
Curriculum Vitae of Douglas Edward Barre

Douglas Edward Barre

Cape Breton University, Department of Health Sciences and Emergency Management (cross-appointed to Department of Chemistry), 1250 Grand Lake Road, Sydney, Nova Scotia
ed_barre@cbu.ca, 902-563-1921 (work)

ACADEMIC CREDENTIALS

Honours B.Sc. (1977), Queen's University, Kingston, ON, Department of Biology

M.Sc. (1984), University of Ottawa, Ottawa, ON, Department of Human Kinetics, Kinanthropology, Thesis title: "The Effect of Acute and Chronic Endurance Exercise on High Lipoprotein Cholesterol and the HDL-cholesterol: Total Serum Cholesterol Ratio", Advisor: Dr. Jim Thoden

Ph.D. (1992), University of Guelph, Guelph, ON, Department of Nutritional Sciences, Lipids, Thesis title: "The effect of Borage Oil Consumption on Human Plasma Lipids and Platelet Reactivity and Platelet Phospholipid Compositions", Advisor: Dr. Bruce Holub

Postdoctoral Fellow (1992–1994), University of Texas, Southwestern Medical Centre at Dallas, Dallas, TX, Advisors: Dr. Jonathan Cohen/Dr. Gloria Vega

Postdoctoral Fellow (1994–1995), University of Texas, Southwestern Medical Centre at Dallas, Dallas, TX, Advisor: Dr. Robert Meidell

APPOINTMENTS AND PROMOTIONS

Assistant Professor of Human Nutrition, without tenure, (August 2001 – June 2005), Department of Biology and Behavioural Life Sciences, Cape Breton University, Sydney, NS

Tenured (1 July 2005), Department of Biology, Cape Breton University

Associate Professor of Human Nutrition, (1 July 2005-30 June 2015), tenured, Department of Health Sciences and Emergency Management, Cape Breton University, Sydney, NS

Associate Professor, cross-appointed to Department of Chemistry (October 2005 to present), tenured, Cape Breton University, Sydney, NS

Full Professor of Human Nutrition, (1 July 2015-present)

ADJUNCT APPOINTMENTS

St. Francis Xavier University, Department Human Nutrition, Faculty of Science, 2002-2016 (renewal pending), Antigonish, NS

LEAVES

Sabbatical leave, July 2008-June 2009

HONOURS

The University of Waterloo Graduate Scholarship - \$500, University of Waterloo, awarded in January, May and September 1985 and January and May 1986.

Baxter Renal Award-\$100 awarded for an idea to significantly improve peritoneal dialysis by Baxter Healthcare, Renal Division, McGaw Park, Illinois, USA in January 1999.

Nominated (not awarded) for an outstanding contribution award in the renal technical community. Nomination by another individual in the Renal Division of Baxter Healthcare, McGaw Park, Illinois, USA, Nominated in July 1999.

Japan Oil Chemists Society-award for **best foreign paper** in Journal of Oleo Science in 2004-presented at the annual meeting of **the Japanese Oil Chemists Society in Osaka, Japan** for my paper, Barre, D.E. 2003. Fatty acid composition of human lipoprotein (a)'s lysphosphatidylcholine, phosphatidylserine, and phosphatidylinositol. Journal of Oleo Science 52: 621-5.

Journal of Oleo Science (Japanese Oil Chemists Society) Impact Award for 2009 – 50,000 yen (600 dollars Canadian) - awarded in September 2010 by the **Japanese Oil Chemists Society** for most citations in 2009 in different journals for my article - Barre, D.E. 2007. The role of consumption of alpha-linolenic, eicosapentaenoic and docosahexaenoic acids in human metabolic syndrome and type 2 diabetes- A mini-review. Journal of Oleo Science. 56: 319-325.

PREVIOUS POSITIONS RELATIVE TO CBU EMPLOYMENT

Research Scientist, June 1995- August 2000, Renal Division, Baxter Healthcare, McGaw Park, IL, USA

Assistant Professor, without tenure August 2000- June 2001(term position)-Human Nutrition, University of Saskatchewan, Saskatoon, SK

TEACHING RECORD**SCHEDULED INSTRUCTIONAL ACTIVITY FOR THE LAST 6 YEARS**

Table 1: Summary of Teaching Duties at Cape Breton University (all courses shown = 3 credits)

Academic Year	Course
2015-16	NUTR 1101: Community Nutrition NUTR 2104: Introduction to Nutrition NUTR 2106: Principles of Nutrition in Human Metabolism NUTR/SPHK 2107: Sports Nutrition NUTR 2108: Introduction to Normal and Clinical Nutrition
2014-15	NUTR 1101:1 Community Nutrition NUTR 1101:2 Community Nutrition NUTR 2104:1 Introduction to Nutrition NUTR 2104:2 Introduction to Nutrition NUTR 2106: Principles of Nutrition in Human Metabolism NUTR/SPHK 2107: Sports Nutrition
2013-14	NUTR 1101: Community Nutrition NUTR 2101: Introduction to Nutritional Assessment of Disease-Theory NUTR 2104: Introduction to Nutrition NUTR 2105: Applied Nutrition NUTR 2106: Principles of Nutrition in Human Metabolism NUTR/SPHK 2107: Sports Nutrition
2012-13	NUTR 1101: Community Nutrition NUTR 2101: Introduction to Nutritional Assessment of Disease-Theory NUTR 2104: Introduction to Nutrition NUTR 2105: Applied Nutrition NUTR 2106: Principles of Nutrition in Human Metabolism NUTR/SPHK 2107: Sports Nutrition
2011-12	NUTR 1101: Community Nutrition NUTR 2101: Introduction to Nutritional Assessment of Disease-Theory NUTR 2104: Introduction to Nutrition NUTR 2105: Applied Nutrition NUTR 2106: Principles of Nutrition in Human Metabolism NUTR/SPHK 2107: Sports Nutrition
2010-11	NUTR 1101: Community Nutrition NUTR 2101: Introduction to Nutritional Assessment of Disease-Theory NUTR 2104: Introduction to Nutrition NUTR 2105: Applied Nutrition NUTR 2106: Principles of Nutrition in Human Metabolism NUTR/SPHK 2107: Sports Nutrition

UNSCHEDULED INSTRUCTIONAL ACTIVITY FOR THE LAST 6 YEARS

October 2016- gave a seminar entitled “Flaxseed lignan complex consumption fails to improve plasma lipid, lipoprotein and apolipoprotein B profiles in older type 2 diabetes patients” for the SPS school meetings’ seminar series.

June 2015- present (on three separate occasions) -3 hours in total (1 hour each occasion)- gave instruction to two post-doctoral fellows, an undergraduate student all from CBU chemistry on the use of HPLC in my lab

March 2011-talked to SPHK 100 class about nutrition and sports

February 2011-4 hours- helped with method development and then conduct of a lab on measuring, via HPLC, the caffeine content of soft drinks and energy drinks for Chemistry 386

February 2009-4-hours-reviewed with a Chemistry senior lab instructor on how to operate the high performance liquid chromatograph in my laboratory- such assistance was aimed at having Chemistry 361 students learn about determination of diet soft drink component (caffeine) by HPLC. I also oversaw and helped the students do their analysis using the HPLC

February 2007- 3 hours-oversaw and helped the Chemistry 361 students do their caffeine analysis using the HPLC in my laboratory

August 2007-2 hours-provided HPLC and guidance to a CBU chemistry student doing HPLC analysis of petroleum polymers

May 2007- 1 hour-helped a visiting M.Sc. biology student become familiar with equipment necessary for an experiment

February 2007-1 hour- provided advice to a member of the CBU Biology department on HPLC analysis of vitamins and enzyme linked immunosorbent assay of carbohydrates both in marine plants

December 2006-1 hour-assisted a Chemistry senior lab instructor in learning how to operate the high performance liquid chromatograph in my laboratory- such assistance was aimed at having Chemistry 361 students learn about determination of diet soft drink component (caffeine) by HPLC

October 2006- 1 hour-gave a seminar entitled “Flaxseed oil trial in human type 2 diabetics” for the CBU Chemistry Department seminar series.

October 2006-1 hour-gave a talk on “Animal Fattening” to the MSIT 301 students.

January 2006- 1 hour-gave at talk entitled “Nutrition and Diabetes in Humans” for the Guest Speaker Series on Health at Cape Breton University

January 2006- 30 minutes- talk to the students of MSIT 403 students about type 2 diabetes in terms of its impact on Cape Breton, causes, and the work in my laboratory to find new therapeutic agents to prevent and manage this disease. I also showed by laboratory talking about how the various pieces of equipment are used in my work.

November 2005-30 minutes-demonstration on the use of HPLC to determine glycosylated HbA1c-demonstration given to Chemistry 365 (Biochemistry-Part II) class of Dr. G. D’Cunha

March 2004—50 minutes-gave a talk on “Nutraceutical Interventions in Type 2 diabetes” to the Integrative Science Lecture series at CBU

January 2004-50 minutes lecture/laboratory demonstration on analysis of samples from nutraceutical use in type 2 diabetes to a class of 5 MSIT students at the Cape Breton University.

September 2002-50 minutes-Seminar at the Cape Breton University in Sydney, Nova Scotia “Total Parenteral Nutrition-an Overview” –given to fourth year nursing students

THESIS STUDENTS SUPERVISED OR ON THEIR COMMITTEE

Thesis committee

Tiffany Wilcox, Chemistry -CBU -Honours thesis-2011-2012. IR/Raman analysis of pharmaceuticals.

Mary Beth MacDonald, Chemistry-CBU -Honours thesis-2012-2013. *Rhodotorula glutinis* phenylalanine ammonia lyase enzyme catalyzed synthesis of the methyl ester of *para* - hydroxycinnamic acid

Theses Co-supervised

Shannan Grant. Honours B.Sc. (St. Francis Xavier University) 2004. The phenolic content, antioxidant potential, and biological activity of blueberries and grapes sold in the Antigonish area.

Shannan Grant. Honours Ph.D. (University of Toronto) 2009-2014. Antioxidant management in healthy and gestational diabetic individuals.

