

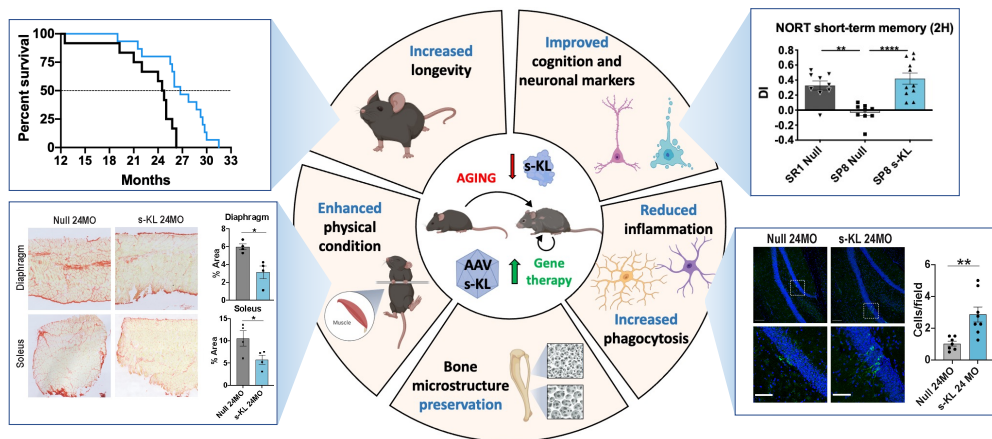
CALL FOR CANDIDATES TO APPLY FOR PRE-DOCTORAL RESEARCH GRANTS (FI) FOR 2025

KLOTHO AGAINST AGING RESEARCH PROJECT

The Gene therapy for diseases involving the central nervous system- TherCNS Research Group at Universitat Autònoma de Barcelona is seeking highly motivated candidates to apply for a pre-doctoral research position for the year 2025. (<https://www.uab.cat/en/incuab/terapia-genica-malalties-sistema-nervios-en>)

Project Summary:

The project focuses on investigating the potential of the Klotho (KL) protein to counteract aging-related cognitive, muscular, and skeletal deficits. The KL protein has been linked to enhanced longevity and healthspan, and this research aims to explore its therapeutic capacity to mitigate age-related diseases and impairments. The successful candidate will be part of a dynamic team focused on developing new therapeutic strategies against age-associated deficits.



Research Areas:

- Bone density and microstructure preservation
- Cognitive decline and neuroprotection
- Longevity promotion
- Muscular sarcopenia prevention

Candidate Requirements:

1. Degree in Life Sciences (Biochemistry, Molecular Biology, Biology, or similar fields).
2. Academic transcript showing a GPA of at least 8 (on a 0-10 scale).

3. The candidate must have completed or be in the process of completing their Master's degree in 2025.
4. Candidates must not have held a Ph.D. contract exceeding twelve months by the beginning of the fellowship (December 2024 to January 2025).
5. Good skills in communication, teamwork, proactivity, characterization, integrity, time management, critical and analytical thinking, precision, and focus.

Necessary Skills and Techniques: Candidates should be familiar or willing to acquire expertise in:

- Viral vectors for gene therapy, and recombinant protein production
- Molecular biology techniques (Western Blot, qPCR, ELISA)
- Proteomics and bioinformatics tools
- *In vitro* cell culture
- *In vivo* experimentation for cognitive and muscular performance
- High-resolution microscopy

Funding Opportunities: The candidate will apply for several competitive grants to secure funding. The research group will provide guidance and mentorship throughout the grant application process.

Application Process: All applications must be sent via email to Joan Roig Soriano at joan.roig.soriano@uab.cat.

For further information, please contact the same email address. We encourage applications from candidates eager to contribute to cutting-edge aging research.

We look forward to receiving your applications!

Deadline: 12/01/2025

Miguel Chillón Rodríguez

Principal Investigator, at the Gene therapy for diseases involving the central nervous system- TherCNS Research Group

Institut de Neurociències

Universitat Autònoma de Barcelona