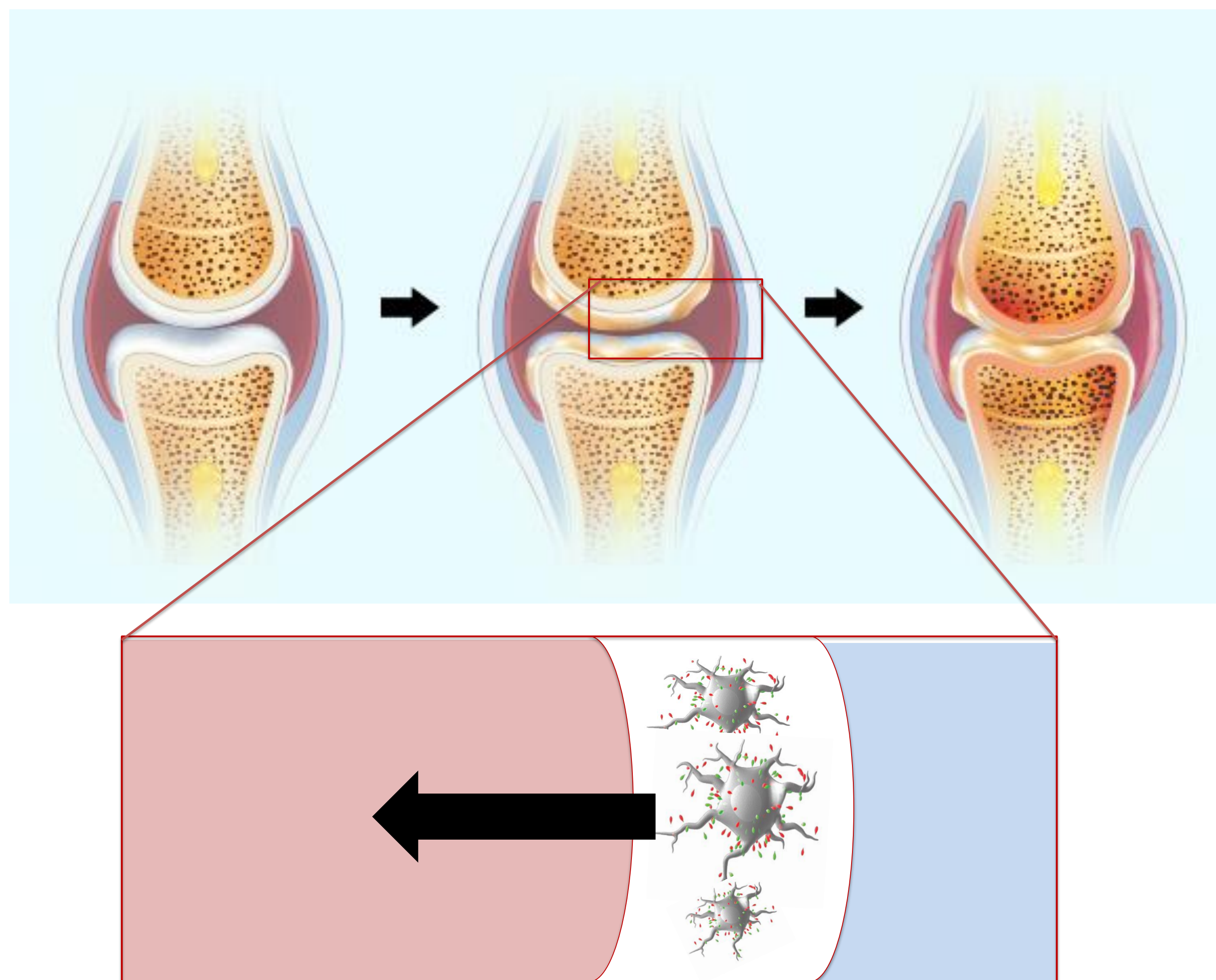
