



Advertisement No. 35/2023

Applications are invited from suitable candidate for filling up the following position at National Institute of Animal Biotechnology (NIAB), Hyderabad, under Extramural Research Grant from Indian Council of Medical Research.

Post Code: Project Research Scientist – I (non-medical); (1 Positions)

Project Title: Animal milk derived engineered exosomes as nanocarriers for oral delivery of recombinant human factor VII with extended bioavailability for cost-effective treatment of Hemophilia A

PI: Dr. Nirmalya Ganguli

Tenable upto: October 2024. Likely to be extended based on the performance.

Eligibility:

For Project Research Scientist – I (non-medical) (1 Positions):

1st Class Post Graduate/Masters Degree in Life Sciences (Biotechnology, Biochemistry, Microbiology, Etc.) including the Integrated PG degree from a recognized university

or

2nd Class Post Graduate/Masters Degree in Life Sciences (Biotechnology, Biochemistry, Microbiology, Etc.) including the Integrated PG degree from a recognized university with Ph. D degree (Ph. D must be awarded).

Candidate with experience in any of the following will be preferred.

Experience:

- (i) Isolation and culture of mice/goat oocyte. In-vitro fertilisation of mice/goat oocyte.
- (ii) Retrieval of mice embryo followed by microinjection of embryo. Embryo transfer in pseudo pregnant female mice.
- (iii) Handling and experimentation on rodent and goat model.
- (iv) Generation of expression vector for genome editing (knock-out and knock-in) using CRISP – Cas9 tools,
- (v) Regulation of gene expression by shRNA mediated knock down,
- (vi) Cell sorting by FACS/MACS, single cell sorting and generation of cell lines,
- (vii) Isolation and culture of Stem cells, transfection and maintenance of stem cells, generation of iPSC, isolation and culture of cells from different tissue sources,
- (viii) Various molecular biology techniques, like RT-PCR, QRT-PCR, Immuno histochemistry, Immune cytochemistry, Droplet Digital PCR, protein purification and western blot analysis,
- (ix) Generation of expression vector by molecular cloning and its invitro characterisation, culture and maintenance of cell lines,

Fellowship amount: Rs. 56000/- PM + HRA as per the ICMR guidelines dated 1-08-2023.

Age: 35 years (Relaxation is admissible in case of SC/ST/OBC candidates as per Government instructions).

Applications are to be filled ONLINE. Online link for submission of application is available from 31-10-2023 and the last date is 20-11-2023 Candidates must fill online application form at **www.niab.res.in** Candidates are advised to fill the online application form in sufficient time before the last date to avoid last minute technical issues. No need to send hard copy. Interim enquiries will not be entertained. Suitable candidates will be screened, intimated through email and interviewed by duly constituted selection committee online through zoom meeting/google meet/skype. Original documents in support of date of birth, educational qualifications, experience certificates are required to be submitted at time of joining.