

**Regional Project Concept Template (Category A)**

<b>Region:</b>	<b>RCA (ASIA)</b>		
<b>Regional / Cooperative agreement (if any)</b>		Priority no. given by regional/cooperative agreement (for concepts proposed under the auspices of regional cooperative agreements)	
<b>Title:</b>	<b>Synthesis of Radiolabelled Affibody molecules use as Diagnostic and Therapeutic Radiopharmaceuticals.</b>		
<b>Field of activity</b>	<b>Radiopharmacy.</b>		
<b>Names and contact Details of project counterparts and counterpart institutions(starting with the main counterpart)</b>	<b>Naseer Ahmed (Radiopharmacist).          Nuclear Medicine, Oncology and Radiotherapy Institute (NORI) PAEC,          G-8/3 Hanna Road Islamabd.          Dr. Shazia Fatima          PMO.,NORI          Dr. Javaid Irfan          Director.          Nuclear Medicine, Oncology and Radiotherapy Institute (NORI) PAEC</b>		
<b>Analysis of regional Gap/problems/needs</b>	<b>Lack of therapeutic application of Nuclear Medicine in the region, high cost for the purchase of NM affect the patients treatment, need to synthesis the therapeutic radiopharmaceutical for early treatment.</b>		
<b>Why should be a regional project?</b>	<b>Accessories like equipment &amp; chemicals, supportive radionuclide is not available at the national level.</b>		
<b>Stakeholder analysis and partnership.</b>			
<b>Overall object(or developmental objective)</b>	<b>To design and evaluate a novel platform for labelling of protein molecules , enabling either by recombinat or synthatic production and site specific labelling with Radiometal &amp; Radiohalogen.</b>		
<b>Analysis of objective</b>	<b>Synthesis of protein mol. – addition of Chealator- labeling with Radiometal/Radiohalogen- QC of radiopharmaceutical-Animal studies- Administration to the Patient-study the therapeutic effect (evaluation by Gamma Camera.</b>		
<b>Role of nuclear technology and the IAEA</b>	<b>Therapeutic Radionuclide (Yettrium-90, Lu-177)          Diagnostic RadioNuclide (Indium-111, Tc-99m).          Provision of Nucleotides.</b>		

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<b>Requirements for Participation.</b>	<b>Financial Participation for procurement of equipments and Chemicals.</b>			
<b>Participating Member states</b>	<b>Country: Turkey/U.K      Role: Provision of Radionuclides.</b> <b>Country: US/CANADA      Role: Provision of Chealator, Protein precursors</b> <b>Country: Japan              Role: Provision of Instrument.</b>			
<b>Funding and project budget.</b>	Provide an estimate of the total total project costs and the funding expected from each stakeholder.			
		Euro	Comment	
	Govt. cost sharing			
	Counterpart Institution (s)	PINSTECH NIBGE	Provision of Radionuclide	
	Other partners			
	IAEA Technical cooperation Fund (TCF)	Fellowships/ Scientific Vists/ training Courses /Workshops	1250 Euro	
		Experts		
		Equipment & chemicals	10,000 Euro	
<b>Total:</b>	<b>11250 Euro</b>			