



Annual Results 2016

16 March 2017



***New frontiers in orthopaedic
and bone diseases***

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AGENDA

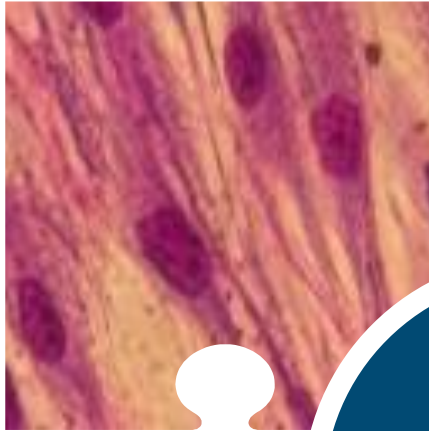
- Welcome and introduction
- 2016 at a glance: key highlights and financials
- 2016 highlights
 - Strong progress in ALLOB[®] programmes
 - Validation Bone Therapeutics' cell therapy approach by PREOB[®]
- Strategy and outlook 2017
- Q&A



INVESTMENT HIGHLIGHTS

1

**UNIQUE
TECHNOLOGY**
DIFFERENTIATED
CELLS & MINIMALLY
INVASIVE



2

**BROAD AND
DIVERSIFIED PIPELINE**
(MULTIPLE
INDICATIONS)



*A leader in
bone cell
therapy for
orthopaedics &
bone diseases*

4

**AHEAD OF
COMPETITION IN
ITS MARKETS**
(ONLY COMPANY
IN PHASE III)



3

**MARKETS WITH
SIGNIFICANT UNMET
MEDICAL NEEDS**



KEY HIGHLIGHTS 2016

Pipeline

- Streamlined strategic priorities with **primary focus** on **allogeneic pipeline**
- **Strong progress** in clinical development of allogeneic platform **ALLOB®**
 - Delayed Union
 - Positive safety & efficacy results for first 8 patients in ALLOB® in Phase I/IIA trial
 - 16 patients for interim analysis recruited and safety confirmed by Monitoring Committee (pp)
 - Spinal fusion
 - Completed patient recruitment for interim analysis for ALLOB® Phase IIA study
 - Preliminary positive safety and efficacy data for first 8 of 16 patients
- Further demonstration of **clinical potential** of Bone Therapeutics' bone cell therapy products in autologous PREOB® programmes
 - Osteonecrosis
 - Demonstrated superiority of PREOB® in Phase IIB study (presented at EULAR)
 - Osteoporosis
 - Preliminary beneficial effects on pain and blood markers following administration of PREOB®
 - Open to partnership for the development of an allogeneic approach

