Dorit Naot, PhD

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Profile

A biomedical scientist with 25 years' experience leading research projects, supervising students and staff, and publishing original research papers and review articles. Adept at drawing on diverse resources to generate solutions to problems; able to bring innovative ideas to fruition through research, analysis, hard work, and adaptability.

Academic qualifications

PhD	Molecular Neurobiology	The Weizmann Institute of Science, Israel
MSc	Molecular Biology	The Hebrew University of Jerusalem, Israel
BSc	Biology	The Hebrew University of Jerusalem, Israel

Professional positions held

2006-2020	Senior Research Fellow, School of Medicine, The University of Auckland
1999-2006	Research Fellow, School of Medicine, The University of Auckland
1994-1999	Research Fellow, School of Biological Sciences, The University of Auckland

Skills and attributes

- Strategic, logical thinker
- Meticulous and diligent
- Motivational team leader
- Highly effective communicator
- Empathetic and supportive
- Able to multitask and meet deadlines
- Technical skills – Microsoft Office, GraphPad Prism, Endnote

Work experience and responsibilities

Leadership of biomedical research projects

- Identified knowledge gaps in the field and developed research proposals.
- Obtained research funding from granting bodies, including the Health Research Council of New Zealand (Co-Principal Investigator, Program Grants, 2009-2019).
- Recruited and supervised technical staff and post-graduate students.
- Liaised with other contributors to the projects, including clinicians, biostatisticians, and external advisors.
- Directed the experimental work through regular meetings with the team and ad hoc meetings as required.

- Lead the result analysis, interpretation, and dissemination through presentations in international meetings and publications in scientific journals.

Reviewing and editing

- Associate Editor - Cell Biology International, the official journal of the International Federation for Cell Biology (2017-present).
- Reviewed manuscripts for international journals, including: Bone, Calcified Tissue International, Current Medicinal Chemistry, Endocrinology, International Journal of Endocrinology, Journal of Bone and Mineral Research, Osteoporosis International, Scientific Reports.
- Reviewed grant applications for the European Calcified Tissue Society, Swiss National Science Foundation, National Health and Medical Research Council (NHMRC) Australia, and The Israel Science Foundation.
- Judged presentations, abstracts, and submissions for awards.

Post graduate students – supervision and examination

- Supervised students to the completion of BSc Honours, MSc, and PhD degrees
    - Supervised all aspects of the project, including the review of the scientific literature, experimental work, data analysis and interpretation, scientific writing of theses and manuscripts.
    - Provided support and guidance.
- Examined BSc Honours, MSc, and PhD theses.

Scientific writing

- Co-authored over 70 scientific publications, including original research papers, review articles, and book chapters.
- Served as corresponding author.

Presentations

- Presented research projects at international scientific conferences.
- Presented own research and scientific topics of interest to colleagues in the Department.
- Presented and demonstrated biomedical laboratory techniques to visiting groups of students, including doctoral candidates in bioengineering, medical students, and high school students.

Other contributions

- Interviewer - member of the interview panel for the Faculty of Medical and Health Sciences admission.
- Promoting science in schools
    - Judge - Manukau Science Fair, an annual evet for intermediate and secondary schools.
    - Scientific presentation and student engagement at an annual visit to an intermediate school in central Auckland.

Professional societies membership

- Australian and New Zealand Bone and Mineral Society – Scientific Committee member
- American Society for Bone and Mineral Research
- European Calcified Tissue Society
- The Association of Osteobiology (elected membership)

Invited review articles and book chapters (selected)

- **Naot D,** Musson DS, Cornish J (2019) The Activity of peptides of the calcitonin family in bone. Physiological Reviews 99:781-805
- **Naot D**, Musson DS, Cornish J (2019) Calcitonin peptides. In: Bilezikian J, Martin TJ, Clemens T, Rosen C (eds.) Principles of Bone Biology, 4th edition. Elsevier, Academic Press
- **Naot D**, Musson DS, Cornish J (2017) The activity of adiponectin in bone. Calcified Tissue International 100(5):486-499
- **Naot D**, Cornish J (2014) Cytokines and hormones that contribute to the positive association between fat and bone. Frontiers in Endocrinology (Lausanne) 5:70 eCollection.
- **Naot D,** Palmano K, Cornish J (2012) Lactoferrin – a potential anabolic intervention in osteoporosis. In: Osteoporosis. Editor: Yannis Dionyssiotis. In Tech; DOI: 10.5772/29652
- **Naot D** (2011) Paget's disease of bone: an update. Current Opinion in Endocrinology, Diabetes and Obesity 18(6):352-358

Selected original publications

- **Naot D**, Wilson LC, Allgrove J, Adviento E, Piec I, Musson DS, Cundy T, Calder AD (2020) Juvenile Paget's disease with compound heterozygous mutations in *TNFRSF11B* presenting with recurrent clavicular fractures and a mild skeletal phenotype. Bone 130: 115098
- **Naot D,** Watson M, Choi AJ, Musson DS, Callon KE, Zhu M, Gao R, Caughey W, Pitto RP, Munro JT, Horne A, Gamble GD, Dalbeth N, Reid IR, Cornish J (2020) The effect of age on the microarchitecture and profile of gene expression in femoral head and neck bone from patients with osteoarthritis. Bone Reports 13:100287
- **Naot D**, Watson M, Callon KE, Tuari D, Musson DS, Choi AJ, Sreenivasan D, Fernandez J, Tu PT, Dickinson M, Gamble GD, Grey A, Cornish J (2016) Reduced bone density and cortical bone indices in female adiponectin-knockout mice. Endocrinology 157(9): 3550-3561
- Dalbeth N, Pool B, Shaw OM, Harper JL, Tan P, Franklin C, House ME, Cornish, **Naot D** (2015) Role of miR-146a in regulation of the acute inflammatory response to monosodium urate crystals. Annals of the Rheumatic Diseases 74(4): 786-790
- Cundy T, Rutland MD, **Naot D**, Bolland M (2015) Evolution of Paget's disease of bone in adults inheriting SQSTM1 mutations. Clinical Endocrinology 83(3): 315-319
- **Naot D**, Choi AJ, Musson DS, Simsek Kiper PÖ, Utine GE, Boduroglu K, Peacock M, DiMeglio LA, Cundy T (2014) Novel homozygous mutations in the osteoprotegerin gene *TNFRSF11B* in two unrelated patients with juvenile Paget's disease. Bone 68: 6-10

Referees

Available on request