<u>TYPE</u>	<u>NAME</u>	<u>DEGREE</u>	<u>DEP'T</u>	<u>University that will grant</u>	<u>THESIS SUBJECT AREA</u>	<u>TIME FRAME</u>
<u>Co-supervised</u>	S. Grant	Ph.D.	Nutrition	U of T	Anti-oxidants	2009-14
	S. Grant	Honours	Nutrition	St. F.X	Anti-oxidants	2003-04
<u>Committee</u>	M.B. MacDonald	Honours	Chemistry	CBU	Enzymology	2012-13
	T. Wilcox	Honours	Chemistry	CBU	Raman-IR spectroscopy	2011-12

Thesis Examined

July 2005, External examiner Chih-Kai Chang. M.Sc. (Memorial University of Newfoundland) 2005. Effects of dietary lipids on SREBP Mediated Regulation of Hydroxymethylglutaryl-Coenzyme A Reductase in F1B Hamsters.

NEW OR REVISED TEACHING MATERIALS DEVELOPED OR AUTHORED

August 2001-present-all lectures are in powerpoint form on my website faculty.cbu.ca/ebarre and on moodle. The website contains links to images, videos, articles, and other webpages relevant to various lectures. All material is continuously updated to reflect new information as it becomes available.

SUBSTANTIALLY REVISED OR NEW COURSES DEVELOPED**ALL NEW COURSES DEVELOPED SINCE 2001**

Winter 2014-Nutrition 2108-Introduction to Normal and Clinical Nutrition-approved by senate winter 2014

Winter 2011-Nutrition/SPHK 2107-Sports Nutrition

Winter 2003-Nutrition 2106-Principles of Nutrition in Human Metabolism

Winter 2003-Nutrition 3701-Current Topics in Human Nutrition

Fall 2003-Nutrition 2103-Introduction to Nutritional Assessment-Applied

Winter 2002-Nutrition 2101-Introduction to Nutritional Assessment-Theory

Winter 2002-Nutrition 2105-Applied Nutrition

Fall 2001-Nutrition 1101-Community Nutrition

Fall 2001-Nutrition 2104-Introduction to Nutrition

Programmes and Certificates developed /being developed

January 2015-present-developing a 2 year diploma in Health Sciences and Human Nutrition

October 2001-present-assisted in the development of a Nutrition transfer option whereby students do their first two years at CBU and the last two years at St. F.X to obtain an Honours B.Sc. in Human Nutrition

September 2001-present- Developed and continuously revised Nutrition webpage and 8 new half courses in human nutrition. I encouraged enrolment in Honours B.Sc. in human nutrition transfer programme support via extensive advertising on campus and in the Cape Breton Post, participating in the 2002 high school recruitment night, and ensuring full programme description in the CBU calendar.

ATTENDANCE AT TEACHING IMPROVEMENT WORKSHOPS AND CONFERENCES

May and June 2014- participated in person in two sessions and by email communication with Eileen for a third session offered by Eileen Piovesan at Cape Breton University (CBU) on teaching dossier preparation including teaching philosophy and its application.

October 2005-had my teaching observed and assessed by Eileen Piovesan at CBU

November 2003- observed a class taught by Dr. Katherine Covell, Psychology, CBU

October 2002-Took a course (1.5 hours) on the use of the RADAR (Recruitment, Admission Demographics, Academic Record, and Retention) website. This website is directed at data acquisition pertaining to faculty and students at CBU.

October 2001-Developing a teaching dossier-offered by the Teaching and Learning Centre at the Cape Breton University (CBU).

TEACHING AWARDS OR RECOGNITIONS RECEIVED

2005-considered for CBU alumni teaching award (automatic review following 2004 nomination)-**not awarded**

2004-nominated for CBU alumni teaching award-**not awarded**

BOOKS, CHAPTERS IN BOOKS, EXPOSITORY AND REVIEW ARTICLES**BOOKS-GRADUATE THESES BY BARRE, D.E.**

Ph.D. (1992), University of Guelph, Guelph, ON, Thesis title: The effect of Borage Oil Consumption on Human Plasma Lipids and Platelet Reactivity and Platelet Phospholipid Compositions”, Advisor: Dr. Bruce Holub

M.Sc. (1984), University of Ottawa, Ottawa, ON, Thesis title:” The Effect of Acute and Chronic Endurance Exercise on High Lipoprotein Cholesterol and the HDL-cholesterol: Total Serum Cholesterol Ratio”, Advisor: Dr. Jim Thoden

CHAPTERS IN BOOKS

Barre, D.E. Invited Chapter. 2009. Borage Oil and other Gamma Linolenic Acid Rich Oils (Evening Primrose, Blackcurrant and Fungal) in “Gourmet and Health-Promoting Oils” AOCS Press. Urbana, Illinois, USA Chapter 7 pp 237-66. Robert A. Moreau (Editor), Afaf Kamal-Eldin (Editor).

REVIEW ARTICLES (N.B. THESE ARE ALSO LISTED IN THE PEER-REVIEWED SECTION AS THEY UNDERWENT PEER-REVIEW)

5. **Barre, DE**, The potential of consumption of secoisolariciresinol diglucoside (and other lignans), cinnamic acids, and 3-hydroxy-3-methyl glutarate in pre- and post-onset management of type 2 diabetes. **in preparation.**
4. Rice, K, Te Hiwi, B, Zwarenstein, M., Lavallee, B, **Barre, DE.**, Harris, SB.* **2016.** Practices for Prevention and Management of Diabetes and Obesity- Related Chronic Disease among Indigenous Peoples in Canada: A Review. Canadian Journal of Diabetes. 40: 216-25.

*On behalf of the FORGE AHEAD Program Team

3. **Barre, D.E. 2007.** The molecular nature and consequences of lipoprotein (a)'s association with platelets. Protein and Peptide Letters. 14: 839-842.
2. **Barre, D.E. 2007.** The role of consumption of alpha-linolenic, eicosapentaenoic and docosahexaenoic acids in human metabolic syndrome and type 2 diabetes- **A mini-review.** Journal of Oleo Science. 56: 319-325.
1. **Barre, D.E. 2001.** Potential of evening primrose, borage, blackcurrant, and fungal oils in human health. **A review.** Annals of Nutrition and Metabolism. 45(2): 47-57.

PAPERS IN OR TO BE SUBMITTED TO REFEREED JOURNALS-PEER-REVIEWED

37. **Grant SM, Barre, DE, Mizier-Barre, KA, and Wolever TMS***. The impact of low glycaemic index on LDL oxidation, conjugated diene formation and novel microplate method determination of total peroxyl radical-trapping antioxidant potential (TRAP) in overweight and obese females. **in preparation.**
36. **Barre, DE**, The potential of consumption of secoisolariciresinol diglucoside (and other lignans), cinnamic acids, and 3-hydroxy-3-methyl glutarate in pre- and post-onset management of type 2 diabetes. **in preparation.**
35. **Barre, DE***, Mizier-Barre, KA, Griscti,O, and Hafez, K. **2016.** Correlations of individual plasma free fatty acids with HOMA-IR and HOMA-% β in type 2 diabetics. **Endocrine Regulations 50:** 183–193.
34. **MacDonald, MbC, Arivalagan, P, Barre, DE, MacInnis, JA and D’Cunha, GB*.** **2016.** Rhodotorula glutinis phenylalanine/tyrosine ammonia lyase enzyme catalyzed synthesis of the methyl ester of para-hydroxycinnamic acid. Frontiers in Microbiology 7: Article 281. <http://dx.doi.org/10.3389/fmicb.2016.00281>

33. **Barre, D.E. 2016.** Obesity, Metabolically Healthy or Otherwise- A Word of Caution
A reply to: De-Signing Fat: Re-Constructing the Global Obesity Epidemic, Robert Scott Stewart, Ph.D. and Sue A. Korol, Ph.D. *International Journal of Applied Philosophy.* 30:175-85.
32. Rice, K, Te Hiwi, B, Zwarenstein, M., Lavallee, B, **Barre, DE.**, Harris, SB.* **2016.** Practices for Prevention and Management of Diabetes and Obesity- Related Chronic Disease among Indigenous Peoples in Canada: A Review. *Canadian Journal of Diabetes.* 40: 216-25.

*On behalf of the FORGE AHEAD Program Team

31. **Barre, DE***, Mizier-Barre, KA, **Stelmach, E**, Hobson, J, Griscti,O, **Rudiuk A**, and Muthuthevar D. **2012.** Flaxseed lignan complex administration in older human type 2 diabetics manages central obesity and prothrombosis - an invitation to further investigation into polypharmacy reduction. *Journal of Nutrition and Metabolism.* 2012;2012:585170. doi: 10.1155/2012/585170. Epub 2012 Oct 4.
30. **Barre, DE***, Mizier-Barre, E, and MacIntyre, P. **2011.** Socio-economic factors and their relation to eating habits in two communities in Nova Scotia, Canada. *Journal of Hunger and Environmental Nutrition* 6: 497-505.
29. **Barre, DE***, Mizier-Barre, KA, Griscti,O , and Hafez, K. **2011.** Gender associated differences in diet and anthropometric measures in Cape Breton Caucasians with well-controlled type 2 diabetes. *International Journal of Diabetes and Metabolism.* *International Journal of Diabetes & Metabolism* 19: 101-105.
28. **Barre, DE***, Mizier-Barre, KA, Griscti,O, and Hafez, K. **2010.** Gender differential in apo E genotypes' correlative tendency to dyslipidaemia responsiveness upon flaxseed oil administration in adult type 2 diabetic patients not meeting 2008 Canadian Practice Guidelines. *International Journal of Diabetes and Metabolism .*18: 99-113.
27. **Barre, DE***, Mizier-Barre, KA, Griscti,O , and Hafez, K. **2010.**The roles of apo E genotype, gender and adipokines in blood plasma lipids in Caucasians with well-controlled type 2 diabetes. *International Journal of Diabetes and Metabolism* 18:49-54.
26. **Barre, DE***, Mizier-Barre, KA, Griscti,O , and Hafez, K. **2009.** No gender associated differences in LDL oxidation in response to a CuSO₄ challenge in a population of Caucasians with well-controlled type 2 diabetes. *International Journal of Diabetes and Metabolism* 17:81-85.
25. **Barre, DE***, Mizier-Barre, KA, Griscti,O , and Hafez, K. **2009.** Gender: does it have a role in blood pressure in Caucasians with well controlled type 2 diabetes? *International Journal of Diabetes and Metabolism* 17:41-44.

