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**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).</b> <b>Nuclear Medicine, Oncology and Radiotherapy Institute (NORI) PAEC,</b> <b>G-8/3 Hanna Road Islamabd.</b> <b>Dr. Shazia Fatima</b> <b>PMO.,NORI</b> <b>Dr. Javaid Irfan</b> <b>Director.</b> <b>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)</b> <b>Diagnostic RadioNuclide (Indium-111, Tc-99m).</b> <b>Provision of Nucleotides.</b>		

<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.		
		<b>Euro</b>	<b>Comment</b>
	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>