



University of Hyderabad

Department of Biochemistry
School of Life Sciences

No.UH/SLS/DOB/SK/2025/02

Date: 5th March 2025

Applications are invited from eligible candidates (Indian Nationals only) on a plain paper or in the attached format (Form B) for the following position in the ICMR funded research project **"Identifying druggable regulators of vascular $\alpha 1D$ adrenergic receptor expression by proteomic analysis of genetically tagged $\alpha 1D$ -AR for therapeutic management of blood pressure"**

(1)	Name of the Post	Project Technical Support III
(2)	Number of positions	One (1)
(3)	Fellowship/Honorarium/ Stipend in Rs.	Rs 28000 (Consolidated excluding HRA) per month
(4)	HRA if applicable	30 % per month (+Rs 8400)
(5)	Tenure of the Post	1 year (can be extended for further period subject to review)
(6)	Essential Qualifications	Masters in any stream of life sciences with minimum 60% marks. OR Bachelors plus 3 years Lab Research Experience.
(7)	Desirable Qualifications	Experience in molecular biology and mammalian cell culture.
(8)	Experience	0 - 2 years
(9)	Age Limit	Less than 35 years

- (1) Applicants should note that the appointment to be made is purely temporary and they have no right for claiming for any regular appointment in the University.
- (2) Applicants selected for the post should be committed towards achieving the projects' goal. Insufficient progress/commitment can lead to termination of the position at any time with a one month notice period.
- (3) No TA/DA will be paid for attending the written test / skill test or at the time of joining.
- (4) Self-Attested copies of all certificates in support of the information furnished in the application should be enclosed.
- (5) Last date for receipt of filled-in applications is: **25th March 2025**
- (6) Hard-copy of duly filled application along with essential documents should be sent to the following person by in-person/registered post/speed post/courier.

Dr Shashi Kiran

Room no. – F10

School of Life Sciences, University of Hyderabad

Gachibowli, Pin Code: 500 046

- (6) The University of Hyderabad will not be responsible for any postal delay
- (7) Only the candidates selected for an interview will be intimated through email on/before **25th March 2025** along with information such as interview date, time and mode (on-line/off-line).

To

1. Web Master, UoH - with a request to place in the University website
2. All Notice Boards in the University of Hyderabad
3. All reputed research institutions in related area of the Project—for display on notice boards

Name & Signature of the Project Investigator
Dr SHASHI KIRAN
Assistant Professor
Department of Biochemistry
School of Life Sciences
University of Hyderabad
Hyderabad-500 046. (T.S.)

Title: Identifying druggable regulators of vascular *alpha*1D adrenergic receptor expression by proteomic analysis of genetically tagged α 1D-AR for therapeutic management of blood pressure.

1. SUMMARY (up to 250 words):

- I. Preface:** Blood pressure related problems (hypertension and acute hypotension) affect millions of people in world and are major contributor to death in patients.
- II. Rationale:** (1) α 1D-AR is elevated in blood vessels during hypertension and downregulated during hypotension. (2) Currently, alpha-adrenergic blockers, used as 2nd line as anti-hypertensive agents block all α -receptors causing several side effects. (3) In acute hypotension α 1D-AR are targeted with epinephrine as 1st line treatment but their downregulation in such conditions makes the treatment ineffective.
- III. Objectives:** (1) Identification of critical regulators α 1D-AR upregulation in hypertension and downregulation in hypotension by identifying interaction repertoire of genetically tagged (2S2F) α 1D-AR (O1 & O2) (2) Validation and characterization of the identified regulators for control of blood pressure in animal models (O3).
- IV. Methods:** Cell lines that express endogenously 2S2F-tagged α 1D-AR will be established. Their regulators will be then identified by Flag-Strep based tandem affinity purification and Mass Spectrometry. The role of the identified protein(s) in regulation of α 1D-AR expressions and thereby blood pressure will be further validated using aortic smooth muscle cell line and animal model of sepsis.
- V. Novelty:** Endogenous tagging will allow identifying and validating the genuine regulators of α 1D-AR. Studying the interactors of the endogenous protein will allow to distinguish direct interactors from indirect ones. The confidence on such regulators will be high as the artefacts of exogenous overexpression proteins are not induced.
- VI. Expected Outcome:** Identification of druggable targets that can serve as adjunct/alternative agents for clinical management of blood pressure.

You may send the PDF of completed application along with required documents to following email address:

shashi_sls@uohyd.ac.in

Please don't use bots for submitting the application. They will be automatically deleted.

Application for Position in the Project

UNIVERSITY OF HYDERABAD P.O. Central University Campus, Gachibowli Hyderabad 500 046, Telangana, INDIA		
Post Applied for: Notification No & Date:		Paste Recent Photograph

Personal Details:			Proof enclosed Sl. No.
1	Full Name (as in SSC certificate)		
2	Gender (Male / Female)		
3	Date of Birth & Age (<i>as on last date of the Notification</i>)		
4	Father's Name		
5	Nationality		
6	Community (General / OBC / SC / ST / PWD)		
7	Married / Unmarried		

Candidate's Name & Address for correspondence :		
	Mailing address	Permanent address
Name		
Address with PIN Code		
Email:		
Phone No.		
Mobile No.		
Fax No.		

Present position held, if any:			
Name of the University / Institution	Name of the Position and Salary Details	Nature of Job	Proof encl. no.

Educational Qualifications							
Name of the Examination passed	Name of the Board / University	Month & Year passed	Division /Class	% of Marks	CGPA (if grading is applicable)	Subjects studied	Proof Encl. No.
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)

Experience (Including present position / employment)						
Designation & scale of pay	Name & Address of the Employer	Period of Experience			Nature of work	Proof encl. Sl.no.
		From date	To date	No. of years/ Months/days		
(a)	(b)	(c)	(d)	(e)	(f)	(g)

Names & complete postal addresses of 2 referees :			
Email:		Email:	
Phone (Landline) with STD Code :		Phone (Landline) with STD Code :	
Mobile Ph:		Mobile Ph:	

Declaration: I hereby declare that all the entries made by me in this application are true to the best of my knowledge and belief. If anything is found false at any stage, my candidature may be canceled without assigning any reason thereof.

Date: _____

Signature of the applicant