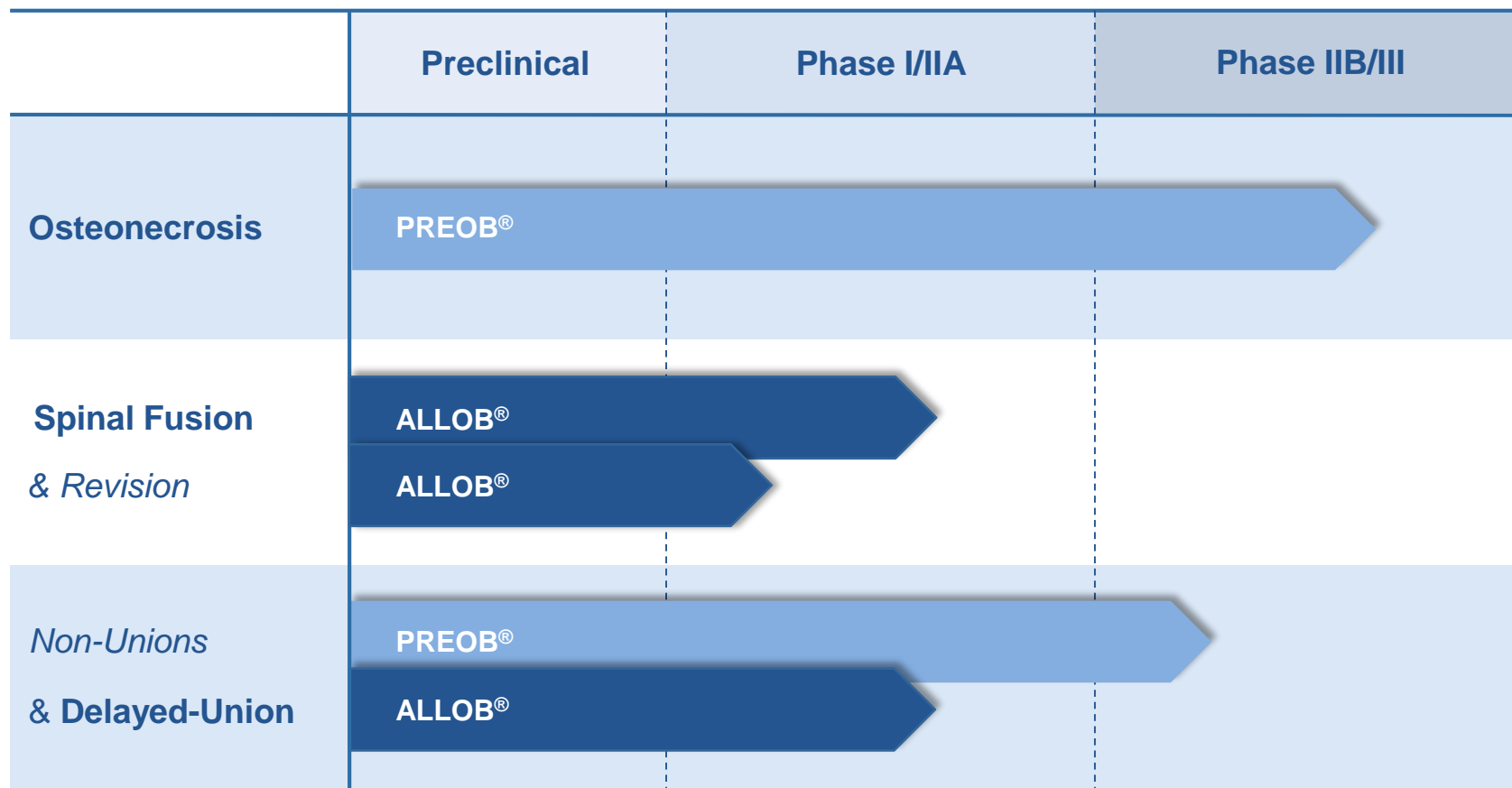
Financial

- **Cash** at end of 2016: **€20.3M** (giving runway into Q2 2018)

Corporate

- **Strengthening** of the **management team**: Thomas Lienard (CEO), Benoît Champluvier (CTMO) and Miguel Forte (CMO) (pp)

ADVANCED AND DIVERSIFIED PIPELINE



FINANCIAL HIGHLIGHTS 2016

(€ million)	FY 2016	FY 2015
Operating income	4.01	3.82
Operating expenses	(16.81)	(16.05)
R&D expenses	(13.65)	(12.91)
G&A expenses	(3.16)	(3.14) ¹
Operating result	(12.80)	(12.22)
Net financial result	(0.28)	(1.80)
Net result	(13.02)	(14.09)
Net cash flow	(13.31)	22.04
Operating activities	(11.37)	(11.77)
Investing activities	(0.58)	(2.98)
Financing activities	(1.36)	36.78
Cash position (at 31 Dec)	20.30	33.61

A laboratory setting with a gloved hand holding a petri dish under a microscope. The text "2016 HIGHLIGHTS" is overlaid in the center.

2016 HIGHLIGHTS

SKILLED MANAGEMENT TO TAKE COMPANY FORWARD



Nora Meskini
*Director Clinical
Operations*



Miguel Forte, MD, PhD
Chief Medical Officer



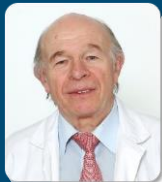
Thomas Lienard
*Chief Executive
Officer*



Wim Goemaere
*Chief Financial
Officer*



Benoit Champluvier, PhD
*Chief Technology &
Manufacturing Officer*



Guy Heynen, MD
*Chief Clinical &
Regulatory Officer*



- Significant expansion of leadership team over past 2 years
- Skills and industry expertise to take Bone Therapeutics through to commercialisation of first products
- Focus on clinical, regulatory, business development and manufacturing



June 2016

Benoît Champluvier, PhD
Chief Technology & Manufacturing Officer



- 20y experience in driving innovation and complex bioprocesses
- Formerly Director Downstream Process Technology, Coordinator New Technologies & GMP Pilot Plant at GlaxoSmithKline Vaccines



October 2016

Thomas Lienard
Chief Executive Officer



- 15y of international sales and marketing experience in pharmaceutical industry
- Formerly Managing Director BeLux at Lundbeck, Sales Director BE at Eli Lilly, Consultant at McKinsey & Company



March 2017

Miguel Forte, MD, PhD
Chief Medical Officer



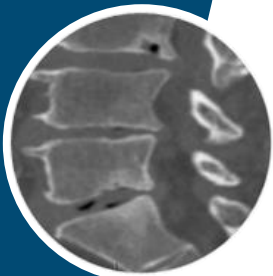
- 20y experience in medical and regulatory affairs, and regenerative medicine
- Formerly Chief Operating and Medical Officer at TxCell, Global Vice President Medical Affairs of UCB, senior positions at EMA, BMS and GSK
- Chief Commercialization Officer and Chair Commercialization Committee ISCT

STRONG PROGRESS IN CLINICAL DEVELOPMENT OF THE ALLOGENEIC PLATFORM ALLOB[®]



DELAYED UNION FRACTURES

Promising results for ALLOB[®] Phase IIA



SPINAL FUSION

Promising results for ALLOB[®] Phase IIA



DELAYED UNION FRACTURES

Promising results for ALLOB[®] Phase IIA

15 May 2016:

Bone Therapeutics announces further positive efficacy in ALLOB[®] Phase I/IIA delayed-union fracture trial

Seven out of eight patients met primary endpoints

Overall 77% radiological and 68% clinical improvement demonstrated

9 March 2017:

Bone Therapeutics completes recruitment of 16 patients in ALLOB[®] Phase I/IIA delayed-union study

Last patient for interim analysis treated end of February

Results interim data analysis expected in September 2017

DELAYED UNION – SUCCESS IN 7 OUT OF 8 PATIENTS

Phase I/IIA proof-of-concept delayed-union open study

No safety issues on 8 first patients

Positive results at 6 months:

- 7 out of 8 patients met primary endpoints
- 77% radiological improvement
- 68% improvement in pain

