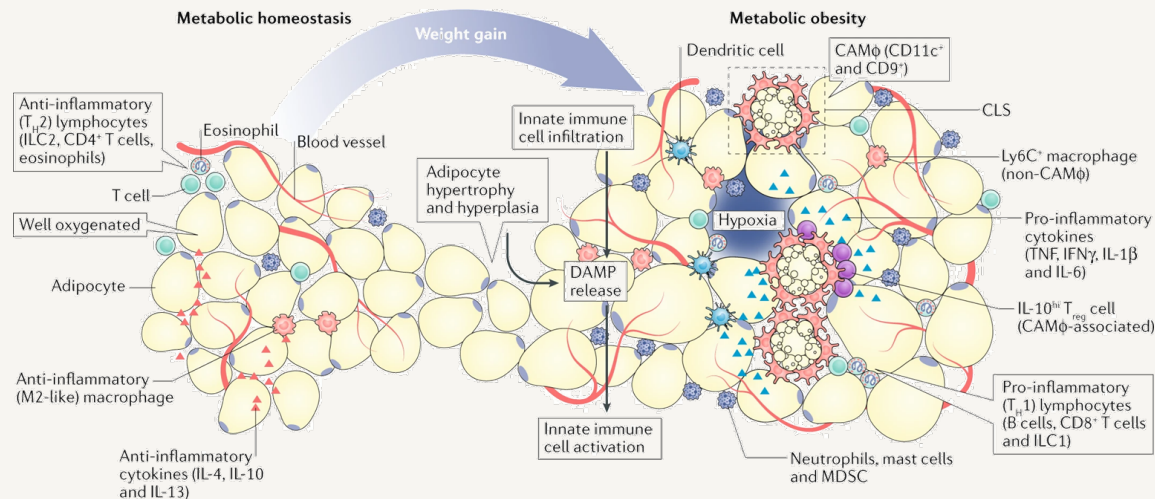


# Chronic inflammation in Obesity

- Inflammatory microenvironment in obesity**

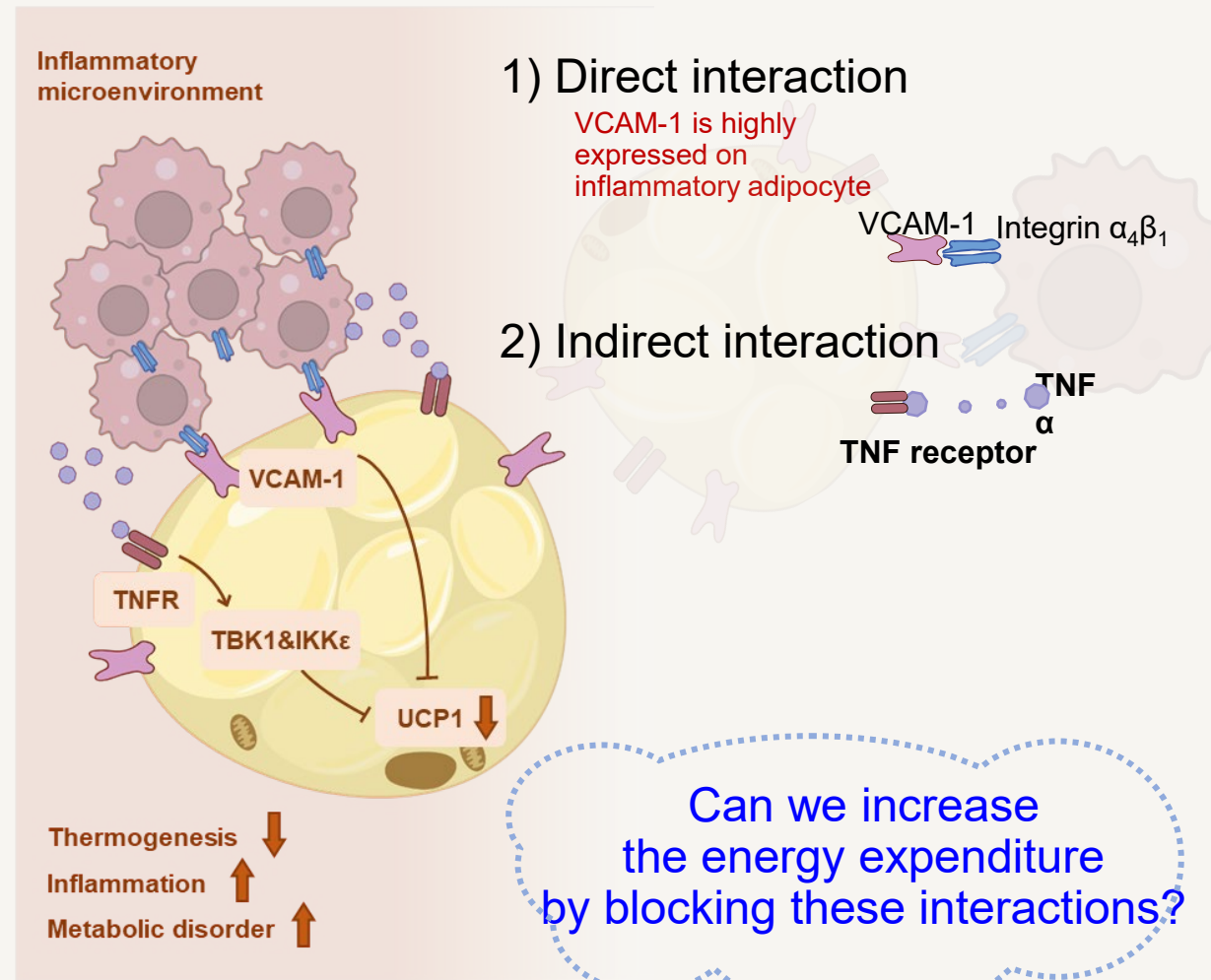


Chronic inflammation decreases the energy expenditure of adipocyte



