

## Selected List of MBRI's Intellectual Property Coverage in Key Foreign Countries

	Patents	Indications/ Application	Country	
			Issued	Filed
<b>Recombinant Proteins</b>	cDNA of direct-acting fibrinolytic serine protease	Thrombolytic & hemostatic	US, KR	
	Variant of C6 .beta.-chemokine leukotactin-1(shLkn-1) with enhanced biological activity	Anti-cancer		US, KR
	Recombinant expression vector of human parathyroid hormone	Osteoporosis	US, JP, AU, CN, KR	CA, EP
	Novel detoxified mutants of Escherichia coli heat-labile enterotoxin	Vaccines	EP, KR	
	A novel angiogenesis inhibitor	Anti-angiogenesis	US, AU, CN, KR	EP, JP, CA
	Expression vector using for animal cell	Rec. protein expression	KR	US, EP, CN, JP
<b>Small Molecules &amp; Peptides</b>	Use of rosmarinic acid and derivatives thereof as an immunosuppressant or an inhibitor of SH2-mediated processes	Rheumatoid arthritis	US	EP, JP, CN, KR
	Derivatives of hydroxyl, A method for preparing thereof and Their pharmaceutical composition	Rheumatoid arthritis		US, EP, JP, CN, KR
	Antibiotic peptides	Antibiotics	US, KR	
<b>Others</b>	Liposomes comprising peptide antigens derived from X protein of hepatitis B virus	Hepatitis B virus	US, EP, RU, KR	
	Published PCT Patents	Indications/ Application	Publication No.	
	Recombinant expression vector of human parathyroid hormone using phosphoribulokinase as a fusion partner	Osteoporosis	WO9905277	
	Expression vector using for animal cell	Rec. protein expression	WO0214525	

<b>Recombinant Proteins</b>	A novel angiogenesis inhibitor	Anti-angiogenesis	WO0119868
	Gene-therapeutic agent for anticancer comprising human apolipoprotein(a) kringles	Anti-cancer	
	Anticancer agent comprising LK8 protein as an active ingredient	Anti-cancer & anti-metastasis	WO073730
<b>Vaccines &amp; Diagnostics</b>	Gene expression system for mass production of hepatitis C viral RNA-dependent RNA polymerase and enzyme assay using fusion protein expressed therefrom	Hepatitis C virus	WO0210396
	A novel gene encoding an outer membrane protein of Helicobacter pylori and a recombinant microorganism expressing the same	H. pylori-associated diseases	WO9728264
<b>Small Molecules &amp; Peptides</b>	Derivatives of hydroxyl, A method for preparing thereof and Their pharmaceutical composition	Rheumatoid arthritis	WO089405
	Pharmaceutical composition comprising hydroxyphenyl derivatives of rosmarinic acid for anticancer	Anti-cancer	
	Novel antibiotic peptides	Antibiotics	WO9702286
<b>Others</b>	Liposomes comprising peptide antigens derived from X protein of hepatitis B virus	Hepatitis B virus	WO9936434