

CURRICULUM VITAE

Name: Carol Elizabeth GREENWOOD

Date and Place of Birth: May 17, 1952, Montreal, Quebec, Canada

Citizenship: Canadian

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Education:

B.Sc.	1974	Food Science	Macdonald College of McGill University
M.Sc.	1976	Food Chemistry	University of Toronto. Thesis title: Acute and short term toxicological studies on the synergistic effects of food additives. Supervisor: A.V. Rao.
Ph.D.	1980	Nutrition	University of Toronto. Thesis title: The effect of maternal diet on weanling serotonin metabolism and protein feeding behaviour offspring. Supervisor: G.H. Anderson.

Experience:

1978 - 1980 Coordinator and Partial Lecturer. School of Continuing Studies. University of Toronto.

1980 - 1983 Postdoctoral Research Fellow. Massachusetts Institute of Technology. Dept. Nutrition and FoodScience. Laboratory of Neural and Endocrine Regulation. Supervisor: R.J. Wurtman.

Appointments:

1983 - 1988	Assistant Professor	Dept of Nutritional Sciences, University of Toronto, Toronto.
1987 -	Graduate Faculty	School of Graduate Studies, University of Toronto, Toronto.
1988 - 2001	Associate Professor	Dept. of Nutritional Sciences University of Toronto, Toronto.
1988 -1993	Graduate Coordinator	Dept. of Nutritional Sciences University of Toronto, Toronto.
1993 -	Adjunct Professor	Dept. Pathology, Boston University School of Medicine
1994- 2002	Scientist	Kunin-Lunenfeld Applied Research Unit and Dept. Foods and Nutrition Baycrest Centre for Geriatric Care
2001 -	Professor	Dept. of Nutritional Sciences University of Toronto, Toronto.
2002 -	Senior Scientist	Kunin-Lunenfeld Applied Research Unit and Dept. Foods and Nutrition Baycrest Centre for Geriatric Care

Awards and Prizes:

1974 - 1975	National Research Council Studentship
1977 - 1980	Medical Research Council Studentship
1980	Health Sciences Award, University of Toronto
1981 - 1983	Medical Research Council Fellowship
1979	American Institute of Nutrition Graduate Student Award
1988	International Life Sciences Institute - Nutrition Foundation, Future Leader Award
2003	Faculty of Medicine Graduate Teaching Award – University of Toronto

Professional Societies:

American Institute of Nutrition
Canadian Societies for Nutritional Sciences
Society for Neurosciences

SIGNIFICANT ADMINISTRATIVE DUTIES

2004	Chair, PhD Comprehensive Examination Re-evaluation Committee, Dept. Nutritional Sciences, Univ. of Toronto
2003-present	Member, Promotions Committee, Faculty of Medicine, Univ. of Toronto
2000-present	Member, Strategic Planning Committee, Dept. Nutritional Sciences, Univ. of Toronto
1999	Member, Search Committee, Department of Nutritional Sciences – Community Nutrition Position
1999	Member, Search Committee, Department of Nutritional Sciences – Diet and Cancer Position
1999	Member, Tenure Committee, Dr. V. Tarasuk
1998	Member, Search Committee, Hospital for Sick Children, Division of Nutrition Services
1998- present	Chair, Education Committee, KLRU, Baycrest Centre for Geriatric Care
1996/1997	Member, Search Committee, Department of Nutritional Sciences – Chair
1994-1999	Member, PhD Comprehensive Examination Committee
1994- present	Member, University of Toronto Research Services Committee
1988-93	Graduate Coordinator, Department of Nutritional Sciences
1990-92	Member, Executive Committee, School of Graduate Studies
1990-92	Chair, Faculty Animal Care Committee
1990-92	Member, University Animal Care Committee
1989-91	Member, Dean's Advisory Committee for the Basic Sciences
1989-present	Member, Senior Advisory Committee, Department of Nutritional Sciences
1990-	Member, Search Committee, Director of Centre for Research in Neurodegenerative Diseases
1989-	Member, Assessment Committee, Ryerson Polytechnical Institute, School of Nutrition, Consumer & Family Studies
1989/1992	Member, Search Committee, Faculty Positions, Department of Physiology
1984-87	Member, Faculty Council, Faculty of Medicine

CURRENT GRANT SUPPORT

1. Natural Sciences and Engineering Research Council of Canada. 2005-2010. Diet as a modulator of brain metabolism and function. \$30,000/year. Principle Investigator.
2. CIHR. Food intake patterns in seniors with cognitive impairment. 2003-2006 Operating \$124,333. Principle Investigator; R. van Reekum and M. Binns co-investigators.
3. CIHR. 2006-2011. Interdisciplinary Capacity Enhancement Grants - Reducing health disparities and promoting equity for vulnerable populations (nursing home residents). Average Annual Budget \$ 162,347/year. Rochon PA (Nominated PI), Anderson GM (Co-PI), Bell C, Bierman A, Bronskill SE, Gill SS, Gold JL, Greenwood C, Tourangeau A.
4. CIHR. 2006-2010. Nutrition quality as a predictor of cognitive decline in elderly individuals: a longitudinal assessment. \$163,353/year. Ferland G (PI), Shatenstein B, Belleville S, Greenwood C, Kergoat M-J, Gray-Donald K, Morais J.

CURRENT GRADUATE STUDENT SUPERVISION

Ph.D.

1. Yanni Papanikalaou. Cognitive enhancing effects of carbohydrate ingestion in adults with type 2 diabetes is dependent upon the quality of carbohydrate consumed.
2. Matthew Parrott. Dietary interventions to slow progression of Alzheimer Disease related pathology in a transgenic mouse model.

M.Sc.

3. Karen Smith. Role of different nutrients in modulating appetite in seniors with Alzheimer Disease.
4. Jyotika Desai. Influence of different macronutrient drinks on post-prandial cognitive function in adults with type 2 diabetes mellitus.
5. Matthew Parrott. Characterization of bioactive dietary intakes and postprandial cognitive performance in persons diagnosed with mild cognitive impairment.
6. Sayeda Moosavi. Medication use and its association with inadequate diet intake in institutionalized seniors.

