- Anti-inflammatory agents such as dexamethasone, tocilizumab



Mild cases:

infection without or with mild signs of pneumonia



International Phase 2-3 COVA clinical trial to evaluate the safety and efficacy COVA of Ruvembri in the treatment of severe forms of COVID-19



Design	Endpoints & Study Follow-Up	Patient Population
 Administration of 350 mg b.i.d of Ruvembri Global, multi-center, double-blind, placebo-controlled group Phase 2-3 sequential (2 parts) adaptive design International study including 37 clinical centers in US, Brazil, France & Belgium 	 Primary endpoint: proportion of patients with respiratory failure or early death within 28 days Secondary endpoints: mortality at 28 and 90 days; discharge at 28 days End of study: Q2 2022 (N=237) after early study termination 	 Age: 45 years old or over Hospitalized for severe respiratory symptoms and with proven Covid-19 infection Patients with hypoxemia (<92%) or tachypnea (> 25 breaths/min) All authorized Covid-19 drugs (anti-viral or anti-inflammatory)

EClinical Medicine THE LANCET

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⁶⁰Actual address: Altus Care powered by Oberon Sciences, Israel ⁶⁰Service de Pneumologie, Groupe Hospitalier Pitié Salpětrière, Sorbonne Université 47-83 Boulevard de l'Hôpital, Paris Cedex 13,

Summary

Backgoond SABS-CoV-2 binding to ACE2 is potentially associated with severe pneumonia due to COVID-19. The

sim of the study was to test whether Mas-receptor activation by 2d-hydroxyecdysone (BIO101) could restore the

Renin-Anglorism System equilibrium and limit the frequency of respiratory failure and mortality in adults

hospitalized with severe COVID-19.

Methods Double-blind, randomized, placebo-controlled phase 2/3 trial. Randomization: 1:1 oral BIO101 (350 mg BID) or placebo, up to 28 days or until an endpoint was reached. Primary endpoint: mortality or respiratory failure requiring high-flow oxygen, mechanical ventulation, or extra-corporeal membrane oxygenation. Key secondary endpoint: hospital discharge following recovery (Clinical Trials gow Number, NCT04472728).

Findings Due to low recruitment the planned sample size of 310 was not reached and 238 patients were randomized between Aquest 26, 2020 and March 3, 2022. In the modified 11T population (23) patients were street and 238 patients were street and 238 patients were street, and 128 patients were street, and 128 patients were street, and 128 patients, 126 BEO101 and 107 plack-03, respiratory failure or early death by option 50 and 107 plack-04, respiratory failure or early death by option 50 patients (and 107 plack-05) patients (23.38) group, p. ex-option for patients indicateged following recovery were 90.1%, and 70.7% in the BIO101 and placebe group respectively, deplated difference 11.0%, 5% CI p-4.0%, 22.4%, p = 0.65% (24.58) proc. pp. 65.25% (25.58) proc. pp. 65.25% (25.58 group (not statistically significant). Treatment emergent adverse events of respiratory failure were more frequent in the placebo group.

Interpretation BIO101 significantly reduced the risk of death or respiratory failure supporting its use in adults hospitalized with severe respiratory symptoms due to COVID-19.

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Keywords: SARS-CoV-2; COVID-19; Renin-angiotensin-system (RAS); MasR; 20-Hydroxyecdysone; Respiratory failure

Introduction
Despite range vectoration compaigns, and the sendDespite range vectoration compaigns and the sendDespite range vectoration of the sendThe rental reagineted range vector system (RAS) encompasses the data for the rental reagineted respite (heart potential), peptidates, and receptor as the rental reagineted respite (annual), peptidates, and receptor representing two functional pathways in a balance of the rental reagineted respite respit to the rental reagineted respite registers of functional pathways in a balance of the rental reagineted respite registers of functional pathways in a balance of the rental reagineted respit respit

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However, antibodies targetting inflammatory cytokines show heterogeneous results' and antivirials are of limited efficacy in patients hospitalized with severe COVID-19.

ACGE may lead to a dysregulation of the RAS." ACCOVIDingly, abnormal plasma levels of Ang-II and ampiotensin-(I-7) have been reported in COVID-19.

