Osteoclast interactions with the bone microenvironment

Record number : OPR-872

Overview

RESEARCH DIRECTION

Sophie Roux, Professeure - Department of Medicine

INFORMATION

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ADMINISTRATIVE UNIT(S)

Faculté de médecine et des sciences de la santé
Département de médecine
Département d'immunologie et de biologie cellulaire

LEVEL(S)

2e cycle
3e cycle

LOCATION(S)

Campus de la santé

Project Description

The generation of human osteoclasts in culture is essential for the study of bone diseases.

Our study aims to determine the proteins interacting with the surface proteins of human osteoclasts and the associated signalling pathways and functions. The formation of multinucleated osteoclasts and derived cells, as well as bone resorption, allow us to characterize these cells. Modulation of surface and matrix protein expression under different conditions will complete the study.

Because of the heterogeneity of the cells obtained at the end of culture, single-cell technologies will be applied.

Specific requirements:

Motivation, reliability and team spirit

Discipline(s) by sector

Sciences de la santé

Biologie cellulaire, Biologie moléculaire, Rhumatologie

Funding offered

Yes

The last update was on 24 February 2026. The University reserves the right to modify its projects without notice.