24. **Barre, DE***, Mizier-Barre, KA, Griscti, O , and Hafez, K. **2008**. Gender: does it have a role in bleeding time in Caucasians with well controlled type 2 diabetes? *International Journal of Diabetes and Metabolism* 16: 113-116.
23. **Barre, DE***, Mizier-Barre, KA, Griscti, O , and Hafez, K. **2008**. High dose flaxseed oil supplementation may affect fasting blood serum glucose management in human type 2 diabetics. *Journal of Oleo Science* 57: 269-273.
22. **Barre, DE*** , Mizier-Barre, KA, Griscti, O , and Hafez, K. **2007**. Gender, does it have a role in glycaemic control in Caucasians with well controlled type 2 diabetes? *International Journal of Diabetes and Metabolism*. 15:76-80.
21. **Barre, D.E. 2007. Invited Review**. The molecular nature and consequences of lipoprotein (a)'s association with platelets. *Protein and Peptide Letters*. 14: 839-842.
20. **Barre, D.E. 2007**. The role of consumption of alpha-linolenic, eicosapentaenoic and docosahexaenoic acids in human metabolic syndrome and type 2 diabetes- **A mini-review**. *Journal of Oleo Science*. 56: 319-325.
19. **Barre, DE. 2007**. Arginyl-glycyl-aspartyl (RGD) epitope of human apolipoprotein (a) inhibits platelet aggregation by antagonizing the IIb subunit of the fibrinogen (GP IIb/IIIa) receptor. *Thrombosis Research* 119:601-607.
18. Nacz M*, Grant S, Zadernowski R. and **Barre D.E. 2006**. Protein precipitating capacity of phenolics of wild blueberry leaves and fruits. *J Agricultural and Food Chemistry*. 96:640-47.
17. **Barre, DE***, Griscti, O, Mizier-Barre, KA, and Hafez, K. **2005**. The mechanism by which flaxseed oil consumption increases bleeding time in patients with type 2 diabetes in Cape Breton, Nova Scotia, Canada is independent of lipoprotein (a) concentration. *Journal of Oleo Science* 54:617-25.
16. **Barre, DE***, Griscti, O, Mizier-Barre, KA, and Hafez, K. **2005**. Flaxseed oil and lipoprotein (a) significantly increase bleeding time in type 2 diabetes patients in Cape Breton, Nova Scotia, Canada. *Journal of Oleo Science*. 54:347-54.
15. **Barre, D.E. 2004**. Human lipoprotein (a) is an antagonist of fibrinogen that binds to the GPIIb (CD41) protein on agonist-stimulated human platelets. *Journal of Oleo Science*. 53:305-8.
14. **Barre, D.E. 2004**. Apoprotein (a) antagonises the GPIIB/IIIA receptor on collagen- and ADP-stimulated human platelets. *Frontiers in BioScience* 9: 404-10.
13. **Barre, D.E. 2003**. Apolipoprotein (a) mediates the lipoprotein(a)-induced biphasic shift in human platelet cyclic AMP. *Thrombosis Research* 112: 321-4.

12. **Barre, D.E. 2003.** Fatty acid composition of human lipoprotein (a)'s lysphosphatidylcholine, phosphatidylserine, and phosphatidylinositol. *Journal of Oleo Science.* 52: 621-5.
11. **Barre, D.E. 2003.** Human lipoprotein(a)-induced reduction of platelet aggregation is not mediated by apolipoprotein(a)'s lysine binding regions. *Frontiers in BioScience.* 8: s1226-s1228.
10. **Barre, E. 2003.** A more detailed fatty acid composition of human lipoprotein (a)-a comparison with low density lipoprotein. *Chemistry and Physics of Lipids.* 123: 99 – 105.
9. **Barre, D.E. 2001.** Potential of evening primrose, borage, blackcurrant, and fungal oils in human health. **A review.** *Annals of Nutrition and Metabolism.* 45(2): 47-57.
8. **Barre, D.E.,** Chen, C., Cooker, L., and Moberly, J.B.* **1999.** Decreased *in vitro* formation of AGEs with Extraneal™ solution compared to dextrose-containing PD solutions. *Advances in Peritoneal Dialysis.* 15 :12-16.
7. **Barre, D.E. 1998.** Lipoprotein (a) reduces platelet aggregation via apo(a)-mediated decreases in thromboxane A₂ production. *Platelets.* 9(2):93-96.
6. **Barre, D.E. 1995.** Human platelets have cholesteryl ester hydrolytic activity toward plasma high density lipoproteins. *Platelets* 6:126-30.
5. **Barre, D.E. 1995.** Human platelets have cholesterol ester hydrolytic activity resulting in 1-(¹⁴C) oleate esterification to the individual phospholipids of platelets. *Biochim. Biophys. Acta* 1254:180-186.
4. **Barre, D.E.,** Guerra, R., Verstrate, R., Wang, Z., Grundy, S.M*. and Cohen J.C*. **1994.** Genetic analysis of a polymorphism in the human apolipoprotein A-I gene promoter: effect on plasma HDL-cholesterol levels. *Journal of Lipid Research.* 35: 1292-96.
3. **Barre, D.E.** and Holub, B.J*. and Chapkin R.S*. **1993.** The effect of borage oil supplementation on human platelet aggregation, thromboxane B₂, prostaglandin E₁ and E₂ formation. *Nutrition. Research.* 13: 739-751.
2. **Barre, D.E.** and Holub, B.J.* **1992.** The effect of borage oil consumption on human plasma lipid levels, and the phosphatidylcholine and cholesteryl ester composition of high density lipoprotein. *Nutrition. Research.* 12: 1181-1194.
1. **Barre, D.E.** and Holub, B.J*. **1992.** The effect of borage oil consumption on the composition of individual phospholipids in human platelets. *Lipids* 27: 315-320.

PAPERS/PUBLICATIONS-NON-REFEREED

2. **Barre, D.E. 2010.** Omega 3, Metabolic Syndrome and Type 2 Diabetes. Comment by the winner of the 2009 Journal of Oleo Science Impact Award. Journal of Oleo Science 10: 293. **PLEASE NOTE THAT THIS JOURNAL IS A REFEREED JOURNAL BUT THIS ARTICLE WAS NOT PEER-REVIEWED.**
1. **Barre, D.E. 2009.** Type 2 diabetes - “Sowing the seeds for a solution”-article posted on the Cape Breton University Faculty Association (CBUFA) website:
http://www.cbufa.ca/news/index.php/news/news_item/type_2_diabetes_sowing_the_seeds_for_a_solution/

INVITED (UPON PEER REVIEW AND ACCEPTANCE OF) SUBMITTED ABSTRACTS IN PUBLISHED CONFERENCE PROCEEDINGS

18. **Barre, D. E. 2016.** No Impact of Flaxseed Lignan Complex Consumption on Plasma LDL Apolipoprotein B Concentration-Adjusted Antioxidant Potential and -Adjusted LDL Oxidation Levels in Older Type 2 Diabetes Patients. Canadian Journal of Diabetes 40: S62.
17. **Barre, D. E. 2015.** Relationship of alpha-linolenic acid consumption to serum fatty acid levels and insulin resistance in type 2 diabetes. World Diabetes Congress, Vancouver, B.C. 30 November - 4 December 2015 abstract number, VA-1726, Poster number 0279-P. Poster Presentation, <http://www.idf.org/files/abstracts/data/HtmlApp/main.html>
16. **Barre, D. E. 2015.** Flaxseed lignan complex consumption fails to improve plasma lipid and apo B profiles in older type 2 diabetes patients. World Diabetes Congress, Vancouver, B.C. 30 November - 4 December 2015, abstract number VA-1725. Poster number 0417-P. Poster Presentation. <http://www.idf.org/files/abstracts/data/HtmlApp/main.html>
15. Miedema, B., Tranchant, C., Mathieu Bélanger, M., Taylor, J., **Barre, D.E.**, Montelpare, W. **2015.** Creating healthy transitions in Maritime families/Créer des transitions saines chez les familles des Maritimes. The *CARE/SAINES* Project. New Brunswick Health Research Foundation Annual Meeting, Fredericton, New Brunswick, 3-4 November 2015. **Poster presentation by Dr. Carole Tranchant.**
14. **Barre, D.E. 2014.** Flaxseed Lignan Complex Consumption Thus Far Fails to Change Plasma Total Peroxyl Radical-Trapping Potential and Two LDL Oxidation Measures in Older Patients with Type 2 Diabetes-More Study Required. Canadian Diabetes Association. Professional Conference. Canadian Journal of Diabetes, Vol. 38, Issue 5, S19. **Oral Presentation.**

13. Cunha, G.B, M.C. MacDonald, M.C. Arivalagan, P, **Barre, D.E.** and MacInnis J.A. **2014.** Rhodotorula glutinis phenylalanine/tyrosine ammonia lyase enzyme catalyzed synthesis of the methyl ester of para-hydroxy cinnamic acid 97th Canadian Chemistry Conference, Canadian Society of Chemistry, Vancouver, British Columbia. **Accepted. Oral Presentation by Dr. D’Cunha.**
12. Grant, SM, Josse, R, **Barre, DE,** Wolever, TMS. **2014.** The effect of continuous sipping of a glucose solution on markers of oxidation in men and women. Canadian Nutrition Society Conference, St. John’s, Newfoundland and Labrador. **Oral Presentation by Ms. Grant.** Appl. Physiol. Nutr. Metab. 39:622.
11. **Barre, D.E 2013.** The Impact of Flaxseed Lignan Complex Consumption on Waist to Height and Hip Ratios, Body Weight, BMI, Insulin Resistance, Percent Pancreatic Beta Cell Function, Free Fatty Acids, HDL2- HDL3- and non- HDL-cholesterol and Lp(a) in Older Human Type 2 Diabetics. Canadian Diabetes Association. Professional Conference. Montreal, Quebec. Canadian Journal of Diabetes 37: Supplement 4: S71.
10. **Barre, D.E 2013.** The relation of alpha-linolenic acid consumption via flaxseed oil supplementation to insulin resistance in type 2 diabetics-the delivery throws a curve ball and so now what? American Oil Chemists Society, Annual Meeting, Montreal, Quebec- published in the online conference proceedings
https://secure.aocs.org/am2013/abstracts/getpdf.cfm?pdf=hn\H%26N_5.pdf
Use the password 2013amlist and then go to Health and Nutrition 5
9. **Barre, D.E. 2012.** Canadian Diabetes Association. Waist Circumference Gain and Prothrombotic State Combination Management in Older Human Type 2 Diabetics: A New Agent on the Horizon? Canadian Diabetes Association Professional Conference. Vancouver, British Columbia. Canadian Journal of Diabetes (Supplement to 36:s66-s57) Abstract number 229.
8. **Barre, D.E. 2011.** Canadian Diabetes Association. Impact of Flaxseed Oil Consumption on Correlations of Individual Plasma Free Fatty Acids with Insulin Resistance and Beta Cell Function Professional Conference. Toronto, Ontario. Canadian Journal of Diabetes (Supplement to 35(4):page 419). Abstract number 191.
7. **Barre, D.E. 2010.** Canadian Diabetes Association “Flaxseed Lignan Complex Significantly Decreases Inflammation and Plasma Glucose Concentration and Increases Bleeding Time in Older Human Type 2 Diabetics”. Professional Conference. Edmonton Alberta. Canadian Journal of Diabetes (Supplement to 34(3):page 248). Abstract number 10.
6. **Barre, D.E. 2004.** Human lipoprotein (a) is an endogenous regulator of agonist-stimulated platelet binding of fibrinogen and platelet c-AMP concentrations resulting in reduced platelet aggregation. Proceedings of the 43rd annual meeting of the Japan Oil Chemists’ Society meeting. Nihon Yuka Gakkai Nenkai Koen Yoshishu 43: page 69. Abstract number 2F-06.