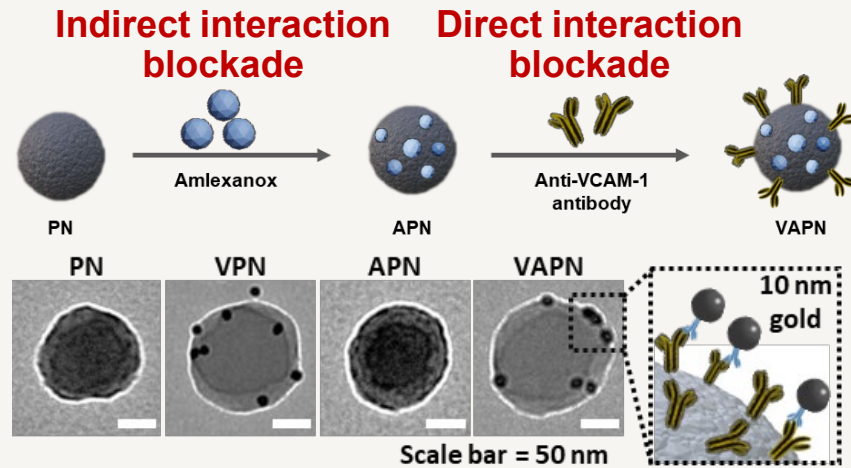
**Interaction between adipocyte and macrophage plays a crucial role in chronic inflammation**

- Interaction between adipocyte - macrophage**

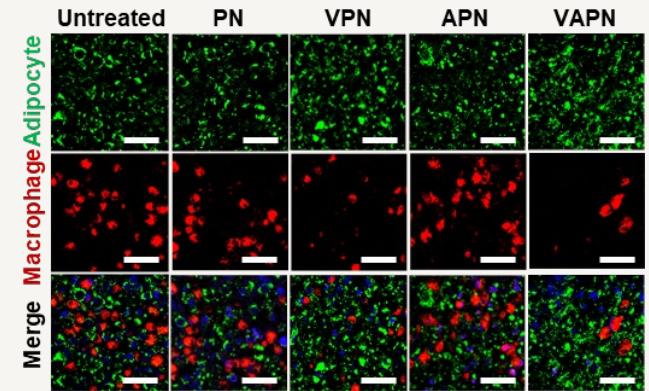
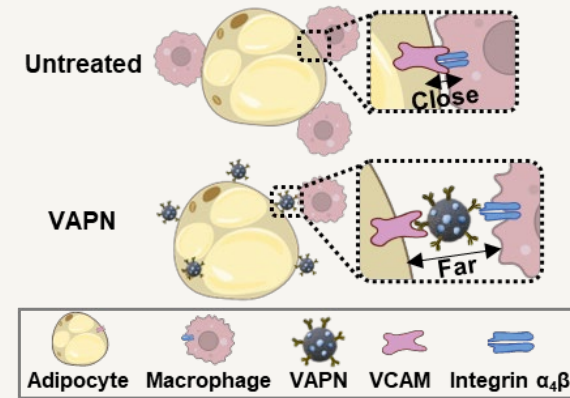