Graduate Students Supervised

- 1985 MSc John Dyer. Hypermethioninemia, neural methionine utilization, and striatal dopamine receptors in streptozotocin-diabetic rats.
- 1987 MSc Gwen Chapman. The effect of taurine on brain Na,K-ATPase.
- 1987 MSc Yvonne Catty. Insulin restores neural levels of methionine metabolites in diabetic rats.
- 1989 PhD Rosemary Craig. Dopamine metabolism in pregnancy: Impact of amino acid supplementation regional dopaminergic neurons in dams and fetuses.
- 1989 MSc Michelle Shwrey. Effect of chronic dietary protein concentration on the neurochemical response to tryptophan administration.
- 1989 PhD John Dyer. The amount and ratio of essential fatty acids in the diet of the weanling rat differentially affect the fatty acid composition of the brain.
- 1990 PhD Carl McGee. Effect of dietary fat composition on macronutrient selection
- 1991 MSc Pam Lieberman. Response of brain and heart mitochondrial cardiolipin fatty acid profiles to alterations in dietary polyunsaturated fatty acids.
- 1991 MSc Clara Wong. Effect of L-DOPA on dopamine synthesis and tyrosine hydroxylase concentration in young adult nigrostriatal neurons.
- 1994 MSc Josephine Hilton-Manzi. Comparison of the effects of folate, methyltetrahydrofolate and s-adenosyl-methionine on brain methyl transfer under the influence of L-dopa.
- 1996 PhD Sara Dickstein. Appetite regulation in a rat model of chronic renal failure.
- 1997 MSc Randall Kaplan. Influence of dietary saturated fat on macronutrient selection.
- 1997 MSc Mubashira Malik. Effect of retinoic acid on the cholinergic properties of a neuroblastoma cell line (SN56).
- 1997 MSc Kathleen Abraham Philip. The nutritional impact of fluid thickeners on the dysphagic elderly.

- 1997 MSc Sandra Brazel. Resting metabolic rate in women with early stage breast cancer.
- 1999 MSc Sara McCormick. Influence of dietary saturated fat and diet composition on macronutrient selection in rats.
- 1999 PhD Manny Papadimitropoulos. An economic evaluation of calcium and vitamin D versus hormone replacement therapy for the prevention of hip fractures in Canadian post menopausal women.
- 1999 MSc Karen Young. Food intake variability in seniors with cognitive impairment.
- 1999 MSc Sarah Dyer. An investigation of patterns of food intake: An elderly institutionalized population with a high level of cognitive impairment.
- 2002 PhD Randall Kaplan. Carbohydrate-induced enhancement of cognition in seniors.
- 2003 PhD Karen Young. Interventions to enhance food intake in institutionalized seniors with Alzheimer Disease.

CURRENT TEACHING RESPONSIBILITIES

Undergraduate Arts & Sciences

NFS 484F Advanced Nutrition. 3 hrs/week. Enrollment. approx. 35.

School of Graduate Studies

NFS 1484F Advanced Nutrition. 3 hrs/week. Enrollment. aprox. 20.

PUBLICATIONS

Refereed Papers

1. Anderson GH, Leprohon CE, Chambers JW, Coscina DV. Intact regulation of protein intake during the development of hypothalamic or genetic obesity in rats. *Physiol. Behav.* 23:751-755, 1979.
2. Leprohon CE, Woodger TL, Ashley DV, Anderson GH. Effect of mineral mixture in diet on protein intake regulation in the weanling rat. *J. Nutr.* 109:827-831, 1979.
3. Leprohon CE, Anderson GH. Maternal diet affects feeding behaviour of self-selecting weanling rats. *Physiol. Behav.* 24:553-559, 1980.
4. Leprohon CE, Anderson GH. Relationships among maternal diet, serotonin metabolism at weaning and protein selection of progeny. *J. Nutr.* 112:29-38, 1982.
5. Leprohon CE, Blusztajn JK, Wurtman RJ. Stimulation of phosphatidylcholine (lecithin) biosynthesis in rat brain neurons by dopamine. *Proc. Natl. Acad. Sci. U.S.A.* 80:2063-2066, 1983.
6. Yehuda S, Leprohon-Greenwood CE, Dixon LM, Coscina DV. Effects of dietary fat on pain threshold, thermoregulation and motor activity in rats. *Pharmacol. Biochem. Behav.* 24:1775-1777, 1986.
7. Coscina DV, Yehuda S, Dixon LM, Kish SJ, Leprohon-Greenwood CE. Learning is improved by a soybean oil diet in rats. *Life Sci.* 38:1789-1794, 1986.
8. Crane SB, Greenwood CE. Dietary fat source influences neuronal mitochondrial monoamine oxidase activity and macronutrient selection in rats. *Pharmacol. Biochem. Behav.* 27:1-6, 1987.
9. Leprohon-Greenwood CE, Cinader B. Variations in age-related decline in striatal D₂-dopamine receptors in a variety of mouse strains. *Mech. Ageing Develop.* 38:199-207, 1987.
10. Chapman GE, Greenwood CE. Stimulation of brain Na,K-ATPase by norepinephrine but not taurine. *Neurochem Res.* 13:77-82, 1988.
11. Dyer JR, Greenwood CE, McBurney MI. The effects of diet and duration of diabetes on hypermethioninemia in streptozotocin diabetic rats. *Can. J. Physiol. Pharmacol.* 66:95-100, 1988.
12. Dyer JR, Greenwood CE. Evidence for altered methionine methyl-group utilization in the diabetic rat's brain. *Neurochem. Res.* 13:517-523, 1988.