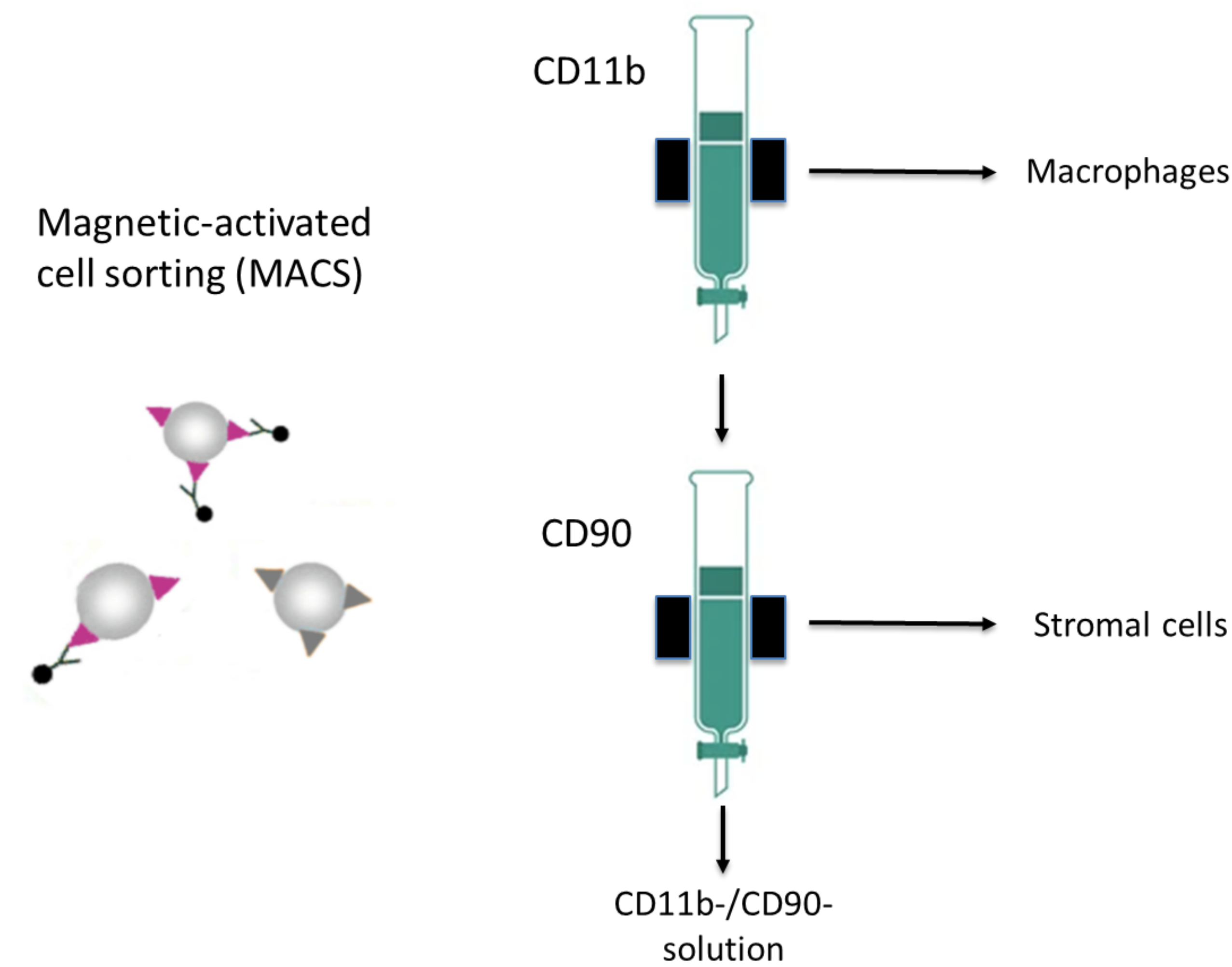
