Instituto de Medicina Molecular

João Lobo Antunes

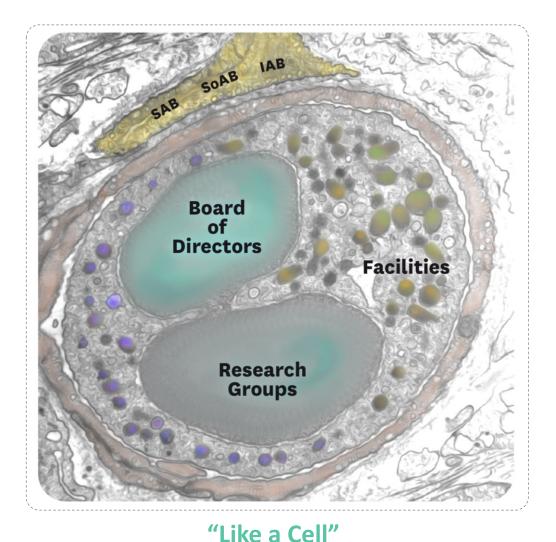
Infoday Horizon Europe: Exploring The Upcoming Opportunities

Session #1 | Pathways to Research and Innovation

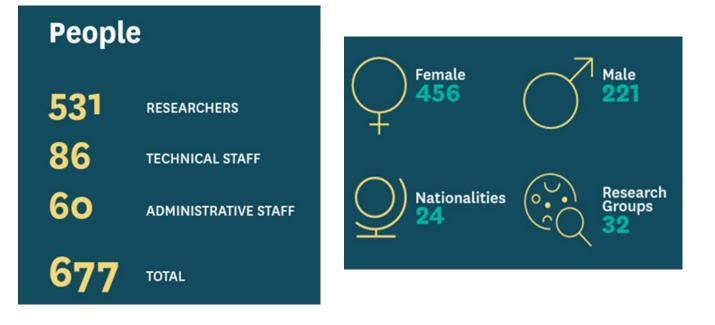
October 26, 2023

A collaborative ecosystem of 677 people!

Horizontal structure, with no artificial boundaries, promoting cooperation



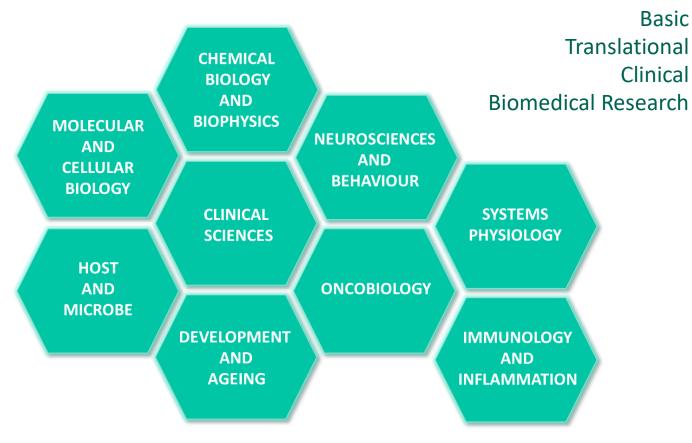
iMM Community



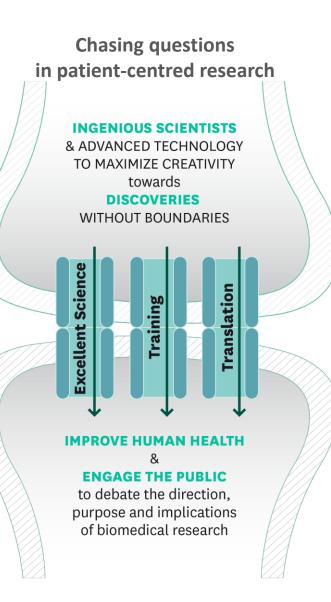


Fostering new and disruptive discoveries to improve the health of the cit

Interest Groups for Multidisciplinarity & Critical Mass



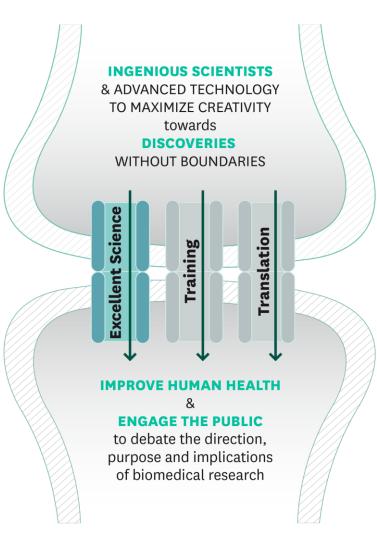
Strategic connection: Lisbon Medical Academic Centre (CAML)





