

KATARINA Tomljenovic BORER

Curriculum vitae 2008

CAREER GOALS:

Research scholarship best describes my central career goal, occupation, and preoccupation during the past quarter of a century. My research explores the mechanisms, regulatory and nonhomeostatic, which partition nutrient energy among growth and other competing behavioral and physiological processes of energy expenditure.

I consider teaching an integral part of research scholarship: a stimulus for integration of facts, and a deductive starting point for laboratory experiments. I particularly value guiding students in the strategies of doing research and teaching courses about regulated biological processes which require integration of diverse facts for full comprehension of function.

I have come to understand the importance of enlightened administration as a prerequisite for successful science as either individual venture or as institutional enterprise and have had some administrative experience in addition to my research and teaching activities.

EXPERIENCE:

1988-present	Professor , Division of Kinesiology Department of Movement Science The University of Michigan, Ann Arbor
2002-2003	Interim Research Associate Dean Division of Kinesiology Department of Movement Science The University of Michigan, Ann Arbor
2002-present	Visiting Professor , Faculty of Kinesiology The University of Zagreb, Zagreb, Croatia
1994-1996	Associate Director for Research and Scholarly Activities Division of Kinesiology The University of Michigan, Ann Arbor
1990-1991 2000-2001	Chairperson Department/Division of Kinesiology The University of Michigan, Ann Arbor
1981-1988	Associate Professor
1977-1981	Assistant Professor Department of Physical Education The University of Michigan, Ann Arbor

1971-1977 **Postdoctoral Scholar**
Neuroscience Laboratory Building
Lecturer, Department of Psychology
The University of Michigan, Ann Arbor.

EDUCATION:

1971-1977 **The University of Michigan,**
Neuroscience Laboratory Building.
Postdoctoral research (Neurobiology/
Psychobiology)

1969-1970 **The University of Miami,** Rosenstiel
School of Marine and Atmospheric Sciences.
Postdoctoral research (Marine Biology)

1962-1966 **The University of Pennsylvania,**
Philadelphia. **Ph.D.** (Zoology)

1961-1962 **The University of Pennsylvania,**
Philadelphia. **B.A.** (Biology)

1959-1961 **The University of Zagreb,** Yugoslavia
(Zoology)

1952-1959 **Classical Gymnasium,** Zagreb, Yugoslavia

RESEARCH FUNDING:

1973-1978 **Small grants** ranging from \$3,000 to \$9,000 per
year from:
Division of Research Development and Administration
The Weight Watchers Foundation, Inc.
National Institute of Mental Health. Small Grants
Program
The University of Michigan Rackham Faculty
Research Grant Program

1978-1994 **National Science Foundation grants:**
"Acceleration of growth by exercise".
1978-1981, \$119,200
"Acceleration of growth by exercise and nutrition".
1981-1984, \$155,000
"Acceleration of growth by exercise: Neuroendocrine
mechanisms". 1984-1989, \$218,000
"Expression of growth by nutrition and exercise"
1990-1993, \$264,828.

U of M sources of funding
1989-1990 "Neuroimmune effects of endurance exercise", \$15,000
1993-1994 "Expression of growth by nutrition and exercise", \$5900

"Gamma counter, Spectrophotometer and Deionizer", \$15,000. Source: Office of the Vice President for Research

- 1999-2000 Undergraduate Research Opportunity Program (UROP) Faculty Recognition Award, Coca Cola funding \$10,000
- 1999-2001 "Exercise, growth hormone, and leptin". Research partner to a clinical investigator, Dr. Josephine Kasa-Vubu, Assistant Professor, Dept. of Pediatrics Source: clinical research partnership funded by the U of M Medical School. \$98,256.
- 2002 UROP Faculty Recognition Award (Outstanding Research Mentor), Coca Cola funding \$1,500
- 2003 "Using exercise and diet for appetite suppression in postmenopausal women". Elizabeth Caroline Crosby Research Fund, National Science ADVANCE Program, \$20,000.
- 2005 **NIH funding:** "Role of exercise in the endocrine control of feeding". PAR-03-053 (Academic research enhancement award). 2 year budget \$225,125.

RECOGNITION AND HONORS:

1961-1970 The University of Pennsylvania:

B.A. magna cum laude, Honors Major
Fellow, Institute of Neurological Science
Orville Paul Phillips and
Bloomfield-Moore fellowships
American Association of University Women
Pennsylvania predoctoral fellowship

The University of Miami:
National Heart Institute : postdoctoral fellowship.

1971-present:

Fulbright Hayes Research Scholarship to Sweden
(1990-1991)

Faculty Achievement Award, The University of
Michigan (1990-1991).

**Member, Council for International Exchange of Scholars,
Area Committee for Scandinavia** (1993-1995).

Ad Hoc Reviewer for:

American Journal of Physiology: Endocrinology and Metabolism
Appetite
Applied Physiology, Nutrition and Metabolism
Behavioral and Brain Sciences
Behavioral Neuroscience
British Journal of Sports Medicine
International Journal of Clinical Nutrition
Journal of Applied Physiology
Journal of Comparative Psychology
Journal of Gerontology-Biological Sciences
Journal of Nutrition
Journal of Physiology
Journal of the Marine Biological Association of the United Kingdom
Kinesiology
Life Sciences
Medicine and Science in Sports and Exercise
Nutrition and Behavior
Osteoporosis International
Pharmacology, Biochemistry, and Behavior
Physiology and Behavior
Sports medicine

N.I.H. Career Development Award **Study Section**, Ad hoc reviewer (1987)

Editorial board member: Physiology and Behavior (1990-1997)
Kinesiology (international journal)(2003-pres)

Member, National Institute of Aging **Special Emphasis Panel** (Older Americans Independence Centers) (2002)

SOCIETY MEMBERSHIP:

1978-present	American College of Sports Medicine
1981-present	American Physiological Society
1984-present	Endocrine Society
1975-present	Society for Neuroscience
1987-2005	Society for the Research on Biological Rhythms
1986-present	Society for the Study of Ingestive Behavior

RESEARCH PUBLICATIONS:

1. Tomljenovic, K. Bioloske zanimljivosti Nizozemske. **Priroda**, 1960, **47**: 1965-1969.
2. Tomljenovic, K. Od Palagruze do Dugog Otoka. **Priroda**, 1961, **48**:137-140.
3. Borer, K.T. Disappearance of preferences and aversions for sapid solutions in rats ingesting untasted fluids. **J.comp.physiol.Psychol.**, 1968, **65**:213-221.
4. Borer, K.T. Control of food intake in **Octopus briareus** Robson.

J.comp.physiol.Psychol., 1971, **75**:171-185.

