

## **FAFB Topics of Interest\***

Name of the country	Kazakhstan

Research topic	Application of culture of cells of human fibroblasts combined with		
	•	s for curing the burns, wounds and trophic ulcers	
Main representative of	Name of scientist	Kaulambayeva Marzhan	
the topic in the	Institution	Antigen RPE	
country	Contact data	+7 701 7398356, +7(727)3 89 04 68,	
		marzan61z@mail.ru	
Results related to the	It has been separated the diploid strain of fetal human fibroblasts.		
topic achieved by the	The cultural and	morphologic properties of that strain have been	
country's scientists	studied. It has been created the low temperature conservation bank. The		
		etal human fibroblasts is described and deposited in	
	Republican Collection of Microorganisms and Cell Cultures. It has been		
	made the experimental study of use of diploid strain and collagen		
	membranes of fetal human fibroblast for curing the bone defects and		
	_		
	parodontosis. The technology of collagen production from the cattle		
	calves' tendons and skin has been developed. The production of		
	collagen membran	es and tubes is implemented.	
International contacts			
in the topic's area	<u>No</u>		
Why is the topic	Human fibro	oblasts and collagen medicals may be used for curing	
important for the	the burns, wounds and trophic ulcers. Application of fibroblast cells and		
country?	collagen leads to	regeneration of the skin and avoids the healing scar	
	tissue forming.	Thus, developing and implementation in clinical	
		ods of cell technology and tissue engineering for	
	1 -	lefects is a very important factor for improving the	
	population health.	are the second of the second o	
Does this topic match	1 1	of human fibroblasts and bone collagen for curing	
the national S&T	the burns, wounds and trophic ulcers as well as further development of		
	cell technologies and tissue engineering in medicine corresponds to		
priorities/strategy?	_	<u> </u>	
	National scientific	and technical priorities of the country.	

<sup>\*</sup>topics in the area of food, agriculture, fisheries and biotechnology which can be of mutual interest for the European Union and the country



## Research from Academia and Industry - Profile form

Name of the country	Kazakhstan

Research topic			
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	collagen for curing the bone defects.		
Main representative of	Name of scientist	Kaulambayeva Marzhan	
the topic in the country	Institution	Antigen RPE	
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Results related to the			
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country's scientists	_	hologic properties of that strain have been studied. It	
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	strain of fetal human fibroblasts is described and deposited in		
	Republican Collection of Microorganisms and Cell Cultures. It has been		
		nental study of use of diploid strain of fetal human	
		lagen for curing the bone defects and parodontosis.	
	The technology of collagen production from the cattle bone tissues has		
International contacts in	been developed. The production of collagen is implemented		
	No		
the topic's area Why is the topic		coblects and collegen medicals may be used for auring	
	Human fibroblasts and collagen medicals may be used for curing the bone defects caused by traumas, destructive and oncological		
country?		nes. Application of fibroblast cells and collagen leads	
country.		of the bone tissue on the place of defect. Thus,	
	developing and implementation in clinical practice the methods of cell		
	technology and tissue engineering for curing the bone defects is a very		
	important factor for improving the population health.		
Does this topic match	Application of human fibroblasts and bone collagen for curing		
the national S&T	* * *	as well as further development of cell technologies	
priorities/strategy?		ering in medicine corresponds to National scientific	
		rities of the country.	
		•	



## Research from Academia and Industry - Profile form

Name of the country	Kazakhstan

Research topic	Improvement and development of the methods of selective		
	separation of mesenchymal stem cells into cardiomiocytes in vitro for		
	curing the cardiac insufficiency.		
Main representative of	Name of scientist	Kaulambayeva Marzhan	
the topic in the country	Institution	Antigen RPE	
	Contact data	+7 701 7398356, +7(727)3 89 04 68,	
		marzan61z@mail.ru	
Results related to the	Separation,	cultivation, cryoconservation and phenotyping of	
topic achieved by the	cord blood and l	oone marrow stem cells according to international	
country's scientists	protocols. Establis	shing the bank of stem cells of cord blood and bone	
	-	ation with Scientific Center of Gynecology, Obstetrics	
	and Perinatology. Separation of cultures of mesenchymal stem cells		
	,		
	with osteogenic differentiation. Experimental and clinical tests proving of use the stem cells for curing the bone defects and parodontosis have		
	been made.		
International contacts in	No		
the topic's area	110		
Why is the topic	Invalidity a	and death levels caused by cardiac system is the most	
_		esent time in Kazakhstan. The selective separation of	
country?	mesenchymal human stem cells into cardiomiocytes allows proving		
<i>y</i> .	both experimentally and clinically the application of cardiomiocytes		
		g the cardiac insufficieny. Thus, development and	
	implementation into clinic practice the methods of cell technologies for		
	_	irrhosis is very important for the country.	
Does this topic match			
the national S&T			
priorities/strategy?	development of cell technologies in medicine corresponds to scientific		
	and technical prior	rities of the country.	



## Research from Academia and Industry - Profile form

Name of the country	Kazakhstan
	Kazaklistali

Research topic	Improvement and development of the methods of selective		
	separation of cord blood and bone marrow stem cells into hepatocytes		
	in vitro for curing the hepatocirrhosis.		
Main representative of	Name of scientist	Kaulambayeva Marzhan	
the topic in the country	Institution	Antigen RPE	
	Contact data	+7 701 7398356, +7(727)3 89 04 68,	
		marzan61z@mail.ru	
Results related to the	Separation,	cultivation, cryoconservation and phenotyping of	
topic achieved by the	cord blood and b	oone marrow stem cells according to international	
country's scientists	protocols. Establis	shing the bank of stem cells of cord blood and bone	
	-	ation with Scientific Center of Gynecology, Obstetrics	
	and Perinatology. Separation of cultures of mesenchymal stem cells		
		-	
	· ·	ifferentiation. Experimental and clinical tests proving	
		lls for curing the bone defects and parodontosis have	
	been made.		
International contacts in	NT-		
the topic's area	<u>No</u>		
Why is the topic	One of the	most promising ways of curing the hepatocirrhosis is	
important for the		technologies. The selective separation of human stem	
country?		nanipulations is one of the most promising directions	
country.		iotechnology. The selective separation of human stem	
	cells into hepatocytes allows proving both experimentally and clinically		
	the application of hepatocytes cultures in curing the hepatocirrhosis.		
	Thus, development and implementation into clinic practice the methods		
	of cell technologies for curing the hepatocirrhosis is very important for		
	the country.	S	
Does this topic match	•	paration of cord blood and bone marrow stem cells	
the national S&T		in vitro for curing the hepatocirrhosis and further	
priorities/strategy?	application in medicine corresponds to scientific and technical priorities		
	of the country.		