# Anti-inflammatory therapy for obesity treatment

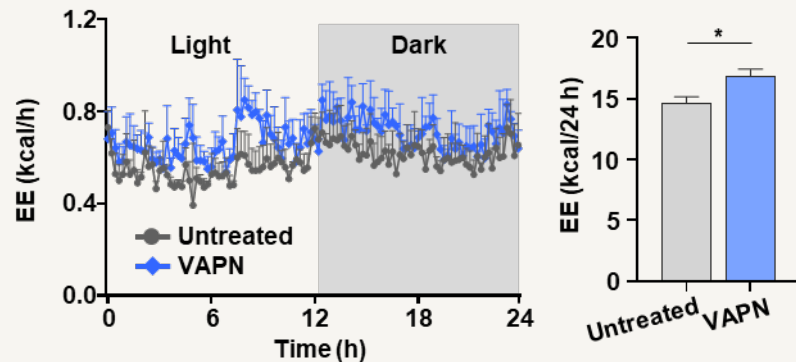
- VAPN design**



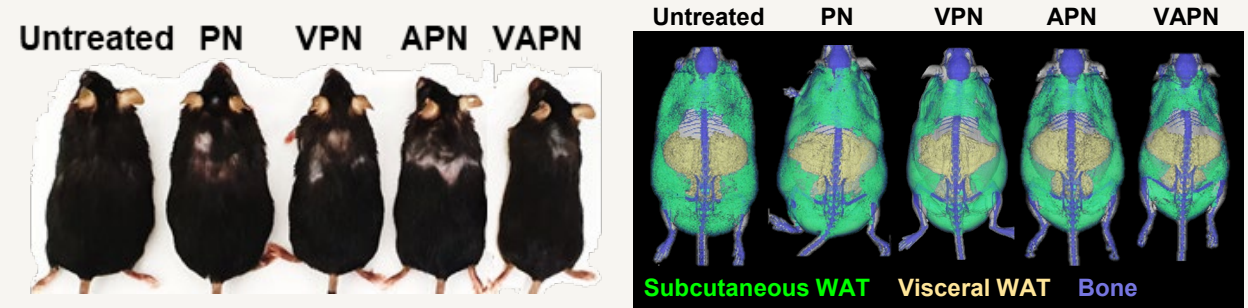
- Blocking the interaction**



- Energy expenditure analysis**

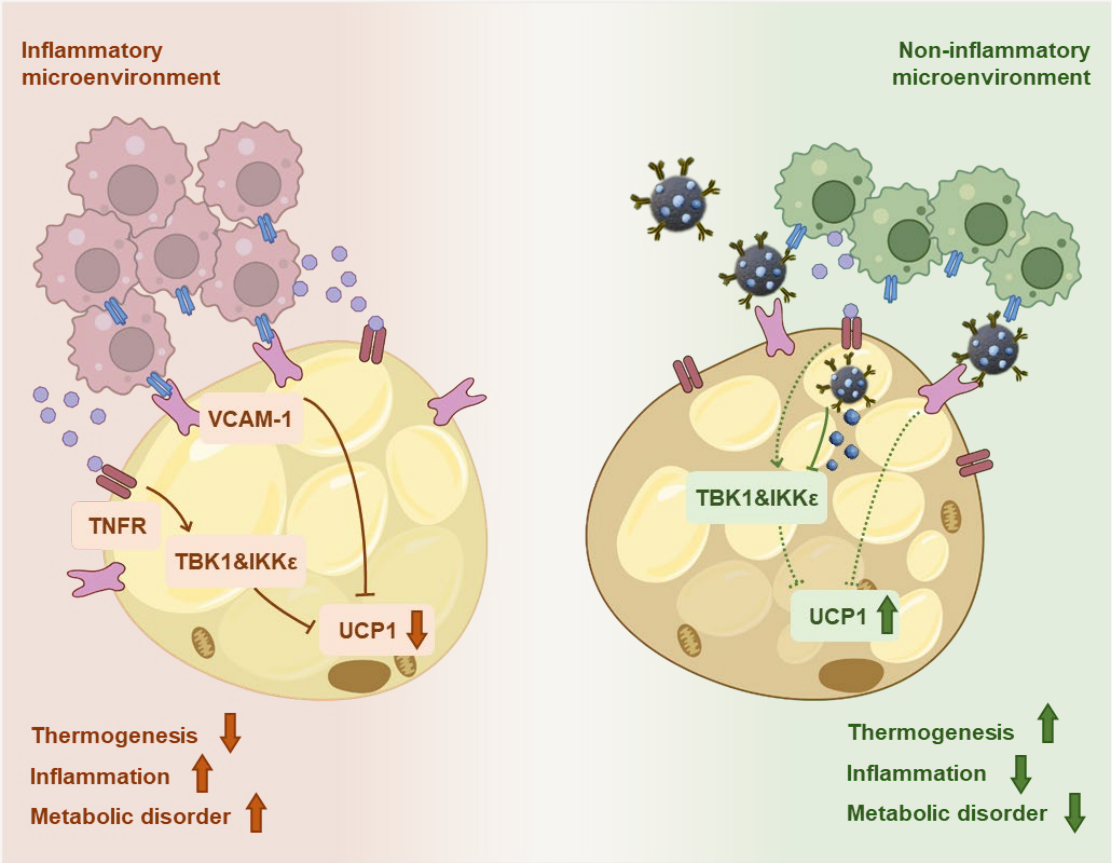


- Weigh loss after VAPN treatment**

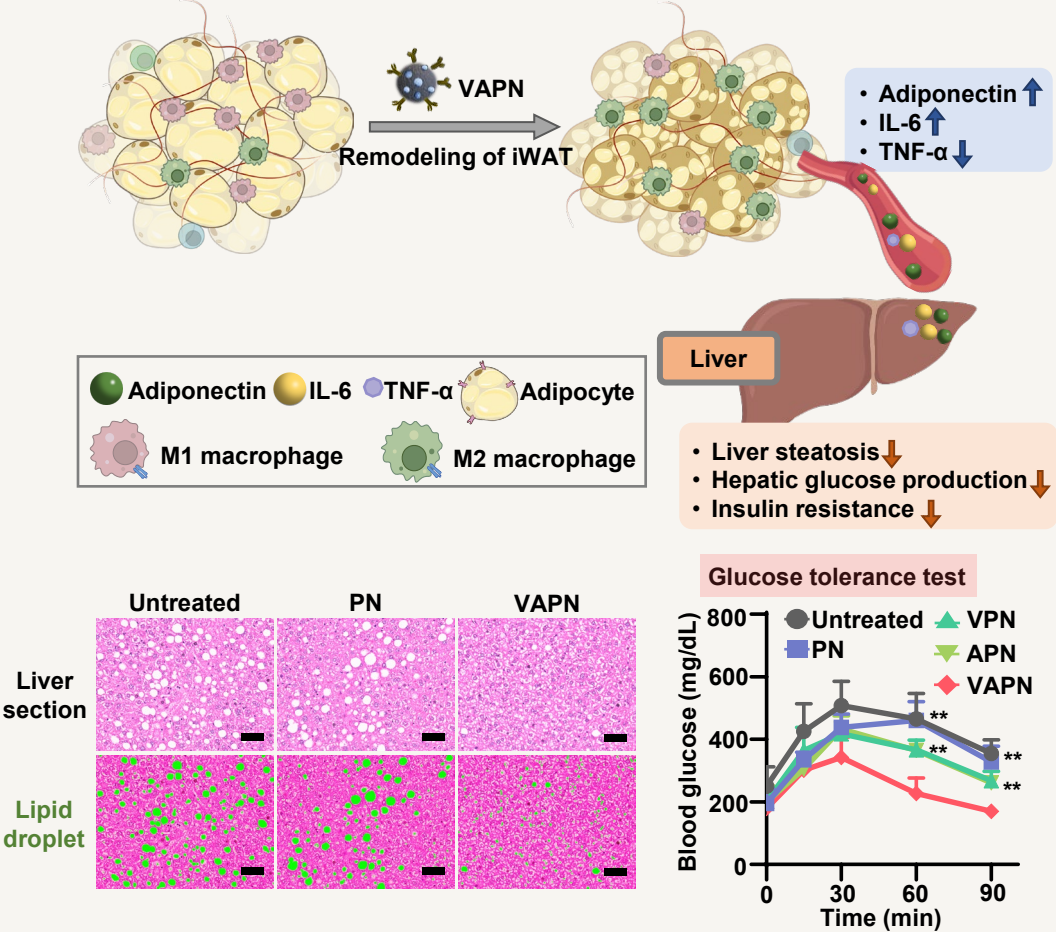


# Local changes, Systemic differences

- Rescue the adipocyte from inflammation



- Systemic therapeutic effect



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## References

[1] Q. Li\*, J. Byun\*, J. Choi, J. Park, J. Lee, Y.-K. Oh, **ACS Nano** (2024).

[Drugdelivery.be](https://www.drugdelivery.be)