5. Borer, K.T. and Lane, C.E. Oxygen requirements of *Octopus briareus* Robson at different temperatures and oxygen concentrations. **J.exp.mar.Biol. Ecol.**, 1971, **7**:263-269.
6. Borer, K.T. Absence of weight regulation in exercising hamsters. **Physiol.Behav.**, 1974, **12**:589-597.
7. Borer, K.T., Powers, J.B., Winans, S.S., and Valenstein, E. S. The influence of olfactory bulb removal on ingestive behaviors, activity levels, and self-stimulation in hamsters. **J.comp.physiol.Psychol.** 1974, **86**:396-403.
8. Borer, K.T., and Kooi, A.A. Regulatory defense of the exercise-induced weight elevation in hamsters. **Behav.Biol.**, 1975, **13**:301-310.
9. Borer, K.T. and Kaplan, L.R. Exercise-induced growth in golden hamsters: Effects of age, weight, and activity level. **Physiol.Behav.**, 1977, **18**:29-34.
10. Borer, K.T. and Kuhns, L.R. Radiographic evidence for acceleration of skeletal growth in adult hamsters by exercise. **Growth**, 1977, **41**:1-13.
11. Borer, K.T., Kelch, R.P., White, M.P., Dolson, L., and Kuhns, L.R. The role of septal area in the neuroendocrine control of growth in golden hamsters. **Neuroendocrinology**, 1977, **23**: 133-150.
12. Borer, K.T. and Kelch, R.P. A heterologous radioimmunoassay method for measurement of hamster growth hormone. **Neuroendocrinology**, 1978, **25**:65-76.
13. Browne, S.A.H. and Borer, K.T. The basis for exercise-induced hyperphagia in adult hamsters. **Physiol.Behav.**, 1978, **20**: 553-557.
14. Borer, K.T. and Kelch, R.P. Increased serum growth hormone and somatic growth in exercising adult hamsters. **Amer.J. Physiol.**, 1978, **234**:E611-E616.
15. Borer, K.T., Hallfrisch, J., Tsai, A.C., Hallfrisch, C., and Kuhns, L.R. The effects of exercise and dietary protein on somatic growth, body composition and serum cholesterol in adult hamsters. **J.Nutrition**, 1979, **109**:222-228.
16. Borer, K.T., Trulson, M.E., and Kuhns, L.R. The role of limbic system in the control of hamster growth. **Brain Res.Bull.**, 1979, **4**:239-247.
17. Borer, K.T., Rowland, N., Mirow, A., Borer Jr., R.C., and Kelch, R.P. Physiological and behavioral responses to starvation in the golden hamster. **Amer.J.Physiol.**, 1979, **236**:E105-E112
18. Borer, K.T., Kelch, R.P., Peugh, J., and Huseman, C. Increased serum growth hormone and somatic growth in adult hamsters with hippocampal transections. **Neuroendocrinology**, 1979, **29**:22-23.

19. Borer, K.T., Peters, N.L., Kelch, R.P., Tsai, A.C., and Holder, S. Contribution of growth, fatness, and activity to weight disturbance following septohypothalamic cuts in adult hamsters. **J.comp.physiol.Psychol.** ,1979, **93**:907-918.
20. Borer,K.T. Characteristics of growth-inducing exercise. **Physiol.Behav.**, 1980, **24**:713-720.
21. Tsai, A.C., Bach, J., and Borer, K.T. Somatic, endocrine, and serum lipid changes during detraining in adult hamsters. **Amer.J.clin.Nutr.**, 1981, **34**:373-376.
22. Borer, K.T., Kelch, R.P., and Hayashida, T. Hamster growth hormone: Species specificity and physiological changes in blood and pituitary concentrations as measured by a homologous radioimmunoassay. **Neuroendocrinology**, 1982: **35**: 349-358.
23. Borer, K.T., Kelch, R.P., and Corley, K. Hamster prolactin: Physiological changes in blood and pituitary concentrations as measured by a homologous radioimmunoassay. **Neuroendocrinology**, 1982, **35**:13-21.
24. Tsai, A.C., Rosenberg, R., and Borer, K.T. Metabolic alterations induced by voluntary exercise and discontinuation of exercise in hamsters. **Amer.J.Clin.Nutr.**,1982, **35**:943-949.
25. Borer, K.T., Campbell, C.S., Tabor, J., Jorgenson, K., Kandarian, S., and Gordon, L. Exercise reverses photoperiodic anestrus in golden hamsters. **Biol. Reprod.**, 1983, **29**:38-47.
26. Potter, C.D., Borer, K.T., and Katz, R.V. Opiate-receptor blockade reduces voluntary running but not self-stimulation in hamsters. **Pharmacol.Physiol.Behav.**, 1983, **18**:217-223.
27. Borer, K.T., Potter, C.D., and Fileccia, N. Basis for the hypoactivity that accompanies rapid weight gain in hamsters. **Physiol.Behav.**, 1983, **30**:389-397.
28. Borer, K.T., Shapiro, B., and Vinik, A.I. A role for somatostatin in the control of hamster growth. **Brain Res. Bull.**, 1983, **11**:663-669.
29. Klemcke, H.G., Bartke, A., and Borer, K.T. Testicular prolactin receptors and serum growth hormone in golden hamsters: Effects of photoperiod and time of day. **Biol.Reprod.**, 1983, **29**:605-614.
30. Klemcke, H.G., Bartke, A., and Borer, K.T. Regulation of testicular prolactin and luteinizing hormone receptors in golden hamsters. **Endocrinology**, 1984, **114**:594-603.
31. Borer, K.T., Allen, E.R., Smalley, R.E., Lundell, L., and Stockton, J. Recovery from energy deficit in golden hamsters. **Amer.J.Physiol.**, 1985, **248**:R439-R446.
32. Borer, K.T., Nicoski, D., and Owens, V. Alteration of the pulsatile growth hormone secretion by growth-inducing exercise: Involvement of endogenous opiates and somatostatin. **Endocrinology**, 1986, **118**:844-850.

33. Campbell, G.T., Wagoner, J., Borer, K.T., Kelch, R.P., and Corley, K. Ontogenesis of corticotropes and lactotropes in situ in the pituitary gland of the hamster. **Tissue Res.**, 1986, **245**:673-679.
34. Vriend, J., Borer, K.T., and Thliveris, J.A. Melatonin: Its antagonism of thyroxin's antisomatotropic activity in male Syrian hamsters. **Growth**, 1987, **51**:35-43.
35. Borer, K.T. Rostromedial septal area controls pulsatile growth hormone release in the golden hamster. **Brain Res. Bull.**, 1987, **18**:485-490.
36. Borer, K.T. Hormonal and nutritional determinants of catch-up growth in hamsters. **Growth**, 1987, **51**:103-117.
37. Shapiro, B., Borer, K.T., Fig, L.M., and Vinik, A.I. Exercise-induced hyperphagia in the hamster is associated with elevated plasma somatostatin-like immunoreactivity. **Regul. Peptides**, 1987, **18**:85-92.
38. Nichols, J.F. and Borer, K.T. Physiological, metabolic, and running characteristics of senescent female hamsters. **Gerontology**, 1987, **33**:349-356.
39. Nichols, J.F. and Borer, K.T. The effects of age on substrate depletion and hormonal responses during submaximal exercise in hamsters. **Physiol.Behav.**, 1987, **4**:1-6.
40. Borer, K.T., Pryor, A., Conn, C., Bonna, R., and Kielb, M. Group housing accelerates growth and induces obesity in adult hamsters. **Amer.J.Physiol.**, 1988, **255**:R128-R133.
41. Pieper, D.R., Borer, K.T., Loboeki, C.A., and Samuel, D. Exercise inhibits reproductive quiescence induced by exogenous melatonin in hamsters. **Amer.J.Physiol.**, 1988, **255**:R718-R723.
42. Borer, K.T., Bonna, R., and Kielb, M. Hippocampal serotonin mediates hypoactivity in dietarily obese hamsters: A possible manifestation of aging? **Pharmacol.Biochem.Behav.**, 1989, **31**:885-892.
43. Conn, C.A., Borer, K.T., and Kluger, M.J. Body temperature rhythm and response to pyrogen in exercising and sedentary hamsters. **Med.Sci.Sports Exer.**, 1990, **22**:636-642.
44. Vriend, J., Sheppard, M.S. and Borer, K.T. Melatonin increases serum growth hormone and insulin like growth factor I (IGF-I) levels in male Syrian hamsters via hypothalamic neurotransmitters. **Growth Development and Aging** 1990, **54**:165-171.
45. Borer, K.T., Dennis, R. Activity disc and cage for continuous measurement of running and core temperature in hamsters. **Physiol. Behavior** **10**: 1057-1061.
46. Borer, K.T., Bestervelt, L.L., Mannheim, M., Brosamer, M.B., Thompson, M., Swamy, U. and Piper, W.W. Stimulation by voluntary exercise of adrenal glucocorticoid secretion in mature female hamsters. **Physiol. Behavior** 1992, **51**:713-718.