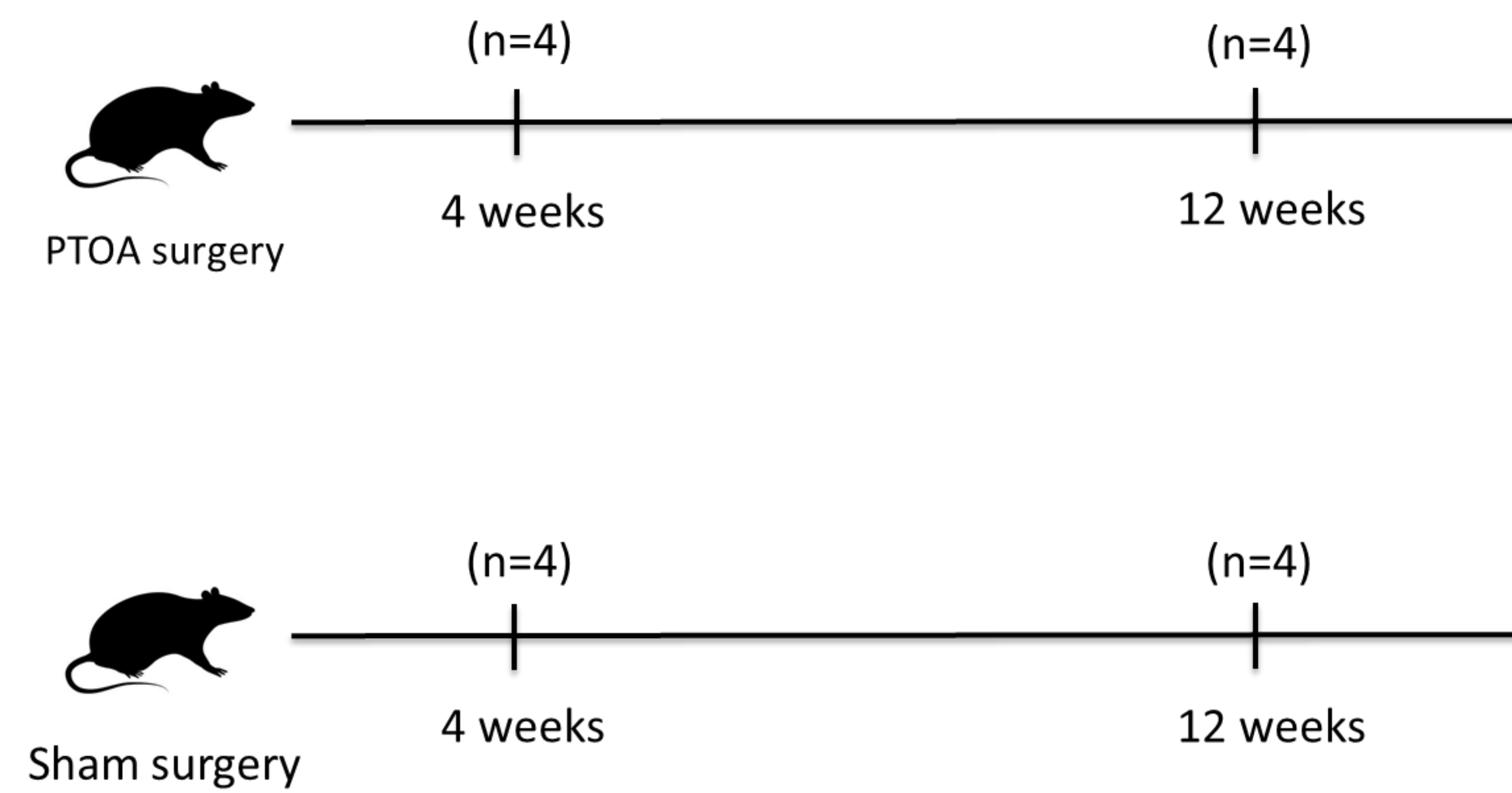