Baseline



Month 3



Month 6



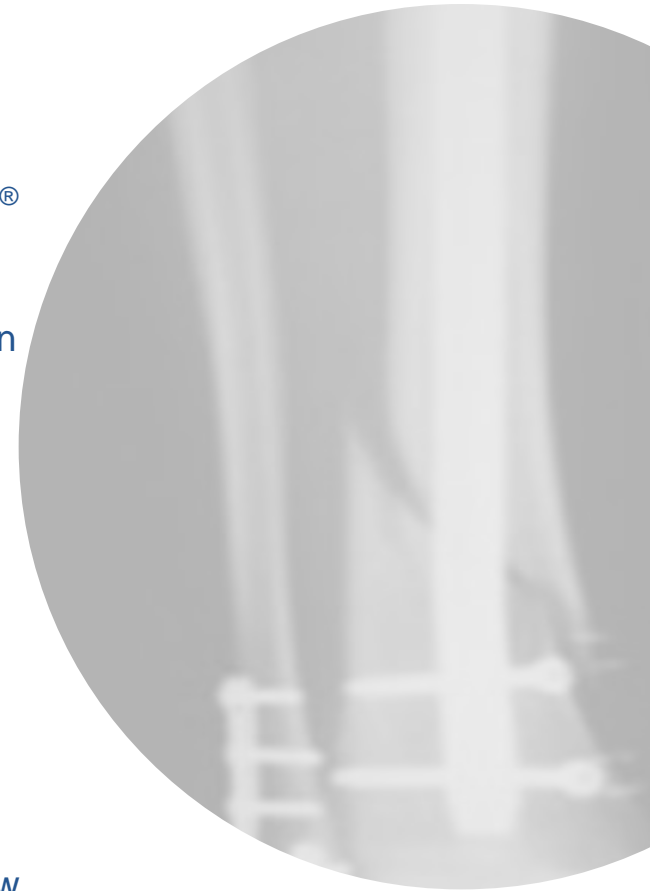
DELAYED UNION – PROMISING RESULTS FOR ALLOB® PHASE IIA

STATUS

- Phase I/IIA trial ongoing – Continuous follow-up of safety and efficacy
- All patients received one single injection of ALLOB® at bone defect site
- 7 out of 8 first patients met primary endpoints within 6 months
- Recruitment 16 patients for interim analysis completed (9 March 2017)
- Safety Monitoring Committee confirms safety of treatment for the 16 patients (14 March 2017)

NEXT STEPS

- Interim data analysis planned for September 2017
- Positive efficacy data at interim analysis could allow to accelerate into next stage of clinical development





SPINAL FUSION

Promising results for ALLOB[®] Phase IIA

17 February 2016:

Bone Therapeutics treats 12 patients without safety concerns in ALLOB[®] Phase IIA spinal fusion trial

Recruitment almost complete with four patients left to treat

24 February 2016:

Bone Therapeutics presents ALLOB[®] pre-clinical and early clinical efficacy data in spinal fusion at the 'Clinical Applications of Stem Cells' Conference

Successful spinal fusion achieved in first patient within 12 months

3 May 2016:

Bone Therapeutics completes recruitment of its ALLOB[®] Phase IIA spinal fusion study

Trial extended to assess early onset and dynamics of fusion process

5 October 2016:

Bone Therapeutics reports positive efficacy data for the ALLOB[®] Phase IIA spinal fusion trial

Study follow-up completed for 50% of patients

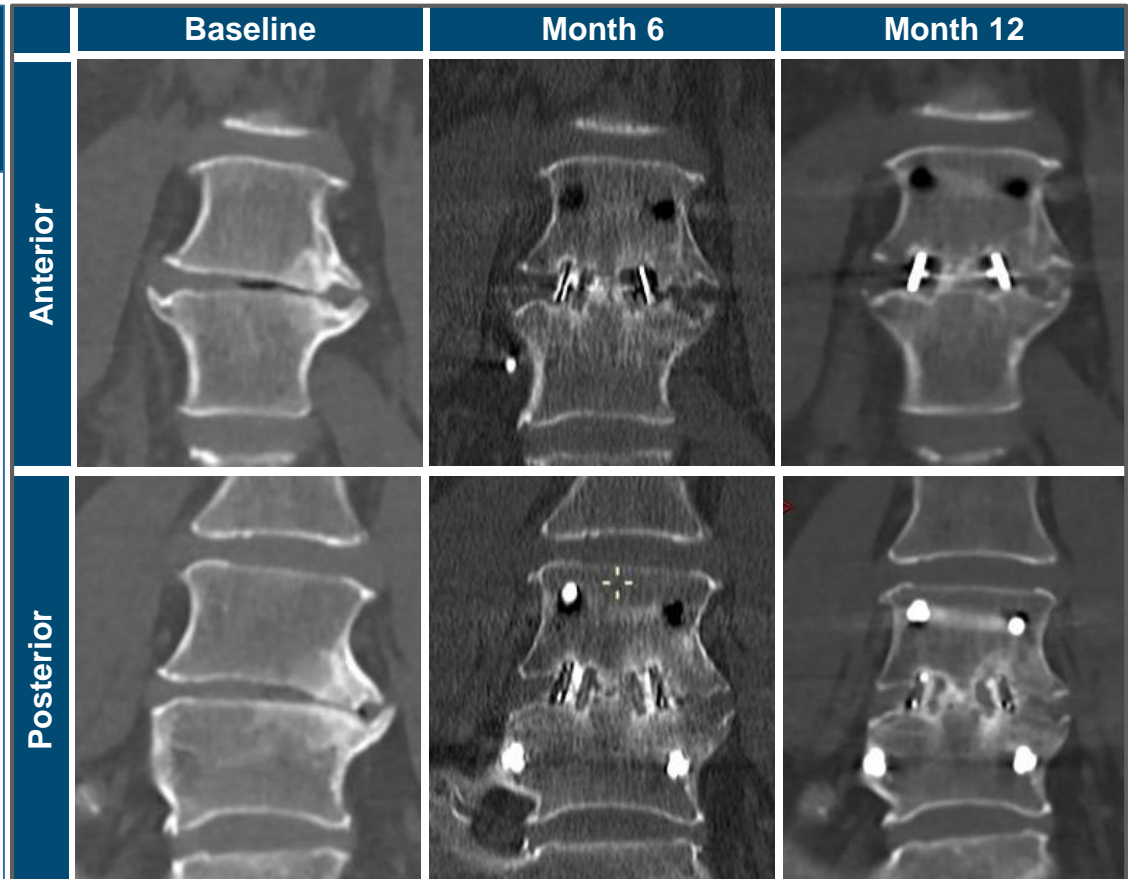
All primary and secondary radiological and clinical endpoints met