13. Zito KA, Bechara A, Greenwood CE, van der Kooy D. The dopamine innervation of the visceral cortex mediates the aversive effects of opiates. *Pharmacol. Biochem. Behav.* 30:693-699, 1988.
14. Cinader B, Dubiski S, Greenwood CE, Ponnappan U, Saunder DN. Economic correction; Quantity and age-related rate of change. *Mech. Ageing Develop.* 48:111-116, 1989.
15. McGee CD, Greenwood CE, Jeejeebhoy KN. Correction or maintenance of blood and tissue tocopherol levels in rats by intraperitoneally administered alpha-tocopherol acetate. *J. Ent. Paraent. Nutr.* 14:74-78, 1990.
16. McGee CD, Greenwood CE. Effects of dietary fatty acid composition on macronutrient selection and synaptosomal fatty acid composition. *J. Nutr.* 119:1561-1568, 1989.
17. Seniuk NA, Tatton WG, Greenwood CE. Dose-dependent destruction of the coeruleus-cortical and nigral-striatal projections by MPTP. *Brain Res.* 527:7-20, 1990.
18. Greenwood CE, Winocur G. Learning and memory impairment in rats fed a high saturated fat diet. *Behav. Neural Biol.* 53:74-87, 1990.
19. McGee CD, Greenwood CE. Protein and carbohydrate selection respond to changes in dietary saturated fatty acids but not to changes in essential fatty acids. *Life Sci.* 47:67-76, 1990.
20. McGee CD, Greenwood CE. Dietary fat induced changes in protein and carbohydrate selection are not explained by alterations in neuronal membrane fatty acid composition. *Life Sci.* 47: 933-944, 1990.
21. McGee CD, Greenwood CE. Dietary fat induced alterations in protein and carbohydrate selection are not explained by differences in serotonin transmission. *J. Nutr. Biochem.* 2:79-86, 1991.
22. Hishino E, Pichard C, Greenwood CE, Kuo GC, Cameron RG, Kurian R, Kearns JP, Allard JP, Jeejeebhoy KN. Body composition and metabolic rate in rat during a continuous infusion of cachectin. *Am. J. Physiol.* 260:E27-E36, 1991.
23. Greenwood CE, Seniuk NA, Tatton WG, Biddle FE. Increased dopamine synthesis in aging substantia nigra neurons. *Neurobiol. Aging* 12:557-565, 1991.
24. Tatton WG, Greenwood CE, Holland D, Kwan M, Verrier M, Biddle FE. Different rates of age-related loss for four monoaminergic neuronal populations. *Neurobiol. Aging* 12:543-556, 1991.

25. Dyer JR, Greenwood CE. Neural 22-Carbon fatty acids in the weanling rat respond rapidly and specifically to a range of dietary essential fatty acid ratios. *J. Neurochem.* 56:1921-1931, 1991.
26. Greenwood CE, Cinader B. Age-related decline in striatal D₂-dopamine receptors is subject to 'economic correction'. *Gerontology* 37:244-252, 1991.
27. Tatton WG, Greenwood CE, Salo PT, Seniuk NA. Transmitter synthesis increases in substantia nigra neurons of the aged mouse. *Neurosci. Lett.* 131:179-182, 1991.
28. Dyer JR, Greenwood CE. The level of linoleic acid in neural cardiolipin is linearly correlated to the amount of essential fatty acids in the diet of the weanling rat. *J. Nutr. Biochem.* 2:477-483, 1991.
29. Dyer JR, Greenwood CE. Dietary essential fatty acids change the fatty acid profile of rat neural mitochondria over time. *J. Nutr.* 121: 1548-1553, 1991.
30. Tatton WG, Greenwood CE. Rescue of dying neurons: A new action for deprenyl in MPTP parkinsonism. *J. Neurosci. Res.* 30:666-672, 1991.
31. Dickstein S, Greenwood CE, Ng LT, Zlotkin SH. Plasma amino acid concentration in blood samples from tail vein and trunk (after decapitation) in the same animal. *Clin. Chem. News* 18:12 &18, 1992.
32. Winocur G, Greenwood CE. High fat diets impair conditional discrimination learning in rats. *Psychobiology* 21:286-292,1993.
33. McGee CD, Greenwood CE, Cinader B. Dietary fat composition and age affect synaptosomal and retinal phospholipid fatty acid composition in C57BL/6 mice. *Lipids* 29:605-610, 1994.
34. Greenwood CE, Winocur G. Learning and memory impairment in rats: A specific effect of saturated fatty acid intake. *Behav. Neurosci.* 110:451-459, 1996
35. McGee CD, Lieberman P, Greenwood CE. Dietary fatty acid composition induces comparable changes in cardiolipin fatty acid profile of heart and brain mitochondria. *Lipids* 31:611-616, 1996
36. Steele C, Greenwood CE, Ens I, Robertson C, Seidman-Carlson R. Meal-time difficulties in a home for the aged: Not just dysphagia. *Dysphagia* 12:43-50, 1997.
37. Papadimitropoulos EA, Coyte PC, Josse RG, Greenwood CE. Current and projected rates of hip fracture in Canada. *Can. Med. Assoc. J.* 157:1357-1363, 1997.

38. Kaplan, RJ, Greenwood CE. Poor Digestibility of Fully Hydrogenated Soybean Oil: A Potential Beneficial Effect of Hydrogenated Fats and Oils. *J. Nutr.* 128:875-880, 1998.
39. Trigazis, L, Vaccarino, FJ, Greenwood, CE, Anderson, GH. CCK-A receptor antagonists have selective effects on nutrient-induced food intake suppression. *Am. J. Physiol.* 276:R323-330, 1999
40. Philip, K, Greenwood, CE. The use of infant cereals as fluid thickening agents: Their nutrient contribution to diets fed to seniors requiring thickened fluids. *J. Am Diet. Assoc.* 100:549-554, 2000.
41. Winocur, G, Greenwood, CE. The effects of high fat diets and environmental influences on cognitive performance in rats. *Behav. Brain Res.* 101:153-161, 1999.
42. Greenwood, CE, Winocur, G. Glucose treatment reduces memory deficits in young adult rats fed high fat diets. *Neurobiol. Learning Memory* 75:179-189, 2001.
43. Malik, MA, Blusztajn, J.K., Berse, B., Greenwood, C.E. Cholinergic differentiation triggered by blocking cell proliferation and treatment with all-trans retinoic acid. *Brain Res.* 874:178-185, 2000.
44. Kaplan, R.J., Greenwood, C.E., Winocur, G., Wolever, T.M.S. Cognitive performance is associated with glucose regulation in healthy elderly persons and can be enhanced with glucose and dietary carbohydrates. *Am. J. Clin. Nutr.* 72: 825-836, 2000.
45. Dyer, S, Greenwood, CE. Is breakfast the best consumed meal of the day in institutionalized elderly with high level cognitive impairment? *J. Amer. Geriatr. Soc.* 49:494-496, 2001.
46. Young, K.W.H., Greenwood, C.E. Shift in diurnal feeding patterns in nursing home residents with Alzheimer disease. *J Gerontol A Biol Sci Med Sci* 56:M700-M706, 2001.
47. Young, K.W.H., Binns, M., Greenwood, C.E. Meal delivery practices do not meet needs of Alzheimer patients with increased cognitive and behavioural difficulties in a LTC facility. *J Gerontol A Biol Sci Med Sci* 56:M656-M661, 2001.
48. Kaplan, R.J., Greenwood, C.E., Winocur, G., Wolever, T.M.S. Dietary protein, carbohydrate and fat enhance memory performance in the healthy elderly. *Am. J. Clin. Nutr.* 74:687-693, 2001.
49. Kaplan, R.J., Greenwood, C.E. Influence of dietary carbohydrates and glycaemic response on subjective appetite and food intake in healthy elderly persons. *Int. J. Food Sci. Nutr.* 53:305-16, 2002

