Filled in by*

Date*

Info Sheet for Technical description

			No. 0010		
Organiza	tion		* Mandatoty fields		
Name of Organization*		PharmaBio Corporation			
Address, City, States, Zip, Country*		3-25-22 Tonomachi, Kawasaki-Ku, Kawasaki, Kanagawa 210-0821 JAPAN			
URL		https://www.pharmabio.co.jp/en/index.html			
Brief Descriptions of Organization* (Approx. 100 words)		PharmaBio is engaged in the development of new regenerative medicines as well as high quality contract manufacturing services.			
		Name*	Hirohito Shimazu		
Contact address		Department* / Position	Business Planning Department		
		E-mail* / TEL	hshimazu@pharmabio.co.jp		
What kind ☑	of technology do you want to offer? * A. Clinical Development Pipelines		→ Please see Sheet (A)		
<u> </u>	B. Regenerative Medicine-related Consumables	/ Instruments / Materials / CDMO Servicies etc	→ Please see Sheet [B]		
			→ Please see Sheet [C]		
	 C. Platform Technologies(*) that are not included in the above (Group B) → Please see Shee * Peripheral technologies that contribute to a significant improvement in productivity throughout the value chain of pharmaceuticals, from research and development to manufacturing and ultimately market launch. 				
published in	logies introduced in this 'Info Sheet' are in t n research papers or have related patent ap Yes	plications.			
	ve any collaborations/partnerships wi Yes	tn pnarmaceuticai companies?			
	No				
		r other sources, up to which stage has			
	Angel / Seed (including AMED/JST grants)				
	Series A				
	Series B				
	Series C				
	Series D or further advenced stages				
	ree to leave your presentation materia of them for the purpose of promoting				
	Options*		Comments		
	Yes				
v	No				

Hirohito Shimazu 2023/9/22

Info Sheet for Technical overview

				No. 0010					
					* Mandatoty fields				
Title*									
PAL-222									
Development Phase*									
	Basic Research		Drug Discovery		Pre-Clinical				
	Clinical Trial (Phase I)	V	Clinical Trial (Phase II)		Clinical Trial (Phase III)				
	Review		Others						
Dieseas	e Area*								
	Cancer		Central nervous system	V	Ophthalmology				
	Musculoskeletal		Endocrine / Metabolism		Cardiovascular				
	Urogenital		Digestive organ		Blood				
	Infection		Dermatology		Immunity				
	Otolaryngology		Respiratory		Others				
Description*									
PAL-222 is a mesenchymal stem cell sheet with an endogenous scaffold structure. The cell sheet is fabricated by the world's first cell sheet creation method with Bruch's membrane-like structure composed only of extracellular matrix components produced by the cells themselves, a proprietary technology of Professor Chikara Yasukawa of the Nagoya City University Graduate School of Medicine, and is developed by PharmaBio. Compared to transplantation of cell suspensions, the new sheet has the potential to: (1) improve cell engraftment rate, (2) demonstrate the functions of transplanted cells (leading to improvement and maintenance of visual function), (3) reduce the risk of complications and be less likely to cause allogeneic rejection owing to the characteristics of mesenchymal stem cells. They are also expected to have a protective effect on the surrounding tissue functions by secreting various growth hormones and cytokines. A Phase I/IIa clinical trial (PAMyCA study) has started this year at Nagoya City University Hospital (https://www.pharmabio.co.jp/news/view/43).									
Filled in by*		Hirohito Shimazu							
Date*		2023/9/22							