

Aga Khan University- FHS-PhD Programme
List of funded Available projects for potential PhD Candidates

Clinical Sciences Stream						
Sr. No.	Name, Email address and Department of Primary Supervisor	Supervisory Team	Title of Project/ Source of funding	Research Funding available	Funds available until	Key Objectives of research project
1	Dr Yawer Saeed yawer.saeed@aku.edu Asst. Prof. Dept. of Medicine	Drs Laila Ladak, Dr Mehnaz Atiq, Saleem Akhtar, Waris Ahmed and Krishnakumar Nair	Arrhythmias in Patients with congenital heart disease in Pakistan: Association with Outcomes and Challenges in providing appropriate arrhythmia care	PKR 1.5 million	2025	<p>The key objectives include:</p> <ul style="list-style-type: none"> To investigate the prevalence and characteristics of arrhythmias in patients with CHD To compare the outcomes of repaired vs unrepaired patients with or without arrhythmia To identify and evaluate the challenges faced by healthcare providers in providing arrhythmia care in CHD patients.
Pre-requisites of PhD candidate applicants (graduate qualification requirement): MBBS and FCPS / FRCP or equivalent degree						
2	Dr Fawad Ur Rehman rehman.fawad@aku.edu Assistant Professor, Centre for Regenerative Medicine and Stem Cells Research/BBS	Drs Afsar Mian, Syed Ather Enam, Irfan Khan and Meng Zheng	CRISPR-Cas9 Nanotherapy for IDH1 and IDH2 Mutations in Brain Cancer	USD 10,000 per annum	December 2028	<p>The key objectives are to:</p> <ul style="list-style-type: none"> Design a CRISPR-Cas9 gene editing system for IDH1 and IDH2 via in silico studies by applying AI tools. Fabricate and characterize nanoscale materials for the nanotherapy of GBM. Evaluate the nanotherapy targeting ability of GBM cells across the BBB. Evaluate the CRISPR-Cas9 loaded nanomedicine's anticancer effects. Prepare GBM 3D spheroids and in vivo PDX models to evaluate nanotherapy effects
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