50. Wendland, B., Greenwood, CE, Weinberg, I., Young, K.W.H. Malnutrition in institutionalized seniors: the iatrogenic component. *J. Am. Geriatr. Soc.* 51:85-90, 2003.
51. Papadimitropoulos E. Wells G. Shea B. Gillespie W. Weaver B. Zytaruk N. Cranney A. Adachi J. Tugwell P. Josse R. Greenwood C. Guyatt G. The Osteoporosis Methodology Group and The Osteoporosis Research Advisory Group. Meta-analyses of therapies for postmenopausal osteoporosis. VIII: Meta-analysis of the efficacy of vitamin D treatment in preventing osteoporosis in postmenopausal women. *Endocrine Reviews.* 23(4):560-9, 2002.
52. Greenwood, C.E., Kaplan, R.J., Hebblewithe, S., David J.A. Jenkins. Carbohydrate induced memory impairments in adults with type II diabetes. *Diabetes Care* 26(7):1961-6, 2003.
53. Greenwood, C.E., Tam, C., Chan, M., Young, K.W.H., Binns, M.A., van Reekum, R. Behavioral disturbances, not cognitive impairment, associates with altered food selection in seniors with Alzheimer's disease. *Journals of Gerontology, Series A: Medical Science* 60A:499-505, 2005.
54. Young, K.W.H., Greenwood, C.E., van Reekum, R., Binns, M.A. Providing nutrition supplements to institutionalized seniors with probable Alzheimer's disease is least beneficial to those with low body weight status. *Journal of the American Geriatrics Society* 52:1305–1312, 2004.
55. Young, K.W.H., Greenwood, C.E., van Reekum, R., Binns, M.A. A randomized crossover trial of high carbohydrate foods increases food intake in nursing home residents with Alzheimer's disease with greater cognitive and behavioural difficulties. *Journals of Gerontology, Series A: Medical Science* 60(8):1039-45, 2005.
56. Winocur G, Greenwood CE, Piroli G, Grillo CA, Reznilov, LR, Reagan LP, McEwen BS. Memory impairment in obese Zucker rats: an investigation of cognitive function in an animal model of insulin resistance and obesity. *Behavioral Neuroscience* 119(5):1389-95, 2005.
57. Papanikolaou Y, Palmer H, Binns MA, Jenkins DJA, Greenwood CE. Minimizing meal-induced cognitive decline in adults with type 2 diabetes through low-glycemic index carbohydrate foods. *Diabetologia* 49(5): 855 – 862, 2006.
58. Parrott MD, Young, KWH, Greenwood, CE. Energy containing nutritional supplements can affect usual energy intake post-supplementation in institutionalized seniors with probably Alzheimer's disease. *Journal of the American Geriatrics Society* 54:1382-1387, 2006.

Gopal, J, Winter A, Young KWH, Greenwood CE. Changes in Type of Foodservice and Dining Room Environment Preferentially Benefit Institutionalized Seniors with Low Body Mass Indices. *J Am Diet Assoc* (in press).

Manuscripts Submitted:

1. Chui, MH, Papanikolaou, Y, Fontaine-Bisson, B, Turcotte, J, Wolever, T, El-Sohemy, A, Chiasson, J-L, Rabasa-Lhoret, R, Maheus, P, Ryan, E, Greenwood, CE. The TNF- α -238G>A single nucleotide polymorphism protects against memory decline in older adults with type 2 diabetes. (submitted to *Behav Neurosci*).
2. Chui, MH, Greenwood CE. Postprandial oxidative stress contributes to acute memory deficits in adults with type 2 diabetes. (submitted to *Diabetes Care*).

Reviews

1. Leprohon-Greenwood CE, Anderson GH. An overview of the mechanisms by which diet affects brain function. *Fd. Tech.* 40:132-138, 1986.
2. Greenwood CE. The influence of diet on behaviour. *Contemp. Pediatr.* 2:26-33, 1986
3. Chapman GE, Greenwood CE. Diet, brain and behaviour: Implications for stress management. *Nutr. Quart.* 11:9-13, 1987.
4. Chapman GE, Greenwood CE. Taurine in nutrition and brain development. *Nutr. Res* 8:955-968, 1988.
5. Kaplan R, Greenwood CE. Dietary saturated fatty acids and brain function. *Neurochem. Res.* 23: 615-626, 1998.
6. Greenwood, CE, Winocur, G. Decline in cognitive function with aging: Impact of diet. *Mature Med.* 2:205-209, 1999.
7. Malik, S, Blusztajn, JK, Greenwood, CE. Nutrients as trophic factors in neurons and the central nervous system: Role of retinoic acid. *J. Nutr. Biochem.* 11:2-13, 2000.
8. Greenwood, C.E. Associations Between Diet and Cognitive Decline with Aging. *J. Can. Diet. Assoc.* (in press).
9. Greenwood, C.E., Young, S.N. Dietary fat intake and the brain: a developing frontier in biological psychiatry. *J. Psychiatry Neurosci.* 26:182-184, 2001.