47. Conn,C.A., Mial,S., and Borer,K.T. Food restriction postpones not prevents exercise-induced growth in hamsters. **Growth, Development, and Aging**, 1993,**57**: 193-204.
48. Rowsey,P.J., Borer,K.T., and Kluger,M.J. Role of prostaglandins in exercise-induced core temperature elevation in female Sprague-Dawley rats. **Amer.J.Physiol.** 1993,**265**: R1121-R1125.
49. Rowsey,P.J., Borer,K.T., and Kluger,M.J. Tumor necrosis factor is not involved in exercise-induced elevation in core temperature. **Amer.J.Physiol.** 1993, **265**: R1351-R1354.
50. Borer, K.T. Neurohumoral mediation of exercise-induced growth. **Med. Sci.Sports Exercise** 1994,**26**:741-754.
51. Borer, K.T. and Clover,K. Control by light of the temperature rhythm in food restricted hamsters. **Physiol. Behav.** 1994 ,**56**: 385-391.
52. Conn,C.A., Kozak,W.E., Tooten,C.J., Niewold, T.A., Borer,K.T. and Kluger,M.J. Effect of exercise and food restriction on selected markers of the acute phase response in hamsters. **J.Appl.Physiol.** 1995, **78**:458-465.
53. Conn,C.A., Kozak,W.E., Tooten,C.J., Gruys, E., Borer,K. and Kluger, M.J. Effect of voluntary exercise and food restriction in response to lipopolysaccharide in hamsters. **J.Appl.Physiol.** 1995, **78**:466-477.
54. Borer,K.T. The effects of exercise on growth. **Sports Medicine**,1995,**20**:375-397.
55. Borer,K.T., Pieper,D., Ali,H., Ladella,S., and Loboeki, C. Does exercise affect female hamster gonadotropins by reducing estradiol negative feedback? **Physiology and Behavior**, 1999, 65, 855-861.
56. Borer, K.T., Cornelissen, G., Halberg, F., Brook, R., Rajagopalan, S., & Fay, W. Circadian blood pressure overswinging in a physically-fit normotensive Afro-American woman. **American Journal of Hypertension**, 2002, 15: 827-830.
57. Halberg, F., Cornelissen, G., Wall, D., Otsuka, K., Halberg, J., Katinas, G., Watanabe, Y., Halhuber, M., Bohn, T.M., Delmore, P., Siegelova, J., Homolka, P., Fiser, B., Dusek, J., Sanchez de la Pena, S., Maggioni, C., Delyukov, A., Gorgo, Y., Gubin, D., Carandente, F., Schaffer, E., Rhodus, N., Borer, K., Sankowsky, R.P. & Schwartzkopf, O. Engineering and governmental challenge: 7-day/24-hour chronobiologic blood pressure and heart rate screening: Part I. **Biomedical Instrumentation & Technology**, 2002, 36, 89-122.
58. Halberg, F., Cornelissen, G., Wall, D., Otsuka, K., Halberg, J., Katinas, G., Watanabe, Y., Halhuber, M., Bohn, T.M., Delmore, P., Siegelova, J., Homolka, P., Fiser, B., Dusek, J., Sanchez de la Pena, S., Maggioni, C., Delyukov, A.,

- Gorgo, Y., Gubin, D., Carandente, F., Schaffer, E., Rhodus, N., Borer, K., Sankowsky, R.P. & Schwartzkopf, O. Engineering and governmental challenge: 7-day/24-hour chronobiologic blood pressure and heart rate screening: Part II. **Biomedical Instrumentation & Technology**, 2002, 36, 183-197.
59. Borer, K.T., Cornelissen G., Halberg F., & Hughes, C. Health impact of training intensity in older individuals. **Kinesiology** , 2003, 35: 210-218.
60. HALBERG F. CORNELISSEN G. REGAL P. OTSUKA K. WANG Z. KATINAS GS. SIEGELOVA J. HOMOLKA P. PRIKRYL P. CHIBISOV SM. HOLLEY DC. WENDT HW. BINGHAM C. PALM SL. SONKOWSKY RP. SOTHERN RB. PALES E. MIKULECKY M. TARQUINI R. PERFETTO F. SALTI R. MAGGIONI C. JOZSA R. KONRADOV AA. KHARLITSKAYA EV. REVILLAM M. WAN C. HEROLD M. SYUTKINA EV. MASALOV AV. FARAONE P. SINGH RB. SINGH RK. KUMAR A. SINGHS R. SUNDARAM S. SARABANDI T. PANTALEONI G. WATANABE Y. KUMAGAI Y. GUBIN D. UEZONO K. OLAH A. BORER K. KANABROCKIA EA. BATHINA S. HAUS E. HILLMAN D. SCHWARTZKOPFF O. BAKKEN EE. ZEMAN M. Chronoastrobiology: proposal, nine conferences, heliogeomagnetism, transyears, near-weeks, near-decades, phylogenetic and ontogenetic memories. **Biomedicine & Pharmacotherapy**. 58 Suppl 1:S150-87, 2004
61. BORER, K.T. Physical activity in prevention and amelioration of osteoporosis in women: Interaction of mechanical, hormonal, and dietary factors. **Sports Medicine** 2005, 35: 779-830.
62. BORER, K.T., WUORINEN, E, AND BURANT, C. Exercise energy expenditure is not consciously detected due to oro-gastric, not metabolic, basis of hunger sensation. **Appetite** 2005 , 45: 177-181.
63. KASA-VUBU, J.Z., YE, W., BORER, K.T., ROSENTHAL, A., MECMONGKOL, T. Twenty-four hour ghrowth hormone and leptin secretion in active post-pubertal adolsecnt girls. Impact of fitness, fatness and age at menarche. **Journal of Clinical Endocrinology and Metabolism** 2006, 91: 3935 – 3940.
64. CORNÉLISSEN G., HALBERG F., KATINAS G., SCHWARTZKOPFF O., HOLLEY D., BORER K., HOMOLKA P., SIEGELOVÁ J., FIŠER B., DUŠEK J., OTSUKA K., YANO A., DELCOURT A., TOUSSAINT G., SANCHEZ DE LA PENA S., GONZALEZ C., ZHAO Z., ASLANIAN N., SINGH R. B., KUMAR A., TARQUINI R., PERFETTO F.. Stroke and other vascular disease prevention by chronomics. **Scripta Medica** 2006, 79: 147-154.