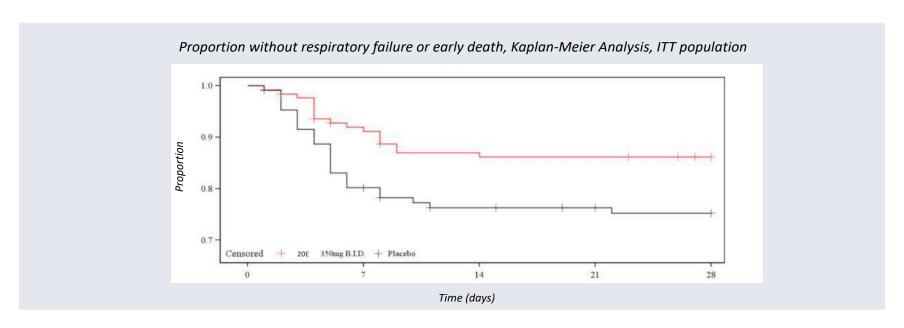


Positive results strongly supporting therapeutic potential of Ruvembri in severe COVID-19: respiratory failure or early death



RESPIRATORY FAILURE OR EARLY DEATH: THE STUDY MET PRIMARY ENDPOINT

- Reduction in the risk of early death or respiratory failure at day 28 by 44% (p=0.043, CMH test)
- Time to early death or respiratory failure over 28 days was lower (p=0.022, Kaplan Meier analysis)
- Post hoc analysis confirmed the reduction in the risk of early death or respiratory failure in the ITT population and in the PP population



Source: Lobo et al., eClinicalMedicine 2023: 102383.

Published Online: https://doi.org/10.1016/j.eclinm.2023.102383

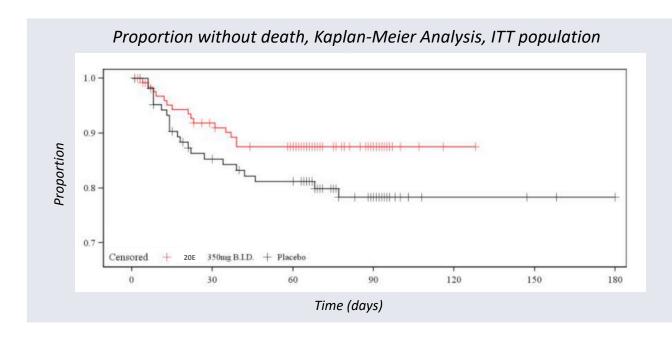


Positive results strongly supporting therapeutic potential of Ruvembri in severe COVID-19: mortality and safety



MORTALITY FOLLOW-UP OVER 90 DAYS AND SAFETY

• Kaplan Meier post hoc analysis showed a **reduction in the risk of death at day 90 of 43% (p=0.076)** in the ITT population and **70% (p=0.016)** in the PP population



- Very good safety profile with lower proportion of adverse events, especially respiratory adverse events (57% vs. 64%)
- Lower proportion of patients with severe adverse events compared to placebo (25% vs. 31%)

Source: Lobo et al., eClinicalMedicine 2023: 102383.

Published Online: https://doi.org/10.1016/j.eclinm.2023.102383



Biophytis initiates market access processes for Ruvembri treatment of severe forms of COVID-19



Early access

- EAP in France: application for early access will be re-submitted as soon as possible
- EAP in Brazil: EAP program authorized by ANVISA with initiation of program expected in Q1 2024 and first patients to be included in March 2023

Market access

- Preparation of the conditional marketing authorization application in Europe and in the US
- Following pre-submission meeting requests with the EMA and the FDA, scientific advice will be requested as soon as possible







in Sarcopenia





SARA project: Treatment for Sarcopenia, a large unmet medical need

NO CURRENTLY APPROVED DRUGS

- Age-related degeneration of skeletal muscle characterized by a loss of muscle mass, strength and functional issues such as the ability to stand and/or walk
- A major cause of mobility disability, resulting in a loss of independence and increased risk of adverse events (for example falls),
 which can shorten life expectancy
- Prevalence estimated between 6-22% in the elderly (defined as over 60 years of age), a population expected to double from approximately 962 million in 2017 to 2.1 billion by 2050¹

Ruvembri:

- ✓ First drug candidate to complete Phase 2 (SARA-INT) with clinically meaningful outcome on mobility
- ✓ On track to prepare the Phase 3 program
- ✓ Myostatin inhibitors halted for lack of effectiveness in neuromuscular diseases