10. Alibhai, SMH, Greenwood, CE, Payette, H. An approach to unintentional weight loss in older adults. *Can. Med. Assoc. J.* 172:773-780, 2005.
11. Smith, KL, Greenwood, CE, Payette, H, Alibhai, SMH. An approach to the diagnosis of unintentional weight loss in older adults, Part One: Prevalence rates and screening. *Geriatrics & Aging* 9:679-685, 2006.

Published Conference Proceedings

1. Greenwood CE, McGee CD, Dyer JR. Influence of dietary fat on brain membrane phospholipid fatty acid composition and neuronal function in mature rats. *Nutrition* 5:278-281, 1989.
2. Tatton WG, Greenwood CE, Seniuk NA, Salo PT. Interactions between MPTP-induced and age-related neuronal death in a murine model of Parkinson's disease. *Can. J. Neurol. Sci.* 19 (suppl. 1): 1:124-133, 1992.
3. Greenwood, CE. Recommended nutrient intakes: what are they? *Can. J. Paediatrics* 1(suppl 1): 1-5, 1993.
4. Greenwood CE. Mechanism whereby vitamins and minerals can influence brain metabolism. In: *Vitamins and Brain Function*. Rosenberg, I.H. & Ronnenberg, A. (Eds.). Foundation for Nutritional Advancement. Boston, M.A. 1994. pp. 13-21.
5. Greenwood CE. Performance-enhancing effects of protein and amino acids. In: *Food Components to Enhance Performance. An Evaluation of Potential Performance-Enhancing Food Components for Operational Rations*. Marriott, B.M. (Ed.). National Academy Press, Washington, D.C. 1994. pp. 263-275.
6. Greenwood, C.E. Dietary Carbohydrate, glucose regulation, and cognitive performance in elderly persons. *Nutrition Reviews* 61(5 Pt 2):S68-74, 2003.
7. Greenwood CE, Winocur G. High fat diets, insulin resistance and declining cognitive function. *Neurobiology of Aging* 26S: S42-S45, 2005.
8. Winocur G, Greenwood CE. Studies of the effects of high fat diets on cognitive function in a rat model. *Neurobiology of Aging* 26S: S46-S49, 2005.

Book Chapters

1. Greenwood CE, Craig REA. Dietary influences on brain function: Implications during periods of neuronal maturation. In '*Current Topics in Nutrition and Disease, Vol. 16. Basic and Clinical Aspects of Nutrition and Brain Development*'. Rassin DK, Haber B, Drujan B (Eds.). Alan R. Liss, Inc., New York. 1987. pp. 157-216.

2. Greenwood CE. Methodological considerations for diet and behaviour studies: A nutritionist's perspective. In 'Diet and Behavior'. Anderson GH, Krasnegor, NA Miller Simopoulos P (Eds.). Springer-Verlag, London. 1990. pp. 193-207.
3. Greenwood CE. Brain and the nervous system: Biology, metabolism and nutritional requirements. Encyclopedia of Human Nutrition, Academic Press, pp 190-197, 1998.

Task Reports - Member of Writing Group

1. Diet and Coronary Heart Disease. Council for Agricultural Science and Technology. Ames, Iowa, U.S.A. Report No. 107, 1985.
2. Diet and Health. Council for Agricultural Science and Technology. Ames, Iowa, U.S.A. Report No. 111, 1987.
3. Nutrition Recommendations: The Report of the Scientific Review Committee. Health and Welfare Canada. 1990.

Steering Committees

1. Member, Ad hoc Group of Experts on Tea Promotion and Health Aspects. FAO. 1992-present.

Grant Committees

1. Member, Ontario Health Survey Grants Competition. 1991.
2. Member, University of Toronto Research Services Committee to review Atkinson and Bickell application. 1994/95.
3. Member, CIHR, Biological and Clinical Aspects of Aging. 2001 – 2004.
4. Member, Canadian Diabetes Association. 2002-2005.
5. Chair, CIHR, Biological and Clinical Aspects of Aging. 2004 - present.

Abstracts

1. Anderson GH, Leprohon CE, Ashley DVM. Effect of mineral mixture in the diet on protein intake regulation by the weanling rat. Can. Fed. Biol. Soc. 20:762, 1977.
2. Anderson GH, Leprohon C, Coscina DV. Protein intake regulation during the development of hypothalamic obesity. Proc. Second Int. Congress on Obesity, pg. 13, 1977.

3. Coscina DV, Leprohon CE, Warsh JJ, Anderson GH. Brain monoamine levels in hypothalamic obese rats who self-select protein and energy intakes. Proc. Second Int. Congress on Obesity, pg. 18, 1977.
4. Leprohon CE, Anderson GH. Protein selection of weanling rats is determined by maternal diet. Proc. Can Fed. Biol. Soc. 21:707, 1978.
5. Leprohon CE, Anderson GH. Maternal diet affects protein selection by weanling rats. Fed. Proc. 38:847, 1979.
6. Leprohon CE, Johnson DJ, Anderson GH. The relationship of maternal diet to protein selection by the offspring is mediated by serotonin. Proc. Can. Fed. Biol. Soc. 23:280, 1980.
7. Leprohon CE, von Borstel R, Blusztajn JK, Wurtman RJ. Adrenergic stimulation of phospholipid methylation in brain. Proc. Can. Fed. Biol. Soc. 25:494, 1982.
8. Blusztajn JK, Leprohon CE, Wurtman RJ. Biosynthesis of phosphatidylcholine (PC) in neurons and sources of choline (Ch) for acetylcholine (ACh) synthesis. Cholinergic Mechanisms: Presynaptic Aspects. Strasbourg, May, 1982.
9. Leprohon CE, Blusztajn JK, Wurtman RJ. Monoamines stimulate phosphatidylethanolamine methylation in rat brain. Soc. Neurosci. 8:197.8, 1982.
10. Reinstein DK, Leprohon CE, Blusztajn JK, Wurtman RJ. Regional distribution of phosphatidylethanolamine-N-methyltransferase(s) activity in rat brain. Soc. Neurosci. 8:197.9, 1982.
11. Leprohon CE, Blusztajn JK, Wurtman RJ. Dopamine stimulation of phosphatidylethanolamine methylation in synaptosomes from rat's brain. Int. Soc. Neurosci. Satellite Meeting, Physiological Role of Phospholipids in the Nervous System. British Columbia, Canada, 1983.
12. Leprohon CE, Wurtman RJ. De novo synthesis of choline in crude synaptosomes from rat's brain is not influenced by atropine or hemicholinium-3. Soc. Neurosci. 9:283.7, 1983.
13. Leach AB, Leprohon CE. Altered methionine metabolism in streptozotocin diabetic rats. Proc. Can. Fed. Biol. Soc. 27:PA-103, 1984.
14. Leprohon CE. In vitro inhibition of phosphatidylethanolamine methylation by zinc. Soc. Neurosci. 10:35.16, 1984.
15. Leprohon CE, Silvestre-Lontok MT. Methionine administration increases the number of ³H-spiperone binding sites in rat's brain striatum. Can. Fed. Biol. Soc. 28:PA-62, 1985.