## Introduction

- 20% of Canadians are living with arthritis; the most common form is Osteoarthritis (OA)
- Characterized by cartilage and underlying bone degradation
- Inflammation of the synovium (synovitis) is emerging as a catalyst for the disease
  - Primarily regulated by macrophages
- **Purpose:** Investigate the role of macrophages in OA and their contribution to synovitis

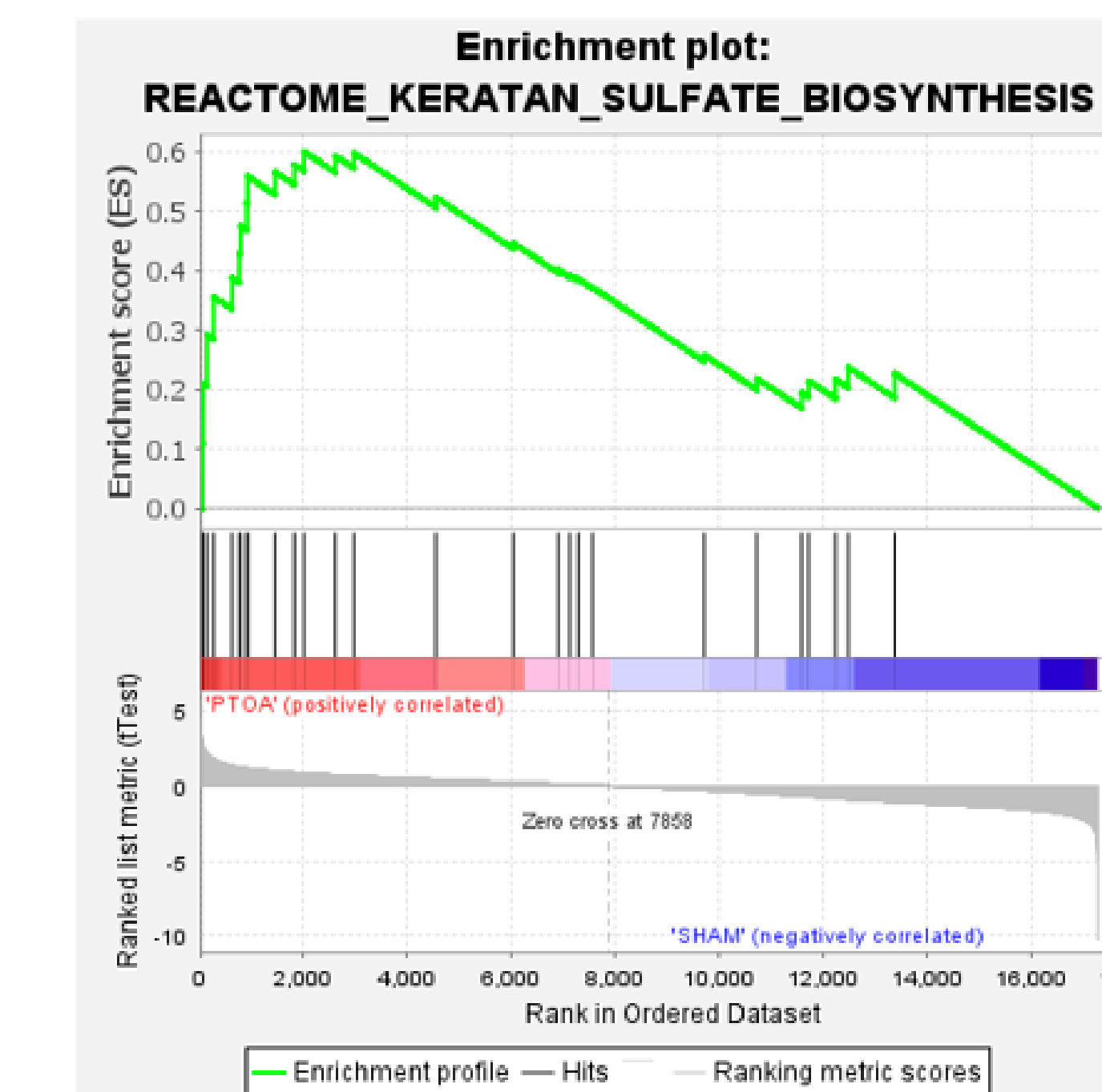
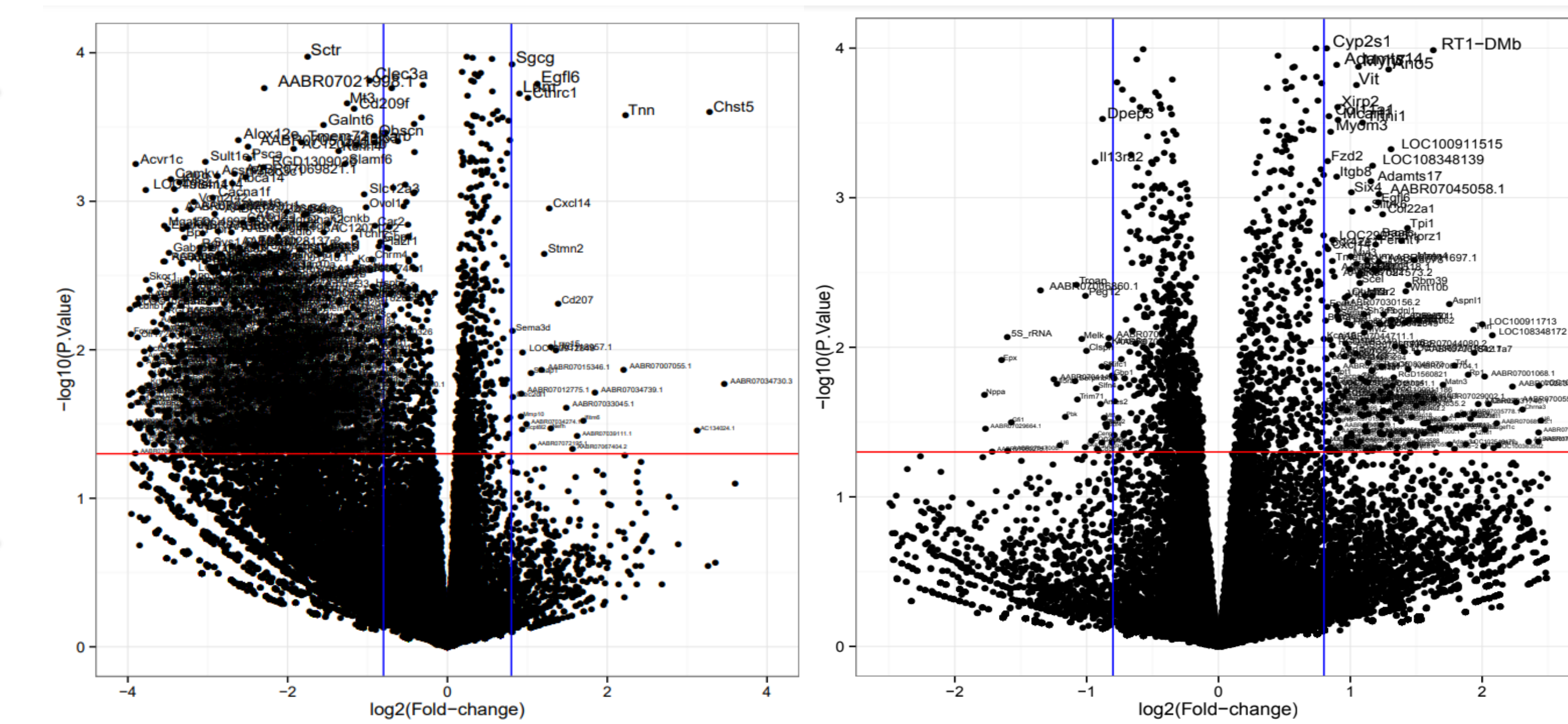