SPINAL FUSION - POSITIVE PRELIMINARY PHASE IIA RESULTS

Phase IIA proof-of-concept and recruitment completed without safety issues

Positive efficacy results of first 8 patients (as from month 6):

- 33% improvement in functional disability score at 6 months and 40% at 12 months
- Back (50%) and leg (80%) pain improved dramatically as from month 6
- General health status improved 50% at 6 months and was maintained
- No vertebral motion on dynamic x-rays & radiological signs of fusion on CT scan



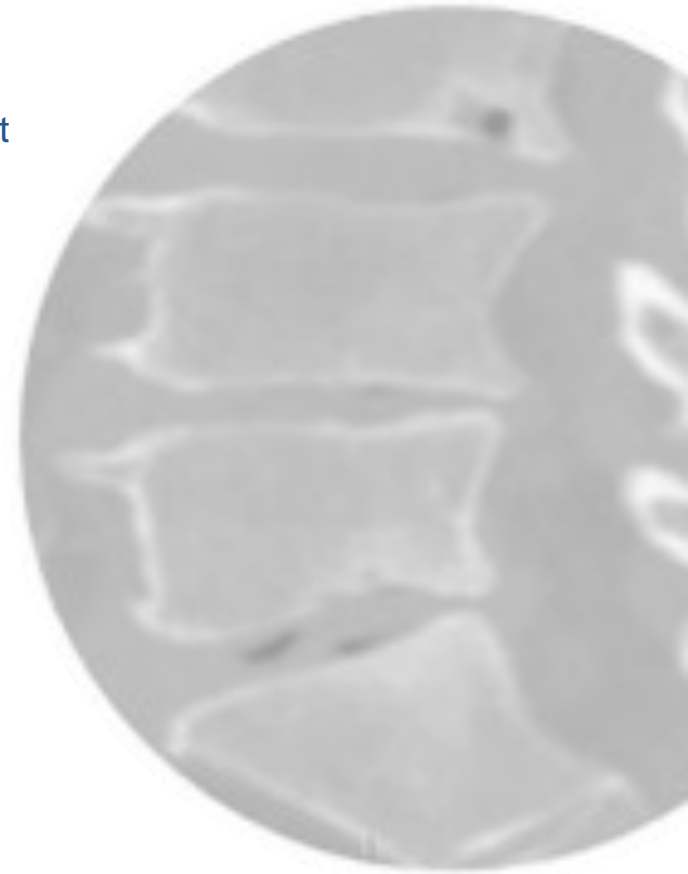
SPINAL FUSION - PROMISING RESULTS FOR ALLOB® PHASE IIA

STATUS

- Phase IIA (non-controlled) ongoing
- 16 patients treated – results from full set of 8 first patients communicated Oct. 2016
- No treatment-related safety concerns
- Trial extended to 32 patients

NEXT STEPS

- Results from 16 patients expected summer 2017
- Development in US under evaluation subject to positive Phase IIA results



FURTHER DEMONSTRATION OF CLINICAL POTENTIAL OF BONE THERAPEUTICS' BONE CELL THERAPY PRODUCTS IN PREOB[®] OSTEONECROSIS PROGRAMME



OSTEONECROSIS

Validating Bone Therapeutics' bone-forming cell therapy



OSTEONECROSIS

Validating Bone Therapeutics' bone-forming cell therapy

8 June 2016:

Bone Therapeutics demonstrates superiority of PREOB[®] in Phase IIB osteonecrosis study presented at EULAR

Statistically significant superiority of PREOB[®] over standard of care in osteonecrosis treatment

50% reduction in hip fracture risk

Significant reduction in hip pain (50%) and significant improvement of hip function (45%)

OSTEONECROSIS – PROMISING PHASE IIB (FINAL RESULTS)

Reference-controlled Phase IIB trial with PREOB® in early-stage osteonecrosis of the femoral head

Method: Core decompression and PREOB®/bone marrow concentrate (BMC)