5. **Barre, D.E. 2004.** The arginyl-glycyl-aspartyl epitope of human apolipoprotein(a) inhibits platelet aggregation by antagonizing the IIb subunit of the fibrinogen (GPIIb/IIIa) receptor. *Circulation* 110(17) Suppl: III-329. Abstract number 13366 (presentation number 1578).
4. **Barre, D.E.,** Chen, C., Cooker, L.C. and Moberly, J.B. **1999.** Decreased *in vitro* formation of AGEs with Extraneal™ solution compared to dextrose-containing solutions. *Peritoneal Dial. Int.* 19 Suppl. 1:S76.
3. **Barre, D.E.,** Usher, D., Rader, D., and Moberly, J.B. **1998.** Lp(a) inhibits platelet aggregation by antagonizing the fibrinogen (GPIIb/IIIa) receptor. *Circulation.* 98(17):Suppl. I: 525. Abstract number 2754.
2. **Barre, D.E. 1994.** Platelet cholesteryl ester hydrolytic activity provides oleate for esterification to individual phospholipids of human platelets. Aspen 1994 Lipid Conference Proceedings.
1. Cohen, J.C., **Barre, E.,** Verstraete, R., Davignon, J., Grundy, S.M. and Minnich, A. **1993.** Genetic analysis of a polymorphism in the Apo AI gene promoter. *Circulation* 88 (4 Pt. 3) I 368. Abstract number 1431.

INVITED LECTURES (OUTSIDE CBU) AND INVITED (UPON PEER REVIEW AND ACCEPTANCE OF ABSTRACTS) CONFERENCE PRESENTATIONS-UNPUBLISHED

- 35. D.E. Barre March 2014-**gave an oral presentation at the Cape Breton Health Research Symposium 2014-Sydney, Nova Scotia. The Impact of Flaxseed Lignan Complex on Waist Circumference-Associated Clinically Significant Cluster of some Anthropometric, Endocrinological and Plasma Variables in Older Human Type 2 Diabetics
- 34. D.E. Barre -October 2012-** prepared a talk to the Research Connector meeting, sponsored by Springboard Atlantic Incorporated, in Truro, Nova Scotia about my research to further expand research connections with other researchers working in the nutraceutical field-talk was given by Kyle Jackson from Springboard Atlantic Incorporated (I was presenting at the Canadian Diabetes Association meeting in Vancouver and could not attend Truro).
- 33. D.E. Barre -January 2012-** gave a talk to the Research Connector meeting at CBU about my research to further expand research connections with other health researchers including those at the Cape Breton Health District Authority and Cape Breton University.
- 32. D.E. Barre-November 2011-** gave a talk to the Research Connector meeting at CBU about my research to further expand research connections with industry
- 31. D.E. Barre -May 2011-Cape Breton Health Research Symposium 2011-**Sydney, Nova Scotia- “Does flaxseed lignan complex (FLC) put us on the road to polypharmacy reduction in type 2 diabetes”

- 30. D.E. Barre -January 2010-Genuine Progress Index Survey-Glace Bay, Nova Scotia** gave a seminar in - “Diets and Health Indicators in Glace Bay and Kings County-Differences, Impacts and Explanations”
- 29. D.E. Barre -October 2009 -St. Francis Xavier University-** gave a seminar- “The impact of flaxseed oil on anthropometric measures, dyslipidaemia, glucose management, blood pressure, inflammation and platelet reactivity in human type 2 diabetics”
- 28. D.E. Barre October 2009 -Acadia University-Genuine Progress Index Seminar-**gave a seminar at - “Diets and Health Indicators in Glace Bay and Kings County-Differences, Impacts and Explanations”
- 27. D.E. Barre -November 2008-Fisheries and Oceans Canada** gave a talk entitled “Nutrition over the years” to a pre-retirement group at in Westmount, Nova Scotia
- 26. D.E. Barre -April 2008 -Cape Breton Health Research Symposium (“Chronic Illness Prevention and Management: A Personal and Public Concern”)** gave a talk entitled “The flax and nothing but the flax or any part thereof- investigating the potential role of flaxseed in eliminating polypharmacy in type 2 diabetes”
- 25. D.E. Barre -January 2008-Cape Breton Health Research Centre Brown Bag Lunch Lecture-** gave a talk entitled “The flax and nothing but the flax or any part thereof- investigating the potential role of flaxseed in eliminating polypharmacy in type 2 diabetes”
- 24. D.E. Barre-May 2007-Grade 5 class at Sydney River Elementary School at Sydney River, Nova Scotia-**gave a talk entitled “Nutrition and exercise”
- 23. D.E. Barre -November 2006 -Canadian Diabetes Association- Cape Breton Chapter sponsored Seminar Series at the Glace Bay Hospital (Glace Bay, Nova Scotia)** “Flaxseed oil trial in human type 2 diabetics”
- 22. D.E. Barre -October 2006-CBU Chemistry Department Seminar Series** “Flaxseed oil trial in human type 2 diabetics”
- 21. D.E. Barre -June 2006 -Seminar at the Department of Biochemistry at Memorial University in St. John’s, Newfoundland** "Mechanisms by which human lipoprotein (a) is an endogenous regulator of agonist-stimulated platelet fibrinogen binding and aggregation"
- 20. D.E. Barre -June 2006-Talk given to primary school student at Membertou Public School- Membertou, Nova Scotia-** “Nutrition and exercise” in which I discussed the importance of good nutrition and physical activity to health and the prevention of type 2 diabetes, the latter a particularly serious issue among Aboriginal youth in Cape Breton.
- 19. D.E. Barre -May 2006- Cape Breton Health Research Symposium(“Broadening the Definition of Health:Making Healthier Choices Together”)** at Cape Breton University, Sydney, Nova Scotia at which I presented a lecture entitled “Flaxseed oil trial in type 2 diabetics”.

- 18. D.E. Barre -January 2006-Guest Speaker Series on Health at Cape Breton University-** gave at talk entitled “Nutrition and Diabetes in Humans”
- 17. D.E. Barre March 2005-Cub’s group at Coxheath, Nova Scotia-**gave a talk entitled “Nutrition and exercise”
- 16. D.E. Barre -February 2005 -School of Nutrition and Dietetics.Acadia University. Wolfville, Nova Scotia.** “Gender impacts platelet aggregation and dyslipidemia and their responsiveness to dietary flaxseed oil supplementation in type 2 diabetics in the Cape Breton Regional Municipality”.
- 15. D.E. Barre -November 2003-**gave a talk on Nutrition and Diabetes to the Sydney Rotary Club
- 14. D.E. Barre October 2003** -gave a talk on Nutrition and Diabetes to the Family Studies Teachers Association Conference at Sherwood Park Middle School in Sydney, Nova Scotia
- 13. D.E. Barre -June 2003** -Cape Breton Health Research Symposium (“Broadening the Definition of Health: Building Research Through Partnerships”) at the Cape Breton University, Sydney, Nova Scotia at which I presented a lecture entitled “Nutraceutical Interventions in Type 2 Diabetes”.
- 12. D.E. Barre -April 2002** -Seminar at the Department of Nutrition, St. Francis Xavier University, Antigonish, Nova Scotia “The Effect of Borage Oil Consumption and Other Nutraceuticals on Risk Factors in Atherosclerosis”.
- 11. D.E. Barre- March 2002-** Seminar at the Department of Health Sciences, Brock University, St. Catharines, Ontario “The Effect of Borage Oil Consumption on Human Plasma Lipids and Platelet Reactivity and Platelet Phospholipid Compositions”.
- 10. D.E. Barre-** November 2001-Seminar at the Department of Human Nutrition, St. Francis Xavier University, Antigonish, Nova Scotia “The Effect of Borage Oil Consumption on Human Plasma Lipids and Platelet Reactivity and Platelet Phospholipid Compositions”.
- 9. D.E. Barre -March 2001-**Seminar at the Nutrition and Pharmacy Journal club, University of Saskatchewan, Saskatoon, Saskatchewan. Presented a paper on the influence of genetic polymorphisms on impact of the dietary polyunsaturated to saturated fatty acid ratio on plasma low density lipoprotein levels
- 8. D.E. Barre -December 2000-**Seminar at the University of Saskatchewan, Saskatoon, Saskatchewan. “Human Lipoprotein (a) mediated platelet aggregation”.
- 7. D.E. Barre -March 2000-**Seminar at the Novo Nordisk Pharmaceutical firm in Copenhagen, Denmark. “Lp(a) inhibits platelet aggregation by antagonizing the fibrinogen (GPIIb/IIIa) receptor”.

