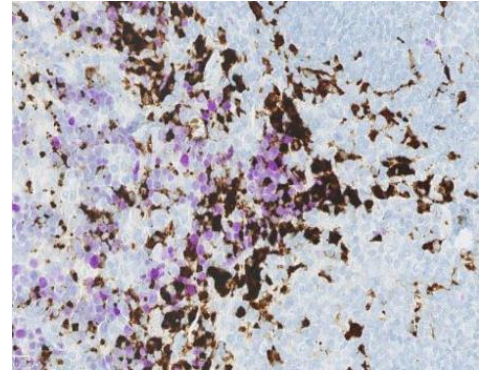


Postdoc position: Metabolism of Aging and Tumorigenesis – investigate how the metabolically aged tissue microenvironment promotes immune evasion and cancer

Are you passionate about **aging research** and **cancer biology**? Do you want to lead the way in understanding how metabolic bottlenecks created by aging promote tumorigenesis and undermine tumor surveillance?

The **Aging and Cancer Lab** at the **Vall d'Hebron Institute of Oncology (VHIO)** in **Barcelona**, Spain, headed by Dr. Mate Maus is inviting applications from ambitious postdoc candidates to join our pioneering team. We are investigating how **aging-associated metabolic bottlenecks** shape the **precancerous tissue microenvironment**, **promote tumorigenesis** and compromise **anti-tumor immunity**. Join us in advancing the next generation of **preventive and therapeutic strategies** to combat cancer.



About the Project

Our lab is uncovering how **aging processes** and **cancer therapies** contribute to **metabolic dysfunction** in cells and tissues, leading to the selection of **precancerous cells** and the **failure of adaptive immune responses**.

- **Study in a translational research environment how aging and cancer therapy** create metabolic bottlenecks and thereby promote the selection of precancerous cells and the failure of adaptive immune cells.
- Leverage **cutting-edge technologies** in metabolism, cancer biology, immunology, and aging research.
- Use **organoids, cell cultures, mouse models**, and **human tissues** to bridge preclinical and clinical oncology.

Why This Opportunity?

- Contribute to high-impact research with **direct implications for cancer prevention** and **immunotherapy**.
- Join a **dynamic international team** at the crossroads of tumor immunology, oncology, and aging research.
- Push the boundaries of **translational oncology**.
- Live and work in **Barcelona**, a vibrant and diverse city with a thriving scientific community.

What We Offer

- A **supportive and diverse environment**, where **English** is the working language.
- **Mentorship and career development opportunities**.
- Access to **state-of-the-art facilities** and the opportunity to work on a project with high visibility.
- A **full-time postdoctoral contract** with a competitive salary based on experience

The ideal candidate:

- Extensive experience with **in vivo mouse models** (essential)
- A **PhD in immunology, metabolism, cancer research, or aging research**
- A **strong publication record**, with at least one first-author paper published or deposited as a preprint
- Experience with **single-cell transcriptomics**, and/or **CRISPR/Cas9 genome editing** (advantageous)
- **Excellent communication skills** in English
- A **creative mindset** and a **team-oriented** approach
- **Curiosity, independence**, and **dedication** to improving outcomes for **cancer patients**

HOW TO APPLY:

To apply, please follow the link [2025-002-01 Postdoc: Metabolism of Aging and Tumorigenesis - VHIO](#)

Learn More About Us: For more information about our research, please visit mauslab.org

Application deadline: April 15, 2025