1. Promote Scientific Excellence - delivering on key public policies

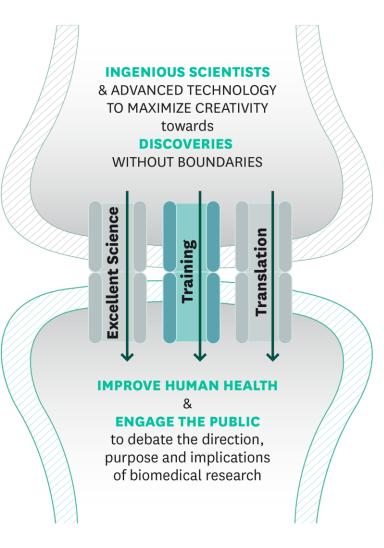
- Attract, support and continuously review our faculty and their projects
- Reduce artificial scientific barriers and encourage interdisciplinarity
- Promote internationalization
- Invest in state-of-the art technological platforms and support services
- Develop internal funding schemes and tools for bold initiatives
- Promote the open-access dissemination of the results of our research



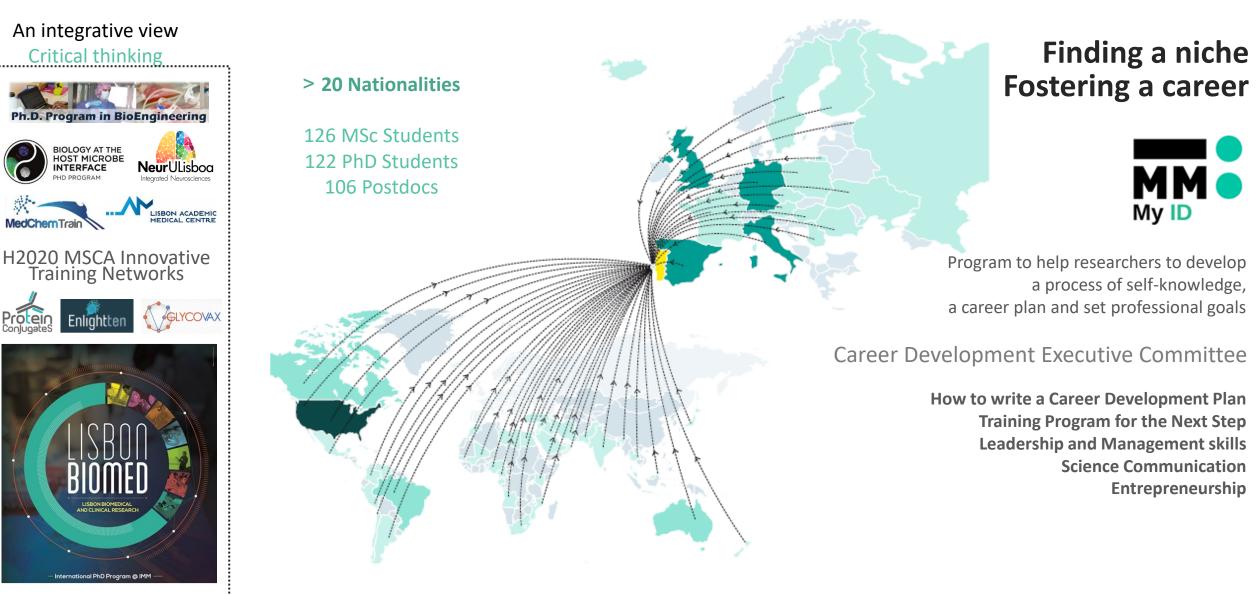


2. Nurture Advanced Training and Career Development - delivering on key public policies

- Attract the most curious and talented individuals
- Provide the highest quality training to early career scientists, namely through dedicated MSc,
 PhD and Post-Doctoral programs
- Encourage and foster Independence and creativity at all career stages
- Support tailored training and continued professional development
- Promote an **entrepreneurial mindset**