65. BORER KT. FOGLEMAN K. GROSS M. LA NEW JM. DENGEL D. Walking intensity for postmenopausal bone mineral preservation and accrual. **Bone** 2007, 41:713-721

BOOKS, BOOK CHAPTERS, AND FILMS:

1. Borer, K.T. Weight reduction in hamsters and rats: Differences in the effects of exercise and neonatal nutrition. In: D.Novin, W.Wyrwicka, and G.Bray (Eds.), **Hunger: Basic mechanisms and clinical implications**, New York: Raven Press, 1976, pp 225-241.
2. Borer, K.T. Exercise, nutrition, and growth. In: F.Obal and G. Benedek (Eds.) **Advances in Physiological Sciences**, vol.18: **Environmental Physiology**, New York: Pergamon Press and Budapest: Akademiai Kiado, 1981, pp 255-260.
3. Borer, K.T. Neuroendocrine lipostat is not confined to the ventromedial hypothalamus. Invited commentary on the article Le Magnen, J. The metabolic basis of dual periodicity of feeding in rats. **Biobehav.Brain Sciences**, 1981, 4:561-607.
4. Borer,K.T. The nonhomeostatic motivation to run in the golden hamster. In: A.R.Morrison and P.L.Strick (Eds.) **Changing concepts of the nervous system**, New York: Academic Press, 1982, pp 539-567.
5. Borer, K.T.(film content, production, and photography) and Frierson, M. (editing and technical assistance), **Muscles in motion**, 1982, Michigan Media Film Library, The University of Michigan.
6. Borer, K.T., Edington, D.W., and White, T.P. (Eds) **Frontiers of exercise biology**, Big Ten Body of Knowledge Symposium Series, **Vol.13**, Champaign: Human Kinetics Publishers, 1983.
7. Borer,K.T., Raymond, P., and Dokas, L.R. Neuroendocrine effects of exercise. In: Borer, K.T., Edington, D.W., and White,T.P. (Eds.) **Frontiers of exercise biology**, Human Kinetics Publishers, 1983, pp 263-283.
8. Borer, K.T. The reciprocal relationship between endurance physical activity and body fatness. In: B.W. Hansen (Ed.) **Controversies in obesity**, New York:Praeger Scientific, 1983, pp 255-273.
9. Borer, K.T. Feeding and energy regulation in the golden hamster. In: H.I. Siegel (Ed.) **Golden hamster: Reproduction and behavior**, New York: Plenum, 1985, pp 363-408.
10. Borer, K.T. How running accelerates growth. In: A.N. Epstein and A.R. Morrison (Eds.) **Progress in psychobiology and physiological psychology**, New York: Academic Press, 1987, pp 47-115.
11. Borer, K.T. Exercise-induced facilitation of pulsatile growth hormone (GH) secretion and somatic growth. In: Z. Laron and A. Rogol (Eds.) **Hormones and sport**, Serono Symposia Publications from Raven Press, **vol. 55**, New York: Raven

Press, 1989, pp 21-40.

12. Borer, K.T. **Exercise endocrinology**. Champaign, Il: Human Kinetics Publishers, 2003, 272 pp.

ABSTRACTS, SYMPOSIA:

1. Borer, K.T., and Epstein, A.N. Disappearance of salt and sweet preferences in rats drinking without taste or smell. **The Physiologist**, 1965, **8** (3).
2. Borer, K.T. Absence of lipostatic weight control in exercising hamsters. Fortyfifth annual meeting of the **Eastern Psychological Association**, Philadelphia, April 18-20, **1974**.
3. Kooi, A.A., and Borer, K.T. Hamsters defend exercise- induced weight gain. Annual meeting of the **Animal Behavior Society**, University of Illinois, Urbana-Champaign, May 25-27, **1974**.
4. Borer, K.T. Changes in weight gain and deficits in exercise-associated food intake in hamsters with VMH and lateral diencephalic lesions. Fifth **International Conference on the Physiology of Food and Fluid Intake**, Jerusalem, Israel, October 13-17, **1974**.
5. Borer, K.T. and Valenstein, E.S. Weight regulation in hamsters and rats: Differences in the effects of exercise and neonatal nutrition. Conference on **Hunger: Basic mechanisms and clinical implications**, University of California, Los Angeles, California, January 15-17, **1975**.
6. Borer, K.T. Weight setpoint: A state of controlled growth suppression? Symposium on Body weight defense vs, body weight change in response to manipulation of the external environment, R. Gold, chairman, Fortysixth annual meeting of the **Eastern Psychological Association**, New York, April 3-5, **1975**.
7. Kaplan, L.R. and Borer, K.T. Ontogeny of voluntary activity in the golden hamster: Its relationship to regulation of adult body size. Midwestern regional meeting of the **Animal Behavior Society**, University of Illinois, Chicago Circle, November 13-14, **1976**.
8. Borer, K.T., Kelch, R.P., White, M.P., Dolson, L, and Kuhns, L.R. Septal area controls growth in hamsters. Sixth annual meeting of the **Society for Neuroscience**, Toronto, Canada, November 7-11, **1976**.
9. Peters, N., Holder, S., and Borer, K.T. Weight increases and hyperphagia: Difference in the effects of exercise and septohypothalamic knife cuts. Forty-seventh annual meeting of the **Eastern Psychological Association**, Boston, April 13-16, **1977**.
10. Borer, K.T. Neuroendocrine control of growth participates in regulation of adult body weight in golden hamsters. Sixth **International Conference on the Physiology of food and fluid intake**, Paris, July 25-28, **1977**.
11. Borer, K.T., Trulson, M.E., and Wise, R.A. Changes in brain monoamines associated with growth acceleration in septal- lesioned hamsters. Seventh annual

meeting of the **Society for Neuroscience**, Anaheim, California, November 7-10, **1977**.

12. Borer, K.T. and Peugh, J. Hyperphagia, hypoactivity, and growth acceleration in adult hamsters with hippocampal transections. Forty-ninth annual meeting of the **Eastern Psychological Association**, Washington, D.C., March 29-April 1, **1978**.
13. Borer, K.T., Kelch, R.P., and Edington, D.W. Increased growth hormone secretion and somatic growth in exercising adult hamsters. Nineteen seventy eight annual meeting of the **American College of Sports Medicine**, Washington, D.C., May 24-27, **1978**.
14. Borer, K.T., Kelch, R.P., and Trulson, M.E. Increased serum growth hormone (GH) and somatic growth in adult hamsters with hippocampal transections. Eighth annual meeting of the **Society for Neuroscience**, St.Louis, Missouri, November 5-9, **1978**.
15. Invited participant at a workshop on **Nutrient intake and work performance in man** organized by D.H. Calloway of Department of Nutrition, University of California, Berkeley; La Jolla, California, October 30- November 3, **1978**.
16. Borer, K.T. and Rowland, N. Physiological and behavioral responses to starvation in the golden hamster. Forty- ninth annual meeting of the **Eastern Psychological Association**, Philadelphia, Pennsylvania, April **1979**.
17. Borer, K.T., Johns, P.R., Dokas, L., and Ekop, J. Increased nuclear proliferation in muscle and bone of exercising hamsters. Twenty-eighth **International Congress of Physiological Sciences**, Budapest, Hungary, July 13-19, **1980**.
18. Borer, K.T. and Hallfrisch, J. Nutritional modulation of exercise-induced growth. **Satellite Symposium on sports physiology**, Twenty-eighth International Congress of Physiological Sciences, Budapest, Hungary, July 10-13, **1980**.
19. Borer, K.T. Dependence of weight regulation and growth on uninterrupted access to food in hamsters. Seventh **International Conference on Physiology of Food and Fluid Intake**, Warsaw, Poland, July 2-10, **1980**.
20. Borer, K.T. Nutritional modulation of exercise-induced growth. **Workshop on nutrition research**, The University of Michigan, Waldenwoods, Michigan, December 12-13, **1980**.
21. Shapiro, B., Vinik, A.I., and Borer, K.T. Effects of nutritional status and exercise on CNS and gut/pancreatic somatostatin. **Workshop on nutrition research**, The University of Michigan, Waldenwoods, Michigan, December 12-13, **1980**.
22. Potter, C.D., Borer, K.T., and Fileccia, N. Characteristics of hypoactivity accompanying increased weight gain. Nineteen eighty-one annual meeting of the **American College of Sports Medicine**, Miami Beach, Florida, May 27-29, **1981**.
23. Borer, K.T., Campbell, C.S., Gordon, L., Jorgenson, K., and Tabor, J. Exercise reinstates estrous cycles in hamsters maintained in short photoperiods. Eleventh

annual meeting of the **Society for Neuroscience**, Los Angeles, California, October 18-23, **1981**.