6. **D.E. Barre -November 1999-Journal Club at Baxter Healthcare's Renal Division in McGaw Park, Illinois** -Presented a paper on the impact of hyaluronic acid on the effect of advanced glycosylation endproducts at a journal club I organised in August 1995.
5. **D.E. Barre -September 1996-Journal Club at Baxter Renal Division in McGaw Park, Illinois** Presented a paper on Lp(a) levels in patients on hemodialysis, continuous ambulatory peritoneal dialysis and healthy controls.
4. **D.E. Barre -August 1995-Journal Club at the Baxter Healthcare Renal Division in McGaw Park, Illinois, USA** Presented a paper on the control of intermediate density lipoprotein levels in human plasma by pravastatin.
3. **D.E. Barre-March 1995-Seminar at the Baxter Healthcare Renal Division in McGaw Park, Illinois.USA.**Presented a seminar entitled "Borage Oil and Atherosclerosis".
2. **D.E. Barre -August 1994-Seminar at the Efamol Research Institute in Kentville, Nova Scotia.** Presented a seminar entitled "Borage Oil and Atherosclerosis".
1. **D.E. Barre -April 1992-Seminar at the Center for Human Nutrition at the University of Texas Southwestern Medical Center at Dallas.** Gave a seminar entitled "The Effect of Borage Oil Consumption on Human Plasma Lipids and Platelet Reactivity and Platelet Phospholipid Compositions"

RESEARCH GRANTS

Sole applicant (D.E. Barre)-all sole applicant grants completed

Further blood plasma individual free fatty acids (PIFFA) identification and quantitation-method development-\$8000, Cape Breton-University-RAP grant, April 2015-March 2016

Blood plasma apolipoprotein B concentrations in type 2 diabetics consuming flaxseed lignan complex, -\$8000, Cape Breton-University-RAP grant April 2014-March 2015

Blood plasma total peroxy radical trapping capacity (TRAP) in type 2 diabetics consuming flaxseed lignan complex -\$8000 Cape Breton-University-RAP grant, April 2013-March 2014

Conjugated dienes in low density lipoproteins in type 2 diabetics plasma consuming flaxseed lignan complex -\$8000, Cape Breton-University-RAP grant- April 2012-March 2013

Determination of blood plasma enterolactone levels and their correlation with changes seen in glucose management and platelet reactivity in human type 2 diabetics consuming flaxseed lignan complex. \$750 Cape Breton University SSRA grant, April 2011-March 2012

The effect of bolus consumption and continuous sipping of a glucose solution with and without vitamin C consumption on markers of oxidation in men and women, \$1600. Cape Breton Health Research Centre, April 2011-March 2012

Blood plasma enterolactone assay for the flaxseed lignan complex trial in human type 2 diabetics, \$7000, Cape Breton-University-RAP grant, April 2011-March 2012

Development of method for measuring metabolites of flaxseed lignan complex in human blood plasma of type 2 diabetics, \$492 Cape Breton University SSRA grant April 2010-March 2011

Interleukin-6 and Tumour Necrosis Factor-alpha assays and measures of drug compliance in human type 2 diabetics consuming flaxseed lignan complex, \$5529, Cape Breton Health Research Centre April 2010-March 2011

Flaxseed lignan complex impact on interleukin-6 and tissue necrosis factor-alpha concentrations (plus refrigerator purchase) -\$6997, Cape Breton-University-RAP grant, April 2010-March 2011

Purchase of DNA dedicated pipets -\$1000, Nova Scotia Health Research Foundation under their Capacity Building (for developing research skills) -Special Consideration Award Programme, April 2009-March 2010

Nutrigenetics of cholesterol responsiveness to flaxseed lignan complex in type 2 diabetics \$293.80 Cape Breton-University-SSRA grant April 2009-March 2010

Flaxseed lignan complex administration in human type 2 diabetics, \$8000, Cape Breton Health Research Centre, April 2009-March 2010.

Nutrigenetics of cholesterol responsiveness to flaxseed lignan complex in type 2 diabetics and purchase of a tube rotator, \$6999.14, Cape Breton-University-RAP grant April 2009-March 2010

Development of a novel high performance liquid chromatographic (HPLC) method for quantification of all individual serum fatty acids including trans-fatty acids in type 2 diabetics, \$303.03, Cape Breton-University-SSRA grant, April 2008-March 2009

HPLC method development for total blood serum fatty acids including trans fatty acids in type 2 diabetics, pH meter purchase, and summer student help, \$4996.57 Cape Breton-University-RAP grant April 2008-March 2009

Impact of Flaxseed Lignan Complex in Type 2 Diabetics, \$10000, Nova Scotia Health Research Foundation- Developmental/Innovation grant, April 2007-March 2008

Infrastructure operating funds grant in support of June 2002, CFI grant, \$56574, CFI, July 2007-present

Purchase of a digital camera and microwave oven, \$1317.00, Nova Scotia Health Research Foundation under their Capacity Building Programme (for developing research skills), April 2007-March 2008

Apolipoprotein E genotyping in Type 2 Diabetics, \$603.02, Cape Breton University-SSRA grant, April 2007-March 2008

Apolipoprotein E genotyping in Type 2 Diabetics, \$4998.56, Cape Breton University-RAP grant April 2007-March 2008

Development of an HPLC Method to Determine the Blood Plasma Individual Free Fatty Acids Composition in Human Type 2 Diabetics, \$701.75, Cape Breton University-SSRA grant, April 2006-March 2007

Power Pack and Transilluminator Purchase -\$4778.00 Cape Breton University-RAP grant, April 2006-March 2007

Purchase of an orbital shaker, \$1951.00, Nova Scotia Health Research Foundation under their Capacity Building Programme (for developing research skills) March 2006-March 2007

Eppendorf Tube Rotor for the High Speed Centrifuge -\$4862.00, Cape Breton University-RAP grant, November 2005-October 2006

Development of an HPLC method to measure glycosylated haemoglobin, \$672.98, Cape Breton University-SSRA grant, April 2005-March 2006

Funding for improving the efficiency of the nutraceutical laboratory, \$4976.00, Cape Breton University-RAP grant, April 2005-March 2006

Purchase of a digital logging scale, \$1875.00, Nova Scotia Health Research Foundation under their Capacity Building Programme-February 2005-January 2006

Additional funding to expand the number of parameters for the current flax oil trial in type 2 diabetes, \$596, Cape Breton University-SSRA grant, April 2004-March 2005

Additional funding to expand the number of parameters for the current flax oil trial in type 2 diabetes, \$4678.00, Cape Breton University, RAP grant, April 2004-March 2005

Student technician-\$892.00 (September 2003-March 2004)- CBU Registrar-special fund for student employment

Summer student-\$1015, Human Resources Development Canada April 2002-August 2002

Nutraceutical lab for type 2 diabetes Canadian Fund for Innovation(CFI) portion \$188,578, partner contributions brought the total for this grant to \$471,446- the Canadian Fund for Innovation- June 2002-May 2003.

Student technician -\$800.00 CBU Registrar-special fund for student employment, September 2002-March 2003

Flaxseed oil management of type 2 diabetes -\$15088, Cape Breton University- funds derived from Canadian Institutes for Health Research (CIHR) institutional grant to Cape Breton University, May 2002-April 2003

Co-applicant

Ongoing 2016-2017

Tranchant C., **Barre, DE** (co-primary applicant) et al. Creation of a Comprehensive Health Profile of Children in New Brunswick and Prince Edward Island and Development of Intra-Provincial Population-Based Birth Cohorts, CIHR and New Brunswick Health Research Foundation each awarded \$83,125 for a total of \$166,250 (Barre's share, \$10,000)

Ongoing 2014-2017

Zello, G, Chilibeck, P and Barre, D.E. et al. Effect of a pulse-based diet on the health of women with polycystic ovarian syndrome: Phase II investigation- 374,962 Agriculture Canada. 1 May 2014-30 April 2017 (Barre's share, \$11,000 to 35,000 depending on number of assays)

Ongoing 2013-2018

Harris SB (Principal Investigator at Western University), Barre DE et al April 2013. Transformation of Indigenous Primary Healthcare Delivery (FORGE AHEAD): Community - driven Innovations and Strategic Scale-up Toolkits \$2,500,000, CIHR 1 July 2013 to 30 June 2018. First nations student co-supervised: Keah Googoo- September 2013-August 2014- survey data entry and analysis, report writing, telephone reminders (Barre's share-final amount undetermined but at least 2200 dollars for student)

Completed 2015

Miedema, B., Barre, DE (co-primary applicant) et al. Creating HeALthy Transitions in MaRitimE Families/Créer des transitions **SAINES** chez les familles des Maritimes: The *CARE/SAINES* Project. Amount asked (3.9 million dollars (1.95 million from PHAC and 1.95 million dollars matching funds from other source(s))(Barre's share to be determined) full grant proposal-funded January 2015 pending receipt of matching funding- matching funding currently being secured. **Matching funding was not secured.**

Miedema, B., Barre, DE (co-primary applicant) et al. Creating Healthy Transitions in Maritime Families: The CARE/SAINES Program. **Letter of Intent accepted by Public Health Agency of Canada (May 2014).**

Completed 2012

Harris, S.B. (Principal Investigator at the University of Western Ontario), Barre, DE. et al (from other universities across Canada) First Nations Community-based Chronic Disease System Improvement Strategy, (total of 36,000 dollars) planning grant from CIHR, October 2011-September 2012. (Barre's share 2000.00)

Completed 2011-2014

Wolever, TMS (Principal Investigator), Barre DE et al (at the University of Toronto and some of its affiliated hospitals) . The effect of a low glycemic index (GI) diet on maternal glycemic control and maternal and neonatal markers of postpartum diabetes risk in women with gestational hyperglycemia" \$444,989, CIHR-1 October 2011 - 30 September, 2014 (Barre's share \$27,000)

Completed 2011

Bierenstiel M, MacQuarrie, S and Barre E. UPLC-MS-MS/PAD: Liquid Chromatography Mass Spectrometry Instrumentation for Multidisciplinary Applications in Chemistry Research and Nutrition Science"- CFI-Leaders Opportunity Fund- CFI contribution of \$315,000-partner contributions brought the total for this grant to \$792,200, 1 January 2011 - 30 December 2011 (Barre's share 264,000)

Ongoing 2011-2021

Bierenstiel M, MacQuarrie, S and Barre E. UPLC-MS-MS/PAD: Liquid Chromatography Mass Spectrometry Instrumentation for Multidisciplinary Applications in Chemistry Research and Nutrition Science" \$95,064 CFI-Leaders Opportunity Fund- Institutional Operating funds - 1 January 2011 - 30 December 2021, (Barre's share \$31,688)

Completed 2008-No money given

Muir, A, Barre DE et al. Clinical trial using flaxseed lignan complex in type 2 diabetics, 3.5 million dollars Agricultural Bioproducts Innovation Programme (Agriculture Canada), 1 September 2008-30 August 2011, Barre's share \$35000 (\$15000 year 1, \$15000 year 2 and \$5000 year 3)-**please note that we received a letter indicating we were successful and later received a second letter indicating that the programme was oversubscribed and no money was awarded to anyone in our group.**

Collaborator

Wolever, TMS (Principal Investigator), **Barre DE** et al (at the University of Toronto and other universities across Canada), Meeting to develop an RCT on the Role of Cereal Fibre in the Prevention of Type 2 Diabetes, **14,000 dollars** planning grant from CIHR, 1 October 2011-30 September 2012. (**Barre's share \$1000**).

