



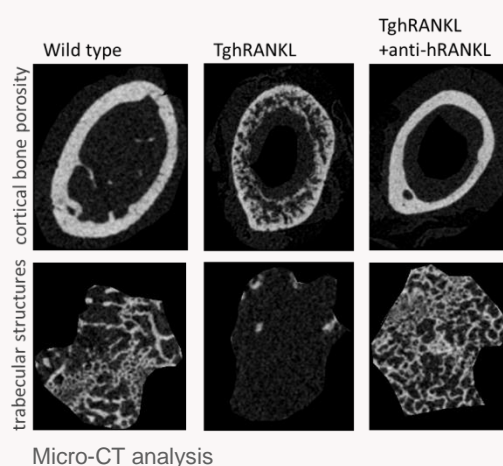
New OSTEOPOROSIS mouse model for the preclinical evaluation of human therapeutics

TghRANKL a novel humanized mouse model of osteoporosis

TghRANKL is a mouse model that overexpresses human RANKL and develops early onset spontaneous osteoporosis with pathological characteristics closely resembling those of the human disease.

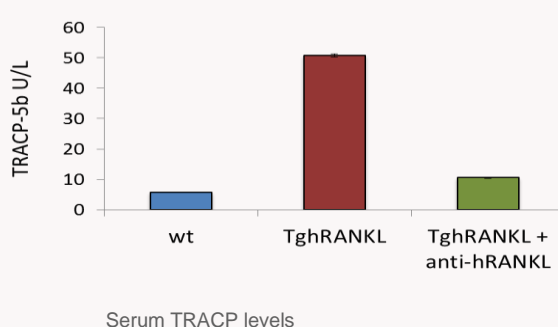
This model was developed and characterized by BSRC Al. Fleming researchers members of Biomedcode's scientific advisory board.

Rinotas et al. J. Bone Miner. Res 2014 29: 1158-69.



A unique model for the evaluation of therapeutics targeting osteoporosis

Biomedcode has successfully validated a preclinical platform based on the TghRANKL model for the evaluation of human therapeutics targeting osteoporosis. Our data show that TghRANKL animals treated with anti-hRANKL biologics show **complete reversal of all signs of the osteoporotic pathology.**



TghRANKL pathology

- Trabecular bone loss
- Increased osteoclastogenesis
- Cortical porosity
- Bone fragility

Preclinical efficacy evaluation read-outs

- Markers of bone metabolism (TRACP)
- Histological verification of osteoporosis features
- microCT analysis of bone morphology



Therapeutic Areas



Disease models for screening & efficacy evaluation of therapeutics:

- [Osteoporosis](#)
- [Rheumatoid Arthritis](#)
- [Intestinal Inflammation](#)
- [Psoriasis](#)
- [Multiple Sclerosis](#)
- [LPS acute sepsis](#)
- [GalN - LPS hepatic failure](#)

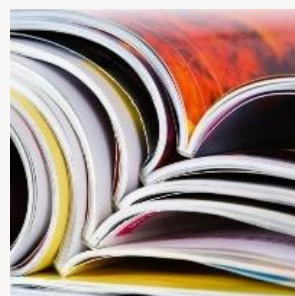
Research Activities



Biomedcode sustains its lead in preclinical drug evaluation services through a highly active **R&D program** supporting:

- [New animal model development](#)
- [Preclinical Development](#)
- [Customized Development](#)
- [Grants & Funded Research](#)

Publications



Learn more about our **scientific publications**:

- Novel genetic model of osteoporosis... [Read more>](#)
- CAIA in Tg1278TNFko mice... [Read more>](#)
- Regulation of TNF signalling: live or let die... [Read more>](#)

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