

Senior Scientist

Creation – Permanent contract / Full-time position / Based in Paris

The Company

EG427 is an early-stage gene therapy platform biotechnology company that is leveraging non-replicating HSV-1 based viral vectors to develop a novel class of innovative therapeutics. Our initial focus on peripheral nervous system (PNS) disorders is based on the unmet need coupled with the high potential of HSV-1 vectors to provide major clinical benefit in these areas. With headquarter in Paris, our global footprint gives us the prospect to partner with leading organizations around the world, allowing us to deepen our understanding of disease mechanisms and progression.

Our team was built with deep expertise in gene therapy development, allowing us to efficiently advance our programs from pre-clinical to clinical development. Our experience in viral vector design, optimization and gene therapy manufacturing of herpesvirus viral vectors give us an alternative approach to developing gene therapies. Additionally, we are developing proprietary technology to potentially enable innovative gene therapy treatments in variety of indications.

The position

Reporting to the VP Research, the **Senior Scientist in Gene Therapy** will be responsible for developing and advancing EG427's gene delivery platform with a focus on engineering novel HSV-1 vectors. The engineering of recombinant HSV-1 vectors will involve BAC gene engineering technologies, promoter selection strategies as well as biochemical and cellular characterization of produced vectors. The ideal candidate will have advanced expertise in the modification of large genomes using state-of-the art technologies, viral vector processing and the characterization of produced vectors in biochemical and cellular assays. This role offers ample opportunity for learning and growth in a biotech company that develops novel gene therapy solutions.

Applications will be pre-screened and not all applicants may be included in the selection process

Candidate interested to apply send its application to info@eg427.com.

EG427 is an equal opportunity employer and values diversity within our company. We do not discriminate in any way. We make hiring decisions based solely on your experience and skills.

April 25, 2022



**PINPOINT
GENE THERAPY**

Senior Scientist

The main responsibilities

- Design, development, and characterization of novel vector constructs strategies to enhance HSV-1 production and tissue tropism
- Perform research experiments using molecular and cell-based assays to support early candidate assessment and subsequent selection
- Develop and apply novel methodologies to analyze nucleic acids expression, protein-DNA/RNA interactions, and epigenetic conformations
- Design and lead cell-based and molecular biology strategies (ddPCR, CRISPR, shRNA or siRNA, mutagenesis) for target validation, high and medium throughput screenings, and MoA studies
- Collaborate cross-functionally with team members to process genomic DNA samples to sequencing data as efficiently as possible
- Small-scale separation and purification operations of HSV-1 viral vectors
- Summarize and present results and future concepts to colleagues in cross-functional team meetings
- Assist in the supervision/mentoring of technicians and research associates
- Create, review, and approve technical documentation, including SOP, QC test methods, and analytical sampling plans

The profile

- PhD in gene therapy, molecular virology, genetics, or molecular biology with several years of laboratory experience
- Prior experience of engineering AAV-or HSV-1 viral vectors to improve gene delivery, virus tropism and protein expression
- Experience in molecular cloning is essential, hands-on experience of techniques for vector design and construction such as BAC engineering, Gibson assembly, and promoter selection for improved target tissue specificity would be a great asset
- Established expertise with molecular and cell biology techniques, including protein expression, Western blot analysis, fluorescence and confocal microscopy, quantitative PCR (real-time q-PCR, ddPCR)
- Direct next-generation sequencing experience and hands-on experience with Oxford Nanopore sequencing platforms is a strong asset
- Hands-on experience designing and utilizing gene editing approaches including CRISPR guide RNA design
- Comprehensive knowledge of literature, methodology, and track record of high calibre scientific accomplishments in the field of gene therapy or molecular biology
- Outstanding communication and presentation skills to work effectively in a multidisciplinary team environment
- Ability to work independently and supervise team members
- Strong organisational talent to plan and prioritise work to meet deadlines
- Outstanding command in English, both spoken and written
- Excellent knowledge of standard software, data analysis, and statistics