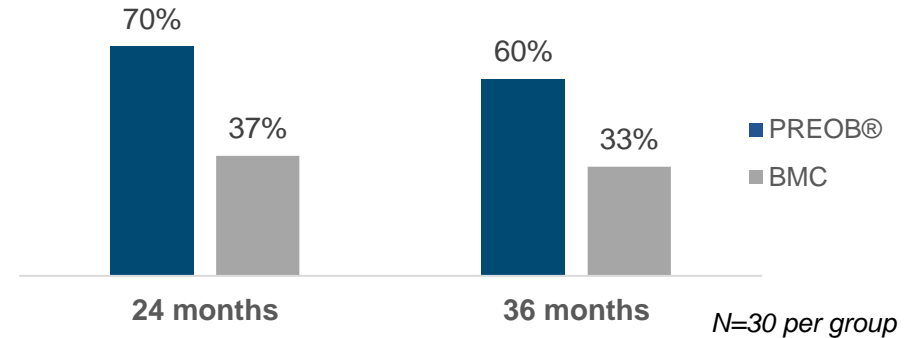
Number of patients: 63 hips treated, of which 60 were assessable* and included in the analyses (PREOB® n=30, BMC n=30)

Primary endpoints: proportion of responders at 24 months, defined as

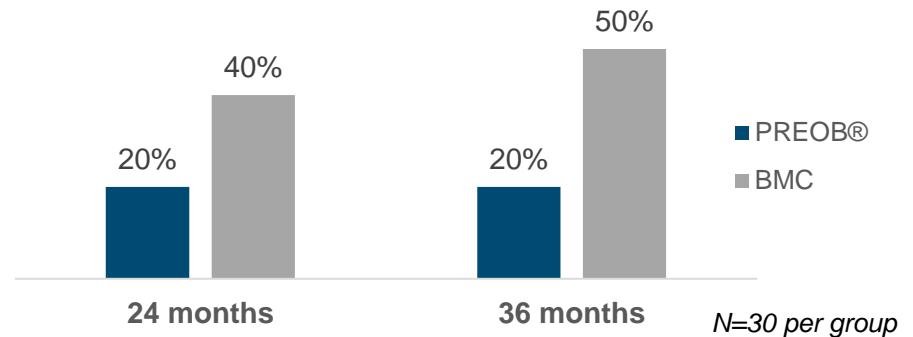
- Absence of progression to fractural stage
- And clinically significant (>10mm) pain improvement

Ref: Gangji et al., Poster presented at EULAR, 2016

Responders



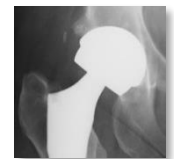
Progression to fracture



Prefractal stage



Fracture & collapse



Prostheses

OSTEONECROSIS – BONE-FORMING CELL THERAPY PRODUCT VALIDATION

STATUS

- Most advanced clinical program (Phase III)
- Currently recruiting patients: 130 patients in 1-to-1 vs placebo
- Primary endpoints: absence of progression to fractural stage & clinically significant pain improvement

NEXT STEPS

- Recruitment update
- DSMB report (1 year following completion 1st cohort)

On completion Phase III:

- *External validation of Bone Therapeutics' bone forming cell therapy products*
- *1st potential product to market*





STRATEGY & OUTLOOK 2017

STRATEGY TO MAXIMISE VALUE CREATION



Focus on:

The allogeneic platform ALLOB®:

- A therapeutically attractive bone regenerative solution:
 - ✓ Industrial: scalable, cost-effective, off-the-shelf cell therapy product solution
 - ✓ Commercial: suited for larger markets
 - ✓ Business development: more attractive to partners
- Europe: maintain high-level investments in ALLOB® clinical programs
- US: prioritising clinical development of ALLOB®

Delivering Phase III clinical trial data in osteonecrosis with PREOB®

to bring 1st potential commercial product to market

- Demonstrating and confirming high added value of Bone Therapeutics' bone-forming cell therapy products
- Propelling the company into commercialisation stage

BUSINESS DEVELOPMENT & PARTNERING STRATEGY

- 
- Stand-alone development in EU – commercial partnership for going to market
 - Partnership in the US for co-development and commercialisation
 - Licensing of portfolio in Japan and SE Asia

▪ Clinical results

- Results interim data analysis for the first 16 patients in the Phase I/IIA ALLOB® **delayed-union** trial
- Results interim data analysis for the first 16 patients in the Phase IIA **spinal fusion** trial with ALLOB®
- Recruitment update for Phase III **osteonecrosis** trial, now ongoing in five European countries

▪ Finance

- Good cash management remains a key priority
- Strong focus on net cash burn (expected to be in the range of EUR 15 million for 2017)
- Sufficient cash to carry out its strategic objectives into Q2 2018 in line with earlier guidance

UPCOMING CLINICAL NEWS

Indication	Milestones	2016					2017				2018	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		Q1	Q2
Osteonecrosis (Phase III)	PREOB®	Site update	✓									
		Study status for Interim/DSMB										
		Patient update										
		DSMB Report										
Spinal fusion (Phase II)	ALLOB®	Completion recruitment	✓									
		Efficacy 4-8 patients		✓								
		Efficacy 16 patients										
		Initiation Phase IIB study										
Revision (Phase II)	ALLOB®	Safety 4 patients										
Delayed-Union (Phase I/II)	ALLOB®	Efficacy 8 patients	✓									
		Completion of recruitment				✓						
		Efficacy 16 patients – interim										
Non-Union (Phase IIB/III)	PREOB®	Study status for Interim/DSMB										