24. Borer, K.T. Neuroendocrine effects of exercise. Symposium on **Future issues in exercise biology**, The University of Michigan, Ann Arbor, Michigan, November 12-14, **1981**.
25. Klemcke, H., Bartke, A., and Borer, K.T. Testicular PRL and HCG binding and serum GH in male golden hamsters: Effects of photoperiod and time of day. Seventh annual meeting of the **American Society of Andrology**, Head Island, South Carolina, February 24-26, **1982**.
26. Moffatt, R.J. and Borer, K.T. Body composition, energy consumption, and lipogenic enzyme activity as affected by chronic exercise and retirement from chronic exercise in the adult hamster. Nineteen eighty-two annual meeting of the **American Association for Health, Physical Education, Recreation, and Dance**, Houston, Texas, April, **1982**.
27. Borer, K.T., Allen, E.A., and Moffatt, R.J. Not by food alone (Regulation of energy balance in the hamster); Symposium on **Recent advances in the neuroscience of ingestive behavior**, Fifty-third annual meeting of the **Eastern Psychological Association**, Baltimore, Maryland, April 14-17, **1982**.
28. Potter, C.D. and Borer, K.T. Endogenous opiates and voluntary physical activity. **Finley-Carpenter Research Conference**, School of Education, The University of Michigan, Ann Arbor, Michigan, May 7-8, **1982**.
29. Borer, K.T. Interdependence of body fatness and levels of physical activity. Symposium on **Controversies in obesity**, Center for Human Growth and Development, The University of Michigan, Ann Arbor, Michigan, May 26-27, **1982**.
30. Borer, K.T., Segal, S., Vinik, A.I., and Shapiro, B. Growth- inducing hippocampal transections affect limbic and gastrointestinal somatostatin and limbic choline acetyltransferase concentrations in hamsters. Twelfth annual meeting of the **Society for Neuroscience**, Minneapolis, Minnesota, October 31-November 5, **1982**.
31. Nichols, J. and Borer, K.T. Reversal of photoperiodic anestrus by growth-inducing limbic lesions in female hamsters. Twelfth annual meeting of the **Society for Neuroscience**, Minneapolis, Minnesota, October 31- November 5, **1982**.
32. Potter, C.D., Borer, K.T., and Katz, R.J. Opiate receptor blockade reduces voluntary running but not self-stimulation in hamsters. Twelfth annual meeting of the **Society for Neuroscience**, Minneapolis, Minnesota, October 31- November 5, **1982**.
33. Borer, K.T., Campbell, C.S., and Kandarian, S. Facilitation of neuroendocrine function by exercise in female hamsters. Annual meeting of the Michigan Chapter, **Society for Neuroscience**, Michigan State University, East Lansing, Michigan, March 12, **1983**.

34. Borer, K.T. Reversal by exercise of photoperiodic anestrus in hamsters: LH involvement. Sixteenth annual meeting of the **Society for the Study of Reproduction**, Case Western Reserve University, Cleveland, Ohio, August 8-10, **1983**.
35. Klemcke, H., Bartke, A., Amador, A., Soares, M.J., Talamantes, F., and Borer, K.T. Autoregulation of testicular prolactin. Sixty-fifth annual meeting of the **Endocrine Society**, San Antonio, Texas, June **1983**.
36. Smalley, R.L. and Borer, K.T. Brown adipose tissue metabolism in exercising hamsters. **AAAS annual meeting**, Detroit, Michigan, May 26-31, **1983**.
37. Nicoski, D.R. and Borer, K.T. Growth-induced changes in the pulsatile pattern of growth hormone (GH) secretion in the hamster: The involvement of endogenous opiates. Thirteenth annual meeting of the **Society for Neuroscience**, Boston, Massachusetts, November 6-11, **1983**.
38. Borer, K.T. and Nicoski, D.R. Alteration by exercise of the pulsatile pattern of the anterior pituitary hormone release. Annual meeting of the **Michigan Chapter, Society for Neuroscience**, East Lansing, Michigan, March 24, **1984**.
39. Borer, K.T. Reversal by exercise of photoperiodic anestrus in Syrian hamsters : Changes in the pattern of LH release. Fourteenth annual meeting of the **Society for Neuroscience**, Anaheim, California, October 10-15, **1984**.
40. Borer, K.T., Allen, E.R., Stockton, J., and Smalley, R.E. Recovery from energy deficit in the golden hamster. Fall meeting of the **American Physiological Society**, Lexington, Kentucky, August 26-31, **1984**.
41. Moffatt, R.J., Borer, K.T., Tsai, A.C., and Smalley, R. Deficient compensations for the energy cost of running in golden hamsters. Fall meeting of the **American Physiological Society**, Lexington, Kentucky, August 26-31, **1984**.
42. Borer, K.T. Antagonistic effects of exercise and endogenous opiates on timing of LH surge in anestrus golden hamsters. Eighteenth annual meeting of the **Society for the Study of Reproduction**, McGill University, Montreal, Canada, July 22-25, **1985**.
43. Nichols, J.F. and Borer, K.T. The effects of age on substrate utilization during prolonged submaximal exercise in hamsters. Nineteen eighty-five annual meeting of the **American College of Sports Medicine**, **1985**.
44. Vriend, J. and Borer, K.T. Effects of hypothyroidism, thyroxine replacement, and melatonin on serum growth hormone levels in male Syrian hamsters. Sixty-eighth annual meeting of the **Endocrine Society**, Anaheim, California, June 25-27, **1986**.
45. Borer, K.T. and Pearson, W. Adrenergic restraint of somatostatin action promotes pulsatile growth hormone secretion in hamsters. Sixty-eighth annual meeting of the **Endocrine Society**, Anaheim, California, June 25-27, **1986**.

46. Borer, K.T. Role of exercise and endogenous opiates (EOP) in pulsatile luteinizing hormone (LH) and prolactin (PRL) release in anestrus golden hamsters. Nineteenth annual meeting of the **Society for the Study of Reproduction**, Cornell University, Ithaca, New York, July 14-17, **1986**.
47. Borer, K.T. The role of septo-hippocampal serotonin projection in nutritional modulation of running activity in hamsters. Annual meeting of the **Michigan Chapter, Society for Neuroscience**, Ann Arbor, Michigan, March 22, **1986**.
48. Borer, K.T. The role of the paraventricular (PV) hypothalamic nucleus in the photoperiodic suppression of spontaneous running activity in hamsters. Annual meeting of the **Michigan Chapter, Society for Neuroscience**, Ann Arbor, Michigan, March 22, **1986**.
49. Borer, K.T. The role of the paraventricular (PV) hypothalamic nucleus in the photoperiodic suppression of spontaneous running activity in hamsters. Sixteenth annual meeting of the **Society for Neuroscience**, Washington, D.C., November 9-14, **1986**.
50. Bonna, R. and Borer, K.T. The role of septo-hippocampal serotonin projection in nutritional modulation of running activity in hamsters. Sixteenth annual meeting of the **Society for Neuroscience**, Washington, D.C., November 9-16, **1986**.
51. Borer, K.T. Spontaneous running advances the onset of luteinizing hormone surge and blocks the photoperiodic inhibition of luteinizing hormone release in golden hamsters maintained in nonstimulatory photoperiods. First **International Capri Conference on Brain and Female Reproductive Function: Basic and Clinical Aspects**, Capri, Italy, May 25-30, **1987**.
52. Borer, K.T. and Amador, A.G. Facilitation by pentobarbital of growth hormone secretion in hamsters: The involvement of endogenous somatostatin. Seventeenth annual meeting of the **Society for Neuroscience**, New Orleans, Louisiana, November 16-21, **1987**.
53. Pieper, D.R., Loboeki, C.A., Samuels, D., and Borer, K.T. Voluntary exercise (EX) prevents the anestrus induced by exogenous melatonin (MEL) in pinealectomized (PX) female golden hamsters. Seventeenth annual meeting of the **Society for Neuroscience**, New Orleans, Louisiana, November 16-21, **1987**.
54. Borer, K.T. Exercise-induced facilitation of pulsatile growth hormone (GH) secretion and somatic growth. **Ares Sero Symposium on Hormones and Sport**, Dubrovnik, Yugoslavia, August 29-30, **1988**.
55. Conn, C.A., Kluger, M.J., and Borer, K.T. Nocturnal wheel running affects both nighttime and daytime body temperature in hamsters. Thirty-sixth annual meeting of the **American College of Sports Medicine**, Baltimore, Maryland, May 29-June 3, **1989**.
56. Conn, C.A., Mial, S., and Borer, K.T. Prolonged food restriction does not eliminate exercise-induced catch-up growth in hamsters. Thirty-seventh annual meeting of the **American College of Sports Medicine**, Salt Lake City, UT, May 22-25, **1990**.

