

VU Research Portal

Bone marrow adipose tissue and bone metabolism

Beekman, Kerensa Mattanja

2021

document version

Publisher's PDF, also known as Version of record

[Link to publication in VU Research Portal](#)

citation for published version (APA)

Beekman, K. M. (2021). *Bone marrow adipose tissue and bone metabolism: Bad to the bone?* [PhD-Thesis - Research and graduation internal, Vrije Universiteit Amsterdam]. s.n.

General rights

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain
- You may freely distribute the URL identifying the publication in the public portal

Take down policy

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

E-mail address:

vuresearchportal.ub@vu.nl

TABLE OF CONTENTS

Chapter 1	General introduction and outline of the thesis.	9
Chapter 2	Gender and age associated differences in bone marrow adipose tissue and bone marrow fat unsaturation throughout the skeleton, quantified using gradient echo MRI	31
Chapter 3	The effect of raloxifene on bone marrow adipose tissue and bone turnover in postmenopausal women with osteoporosis	49
Chapter 4	Ovariectomy increases RANKL protein expression in bone marrow adipocytes of C3H/HeJ mice	67
Chapter 5	The effect of PPAR γ inhibition on bone marrow adipose tissue and bone in C3H/HeJ mice	81
Chapter 6	The Effect of Roux-en-Y Gastric Bypass on Bone Marrow Adipose Tissue and Bone Mineral Density in Postmenopausal, Nondiabetic Women	105
Chapter 7	Summary, general discussion and future perspectives	125
Chapter 8	Dutch summary (Nederlandse samenvatting)	137
Chapter 9	Appendices Contributing authors and affiliations Portfolio Acknowledgements (Dankwoord) About the author List of abbreviations	147