SUMMARY



Unique bone cell **Technologies** targeting unmet needs in orthopaedics and bone diseases



Minimally Invasive approach with significant benefits over current standard of care



Lead products in **Advanced Clinical Trials** with potential in multiple indications



Multiple **Near-term Data Catalysts** including spinal fusion and delayed union fracture



Experienced Management Team focused on clinical development



Headquarters in Belgium, listing on **Euronext Paris & Brussels**

Questions

Contact: Thomas LIENARD
Chief Executive Officer

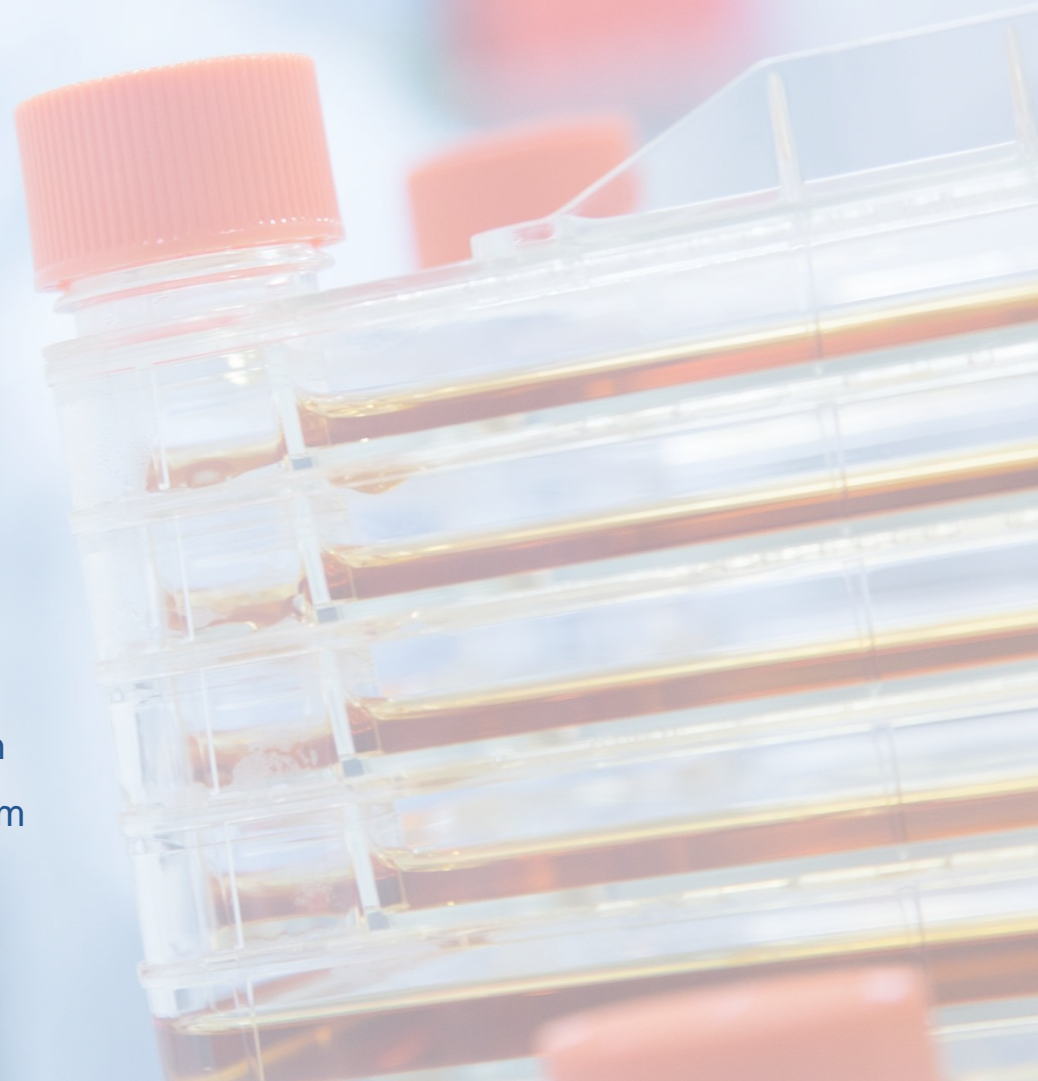
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OVERVIEW OF THE TECHNOLOGY