57. Borer, K.T., Johnson,P., Brosamer, M.-B., Swamy,U., and Thompson,M. Photoperiodic modulation of seasonal obesity in hamsters: Are cortisol and prolactin phase shifts involved? Second meeting of the **Society for the Research on Biological Rhythms**, Jacksonville,FL, May 9-13, 1990.
58. Pieper,D.R., Loboeki, C.A., and Borer,K.T. Chronic exercise has no effect on serum melatonin levels in female hamsters on long or on short photoperiod. Second Meeting of the **Society for the Research on Biological Rhythms**, Jacksonville,FL, May 9-13, 1990.
59. Johnson, P. and Borer, K.T. Thermoregulatory consequences of hippocampal transections and septal lesions : delayed responses to exogenous pyrogen and delayed drop in nocturnal temperature. Twentieth annual meeting of the **Society for Neuroscience**, St.Louis,MO, October 28-November 2, 1990.
60. Bartness, T., McGriff, W., Maharaj, M. and Borer, K.T. Photoperiodic control of serum insulin: Effects on energy balance and reproductive status in siberian hamsters. **FASEB Meeting** 1991.
61. Borer, K.T., Jansson, J.-O., Conn, C.A. and Isaksson, O.P.G. Nutritional control of the expression of exercise-induced growth in mature hamsters. Abstracts, **Society for Neuroscience** New Orleans L.A., 1991.
62. Borer, K.T. "Neurohumoral mediators of exercise-induced growth" at a symposium entitled "exercise modulation of human growth" organized by Dr. Dan Cooper of UCLA-Harbor General Hospital and to be held at the **FASEB Meeting** Anaheim, California April 4-7, 1992.
63. Johnson, P., Kluger, M., Borer, K.T. and Conn, C. Is exercise induced increase in body temperature of female rats caused by interleukin-1(IL-1) or tumor necrosis factor? Thirty-ninth annual meeting of the **American College of Sports Medicine**, Dallas, TX. May 25030, 1992.
64. Conn, C., Kluger, M., and Borer, K.T. Effects of food restriction on exercise-induced elevations in body temperature. Thirty-ninth annual meetings of the **American College of Sports Medicine**, Dallas, TX. May 25030, 1992.
65. Borer, K.T., Conn, C.A., Jansson, J.-O, Ekberg, S., Steenfos, H., Ohlsson, C., Isgaard, J., and Isaksson, O.G.P. Liver hypertrophy in growth-inducing exercise. Fortieth annual meetings of the **American College of Sports Medicine**, Dallas, TX. May 25030, 1992, Exer.Sci.Sports Med. 1992,24,Suppl.S167:Abstract 999.
66. Borer, K.T., Johnson, P., Conn, C.A., Smith, P. and Jang, S. Hippocampal control over temperature and activity rythums in hamsters. Third meeting of the **Society for the Research on Biological Rhythms**, May 1992.
67. Pieper, D.R., Borer, K.T., Loboeki C.A. and Olson, I. Relation of nutrition, exercise and estrous cyclicity in young female hamsters. Annual meeting of the **Society for the Study of Reproduction**,May 1992.
68. Borer, K.T., Conn, C.A., Jansson, J.-O., Carlsson, B., Ohlsson, C. and Isaksson,

O.G.P. Do tissue levels of GH receptor, IGF-I and IGF-I receptor mRNAs determine the magnitude of exercise-induced catch-up growth? Growth Factors, Peptides and Receptors '92 XIIIth **Washington International Spring Symposium**, June 1992.

69. Borer, K.T. Endurance exercise, weight maintenance and growth. **Big Ten Body of Knowledge Symposium** :Capstone Knowledge in Kinesiology ,University of Michigan, Nov 6-8,1993.
70. Rowsey, P.J., Borer, K.T., and Kluger, M.J. Role of prostaglandin in exercise-induced core temperature elevation in female Sprague-Dawley rats. **FASEB**, New Orleans, LA, March 28-April 1, 1993.
71. Borer, K.T. and Donaton, S. Role for the hippocampus in exercise-induced lengthening of the period of hamster rhythms. Abstracts, **Society for Neuroscience** 1993, **19**,569:Abstract 235.12.
72. Borer, K.T. Brain control of growth hormone signals in exercise-induced catch-up growth. Kinesiology Day, University of Michigan, March 10, 1994.
73. Borer, K.T. and Clover, K. Control by light of the temperature rhythm in food restricted hamsters. Fourth meeting of the **Society for the Research on Biological Rhythms**, Amalia Island Plantation, Jacksonville, FL, May 4-7, 1994.
74. Borer, K.T. and Chao, M.-M. Regional fat distribution is differentially affected by endurance exercise, energy deficit, and obesifying diet. Fortyfirst annual meeting of the **Americal College of Sports Medicine**, Indianapolis, IN, June 6-8, 1994. **Medicine & Science in Sports & Exercise**, 1994, **26**, Supplement, S196:Abstract 1103
75. Borer, K.T., Chao, M., Rhodes, T., McClellan, E., and Robinson, I.C.A.F. Growth hormone secretory pattern during exercise-induced catch-up growth. Abstracts, **Society for Neuroscience** 1994, **20**, part 1:464 (202.14) .
76. Yeo, S., Borer, K.T., Behrend, G. and Boone, B. Detrimental effect of dietary restriction on exercise-induced growth during pregnancy. Fortysecond annual meeting of the American College of Sports Medicine, Minneapolis, MN, May 31-June 2, 1995. **Medicine & Science in Sports & Exercise** 1995, **27**, Supplement, S231:Abstract 1293.
77. Yeo, S., Borer, K.T., Behrent, G., and Mauger, D. No suppression of growth pulsatility in exercising pregnant hamsters. Abstracts, **Society for Neuroscience** 1995, **21**, Part 2:1063 (423.1).
78. Pieper, D., Ali, H., Ladella, S., Lobocki, C., and Borer, K.T. Voluntary exercise inhibits basal gonadotropin secretion in ovariectomized, non-replaced, but not ovariectomized hamsters treated with estradiol. Abstracts, **Society for Neuroscience** 1995, **21**, Part 3:1895 (744.3).
79. Borer, K.T., Pear, E., Courtney, S. and Marino, S. Divergence of nocturnal temperature from activity and heart rate rhythms in postmenopausal women. Fifth meeting of the **Society for the Research on Biological Rhythms**, Amalia

Island Plantation, Jacksonville,FL,May 8-12, 1996.