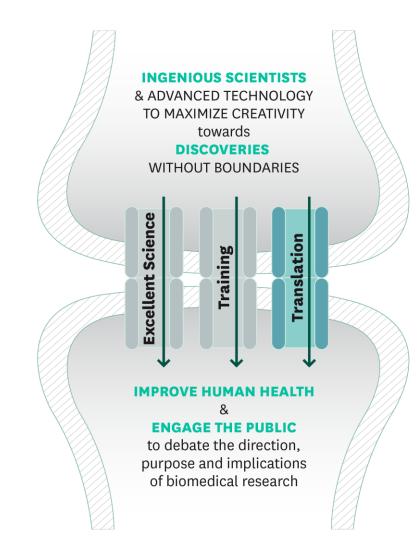


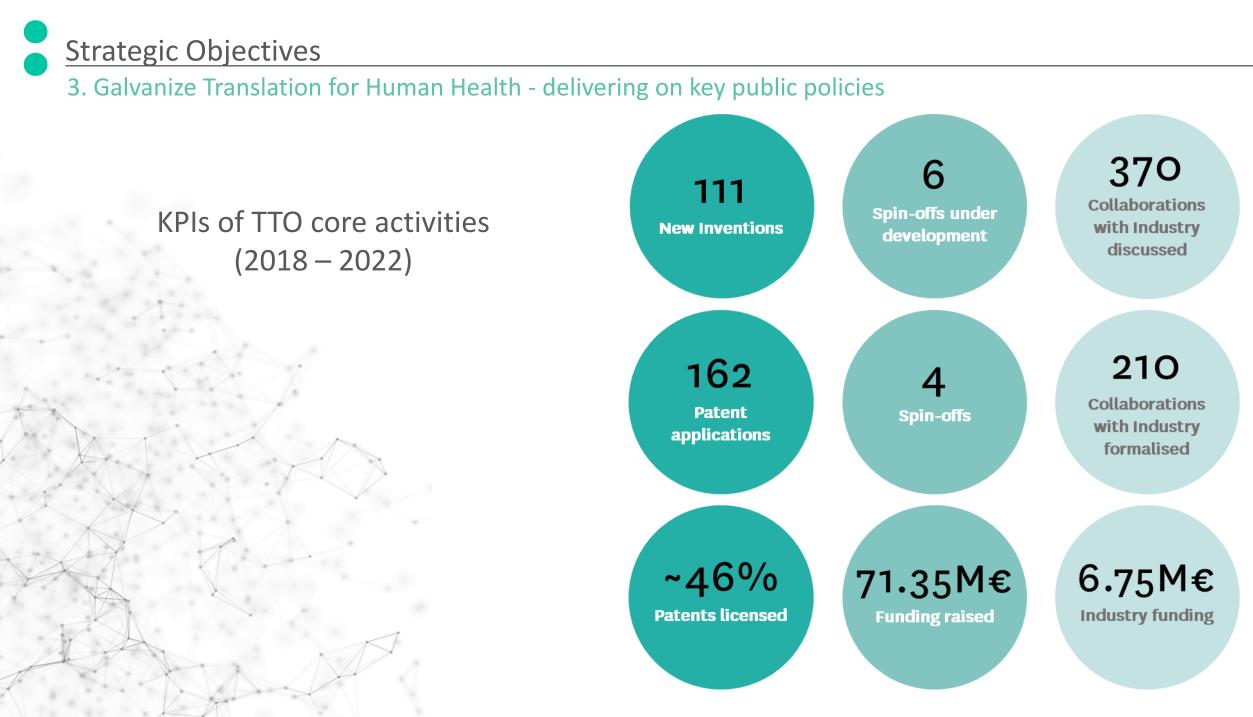
2. Nurture Advanced Training and Career Development - delivering on key public policies



3. Galvanize Translation for Human Health - delivering on key public policies

- Increase portfolio of early translation projects (proofof-concept funding)
- Increase industry funding
- Create start-up programs (entrepreneurs-in-residence; pre-seed accelerator)
- Create investment fund
- Equity position in new ventures
- Attract the best entrepreneurs to lead new ventures