BONE THERAPEUTICS: A GAME CHANGER IN ORTHOPAEDICS



STANDARD ORTHOPAEDIC APPROACHES



- Highly invasive
- Long Recovery
- Limited efficacy



CELL THERAPY

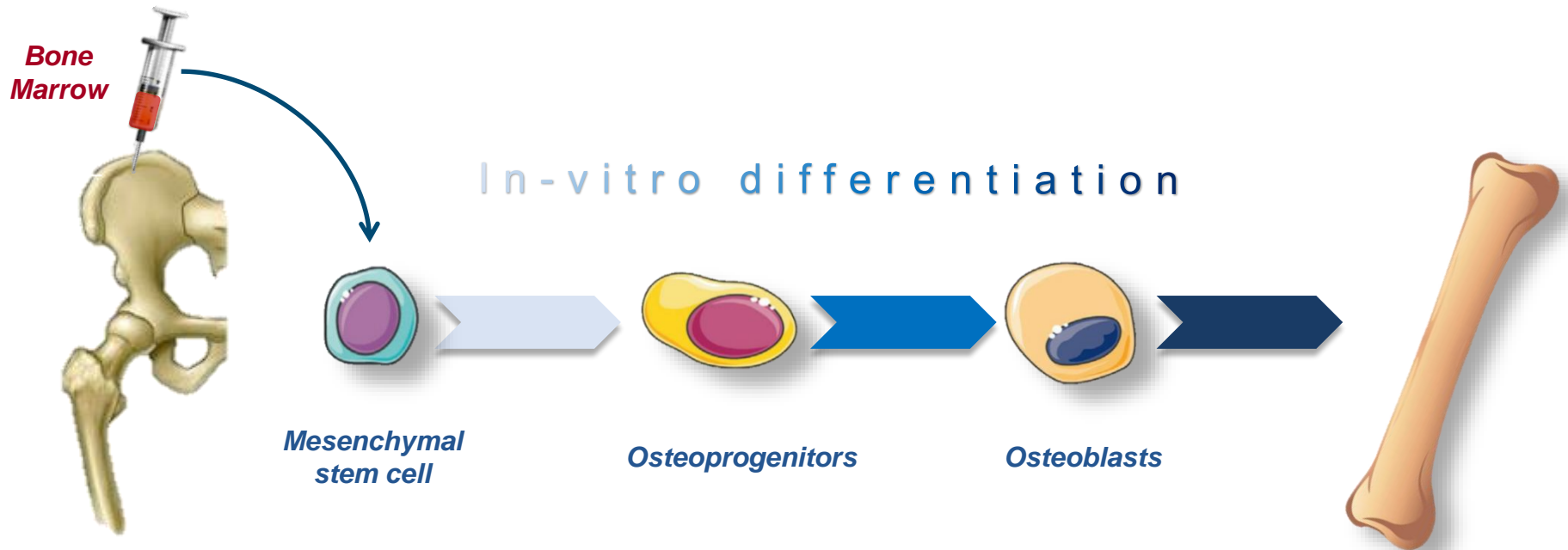


BFC



- **Bone-forming cells (BFC)**
- **Minimally invasive**
- **Potential in multiple indications**

BY THE UNIQUE USE OF DIFFERENTIATED BONE-FORMING CELLS



Advantages:

- **MORE POTENT** - Faster and better bone-forming capacity
- **SAFER** - No unwanted cell types or no unwanted activity