16. Coscina DV, Yehuda S, Leprohon CE. Behavioural effects induced by qualitative changes in dietary fat. *Soc. Neurosci.* 11:105.12, 1985.
17. Leprohon CE. Diet composition and brain function. *Can. Fed. Biol. Soc.* 28:S-67, 1985.
18. Leprohon CE, Silvestre-Lontok MT, Dyer JR. Methionine administration increases the number of spiperone binding sites in rat's brain striatum. IVth World Congress of Biol. Psych. 334.3, 1985.
19. Dyer JR, Leprohon-Greenwood CE. Evidence for altered methionine methyl-group utilization in the diabetic rat's brain. *Can. Fed. Biol. Soc.* 29:PA-4, 1986.
20. Crane SB, Leprohon-Greenwood CE. Qualitative changes in dietary fat: Effects on brain function and feeding behaviour in rats. *Can. Fed. Biol. Soc.* 29:PO-104, 1986.
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32. Craig REA, Greenwood CE. Amino acid supplementation in pregnancy. FASEB summer conference on 'Nutrition and Brain Function', Vermont. 1987.
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52. Greenwood CE, Winocur G. Dietary saturated fatty acids impair learning and memory in rats. *Soc. Neurosci.* 21: (1995).
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55. Papadimitropoulos EA, Coyte PC, Josse RG, Greenwood CE. Current and projected femoral fractures in Canada. Baycrest Research Day. (1995).

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58. Greenwood CE, Nair K. Breakfast cereals: A low cost means to ensure nutrient adequacy in elderly recipients of home delivered meals. *Exper. Biol.* (1997).
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63. Papadimitropoulos E, Coyte P, Goeree R, Josse R, Greenwood C. A health economic evaluation of calcium/vitamin D versus hormone replacement therapy, for the prevention of hip fractures in postmenopausal women. *ASBMR* (1998).
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72. Winocur, G., Greenwood C.E. Cognitive impairment in rats fed high fat diets. *Eur. Winter Conf. Brain Res. (Les Arcs, France).* 2001
73. Greenwood C.E., Winocur, G. Cognitive enhancing properties of acute macronutrient consumption. *Eur. Winter Conf. Brain Res. (Les Arcs, France).* 2001
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75. Greenwood, C.E., Young, K.W.H. Meal delivery practices are not appropriate for Alzheimer patients with increased cognitive and behavioural difficulties. *World Cong. Geront.* 2001.
76. Young, K.W.H., Greenwood, C.E. Afternoon snacks are of least benefit to institutionalized seniors at risk for under-nutrition. *World Cong. Geront.* 2001.
77. Papadimitropoulos EA, Goeree R, Coyte PC, Josse RG, Greenwood CE. The cost-effectiveness of calcium and vitamin D or hormone replacement therapy versus no intervention in the prevention of hip fractures in Canadian postmenopausal women. *JBMR* 2001;16 (suppl1):S534.
78. Grinberg, N., Greenwood, C.E., Hasher, L. Circadian effects on glucose enhancement of cognition in elderly humans. *Exp. Biol.* 2002.
79. Papanikolaou, Y., Greenwood, C.E., Palmer, H., Jenkins, D.J.A. Improved cognitive performance following ingestion of low- vs. high- glycemic index carbohydrates in adults with type 2 diabetes mellitus. *Exp. Biol.* 2002.

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81. Tam, C; Chan, M; Young, KWH; Binns, MA; van Reekum, R; Greenwood CE. Behavioural disturbances, not cognitive deterioration, associates with altered appetite regulation in seniors with Alzheimer's Disease. 18th Int. Conf. of Alzheimer's Disease. 2002.
82. Grinberg N, Hasher L, Greenwood CE. The cognitive syndrome. An emerging cluster of circadian, metabolic and endocrine factors in cognition. 2nd International Meeting of the International Academy on Nutrition and Aging, 2003.
83. Tam C, Chan M, Young KWH, Binns MA, van Reekum R, Greenwood CE. Behavioural disturbances, not cognitive deterioration, associate with altered appetite regulation in seniors with Alzheimer's Disease. 2nd International Meeting of the International Academy on Nutrition and Aging, 2003.
84. Chavannes R, Young KWH, Greenwood CE. Dietary supplements only enhanced protein intake when provided between meals in an institutionalized senior. 2nd International Meeting of the International Academy on Nutrition and Aging, 2003.
85. Pararajasingam T, Young KWH, Greenwood CE. Dietary supplements enhance intake in institutionalized seniors with Alzheimer's Disease and poor food intake. 2nd International Meeting of the International Academy on Nutrition and Aging, 2003.
86. Young KWH, Greenwood CE, Binns MA, van Reekum R. Body weight status, behavioural difficulties, and cognitive function in Alzheimer's patients: Predictors of energy compensation. 2nd International Meeting of the International Academy on Nutrition and Aging, 2003.
87. Young KWH, Greenwood CE. Providing breakfast-type foods to Alzheimer's patients at poorly consumed meals: An effective nutrition intervention? 2nd International Meeting of the International Academy on Nutrition and Aging, 2003.
88. Greenwood CE, Winocur G. Chronic consumption of high fat diets is associated with cognitive deficits in rats: linkage to human models of insulin resistance and type 2 diabetes. Eur Winter Conf Brain Res. Les Arcs, France, 2003.
89. Greenwood CE, Tam C, Chan M, Young KWH, Binns MA, van Reekum R. Changes in macronutrient selection in seniors with Alzheimer disease: involvement of monoamine metabolism. Eur Winter Conf Brain Res. Les Arcs, France, 2003.
90. Greenwood CE. The fattening of America: cognitive implications. Winter Conference on Brain Research, Colorado, USA, 2004.

