

position description

Date: January 12, 2021

Title: Postdoctoral Scholar

Department: Genetics and Genome Sciences

School: Medicine

Location: BRB

Please send an electronic letter of application, quoting the reference CWRU/AH1/2021, Curriculum Vitae and contact information of 3 referees to: jobsview@case.edu. Hiring is contingent upon eligibility to work in the United States.

“Editing of the CFTR locus: the impact on chromatin architecture and gene expression”

The goals of this collaborative research program are to repair mutations in the cystic fibrosis transmembrane conductance regulator (CFTR) gene, by gene editing.

Errors in CFTR are associated with the common inherited disorder cystic fibrosis. CFTR has a complex pattern of tissue specific and temporal regulation (reviewed in Swahn and Harris, *Genes* 2019, 10, 235; doi:10.3390/genes10030235). The project will involve

1) CRISPR/Cas9 protocols to manipulate cis-regulatory elements in the CFTR locus and 2) Analysis of the impact of therapeutic gene editing on CFTR locus architecture and gene expression.

Successful applicants for this CFF funded program will have a strong record of accomplishment as shown by publications as a graduate student and/or postdoc, be highly motivated and have a passion for functional genomics research.

Expertise in one or more of the following areas is required: CRISPR/Cas9 technologies; functional genomics protocols including 4C-seq, ChIP-seq, Cut&Run, ATAC-seq, RNA-seq and the use of relevant bioinformatic pipelines.

Familiarity with general techniques of molecular biology and mammalian cell biology is essential. We are part of a vibrant and interactive research community at Case Western Reserve University and occupy excellent, modern laboratory space.

DIVERSITY STATEMENT: In employment, as in education, Case Western Reserve University is committed to Equal Opportunity and Diversity. Women, veterans, members of underrepresented minority groups, and individuals with disabilities are encouraged to apply.

REASONABLE ACCOMMODATIONS: Case Western Reserve University provides reasonable accommodations to applicants with disabilities. Applicants requiring a reasonable accommodation for any part of the application and hiring process should contact the Office of Inclusion, Diversity and Equal Opportunity at 216-368-8877 to request a reasonable accommodation. Determinations as to granting reasonable accommodations for any applicant will be made on a case-by-case basis.