¹United Nations' World Population Prospects: 2017 Revision





SARA-INT: Phase 2 trial overview

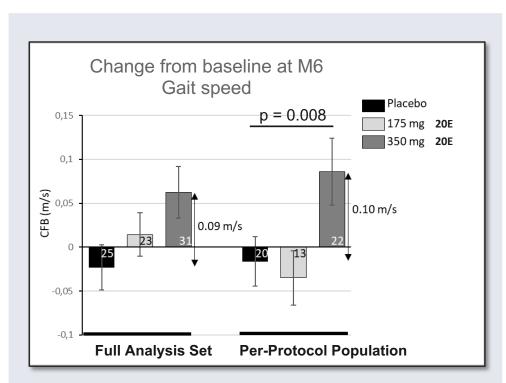
Design	Endpoints	Patient Population
 Global, double-blind, randomized, placebo-controlled trial: NCT03452488 Assess safety and efficacy of two doses of Ruvembri administered orally with a meal over 26 weeks, as compared to placebo Treatment effect on improvement of physical function (gait speed) and on on decrease of risk of mobility disability 	 Primary 400-meter walk test (400MWT) - 0.05 m/s is considered the minimal meaningful change Secondary Handgrip muscle strength Patient reported outcomes (PRO) 	 Age: 65 years old or over Low mobility measured by Short Performance Physical Battery (SPPB) ≤8 out of 12 DEXA body composition as measured by ALM/BMI (appendicular lean mass / body mass index) Able to exercise for 30 minutes per day 5 days per week







Ruvembri significantly improves the gait speed in the 400 MWT, the primary endpoint of SARA-INT Phase 2 trial, in the PP population after 6 months of treatment



⇒ TREATMENT EFFECT IS STATISTICALLY SIGNIFICANT IN PP POPULATION AT M6 (P = 0.008)

- Global, double-blind, randomized, placebo-controlled trial in patients with aged-related sarcopenia at risk of mobility disability to evaluate safety and efficacy of Ruvembri
- At the highest dose of 350 mg bid: clinically meaningful improvement of 0.10 m/s in the PP population (significant, p=0.008) compared to placebo for the 400MWT in gait speed after 6 months of treatment
- This level is known to be associated with a reduction in mobility disability and mortality in elderly
- Ruvembri showed a very good safety profile at the doses of 175 mg bid and of 350 mg bid with no Serious Adverse Events (AE) related to the product





SARA-31 – Phase 3 development plan

Design		Endpoints			Patient Population		
 Global, double-blind, randomized, phase 3 placebo-controlled trial Assess safety and efficacy Ruvembri 350 mg BID administered orally over at least 52 weeks, as compared to placebo Treatment effect based on estimation of the risk of mobility disability 		 Primary Major Mobility Disability (MMD) assessed by the inability to complete the 400-meter walk test (400MWT) within 15 min Secondary Handgrip Strength (HGS) Patient Reported Outcomes (PRO) 		 Age: 65 years old or over Low mobility measured by Short Performance Physical Battery (SPPB) ≤7 Low Handgrip Strength (HGS < 20 and <35 kg in female and male) Slow walkers (gait speed < 0.8 m/s) 			
Product	2023		2024	:	2025	2026	
350 mg b.i.d of Ruvembri	CTA in Europe/US		SARA-31 Phase 3 (depending on partnership)				







in DMD





Treatment Overview for Duchenne Muscular Dystrophy (DMD)



Rare, genetic neuromuscular disease in male children characterized by accelerated degeneration of muscles, responsible for loss of mobility, respiratory failure and cardiomyopathy, leading to premature death.

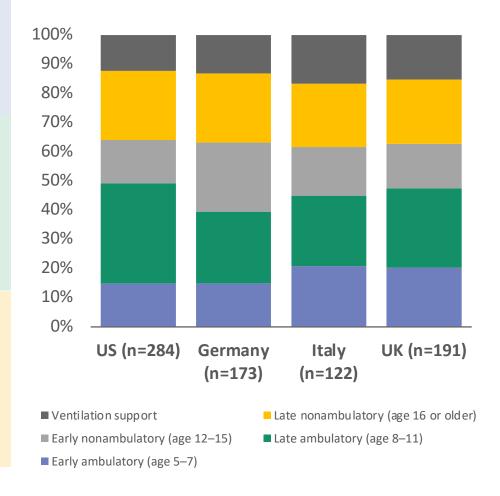


No known cure and limited treatment options, including corticosteroids and targeted therapies (exon-skipping in U.S. & stop codon in EU) that treat approximately 13% of DMD patients with specific genetic mutations.



We received **orphan drug designation (ODD)** in 2018 from the FDA and EMA for Ruvembri in DMD.