91. Piroli GG, Grillo CA, Reagan LP, Reznikov LR, McEwen BS, Winocur G, Greenwood CE. Neurochemical and neuroendocrine alterations associated with cognitive deficits in Zucker diabetic rats. Society for Neuroscience, 2004.
92. Greenwood CE. Food Behavior and Alzheimer's Disease.. International Academy of Nutrition and Aging, Annual Conference, St. Louis, MO, USA.
93. Greenwood CE. Adverse effects of high fat diets: the chronic disease connection. International Academy of Nutrition and Aging, Annual Conference, St. Louis, MO, USA.
94. Greenwood CE. The fattening of America: cognitive implications. Society for Neuroscience, 2005.
95. Greenwood CE. Gopal J, Winter A, Young KWH, Greenwood CE. Changes in Type of Foodservice and Dining Room Environment Preferentially Benefit Institutionalized Seniors with Low Body Mass Indices. 5th Annual KLARU Conference, 2005.
96. Parrott MD, Young, KWH, Greenwood, CE. Energy containing nutritional supplements can affect usual energy intake post-supplementation in institutionalized seniors with probably Alzheimer's disease. 5th Annual KLARU Conference, 2005.

Invited Research Seminars

- 1984 - Jan. `Methylation of phospholipids in the CNS - stimulation by catecholamines'. Playfair Neuroscience Seminar. Toronto Western Hospital, Toronto, Ontario.
- Oct. `Role of serotonin in the regulation of foodintake'. Seminar Research Group - Nutrition. Toronto General Hospital, Toronto, Ontario.
- 1985 - June `The influence of diet on brain metabolism and function'. Interdisciplinary Nutrition Research Group. University of Western Ontario, London, Ontario.
- June `Diet composition and brain function: An overview'. Canadian Federation of Biological Sciences - symposium lecture at annual meeting. Toronto, Ontario.
- Nov. `Dietary modulation of brain metabolism and function'. Department of Psychiatry. McGill University, Montreal, Quebec.
- 1986 - Jan. `Dietary modulation of brain metabolism and function'. Department of Nutritional Sciences. University of Guelph, Guelph, Ontario.

- Feb. `Mechanisms by which diet affects brain function and behaviour'. Department of Biochemistry. Schools of Medicine and Dental Medicine. University at Buffalo, SUNY, Buffalo, N.Y., U.S.A.
- May lecture `Aspartame - current issues'. Ontario Dietetic Association - symposium at annual meeting. Toronto, Ontario.
- Sept. `Dietary effects on behaviour'. Canadian Pediatric Society - symposium lecture at annual meeting. Toronto, Ontario.
- 1987 - Apr. `Diet-induced modifications in neuronal membrane composition – physiological and behavioural consequences'. Department of Brain and Cognitive Sciences. Massachusetts Institute of Technology, Cambridge, MA, U.S.A.
- Nov. Louisiana State University - symposium discussant, `The role of nutrition in the development, differentiation and function of the central nervous system'. New Orleans, LA, U.S.A.

- 1988 - Apr. `Effect of dietary fat on neuronal membrane composition and behaviour'. Dept. Physiology, University of Toronto, Toronto.
- July `Behavioural methodologies - a nutritionist's perspective'. Workshop on Diet and Behaviour Methodologies. International Life Sciences Institute - Nutrition Foundation. Toronto.
- 1989 - Jan. `Influence of dietary fat composition on neuronal function'. Annual Meeting - International Life Sciences Institute - Nutrition Foundation. Bahamas.
- Mar. `Impact of dietary fat on cognitive performance in rats'. Department of Psychology, University of Toronto, Toronto.
- May `Diet, brain and behaviour'. Endocrine Society. Toronto.
- July `Diet and brain development'. Gerber Products Company, Fremont, Michigan.
- Nov. `Diet and brain function', University of Toronto Alumni Association, Toronto.
- 1990 - May `Nutrient recommendations for fibre, carbohydrate and protein', Keith Murray Memorial Symposium, Ottawa.
- May `Food and the brain - Does it matter?'. Monarch Park Collegiate, Toronto.
- June `Nutrient recommendations for Canadians'. Canadian Heart Health Network Annual Meeting, Saskatoon.
- July `Nutrients and the nervous system', Mental Health Conference, Toronto.
- Oct. `The behavioral effects of dietary lipids', "Nutrition and Aging of the Nervous System", Galveston, Texas.
- 1991 - Oct. `Influence of dietary fat on behaviour', Human Nutrition Centre, University of Western Ontario, London, Ontario
- Oct. `Changes occurring in the central nervous system with aging', International Life Sciences Institute - Nutrition Foundation, Tokyo, Japan.
- Nov. `Influence de l'alimentation sur la fonction cerebrale et le metabolisme des neurotransmetteurs'. Euromedecine 91, Montpellier, France.
- 1992 - Feb. `Changes in dietary fat composition: Impact on behavior', Keystone Symposia. Lake Tahoe, U.S.A.