## Methods

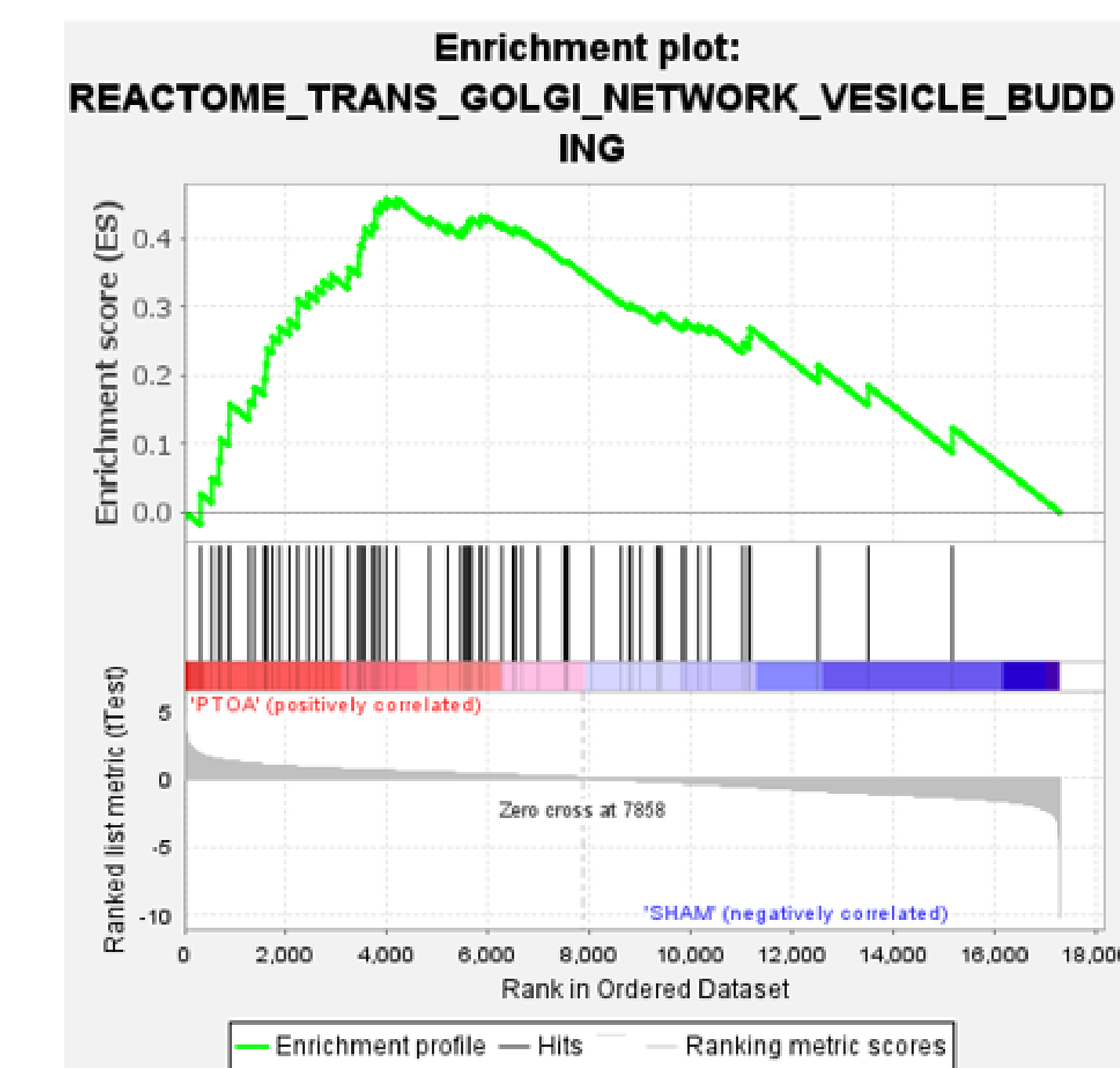


RNA analysis  
(DE genes, GSEA, Leading Edge, etc.)

## Results



NES= 2.223, p= 0.0



NES= 2.199, p= 0.0

## Conclusion

- Increased mobility and migration in early OA; M1 polarization and ECM remodeling in later stages
- Changing role of MAC should influence drug development and delivery