Proportion of ambulatory class in DMD¹







Preparing to start phase 1-2 clinical study in DMD

Design		End	points	Patient Population		
 A Randomized, Double-Blind, multi-center Phases 1-2 Study Evaluate the Safety, Efficacy, Pharmacokinetics, and Pharmacodynamics of Ruvembri in Non-Ambulatory DMD Patients with Respiratory Deterioration. Pediatric oral formulation (powder sachet) of Ruvembri 		 Primary: change from baseline on Peak Expiratory Flow (PEF) Secondary: The Forced Vital Capacity (FVC), Performance of Upper Limbs (PUL) scale, Grip strength (MyoGrip) Part 1 (N=15): Safety, tolerability & PK - 7 days of dosing of escalating dose Part 2 (N=45): Safety and efficacy on respiratory function (PEF) of one dose for 48 weeks 		 Age: ≥12 years old Non-ambulatory DMD patients Patients at risk of respiratory failure 		
Product	2023	2	024	2025	2026	
Ruvembri 20-hydroxyecdysone		Amendment to CTA approval		Phases 1-2 stud	у	



Key milestones in the development of Ruvembri

Achieved in the last 12 months

Anticipated in the next 12 months

COVA

- Phase 2/3 COVA Study: Results published and promising clinical benefits for Ruvembri
- Launch of Early Access programs in France and Brazil
- Application for conditional marketing authorisation in Europe and in the US

SARA

- Authorization to start phase 3 SARA-31 study in Belgium
 and the US
- Start of phase 3 SARA-31 study depending on financial resources and partnership

MYODA

Preparation of an amended protocol to regulatory agencies (FDA, EMA)

- Submission of an amended protocol to regulatory agencies (FDA, EMA)
- Start of phases 1/2 study



Scientific Advisory Board



Pr. Jean Mariani

- Professor of neuroscience and biology of aging and Director of Charles Foix Institute of Longevity at Sorbonne University
- Emeritus Professor (PU-PH) at the Sorbonne University's School of Medicine



René Lafont

- Co-Founder & Professor emeritus and former Dean of the life sciences department at Sorbonne University
- 185 scientific articles + 59 reviews and book chapters



Pr. Jose-Alain Sahel

- Chair of the department of ophthalmology at University of Pittsburgh School of Medicine and director of the UPMC eye center
- Founder and director of the Vision Institute in Paris and professor at the Sorbonne's medical school



Pr. Bernard Levy

- Professor Emeritus of Physiology and a senior member of PARCC
- Headed the physiology and functional investigations department and the Inserm cardiovascular research center at Lariboisière



Dr. Roger Fielding

- Professor of Medicine, Tufts University School of Medicine
- Director and Sr. Scientist Jean Mayer USDA Human Nutrition Research Center on Aging



Dr. Thomas Voit

- Professor, University College London
- Director of the Research Center of the Great Ormond Street Hospital for Children



Dr. Ivana Kim

- Associate Professor Harvard Medical School, Massachusetts Eye and Ear
- Co-Director of the Harvard Medical School Department of Ophthalmology AMD Center of Excellence; Associate Scientist, Massachusetts Eye and Ear



Dr. Yann Meunier

- Professor and Director of the International Institute of Medicine and Science, Inc (IIMS)
- Has led and participated in clinical trials for new treatments for HIV/AIDS, tropical and infectious diseases, and cardiovascular and respiratory diseases



Financial data

Key financial figures

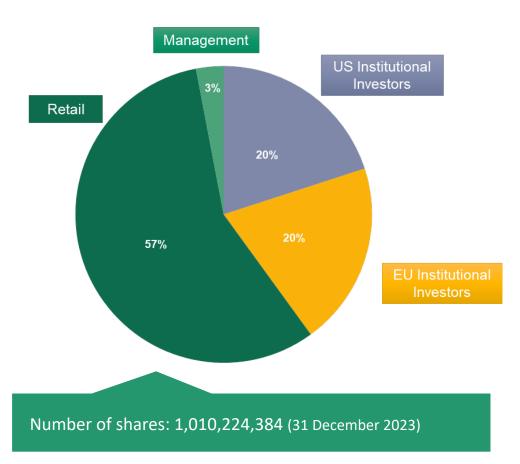
Listing Euronext (ALBPS) and Nasdaq (BPTS) Cash position:

- €5.8m (June 30, 2023)
- €5.4m raised and €2m in convertible bonds drawn down since June 2023

Analyst Coverage

- H.C. Wainwright *Joe Pantginis, Ph.D.*
- Kepler Cheuvreux Nicolas Pauillac
- Invest Securities Jamila El Bougrini, Ph.D.

Shareholding structure







THANK YOU

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