- Feb. `Free amino acids - food or drug', Keystone Symposia. Lake Tahoe, U.S.A.
- Apr. `Changes occurring in the central nervous system with aging: nutritional implications', Human Nutrition Research Center on Aging, Tufts Univ. Boston, U.S.A.
- Nov. `Dietary fat composition: a modulator of behaviour', Monell Chemical Senses Center, Philadelphia, U.S.A.
- Nov. `Potential performance enhancing effects of amino acids', An Evaluation of Potential Performance Enhancing Food Components for Operational Rations. National Academy of Sciences, Washington, DC, U.S.A.
- 1993 May `Health benefits of tea consumption', Annual Conference of the United Kingdom Tea Council, Jersey, United Kingdom.
- Oct. `Lipids and learning'. Dept. Pathology, Boston University School of Medicine, Boston, MA, U.S.A.
- 1994 Jan. `Dietary modification of brain membrane lipid composition and brain function', Symposium: Nutrition and the nervous system. Nutrition Society Winter Meeting, London, United Kingdom.
- 1996 Mar. `Nutrition and food issues in the aging population', Symposium: Nutrition action: Food for an aging population. National Institute of Nutrition, Ottawa, Canada.
- Aug. `Food and nutrition needs of the elderly', Canadian Institute of Food Science and Technology. Annual meeting, Guelph, Ontario.
- 1997 Mar. `Nutrition problems in the institutionalized elderly', Symposium. Los Angeles, California
- Oct. `Nutrition problems in the institutionalized elderly', Symposium: Workshop on infection control surveillance and nutritional problems in long term care. Sunnybrook Health Science Centre, Toronto, Ontario.
- Nov. `Dietary fat and cognition: Does fat consumption make you dumb?'. Wayne State University, Detroit, MI.
- 1998 Mar. `Meal-related needs of seniors with Alzheimer Disease' Symposium: Workshop on feeding seniors with Alzheimer Disease organized by Metro Homes for the Aged. Toronto, Ontario.

- Apr. 'Meal-related needs of seniors with Alzheimer Disease' Symposium :
Workshop on feeding seniors with Alzheimer Disease organized by Metro
Homes for the Aged. Toronto, Ontario.
- Nov. 'Meal-related needs of seniors with Alzheimer Disease' Grand Rounds,
Humber/Finch Hospital. Toronto, Ontario.
- 1999 June 'Impact of diet on cognitive performance'. Mars Foods, London, U.K.
- Aug. 'Impact of diet on cognitive performance in humans'. Generals Mills, U.S.A.
Minneapolis, MN.
- 2001 Mar. 'Cognitive impairment in rats fed high fat diets'. Eur. Winter Conf. Brain
Res. (Les Arcs, France). Presented by G. Winocur; co-authored with C.
Greenwood.
- Mar. 'Cognitive enhancing properties of acute macronutrient consumption'. Eur.
Winter Conf. Brain Res. (Les Arcs, France). Co-authored with G. Winocur.
- Nov. 'Dietary carbohydrate, glucose regulation, and cognitive performance in
elderly persons'. International Symposium on Glycemic Carbohydrate and
Health. Toyko, Japan.
- 2002 June 'Nutrition, exercise and cognitive function in the older adult'. Can. Fed. Biol.
Soc. Annual meeting. Montreal, PQ.
- Nov. 'The role of diet in modulation of cognitive decline with aging'. Centre de
recherché sur le vieillissement. Universitie de Sherbrooke, Sherbrooke, PQ.
- 2003 Mar. 'Chronic consumption of high fat diets is associated with cognitive deficits in
rats: linkage to human models of insulin resistance and type 2 diabetes'. Eur
Winter Conf Brain Res. Les Arcs, France.
- Mar. 'Changes in macronutrient selection in seniors with Alzheimer disease:
involvement of monoamine metabolism'. Eur Winter Conf Brain Res. Les
Arcs, France.
- Aug. 'Conveying the message:activities and opportunities'. International Tea
Convention, Colombo, Sri Lanka.
- Nov. 'Diet as a risk factor for cognitive aging.' Inaugural Research Forum hosted
by the National Research Council Institute for Nutrisciences and Health
(NRC-INH), Charlottetown, PEI.
- 2004 Jan. 'The fattening of America: cognitive implications'. Winter Conference on
Brain Research, Colorado, USA.

- July 'Similarities of rodents and humans to nutrient ingestion'. Do obesity and diabetes affect mood and cognition? Spark Workshop, Maine, USA.
- Oct. 'Quality dining experience: Meeting individual needs'. Annual KLARU Conference, Baycrest Centre for Geriatric Care, Toronto, ON.
- 2005 May 'Food Behavior and Alzheimer's Disease'. International Academy of Nutrition and Aging, Annual Conference, St. Louis, MO, USA.
- May 'Adverse effects of high fat diets: the chronic disease connection'. International Academy of Nutrition and Aging, Annual Conference, St. Louis, MO, USA.
- Nov. 'The fattening of America: cognitive implications'. Symposium lecture – Society for Neuroscience. Washington, DC, USA.
- 2006 Sept. 'Glucose and cognition: Can you get too much of a good thing?' Annual meeting of the British Psychologic Society – Symposium on Glucose and Cognition. Lancaster, UK.
- Oct. 'Studies of the Effects of High Fat Diets on Cognitive Function'. 3rd International Conference on Healthy Ageing & Longevity. Melbourne, Australia.

Public Lectures Since 1998

- 1998 Mar. 'Nutritional needs of seniors'. Baycrest Foundation Lecture Series. Toronto, ON
- 1999 Sept. 'Influence of diet on cognitive performance'. Men's Service Club, Baycrest Centre for Geriatric Care.
- 2000 Mar. 'Influence of diet on cognitive performance: What should we be doing now?' Na'amat Canada. North York, ON
- May 'Influence of diet on cognitive performance: What should we be doing now?' Toronto Alumni Society (Dept. Nutritional Sciences), Toronto, ON
- 2001 Mar. "Protein, insulin & weight loss: What is the real story on low CHO diets? Dieticians workshop. Dairy Council of Canada. Toronto, ON.

- Apr. 'Healthy eating, healthy aging: linking diet to memory loss' "Demystifying Nutrition – Eating Healthy and Aging Well" Healthy Living Lecture Series, Mount Sinai Hospital. Toronto, ON.
- 2004 Apr. 'Diet as a risk factor for cognitive decline with aging.' Humber River Regional Hospital Geriatric Rounds. Toronto, ON
- Oct. 'Different strokes for different folks: The complex nature of providing care to seniors in long term care.' Dietetic internship programme in metropolitan Toronto. Toronto, ON