

## **CURRICULUM VITAE**

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**Education:**

1984	University of Otago, New Zealand
1986-1989	BSc, (Honours, 1st class) University of Melbourne, Australia
1990-1994	PhD, University of Melbourne / Murdoch Children's Research Institute, Melbourne, Australia

**Employment:**

1994 - 1996	Postdoctoral Researcher, Anesthesia, University of California, San Francisco, CA, USA.
1997 - 1999	Research Officer, Paediatrics, University of Melbourne, Australia
2000 - 2005	Senior Research Officer, Murdoch Childrens Research Institute, Paediatrics, University of Melbourne, Australia
2006 - 2014	Assistant Professor, Orthopaedics and Rehabilitation, Oregon Health and Science University, Portland, OR, USA
2009 - 2014	Assistant Professor, Molecular and Medical Genetics, Oregon Health and Science University, Portland, OR, USA
2009 – 2014	Staff Scientist, Shriners Hospital Research Center, Portland, USA
2014 - present	Associate Scientist, Bone and Joint Center, Henry Ford Hospital, MI, USA

### **PEER-REVIEWED PUBLICATIONS:**

Endicott, J, Holden, P and **Fitzgerald, J.** (2017). *Authentication of collagen VI antibodies* BMC Research Notes. Published online July 29<sup>th</sup>, 2017.  
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**Fitzgerald, J.** (2017) *Cartilage breakdown in microgravity - A problem for long-term spaceflight?* Nature Partner Journal - Regenerative Medicine. Published online April 11, 2017. doi: 10.1038/s41536-017-0016-1. <http://www.nature.com/articles/s41536-017-0016-1> .

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Allen JM, Zamurs L, Brachvogel B, Schlotzer-Schrehardt U, Hansen U, Lamande SR, Rowley L, **Fitzgerald J**, and Bateman JF. (2009) *Mice lacking the extracellular matrix protein WARP develop normally but have compromised peripheral nerve structure and function*. J Biol Chem. 284(18):12020-30

**Fitzgerald, J.**, Rich, C, Burkhardt, D., Allen, J, Herzka, A. and Little, C. B. (2008) *Evidence for articular regeneration in MRL/MpJ mice*. Osteoarthritis and Cartilage. 16(11):1319-26. This paper was the subject of an editorial in Osteoarthritis and Cartilage (*Progress towards a molecular basis for joint surface repair* by Lories and Luyten, v17, 693-4, June 2009).

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**Fitzgerald, J.** and Bateman, J.F. (2004) *Why mice have lost genes for COL21A1, STK17A, GPR145 and AHRI: evidence for gene deletion at evolutionary breakpoints in the rodent lineage*. Trends in Genetics 20: 408-412.

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**Fitzgerald, J.**, Mörgelin, M., Selan, C., Wiberg, C., Keene, D. R., Lamandé, S. R and Bateman, J. F. (2001) *The amino-terminal N5 subdomain of the  $\alpha 3(VI)$  chain is important for collagen VI microfibril formation*. J Biol. Chem. 276 (1): 187-193.

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**Fitzgerald, J.**, Dietz, T. and Hughes-Fulford, M. (2000) *Prostaglandin E2-induced upregulation of c-fos mRNA is primarily mediated by cAMP in MC3T3-E1 osteoblasts*. Endocrinology. 141 (1): 291-298.

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Xia, H., **Fitzgerald, J.**, Forsayeth, J. R. and Bredt, D. (1997). *Detection of mycoplasma infection of mammalian cells*. Biotechniques 22: 934-936.

**Fitzgerald, J.**, Dahl, H-H. M, Jakobsen, I. and Easteal, S. (1996). *Evolution of mammalian X-linked and autosomal pgk and pdh E1 $\alpha$  subunit genes*. Mol. Biol. and Evol. 13 (7): 1023-1031.

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**Fitzgerald, J.**, Wilcox, S. A., Graves, J. A. M. and Dahl, H-H. M. (1993). *A Eutherian X-linked gene, PDHA1, is autosomal in marsupials. A model for the evolution of a second, testis-specific variant in eutherian mammals*. Genomics 18: 636-642.

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**Fitzgerald, J.**, Hutchison, W. M. and Dahl, H-H. M. (1992). *Isolation and characterisation of the mouse pyruvate dehydrogenase E1 $\alpha$  genes*. Biochem. Biophys. Acta 1131: 83-90.

#### BOOK CHAPTERS:

**Fitzgerald J** (2016) *Early findings from BION-M1: Effects of 30 days of microgravity on cartilage*. In Space Research Project "Bion-M1" Biomedical Experiments and Investigations A.I. Grigoriev, Ed. Moscow, IMBP, pp284-289

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Iannello, R. C., **Fitzgerald, J.** and Dahl, H-H. M. (1992) *The Mouse Testis-Specific PDH E1 $\alpha$  Subunit: Transcriptional Expression and Interaction of the Proximal Promoter with Putative*

*Transcription Factors*. In 'Mammalian Sex Chromosomes and Sex Determining Genes' (K. Reed and J. Graves, Ed)