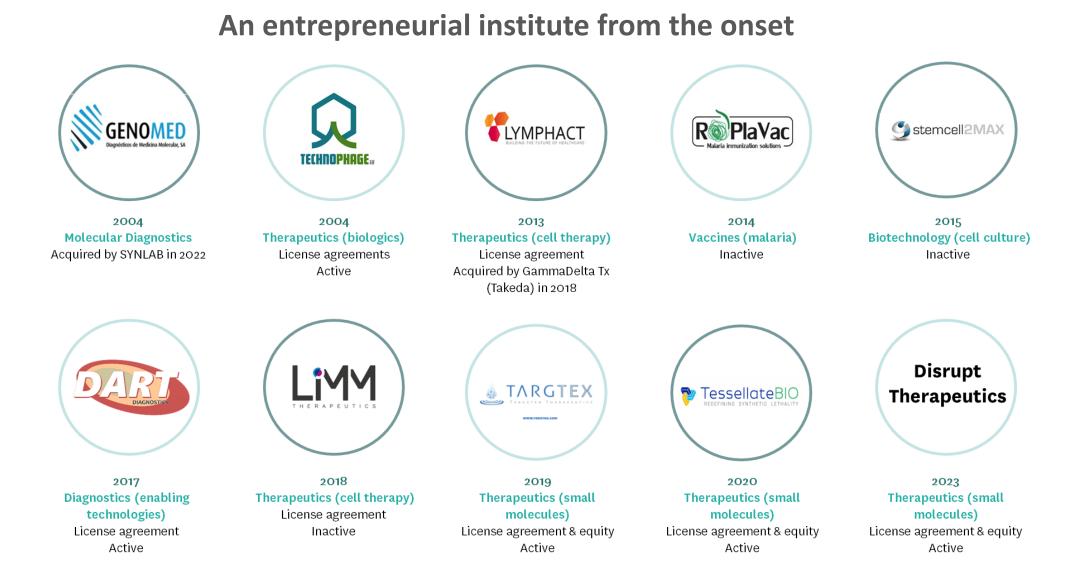


3. Galvanize Translation for Human Health - delivering on key public policies

iMM research and IP assets fuel a strong and attractive pipeline in therapeutics

	ASSET	LAB	PARTNER(S)	DISCOVERY	PRECLINICAL	CLINICAL		ASSET	LAB	PARTNER(S)	DISCOVERY	PRECLINICAL	CLINICAL
ONCOLOGY	New target for ALT cancers	CAzzalin	TessellateBIO					Piperlongumine (PL) for SARS-CoV-2	GBernardes				
	TRPV2 antagonists	GBernardes	TARGTEX				S	rG4 degraders	GBernardes	CAMBRIDGE enterprise			
	TEC inhibitors	GBernardes					DISEASES	Anti-malarial small molecules	MMota				
	New treatment based on CO	GBernardes	8 Proterris					Peptide conjugates for Zika	MCastanho				
	releasing Cell therapy based on γδ T cells	BSSantos	Takeda				INFECTIOUS	New porphyrin-CPP conjugates with antiviral activity	MCastanho				
	Development of traceless strategies for the selective release of BET inhibitors in	GBernardes					INFE	New antimicrobial agents	MPrudêncio	BSL			
	cancer cells RANK pathway + CDK inhibitors	LCosta	AMGEN					Plant extracts with antiviral activity	PSimas				
	Induction of celular lethality in cancer	SAlmeida						Neutralizing SARS-CoV-2 antibodies	LGraça	Fair Journey Biologics			
	Gene therapy	JBarata	Targeted Therapies Today				I	New drugs for AD and Epilepsy	ASebastião	iL⊜F ∥Co-LaBio			
	Anti-IL-7R antibodies	JBarata	Fair Journey Biologics				NCE	New target (TrkB-T1) for absence seizures	ASebastião				
METAB. DISEASES	New target (Slc6a2) for obesity	GBernardes					NEUROSCIENCE	Use of Eletriptan Hydrobromide for SCI	LSaúde	TECHNOLOGI			
							NEUR	New targets for SCI	LSaúde				
MULTIPLE	Peptide compounds to reduce side effects of CB1 receptor agonists	MCastanho	Disrupt Therapeutics					MANF delivery to improve regenerative capacity in the skeletal muscle	PSVitor	Start-up to be created			
	Method to produce TRM cells	MVeldhoen	Start-up to be created				ġ						
IMMUN.	Undisclosed target to inhibit T cell activity in inflammation	MVeldhoen					CARDIO.	ASO HCM	MCFonseca				

3. Galvanize Translation for Human Health - delivering on key public policies

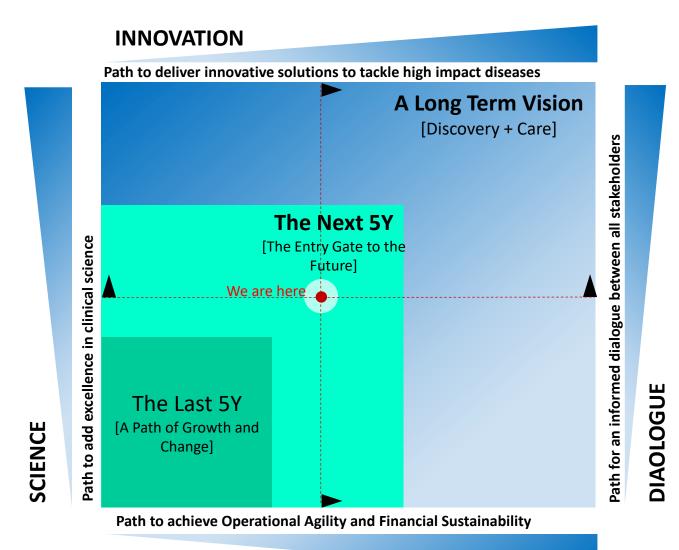


3. Galvanize Translation for Human Health - delivering on key public policies



iMM – The Future

To achieve excellence in Clinical Research & Real-World Experimental Medicine



MANAGEMENT

iMM – The Future

in iMM's R&I capacities

Need:

- . Expand excellence to clinical and translational research
- . Catch the digital transformation train
- . State-of-the-art RI and powerful drug discovery platforms and tools following tech & market trends



Portugal

Solution:

- . Mission-driven, human-centred and data-powered clinical and translational research
- . New digital facilities omics, AI / data, blockchain
- . World-class R&T facilities (digital, equipment), DD platforms and human-based models

European Commission **iMM-CARE: BOOSTING CLINICAL RESEARCH FOR THE BENEFIT OF SOCIETY iMM-CARE** Grant agreement ID: 101060102 DOI 10.3030/101060102 Start date End date 1 May 2023 30 April 2029 Funded under Widening participation and spreading excellence Total cost € 15 000 000.00 EU contribution € 15 000 000,00 Coordinated by INSTITUTO DE MEDICINA MOLECULAR JOAO LOBO ANTUNES



Instituto de Medicina Molecular

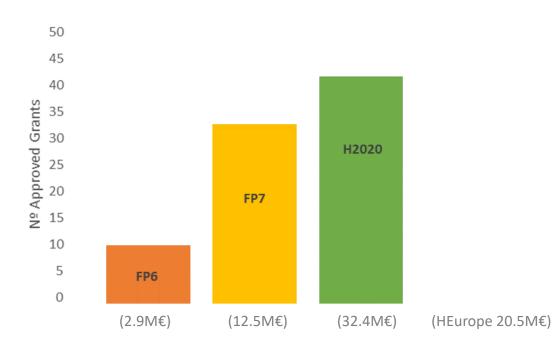




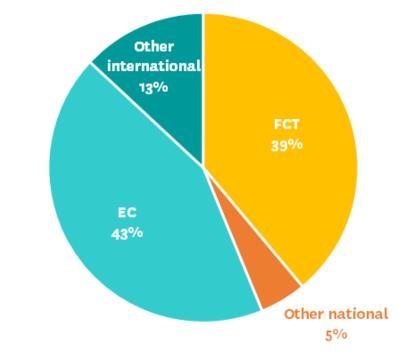
iMM in Framework Programmes for R&I

Positive Pathway in EC's Framework Programmes

iMM in FP6 » FP7 » H2020







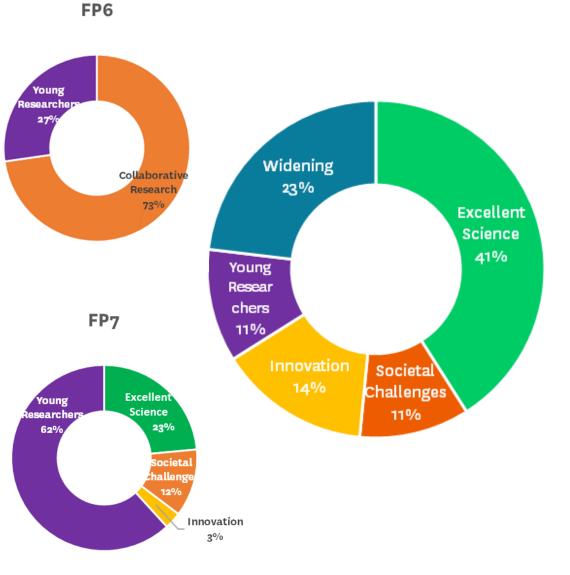


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THANK YOU FOR YOUR ATTENTION

EC H2020 funding (2014 – 2020) - iMM



Excellent Science . European Research Council (ERCs)

Young Researchers

- . MSCA-Individual Fellowships
- . MSCA Innovative Training Networks

Societal Challenges (cluster Health)

 Consortium-based; Top-down; focus on translational/clinical

research

Innovation

- . Future Emerging Technologies (FET)
- Individual/consortium; Top-down/Bottomup; focus on translational research/innovation for the market

Widening

- . ERA-Chair | Twinning | Teaming
- Focus on capacity-building on R&I and
- improvement
 - of institutional/regional/national scientific system