Grants-Dean, School of Professional Studies**Travel**

2009(\$1500, International Diabetes Federation Biannual Meeting in Montreal)
 2010(\$1800, Canadian Diabetes Association Professional Meeting in Edmonton)
 2011(\$1500, Canadian Diabetes Association Professional meeting in Toronto)
 2012(\$1800, Canadian Diabetes Association Professional meeting in Vancouver)
 2013(\$1424, American Oil Chemists Society annual meeting in Montreal)
 2013(\$ 800, Canadian Diabetes Association Professional meeting in Montreal)
 2014(\$2266.47, Canadian Diabetes Association Professional meeting in Winnipeg)
 2015(\$1800, International Diabetes Federation Biannual Meeting in Vancouver)
 2016(\$1400, Canadian Diabetes Association Professional meeting in Ottawa)

Students Hired as Research Assistants

NAME	DEPARTMENT	RESEARCH TOPIC	FULL or PART TIME	TIME FRAME
L. George	Health Sci and EM	UPLC identification and measurement of plasma individual free fatty acids	PT PT PT	Jan-March 2016 Nov-Dec 2015 July-Sept, 2015
E. MacDonald	Health Sci and EM	Flaxseed lignan complex and type 2 diabetes	FT	May-Aug, 2014
K. Googoo	Health Sci and EM	Improving pre- and post-onset type 2 diabetes management in First Nations communities in Canada	PT	Sept 2013--Aug, 2014
E. MacDonald	Health Sci and EM	Flaxseed lignan complex and type 2 diabetes	FT	June-Aug, 2013
A. Rudiuk	Health Sci and EM	Flaxseed lignan complex and type 2 diabetes	FT	May-Aug, 2012
A. Rudiuk	Health Sci and EM	Flaxseed lignan complex and type 2 diabetes	FT	May-Aug, 2011
E. Stelmach	Health Sci and EM	Flaxseed lignan complex and type 2 diabetes	FT	May-Aug, 2010
E. Stelmach	Health Sci and EM	Flaxseed lignan complex and type 2 diabetes	FT	May-Aug, 2009
S. MacCormick	Health Sci and EM	Flaxseed lignan complex and type 2 diabetes	PT	Nov 2008-Aug, 2009
E. McNeil	Health Sci and EM	Flaxseed oil and type 2 diabetes	PT	Sept 2007-Aug 2008
A. Blois	Health Sci and EM	Flaxseed oil and type 2 diabetes	FT	May- Aug, 2006
J. Ene	Health Sci and EM	Flaxseed oil and type 2 diabetes	FT	May- Aug, 2005
J. Hogan	Health Sci and EM	Flaxseed oil and type 2 diabetes	FT	May-Aug, 2004
J. Hogan	Health Sci and EM	Flaxseed oil and type 2 diabetes	FT	May-Aug, 2003
N. Campbell	Health Sci and EM	Flaxseed oil and type 2 diabetes	FT	May-Aug, 2002

CONSULTING WORK

March 2010 -provided my expertise to the Nova Scotia government in developing their “Food and Nutrition Support Policy for Regulated Child Care Settings” -my comments were primarily directed to better nutrition in CBRM daycares but were also applicable to early childhood nutrition across the province

September 2009- provided guidance on clinical trial design to a Sydney, Nova Scotia neurologist regarding vitamin D intervention in multiple sclerosis

March 2009-a medical doctor’s consultation with me regarding a patient’s evaluation relative to work I had published.

February 2004-February 2005- unpaid consultant to local dessert manufacturing company (Classic Cheesecakes) interested in the fat content of their products

UNIVERSITY COMMITTEES

Education Department, term faculty position selection committee, member, May- June 2016

Enrollment Services Initiative Committee, member, March 2016-present

School of Professional Studies-Research Conference Travel Fund Committee, member, February 2016-present

Executive committee of senate, member, September 2014- June 2015

Probation, Promotion and Tenure committee, member (to complete the term of Dr. Jane Lewis who became interim dean of the School of Professional Studies on 1 February 2014 and hence could no longer serve as a faculty representative on the Probation, Promotion and Tenure committee), member, Feb.-March 2014

School of Professional studies academic committee member, December 2013-present

Committee to improve the human kinetic offerings within BACS, member, October 2012-present

Quality assurance committee of SPS (representing Health Sciences and Emergency Management, **co-chair (with Maureen Finlayson)**, September 2013-February 2014, member, May 2012-February 2014

Search committee, organic chemistry, maternity leave position, member, April-May 2012

Senate standing committee on research –**member**, September 2011-June 2015; **Chair**, September 2014-June 2015

Senate, member, September 2011-June 2015

Selection committee for emergency management faculty position in Health Studies, member, July - August 2011

Selection committee for a nurse practice educator at CBU, **chair**, June -August 2011

Nursing curriculum advisory committee, member, September 2010-present

University Senate Budget Advisory Committee, member, September 2010-present

Performance Review Committee for School of Graduate and Professional Studies- member July 2010 –present

B.Sc. Nursing degree committee - Chemistry Department representative, member, April 2010-December 2013

Committee designed to improve the content of courses offered and to be offered in the Sport and Human Kinetics aspect of the BACS programme at CBU, member, November 2009- present

Senate member, September 2007- June 2008

By-laws committee of the CBU Senate member, September 2007- June 2008

B.Tech. degree programme committee member April 2006-June 2008

Sabbatical and Industrial Leave Committee (SAIL) committee at CBU member, April 2006-June 2008

Probation, Promotion and Tenure (PPT) Committee at CBU, member, April 2006-June 2008

By-laws committee of the CBU academic council, member, October 2005-August 2007

CBU Academic council (replaced by Senate in September 2007) representing the Department of Health Studies, member October 2005-August 2007

Committee to hire replacement instructors for a sabbatical leave **-chair-** April-June 2008

Selection committee for a term Biology department faculty position (January to April 2006), member, October 2005

Bylaws committee of the CBU academic committee, member, October 2005- August 2007

CBU academic council, member, October 2005-August 2007

B.Sc. degree committee, **vice chair**, September 2005-September 2006

Webpage committee for the Department of Biology, member, October 2004-September 2005

CBU recruitment advisory committee, member June 2004-June 2005

CBU Web advisory committee, member, June 2004-June 2005

Selection committee for two tenure track faculty positions (parasitology/molecular biology) in Biology, member June-July 2003

B.Sc. Nursing programme degree committee, member, April 2003-November 2013

Selection committee for tenure track faculty position (biodiversity) in Biology, member, March-May 2003

B.Sc. degree committee, member, January 2003-September 2006

Selection committee for school secretary for Physical and Applied Sciences and Life Sciences, member, January 2003

Selection committee for the term (January to April 2003) faculty position in animal behaviour, member, December 2002

Close cognates committee for Behavioural and Life Sciences Member, member, February 2002-May 2002

**PROFESSIONAL AND ASSOCIATION OFFICES AND COMMITTEE ACTIVITY
OUTSIDE UNIVERSITY**

PROFESSIONAL SOCIETIES

Faculty advisor, Canadian Society for Nutritional Sciences- February 2014-present
Clinical and Scientific Section, Canadian Diabetes Association, July 2014-present

JOURNAL ARTICLES AND GRANTS PEER REVIEWED**Articles**

	Journal name	Number of first reviews	Number of subsequent re-reviews of some of the same papers (done at the request of the editors to assess authors' responses to first reviews)
1	AFRICAN JOURNAL OF AGRICULTURAL RESEARCH	1	
2	AMERICAN JOURNAL OF CLINICAL NUTRITION	2	
3	ANNALS OF NUTRITION AND METABOLISM	2	
4	APPETITE	4	3
5	APPLIED PHYSIOLOGY NUTRITION AND BIOCHEMISTRY	1	
6	BRITISH JOURNAL OF HAEMATOLOGY	3	
7	BRITISH JOURNAL OF NUTRITION	1	
8	CLINICAL MEDICINE: ENDOCRINOLOGY AND DIABETES	1	
9	DRUG TARGET INSIGHTS	1	
10	EUROPEAN JOURNAL OF CLINICAL NUTR	3	2
11	FASEB JOURNAL	1	
12	HORMONE AND METABOLIC RESEARCH	5	2
13	INTERNATIONAL JOURNAL OF DIABETES IN DEVELOPING COUNTRIES	3	
14	INT JOURNAL OF FOOD SCIENCES AND NUTR	2	
15	INT JOURNAL OF HEALTH SCIENCES	1	
16	INTERNATIONAL JOURNAL OF VITAMIN AND NUTRITION RESEARCH	1	
17	JOURNAL OF DIABETES AND ITS COMPLICATIONS	17	4
18	JOURNAL OF FOOD CHEMISTRY AND NUTRITION	1	
19	JOURNAL OF LIPID RESEARCH	2	
20	JOURNAL OF PUBLIC HEALTH AND EPIDEMIOLOGY	1	
21	JOURNAL OF THE AMERICAN COLLEGE OF NUTRITION	2	
22	LIPID INSIGHTS	6	
23	LIPIDS	1	
24	METABOLISM	28	9
25	MOLECULAR NUTRITION AND FOOD RESEARCH	1	
26	NUTRITION RESEARCH	2	4
27	NUTRITION JOURNAL	1	
28	PERITONEAL DIALYSIS INTERNATIONAL	3	
	TOTAL ARTICLE REVIEWS	97	24
	TOTAL ARTICLE REVIEWS (INITIAL AND SUBSEQUENT) = 121		

JOURNAL ARTICLES AND GRANTS PEER REVIEWED**Grants**

	Granting Agency	Number reviewed
1	Cape Breton Health Research Centre	1
2	CIHR	6
3	Medical Research Council of Canada	1
4	Mitacs	2
5	Nova Scotia Health Research Foundation	1
6	Poultry Council of Canada	1
7	Wellcome Trust	1
	TOTAL GRANTS REVIEWED	13

Total article and grant reviews = 134

PUBLIC AND COMMUNITY CONTRIBUTIONS**UNIVERSITY RELATED:**

July 2016-gave a talk to children in sports camp at CBU on sports nutrition

July 2016- gave a presentation to African Nova Scotian students (grades 8-11) on careers in human nutrition

July 2016- helped a post-doc from another CBU lab learn use of HPLC in my lab and with method development for his HPLC assay

March 2016 -Science fair judge at the Regional Science fair for Cape Breton junior high and high school students

February 2016- participated in the University 101 recruitment drive

February/March 2016-went to Memorial, Glace Bay, Breton Education Centre, Riverview, Eskasoni and Sydney Academy high schools as part of ongoing CBU recruitment drive efforts

January 2016-science fair judge at Riverview High School in Sydney, NS.