80. Borer,K.T., Kennedy, J., Kaplan, J., Stevens,K., Mehta, H. and Drellis, M. Timing of growth in exercising hamsters: Expression of IGF-I and GH receptor/BP mRNA. Abstracts, **Society for Neuroscience** 1996, **22**,Part 2:1220 (486.9).
81. Borer, K.T., Christman, G., Lim,Y., Grewal,P. Abu-Isa, R. Walking speed is stimulatory to pulsatile growth hormone secretion in post-menopausal women. Fortyfourth annual meeting of the American College of Sports Medicine, Denver,CO May 28-31, 1997. **Exer.Sci.Sports Med.** 1997, **29**, Suppl.: S282:Abstract 1599.
82. Borer, K.T., Christman, G., Lim,Y., Grewal,P. Abu-Isa, R. Deleterious effects of walking speed on insulin sensitivity in post-menopausal women. Program, Seventy-ninth annual meeting of the **Endocrine Society**, Minneapolis, MIN, June 11- 14, 1997.
83. Borer,K.T. Speed-associated increases in plasma leptin are related to decreased energy intake and not decreased body fat in postmenopausal women. Fortyfifth annual meeting of the American College of Sports Medicine, Minneapolis, MO,May 29-June 2, 1998. **Medicine & Science in Sports & Exercise**, 1998, **30**, Supplement, S185:Abstract 1051.
84. Borer, K.T., Pieper, D., and Loboeki, C. Walking speed affects the quantity and timing of cortisol secretion in postmenopausal women. Sixth meeting of the **Society for Research on Biological Rhythms**, Jacksonville, FL, May 6-10, 1998.
85. Borer, K.T., Pieper, D., Trout, A. & Loboeki, C. High exercise intensity during training increases androgenic action in postmenopausal women. Fortysixth meeting of the American College of Sports Medicine, Seattle, WA, June 2-5, 1999. **Medicine & Science in Sports & Exercise**, 1999, **31**, Supplement, S181: Abstract 809.
86. LaNew, J.M., Borer, K.T., Garcia, A.W. & Zakrajsek, J. Threshold exercise intensity for inducing fat loss in middle-aged women. Fortysixth meeting of the American College of Sports Medicine, Seattle, WA, June 2-5, 1999. **Medicine & Science in Sports & Exercise**, 1999, **31**, Supplement, S370: Abstract 1882.
87. Borer, K.T., Cornelissen, G. & Halberg, F. Week-long blood pressure monitoring for reference values and diagnosis of disease risk syndromes. Seventh meeting of the **Society for Research on Biological Rhythms**, Jacksonville, FL, May 10-13, 2000.
88. Borer,K.T., Fay, W.P. & Parker,A. Endurance training reduces the plasma

concentration of the PAI-1 clotting factor in postmenopausal women. **Medicine & Science in Sports & Exercise**, 2000, **32**, Supplement, S53: Abstract 91.

89. Borer, K.T., Cornelissen, G. & Halberg, F. Walking intensity modifies systolic and pulse pressures in postmenopausal women. Abstracts, **Society for Neuroscience**, 26: 1947 (Abstract 728.4),2000 .
90. Borer, K.T. & Fay, W.P., Increased Plasma Fibrinogen and Decreased Plasminogen Activator Inhibitor-1 (PAI-1) After Fifteen Weeks of Training in Postmenopausal Women. **American College of Sports Medicine**, Baltimore, MD, May 30–June 2, 2001. **Medicine & Science in Sports & Exercise**, 2001, **33**, Supplement, S51:290.
91. Borer, K.T., Sowers, M., Christman, G.M. & Kasa-Vubu, J.Z. Inverse Changes in Plasma Growth Hormone (GH) and Leptin Concentration in Postmenopausal Women Are Not Related to Fat Loss or Exercise Intensity. **Endocrine Society Meeting**, Denver, CO, June 20-23, 2001.
92. Wuorinen, E.C., Borer, K.T. Stimulating effects of training intensity on nocturnal melatonin levels in postmenopausal women. **Endocrine Society Meeting**, Denver, CO, June 20-23, 2001.
93. Wuorinen, E., Horowitz, J.F., Kasa-Vubu, J., Pieper, D., & Borer, K.T. Training-induced changes in the lipolytic response to an evening meal are related to changes in nocturnal growth hormone and cortisol. **American College of Sports Medicine**, May 2002. **Medicine & Science in Sports & Exercise**, 2002, **34**, Supplement, S276:1546.
94. Fogleman, K., Borer, K.T., & Sowers, M. The effect of walking on blood osteocalcin levels in postmenopausal women. **Endocrine Society Meeting**, June 2002.
95. Hughes, C., Borer, K.T., Cornelissen, G. & Halberg, F. Walking intensity as a hypotensive stimulus in postmenopausal women. Presented at the **American College of Sports Medicine** annual meeting, May 2003. **Medicine & Science in Sports & Exercise**, 2003, **35**, Supplement, S44:239.
96. LaNew, J., Borer, K.T., Garcia, A.W., Zakrajsek, J. & Sowers, M. Walking intensity is not a stimulus for fat loss in postmenopausal women. Submitted to **American College of Sports Medicine** annual meeting, May 2003. **Medicine & Science in Sports & Exercise**, 2003, **35**, Supplement, S308:1707.
97. Fogleman, K., Borer, K.T. & Sowers, M. Walking intensity stimulates increases in BMD in post-menopausal women. Presented at the **American College of Sports Medicine** annual meeting, May 2003. **Medicine & Science in Sports & Exercise**, 2003, **35**, Supplement, S20:95.

98. Fogleman, K., Borer, K.T., Sowers, M., & Wuorinen, E.C. Walking stimulates increases in BMD in post-menopausal women. Presented at the **Endocrine Society** annual meeting, 2003.
99. Wuorinen, E.C., K. T. Borer, Horowitz, J. and Burant, C. Role of insulin and leptin in the suppression of appetite by exercise Presented at the **Endocrine Society** annual meeting, Philadelphia, June 17-20, 2003.
100. Kasa-Vubu, J.Z., Borer, K., & Carlson, N.E. Effects of body composition, cardiovascular fitness, and age at menarche on 24-hour growth hormone concentration in young postpubertal active adolescent girls. Presented at the **Endocrine Society** annual meeting, Philadelphia, June 17-20, 2003.
101. Wuorinen, E.C., Borer, K.T., Horowitz, J.F. & Burant C. Increased fullness and appetite suppression by exercise in postmenopausal women. Annual meeting of the **Society for the Study of Ingestive Behavior**, Groningen, The Netherlands, July 15-18, 2003.
102. Wuorinen, E.C., Borer, K.T., Fogleman, K.M., Horowitz, J.F., & Burant, C. Ghrelin is stimulated by exercise but unassociated with increased hunger or reduced fullness. **Society for Neuroscience** annual meeting, New Orleans, November 7-12, 2003.
103. Wuorinen, E.C., Lin, P.-J., Burant, C. & Borer, K.T. Exercise-induced ghrelin secretion is associated with increased lipolysis. **Medicine & Science in Sports & Exercise** 2004,36: S140:996 (Abstract)
104. Borer, K.T. Is there exercise-induced appetite suppression? Invited talk at the **Columbia University Appetitive Seminar**, May 2004..
104. Wuorinen E., Lin PJ, Burant C. and Borer K.T. Is increased lipolysis during fasting exercise due to ghrelin-induced growth hormone secretion? **Program**, Annual meeting of the **Endocrine Society**, New Orleans, LA, June 19-20, 2004.
105. Hughes, C. & Borer, K. Relationship between intraday exercise participation and dietary behavior in American adults. **Public Health Student Caucus**, 132nd annual meeting, Washington, D.C., November 6-10, 2004.
106. Sundaram, B., Hanumansetty R., Cornelissen G., Otsuka, K., Katinas G.S., Seigelova J., Homolka, P., De La Pena S.S., Borer, K., Schaffer, E., Holley, D.C., Halberg, F. Blood pressure and pulse dynamics quantify everyday life's emotions- if excessive by circadian overswinging, CHAT. **Amer. J.Hypertension** 2004, **17** (5, part 2): 57A, abstract P-72.
106. Wuorinen, E.C., Borer, K.T., & Burant, C. Exercise in fasted state delays the CCK response to a meal. **Society for the Study of Ingestive Behavior**, University of