UNMATCHED EXPERTISE IN MANUFACTURING OSTEOBLASTS

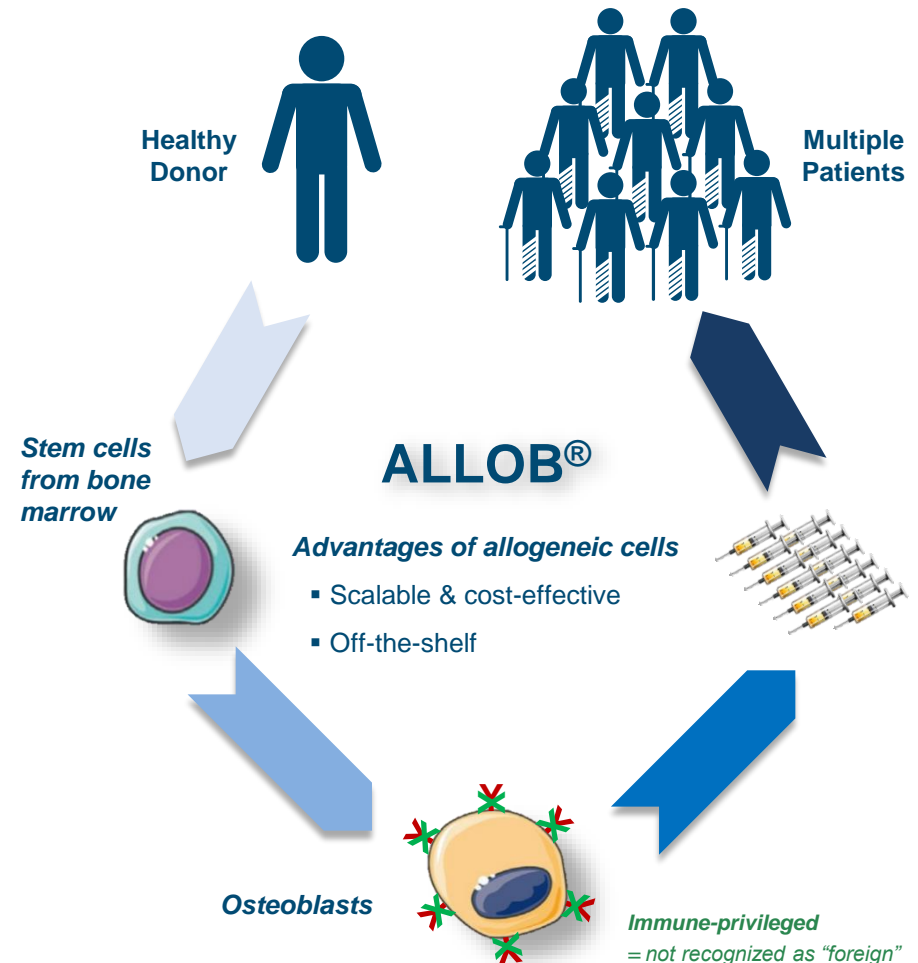
PREOB®

Autologous bone cell therapy



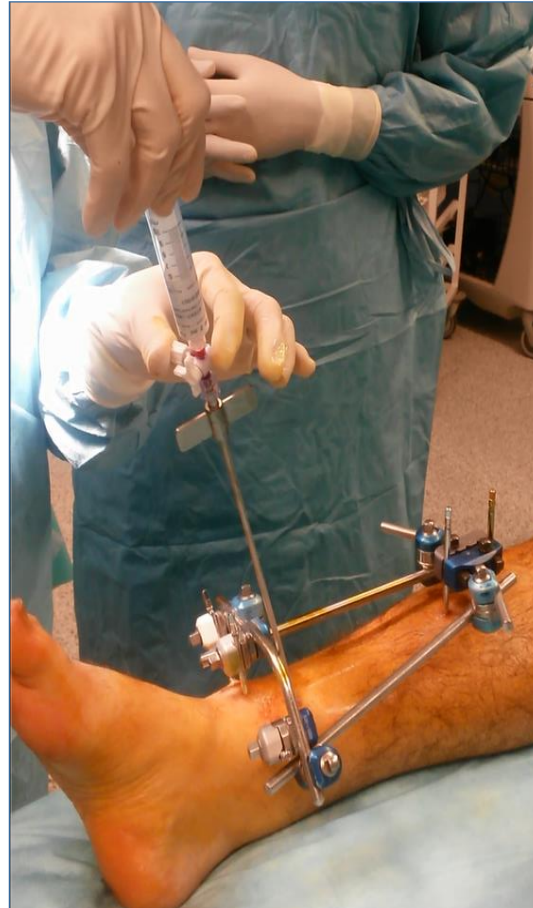
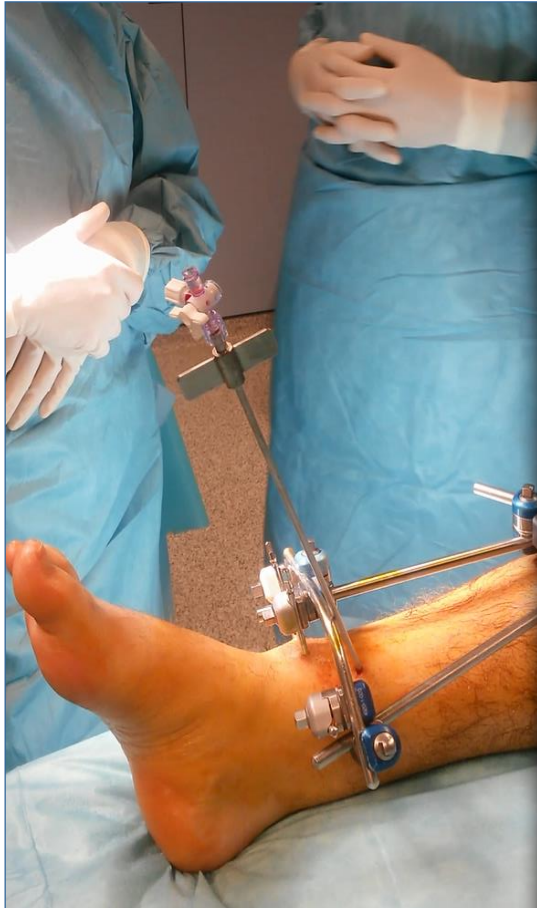
ALLOB®

A scalable allogeneic solution



MINIMALLY INVASIVE ADMINISTRATION

*Single percutaneous implantation into fracture site: simple & fast procedure
one-day clinic - no open surgery*





OUR PORTFOLIO

BONE CONDITIONS WITH HIGH UNMET MEDICAL NEEDS

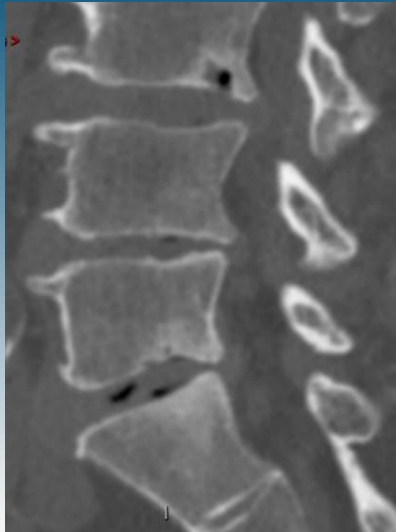
DEGENERATIVE HIP DISORDERS



Osteonecrosis

~0.15M patients p.a.

DEGENERATIVE SPINE DISEASES



Spinal fusion *

Revision

~0.5M (0.12M) procedures p.a.

SEVERE UNHEALED FRACTURES



Delayed-union

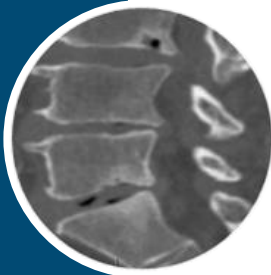
Non-union

~1M (0.3M) patients p.a.



DELAYED UNION FRACTURES

Promising results for ALLOB® Phase IIA



SPINAL FUSION

Promising results for ALLOB® Phase IIA



OSTEONECROSIS

Validating Bone Therapeutics' bone-forming cell therapy