March 2015 -Science fair judge at the Regional Science fair for Cape Breton junior high and high school students

February 2015-reviewed Nutrition related aspects of the current CBU webpage for accuracy in preparation for transfer of material to the new CBU webpage

February 2015-participated in the University 101 recruitment drive

January 2015-science fair judge at Riverview High School in Sydney, NS

November 2014- gave lectures and tours of my labs as part of the CBU open house

October 2014-attended “breakfast with the boys” at Centre 200 as part of the men against violence toward women effort- I, along with others, represented the School of Professional Studies

October 2014-disseminated information for two local companies wanting to hire people with a nutrition background

September 2014-participated in welcoming meeting and lunch with new public health and nutrition students-this included giving a brief overview talk on the nutrition transfer options from CBU and employment opportunities in nutrition

July 2014-June 2015-Vice Chair -School of Professional Studies

June 2014- provided written comments to Dr. Wheeler, Gordon MacInnis and Dale Keefe regarding building a robust department of Health Sciences and Emergency Management after their meeting with that department.

June 2014- provided written comments to Dr. Wheeler, Gordon MacInnis and Dale Keefe regarding building a robust department of Chemistry after their meeting with that department.

April 2014- participated in CBU’s second University 101 recruitment session

April 2014- participated in a meeting with nursing faculty (at their request) and non-nursing faculty teaching nursing students to discuss concerns about nursing students

March 2014-participated in the CBU Majors session at CBU designed to help students make decisions on what course of study to follow-provided information to potential students

March 2014 -Science fair judge at the Regional Science fair for Cape Breton junior high and high school students

February 2014-participated in CBU’s University 101 recruitment evening

January 2014- provided suggestions via email to Dr. Wheeler on student enrollment including international student enrollment.

January 2014- attended candidate presentations and provided written comments to the selection

committee regarding the candidates for interim dean of SPS

January 2014 -science fair judge at Riverview High School in Sydney, NS.

December 2013-present-served on School of Professional studies academic committee

November 2013-provided written input on future strategic directions for CBU to the CBU president

November 2013-visited 6 Cape Breton High Schools (Iona, Memorial, Breton Education Centre, Glace Bay, Sydney Academy, and Riverview) and presented information about Health Sciences and Emergency Management (including nutrition) for purposes of recruitment to CBU

October 2013- helped a first nations student from Eskasoni with experimental design to attempt to elucidate why first nations people have higher levels of type 2 diabetes compared to non-first nations persons –this student went on to win a bronze medal in the Canada-wide Science Fair in May 2014 for his project in this area

July 2013-June 2104-chair-School of Professional Studies

June 2013- administered an exam at CBU to a former CBU student taking a distance course through St. FX University

March 2013- science fair judge at the Regional Science fair for Cape Breton junior high and high school students

February 2013-represented Nutrition at the University 101 information and recruitment night at CBU

January-March 2013- provided guidance on use of plate reader to a foreign student researcher in Chemistry at CBU

January 2013-present-worked to find and later act as faculty mentor to CBU student representatives to the Canadian Nutrition Society

January 2013 - science fair judge at Riverview High School in Sydney, NS.

December 2012-helped to write a position paper on potential dissolution of the School of Professional Studies

October 2012-helped a former nutrition student with assessment of menu planning in terms of colour, shape, size, texture, consistency, and flavor for a retirement home in Ontario

March 2012- poster judge for CBU research week

March 2012 -Science fair judge at the Regional Science fair for Cape Breton junior high and high school students

February 2012- participated by promoting nutrition offerings at CBU during a CBU recruitment night held at CBU

February 2012 provided guidance to a Nova Scotia Community College (Marconi campus, Sydney, Nova Scotia) student for her course project on improving food choices particularly so for diabetics using Cape Breton food banks

January 2012 -science fair judge at Riverview High School in Sydney, NS.

December 2011-represented Nutrition at CBU recruiting function at Riverview High School in Coxheath, Nova Scotia

December 2011 – facilitated via witnessing of and collection of signed consents and being an observer of interview) the focus group interview on the CBU campus (conducted by videoconference with **(Canadian Association of Student Nurses (CASN) in Ottawa)**. **This was regarding the study entitled “Palliative and End-of-Life Care ‘Piloting Project Formative Process Evaluation’”**- This study involved open-ended questions asked by an individual in Ottawa that were specific to student learning experiences in the CBU nursing programme so as to better understand CBU nursing student learning experiences. These experiences, in turn, could help guide future curriculum development, specifically in the area of palliative and end-of-life care

October 2011 -Provided guidance to a Sydney NS high school student on obtaining help to do fat and protein and sodium content analysis of meat

September 2011 to November 2011– helped a Sydney Academy grade 12 student learn about doing vitamin C analysis in organically- versus conventionally-grown carrots via HPLC

October 2011- helped a colleague with an NSERC grant application by providing comments on the application

July 2011- wrote a research profile (submitted to summer student in research office) for purposes of highlighting my research efforts for the CBU and broader communities.

July 2011-June 2013-Vice-chair of the School of Professional Studies

June 2011-assisted a summer student from another CBU lab with method for measuring iron in water

January 2011- contributed ideas on building collaborative research efforts between and within each of the Cape Breton District Health Authority and CBU at a research café meeting

May 2011 - Provided comments to MPHEC on modification of a nutrition degree programme.

May 2011-gave an invited seminar - Cape Breton Health Research Symposium 2011 -“Does flaxseed lignan complex (FLC) put us on the road to polypharmacy reduction in type 2 diabetes”

March 2011-Science Fair Judge at the Regional Science fair for Cape Breton junior high and high school students

January 2011-science fair judge at Riverview High School in Sydney, NS.

October 2010- Processed whole blood from the Sydney site for a chromosomal study being done in Los Angeles, California

October 2010- contributed ideas on building collaborative research efforts between and within each of the Cape Breton District Health Authority and CBU at a research café meeting

September 2010- participated in a 90 minute session to welcome first year Nutrition students

September 2010-participated for 2 hours in a CBU recruitment drive held at CBU

June 2010 - arranged several demonstrations in my lab for purposes of CBU videotaping for recruitment purposes-this included the use of my summer student and a visiting colleague from Kwantlen Polytechnic University in Vancouver BC.

May 2010 -provided written input to the CBU vice-president (academic) on candidates for the dean of research position at CBU

May 2010 -helped a faculty member with resubmission of a grant application

May 2010 - attended for the full day the Students' Healthcare Career Fair at the Membertou Trade and Convention Centre, Membertou, Nova Scotia- I represented CBU's recruiting efforts for the Human Nutrition transfer option

April 2010 - Chaired a roundtable discussion on collaborative research at the 8th annual Cape Breton Health Research Symposium entitled "Collaboration: A Key to Opening the Doors to Research"

March 2010-judge in the Cape Breton Regional Science Fair for Cape Breton junior high and high school students

March 2010 -provided information on infant nutrition to a CBU nursing professor teaching a section on that topic

March 2010 - Provided my expertise to the Nova Scotia government in developing their "Food and Nutrition Support Policy for Regulated Child Care Settings"

February 2010 – science fair judge at Riverview High School in Sydney, NS.

January 2010 - showed 6 groups, of about 7 secondary school students each, through my laboratory and gave a talk to each group on my research into type 2 diabetes for the Honour's Enhancement Program at CBU –this was part of the university and chemistry department recruiting efforts.

September 2009- provided guidance on clinical trial design to a Sydney, Nova Scotia neurologist regarding vitamin D intervention in multiple sclerosis

June 2009-present –provided some information to a professor at Kwantlen Polytechnic University in British Columbia on UCCB's transition to university only status

June 2009- helped a student in New Zealand interpret a meta-analysis paper on peritoneal and hemo-dialysis as part of her work toward a post-graduate degree in Nursing

November 2009-gave a laboratory demonstration on human DNA genotyping as part of a series of demonstrations given by the Department of Chemistry for the grade 9 day at CBU.

August 2009- assisted a CBU faculty member with preparation of his first sabbatical leave application

May 2009- participated in a CBU health sciences recruitment day at the Cape Breton Regional Hospital

May 2009-provided information regarding the CBU nutrition transfer option to the CBU Web Writing Support/Student Coordination Officer in terms of the development of the new CBU webpage

April 2009- attended a Cape Breton Health Research Centre sponsored research café meeting at CBU where I gave a brief talk on my research at CBU-this meeting was meant to enhance joint Cape Breton District Health Authority/CBU research efforts

April 2009- participated in a faculty photo shoot for the new CBU webpage

March 2009 - provided information to a physician in Toronto on the potential relationship between lipoprotein(a) and excessive bleeding in a patient for whom a diagnosis was proving difficult

February 2009- participated in a discussion with the 5th Vanier Boy Scouts (Sydney, NS) about nutrition and health

February 2009- judge at Riverview secondary school science fair (Coxheath, NS)

December 2008-attended a one-half day student recruitment session for CBU at Riverview High School in Coxheath, NS.

November 2008-prepared a summary of my research for the faculty research news section of the Cape Breton University Faculty Association website

November 2008- gave a talk entitled “Nutrition over the years” to a pre-retirement group at Fisheries and Oceans Canada in Westmount, Nova Scotia

September 2008- provided information for the development of a new Chemistry Department website

June 2008 - reviewed and made comments on a proposal for a B.Sc. (food science) programme at Dalhousie University and submitted to Cape Breton University for comment

June 2008-provided suggestions for enhancing recruitment at CBU to the Cape Breton University Faculty Association

April 2008- participated in a CBU health sciences recruitment day at the Cape Breton Regional Hospital

February 2008-participated in the planning, organization and conduct of the “What can CBU do for you?” recruitment nights (2 evenings each evening session lasting 2 hours)

February 2008-participated in the CBU recruitment day at Holy Angels high school in Sydney

December 2007-provided answers to a local high student doing a health project on dietary sodium intake

November 2007-attended a recruitment night at Glace Bay High School to encourage interest in nutrition courses and the nutrition transfer programme at CBU

November 2007-attended a recruitment night at Breton Education Centre in New Waterford to encourage interest in nutrition courses and the nutrition transfer programme at CBU

September 2007- provided information on my recent publications to the Publicity Committee of the Cape Breton University Faculty Association.

