

Owen J. Kelly, PhD Assistant Professor

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Department of Nutrition and Food Sciences	
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Education:

2001-2004 Ph.D., Cellular Nutrition, University College Cork, Cork, Ireland.
The Effect of Bioactive Dairy Constituents on Bone Health
Supervisor: *Professor Kevin Cashman*

1999-2001 M.Sc., Nutrition, University College Cork, Cork, Ireland.
Switched to PhD Program

1995-1999 B.Sc., Major: Nutrition, University College Cork, Cork, Ireland.

Research Experience:

Postdoctoral Fellow (2007-Present)
Department of Nutrition, Food & Exercise Sciences, Florida State University

- Effect of n-3 PUFA and CLA on the bone cell/fat cell relationship and its contribution to osteoporosis/obesity.

Postdoctoral Fellow (2005-2007)
Department of Pathology & Lab Medicine, UCLA David Geffen School of Medicine

- Effect of the environment, DNA repair defects and reactive oxygen species on the etiology of cancer.

Postdoctoral Research Associate (2004-2005)
Department of Genetics, Rutgers University, NJ

- Effect of metastatic mammary tumor cells on the bone microenvironment.

Fellowships and Awards:

- 2008-2009, NDC Discovery Pilot Project; *Dairy derived bioactive compounds as stem cell mediators of bone and fat metabolism.* (\$50,000).
- 2005-2007, TRDRP Postdoctoral Fellowship; *Effect of Sidestream Tobacco Smoke on Parkin Null Mice.* (\$75,000)
- 2004-2005, NJCCR Fellowship; *Role of PTHrP in breast cancer metastasis* (\$69,000)
- 1999-2004, European Union Postgraduate Studentship (€32,000)
- 1995-1999, Cork City Corporation University Scholarship (€12,000)

Peer Reviewed Publications:

Research Papers:

1. **Kelly O**, Hildebrandt IJ, Lawson G, Schiestl R & Weber W. (2007). Tracking the progress of thymic lymphomas by *in vivo* longitudinal imaging of p53 knockout mice with FDG microPET/CT. (*submitted*).
2. **Kelly O**, Cashman KD, Noone EJ, Nugent AP, Roche HM & Gibney MJ. (*submitted*). The effect of dietary supplementation using isometric blends of conjugated linoleic acid on bone metabolism in healthy human subjects.
3. Natasha T, Kuhn M, **Kelly O** & Rittling SR (2006). Override of the osteoclast defect in osteopontin-deficient mice by metastatic tumor growth in the bone. *American Journal of Pathology* **68**: 551-561.
4. **Kelly O** & Cashman KD (2004). The effect of conjugated linoleic acid on calcium absorption and bone metabolism and composition in adult ovariectomized rats. *Prostaglandins, Leukotrienes & Essential Fatty Acids* **71**: 293-301.
5. **Kelly O**, Cusack S & Cashman KD. (2003). The effect of bovine whey protein on ectopic bone formation in young growing rats. *British Journal of Nutrition*, **90**: 557-564.
6. **Kelly O**, Cusack S, Jewell C & Cashman KD. (2003). The effect of polyunsaturated fatty acids, including conjugated linoleic acid, on calcium absorption and bone metabolism and composition in young growing rats. *British Journal of Nutrition*, **90**: 743-750.

Conference Participation (Poster & Oral Presentations):

1. **Kelly OJ**, Kim Y, Liu P, Shin H, Douglas CC, Ilich JZ (2008). The effect of resveratrol and flax oil on MC3T3-L1 pre-adipocyte and ST2 bone marrow stromal stem cell proliferation. *ASBMR 30th Annual Meeting*, September 12-16, 2008, Montréal, Québec, Canada.
2. Walter MA, Hildebrandt IJ, **Kelly O**, Hacke K, Lawson GW, Czernin J, Weber WA, Schiestl RS (2008). An *in-vivo* microPET imaging model for assessing development and treatment response of thymic lymphomas in p53 knock-out mice. *World Congress of the Academy of Molecular Imaging*, Nice, France Sep 10-13..
3. Hildebrandt IJ, **Kelly O** & Weber W. (2007). *In Vivo* longitudinal imaging of p53 knockout mice with FDG microPET/CT. *Joint Molecular Imaging Conference* September 8 - 11, 2007 Providence, Rhode Island.
4. Yamamoto ML, Hafer K, Reliene R, Trouiller B, **Kelly O**, Bral M, & Schiestl RH. (2007). The effect of space radiation on genetic instability, neuromotor function, carcinogenesis and longevity in Atm mutant mice. Presented at the *National Radiation Standard Laboratory (NRSL) Conference*, Sonoma, CA.
5. **Kelly OJ** (2005). Effect of metastatic mammary tumor cells on osteoclast function. *The 2005 Annual Cancer Retreat on Cancer Research in New Jersey*.
6. **Kelly O** & Cashman KD. (2003). Conjugated linoleic acid (CLA) supplementation has no effect on calcium absorption or bone composition in ovariectomized rats. *Irish Journal of Agricultural and Food Research* **42**: 174. 32nd Annual Food Science and Technology Conference, University College Cork.

7. **Kelly O** & Cashman KD. (2002). Conjugated linoleic acid supplementation enhances intestinal calcium absorption in young growing rats fed a diet rich in *n*-3 fatty acids. *Irish Journal of Agricultural and Food Research*, 41: 139. 31st Annual Food Science and Technology Conference, University College Cork.
8. Cashman KD, Cusack S, Jewell C & **Kelly O**. (2001). The effect of conjugated linoleic acid on bone formation and its mediators in young growing rats. Presented at the *FASEB Summer Research Conference Program "Molecular Mechanisms of Regulation by Dietary Constituents"* 18-23rd August, 2001 in Saxtons River, Vermont, USA.
9. **Kelly O**, Jewell C & Cashman KD. (2001). Conjugated Linoleic Acid Reduces Prostaglandin E₂ Biosynthesis but Not Bone Formation in Young Growing Rats. *Irish Journal of Agricultural and Food Research*, 40: 120. 30th Annual Food Science and Technology Conference, University College Cork.
10. **Kelly O**, Jewell C & Cashman KD. (2001). The Effect of Conjugated Linoleic Acid (CLA) on Bone Formation in Young Growing Rats. *Proceedings of The Nutrition Society*, 60: 160A. The Nutrition Society (Irish Section), Summer Meeting, University of Ulster, Coleraine, 2001.

Teaching Experience:

Lecturer:

Winter 2001 and 2002, Introduction to Computers in Science.

Undergraduate Project Supervisor:

Designed and supervised final year undergraduate research projects. Advised junior year students on their literature review projects.

Teaching Assistant:

I have been a teaching assistant in the Department of Nutrition, University College Cork from 2000-2003 for the following courses:

- 1) Fall 2000, Introductory Laboratory Nutrition.
- 2) Winter 2001, Body Composition.
- 3) Fall 2001, Food Composition Tables.
- 4) Winter 2002, Animal Nutrition.
- 5) Fall 2002, Chemical Food Composition.
- 6) Winter 2003, Serum Cholesterol.

Professional Affiliations:

The Nutrition Society (NS) *Registered Nutritionist*

American Society for Nutrition (ASN)

American Society for Bone and Mineral Research (ASBMR)