September 2007-present- attempting put in place ten, 5000 dollar scholarships for the nutrition transfer programme

August 2007-met with the head of the Cape Breton Health Research Centre to discuss ideas to promote health research between CBU and the Cape Breton District Health Authority

May 2007- provided written comments on recruiting new students and retaining current students to a member of the President’s Task force on recruitment

May 2007-arranged for a photography session featuring nutrition students in my laboratory-this photography session was used for recruitment purposes by Cape Breton University

May 2007- provided written comments regarding renewal of a CBU dean’s contract

May 2007- provided guidance to a University of Western Ontario assistant professor regarding experiments using lipoprotein (a)

May 2007- Grade 5 class at Sydney River Elementary School at Sydney River, Nova Scotia-gave a talk entitled “Nutrition and exercise”

March 2007- completed a survey for a Community studies student at Cape Breton University on the nutrition of both on- and off-campus students attending CBU.

February 2007-gave a talk at Cape Breton University about the Nutrition transfer programme at the Cape Breton University recruitment night

January 2007-provided guidance on her curriculum vitae and contacts for a McMaster University student applying for a co-op work placement in Pharmacology

November 2006- gave a Canadian Diabetes Association-Cape Breton Chapter sponsored seminar entitled “Flaxseed oil trial in human type 2 diabetics” for health professionals at the Glace Bay Hospital in Glace Bay, Nova Scotia

September 2006-wrote sections on nutrition for the “View Book” used as a student recruitment tool to promote the School of Education, Health and Wellness- I along with others in the School of Education, Health and Wellness also proofed the entire “View Book”

September 2006- did measures of excellence analysis plus a Strengths, Weaknesses, Opportunities and Threats analysis for Dean Jane Lewis regarding the Nutrition transfer programme

June 2006-reviewed a research proposal from a colleague at the University of Guelph developing a novel way of detecting breast cancer in its earliest stages-such review contributed to a decision on how to proceed

June 2006-gave guidance to a colleague at the University of Guelph writing a grant proposal for a novel way of detecting breast cancer in its earliest stages

May 2006-provided information about the Nutrition transfer programme at CBU to a guidance counselor from Cabot High School on Cape Breton Island

May 2006-showed an applicant to the Nutrition transfer programme around the campus and arranged for her questions about the transfer programme and CBU to be answered

April 2006- helped a CBU faculty member prepare his capacity building grant application to the Nova Scotia Health Research Foundation

March 2006-provided information to a fourth year nursing student at Cape Breton University who is scheduled to give a public presentation on eating well on a low budget.

March 2006-organised a lunch with secondary school students and the Dean of Education, Health and Wellness. These students had expressed an interest in the Nutrition transfer programme at Cape Breton University

February 2006-assisted a student with a paper on diabetes for a 4th year nursing course

February 2006- assisted another faculty member with his application for a Nova Scotia Health Research Foundation (NSHRF) grant

January 2006-present -vice-chair of Department of Health Sciences and Emergency Management at Cape Breton University

January 2006 -assisted a biology faculty member at CBU to acquire and learn about equipment for his experiments

December 2005-attended a parent student meeting at Breton Education Centre in New Waterford, Nova Scotia to give information on and discuss nutrition courses and the nutrition transfer programme at Cape Breton University

November 2005-gave a day long demonstration of my laboratory during the Cape Breton University Open House

October 2005-wrote a summary of my research for Kelly Rose, Mike Kelloway and Carole Macleod to be used as part of a full page advertisement in the Cape Breton Post to highlight the importance and relevance to the Cape Breton public of individual research projects undertaken by Cape Breton University faculty who received CIHR funding. My summary included highlighting the outcomes of my research and student involvement in those outcomes.

September 2005-June 2008-assisted with curriculum development for MSIT 401 and MSIT 403 laboratories

September 2005-provided information about nutrition and guidance on nutrition instruction to a laboratory instructor teaching an MSIT laboratory

August 2005-provided commentary on video describing my research and my laboratory equipment in operation-commentary provided to Ms. Lisa Paterson of Cape Breton University for use in the promotion of Cape Breton University

February 2005-provided material for a sabbatical leave presentation for a Cape Breton University faculty member

December 2004-participated in preparation of letter of intent for a potential CIHR application dealing with healing language to improve Mi'kmaq health

November 2004-June 2010-worked on obtaining emergency hydro for critical instruments for the Biology department

September 2004-provided assistance to new faculty preparing documents for review of performance

August 2004-assisted a new faculty member with preparation of his CFI application

June/August 2004- available first 2 weeks of June and all of August on each Tuesday for course counselling

June 2004-provided information to a new faculty member on obtaining software for dietary analysis

June 2004-provided information to a new faculty member on successful grant writing to the Registrar's special student assistant projects

May 2004-wrote a short piece for Cecil Smith at CBU on how my research could be commercialised in conjunction with the Atlantic Research Commercialisation Network (part of the Atlantic Innovation Fund). This piece was used in local papers.

April 2004-assisted a person from Pakistan in making contacts with Dietitians of Canada and pursuing other options to facilitate her becoming a registered dietitian in Canada

April 2004-contacted Mount Saint Vincent University in Halifax to determine the conditions by which Nutrition students from CBU could finish their Honours B.Sc. in Nutrition at Mount Saint Vincent University

March 2004-assisted in the writing of material describing my laboratory for promotional purposes by Canada Foundation for Innovation

March 2004-provided help with sphingomyelin fatty acid composition methodology to a scientist at NIH in Bethesda, Maryland

March 2004- arranged time for additional photographs of my functioning laboratory-such photographs are to be used by the Canada Foundation for Innovation and CBU for promotional purposes

March 2004-arranged with another faculty member to have the library obtain a subscription to The American Journal for Clinical Nutrition which will provides an excellent teaching and learning resource for CBU

February 2004-assisted another faculty member in obtaining cost estimates and making other arrangements for potentially purchasing a scanner for CBU to mark multiple choice examinations and perform other data collection

February 2004-helped a student, for whom English is a second language, correct grammar, spelling and expression in a laboratory report for a Biology course

November 2003-gave information to the BA committee which allowed it decide that Nutrition courses at CBU were suitable for pairs or electives for the BA degrees from CBU

November 2003-gave a tour of my laboratory to the senior management group at a request made on their behalf

November 2003-discussed the Nutrition transfer programme with a guidance counsellor at Memorial High School in Sydney Mines, NS; provided information and counselling on the programme to a student at Memorial High School in Sydney Mines, NS.

November 2003-assisted a student in preparing documents for her application to graduate school

November 2003-attended a meeting and contributed to discussions on space utilisation in A-wing

November 2003-provided information to new faculty on successful CFI grant application writing

October 2003- arranged time for photographs of my laboratory-such photographs are to be used by Advancement at CBU for promotional purposes

October 2003 –assisted a student in prepare her presentation on type 2 diabetes for Biology 202

September 2003-wrote a letter of support for a CBU faculty member applying for a health-related research grant.

August 2003-supervised one high school student for 2 weeks for the Atlantic Provinces Council on the Sciences programme to introduce the student to university level science

December 2002-observed CIHR grant adjudication process in Hull, Quebec (Population Health). My report on my observations was filed with Dr. Joanne Gallivan, Dean of Research at CBU in December 2002-this process will help future CBU applicants file stronger grant submissions to CIHR

November 2002-assisted with the completion of tender forms for another CFI grant holder at CBU.

September 2002-April 2003 Supervised research assistant student volunteering for fall winter term to meet her volunteer requirement to graduate. The student assisted with library searches, ordering supplies, labelling tubes, and financial accounting for my laboratory.

May 2002-present-wrote and continually update a promotional handout on nutrition courses and the transfer option at CBU

March 2002- Participated in the discussions about a possible palliative care course to be run jointly with CBU and the Cape Breton Regional Hospital.

February 2002-Participated in high school recruitment night by giving seminar about nutrition courses and the Honours B.Sc. transfer programme in Human Nutrition at CBU.

October 2002-present- provided **100** references (oral and written) for various persons nominated for awards or applying for further study or jobs.

June 2002-provided information on CFI grant to and participated in a CFI promotional photographic session with local Member of Parliament

May 2002-September 2006- Served as the CBU representative at the Cape Breton Regional Hospital Ethics Committee

August 2001- present -Regularly attended and contributed to departmental meetings; regularly available for student counselling during the summers of 2002-14 inclusive (including all day sessions in August 2002, 2004, 2007 and July and August 2003, 2005, 2006); contributed to the proposals for modifications to A-wing. I have shared my expertise, laboratory facilities, and space with other faculty and staff at Cape Breton University.

NOT UNIVERSITY RELATED:

May 2012-present – Member, communications coordinator, volunteer for regattas, fundraising and meal preparation, parent advisory group for **junior sailing programme, Northern Yacht Club, North Sydney, NS**

EXTENSION PUBLICATIONS AND ACTIVITIES

MEDIA INTERVIEWS

May 2011-wrote an article for the **Cape Breton Post** on the financial implications of type 2 diabetes for healthcare system and how my research is attempting to combat those implications

January 2010- gave an interview to the **Cape Breton Post** on my work with the nutrition data arising from the Genuine Progress Index survey conducted in Glace Bay and Kings County.

March 2009- gave an interview to **CBC radio** in Sydney, NS regarding my research with flaxseed lignan complex in type 2 diabetes

September 2007- gave an interview to the **Cape Breton Post** regarding my NSHRF grant “Impact of a flax lignan complex in human type 2 diabetics”

August 2007-gave an interview to **CBC radio** regarding my NSHRF grant “Impact of a flax lignan complex in human type 2 diabetics”

February 2004- gave an interview to the **Cape Breton Post** on nutritional issues in Cape Breton and Nova Scotia

February 2003- gave an interview to the **Cape Breton Post** regarding the use of nutraceuticals in type 2 diabetes

October 2002- gave interviews to **CBC radio, CBC, Global and CTV television** as well as the **Cape Breton Post** regarding my research in type 2 diabetes

August 2002-gave an interview to the **Cape Breton Post** regarding my research and the CFI grant

July 2002-gave an interview to **CBC radio (Cape Breton)** regarding my research and the CFI grant

Researchers external to CBU who may provide assessment of my research:

Dr. Rhonda Bell, Professor of Nutrition, University of Alberta, rhonda.bell@ualberta.ca

Dr. Harold Aukema, Professor of Nutrition, University of Manitoba,
harold.aukema@umanitoba.ca

Dr. Bruce Holub, Professor Emeritus of Nutrition, University of Guelph, bholub@uoguelph.ca

Dr. Carol Henry, Associate Professor of Nutrition, University of Saskatchewan,
cj.henry@usask.ca

Dr. Phyllis Paterson, Professor of Nutrition, University of Saskatchewan,
phyllis.paterson@usask.ca

Dr. Carla Taylor, Professor of Nutrition, University of Manitoba, carla.taylor@umanitoba.ca