Cincinnati, Ohio, July 20-23, 2004

107. Kasa-Vubu, J.Z., Rosenthal, A., Borer K,T, and Meckmongkol, T. Twenty-four hour growth hormone and leptin secretion in active post-pubertal girls. Impact of fitness, body composition and age at menarche. **Endocrine Society**, San Diego, CA, June 4-6, 2005.
108. Fogleman K.M., Gross, M. & Borer, K.T. Fitness level and vertical forces generated during walking in post-menopausal women. **American College of Sports Medicine** annual meeting, June 2005. **Medicine & Science in Sports & Exercise** 2005,37:
109. Wuorinen, E.C. Borer, K.T., and Burant C. No effect of moderate or high intensity exercise on psychophysical ratings of appetite in postmenopausal women. **Society for the Study of Ingestive Behavior**, Pittsburg, PA, June 2005.
110. Borer KT, Wuorinen E, Burant C, Timing of exercise with respect to meals affects circadian glucoregulation. **First International Congress of Chronobiology-Applied Chronomedicine**, Antalya, Turkey, June 1-5, 2005.
111. Borer, K.T. The effects of exercise in prevention and amelioration of osteoporosis. **Fourth International Congress of Kinesiology**, Opatija, Croatia, Europe, September 7-11, 2005.
112. Wuorinen E, Borer KT and Burant, C. Ghrelin is stimulated more by lack of gastrointestinal calories than by exercise energy expenditure. Annual meeting of the **Endocrine Society**, Boston, MA, June 22 to 27, 2006.
113. Borer KT, Wuorinen E, and Burant C. Exercise increases meal-associated ghrelin secretion independently of its intensity. 88th Annual meeting of the **Endocrine Society**, Boston, MA, June 22 to 27, 2006.
114. Hiruntrakul A, Borer KT, Wuorinen E, Burant C. Caloric expenditure rather than exercise intensity is a stimulus for cortisol secretion. **Society for Neuroscience** annual meeting, Atlanta, GA, October 14-18, 2006.
115. Borer KT, Wuorinen E, and Burant, C. Caloric expenditure rather than exercise intensity is a stimulus for GH secretion and GH pulse advance. 89th Annual meeting of the **Endocrine Society**, Toronto, Ontario, Canada, June 2 to 5, 2007.
116. Borer KT, Wuorinen E, and Burant, C. Tracking by leptin of negative energy balance induced by exercise or food restriction. **American College of Sports Medicine** annual meeting, New Orleans, LA, May 30-June 2, 2005.
117. Borer KT, Wuorinen E, and Burant, C. Associations of plasma ghrelin, leptin and cholecystokinin (CCK) with sensations of hunger and fullness during manipulations of energy balance by meal size, exercise and intravenous nutrient replacement.

Society for the Study of Ingestive Behavior, Steamboat Springs, July 24-29, 2007.

118. Borer KT, Daoud A, Lash RW, Gross MM, Kernozek T. Parameters of exercise that increase markers of bone formation relative to resorption in postmenopausal women. **American College of Sports Medicine** annual meeting, Indianapolis, IN, May 28-31, 2008.
119. Borer KT, Wuorinen E, and Burant, C. Loss of exercise-associated suppression of hunger and plasma leptin in obese but not lean women. 90th Annual meeting of the **Endocrine Society**, San Francisco, CA, June 15-18, 2008.
120. Borer KT, Wuorinen E, and Burant, C. Ghrelin/leptin ratio tracks energy balance, while ratings of appetite track only meal size while sedentary and give paradoxical values to exercise energy expenditure.. **Society for the Study of Ingestive Behavior**, Paris, France, July 16-19,2008.

TEACHING:

At **The University of Pennsylvania**, Philadelphia:
Comparative anatomy of the nervous system
(Teaching Assistant, 1962-1963)

At the **Anchorage Community College** and **Alaska Methodist University**, Anchorage, Alaska:

Fundamentals of biology
Comparative anatomy of vertebrates
Physiological psychology
Experimental psychology
(Lecturer, 1968-1969)

At **The University of Michigan**:

Comparative psychology (Lecturer,1974-1977)
Physiol. and psychological bases of human movement
(1978-1981, 1992-1995)
Exercise and nutrition (1979 -present)
Topics in exercise science (1981-1995)
Physiological basis of physical activity (1982-1984)
Advanced exercise physiology (1984-1986)
Exercise physiology (1984-1996, 2001, 2005)
Research methods (1988-present)
Hormones and Exercise (1993-present)
Exercise and human biology (1993-present)
Human movement and aging: Hormones and nutrition (1999-present)
Physical activity, health and disease (2000- present)

DOCTORAL AND MASTER'S DEGREE STUDENTS:

1983 **Susan Kandarian**, M.S. (Education)

- "Exercise-induced reproductive and physiological changes in anestrus hamsters: The role of prolactin."
- 1984 **Tzu-Wen Gong**, M.S. (Human Nutrition Program)
"Influence of dietary protein intake on exercise and retirement effects in hamsters."
- 1985 **Susan E. MacConnie**, Ph.D. (Physical Education: Kinesiology)
"The acute and chronic effect of marathon training on the function of the hypothalamo-pituitary axis of male runners." Placement: T.B.Gilliam Enterprises, Twinsburg, OH.
- Robert J. Moffatt**, Ph.D. (Physical Education: Kinesiology)
"The effect of chronic exercise and retirement from chronic exercise on regulation of body energy balance of the adult female golden hamsters." Placement: Assistant Professor, Department of Physical Education, Western Washington University, Bellingham, WA (1983-1985) and Assistant Professor, Associate Professor, Currently: Professor and Chairperson, Department of Movement Science and Physical Education, Florida State University, Tallahassee, FL.
- Jeanne F. Nichols**, Ph.D. (Physical Education: Kinesiology) "The effect of age and acute submaximal exercise on metabolic and hormonal characteristics of hamsters."
Placement: Assistant Professor, Associate Professor (1985), Currently: Associate Professor; Professor, Department of Exercise & Nutritional Sciences, San Diego State University, San Diego, CA.
- Kim Khawand**, M.S. (Physical Education: Kinesiology)
"The effects of exercise on diet-induced thermogenesis"
- 1993: **Carole A. Conn**, Ph.D. (Kinesiology)
"The effects of exercise and food restriction on the acute phase response." Placement: Research Associate, Lovelace Institute, Albuquerque, N.M. 1994-; Assistant Professor, 2004: Associate Professor, Department of Nutrition Education, University of New Mexico, Albuquerque, NM (1998- present);
- Pamela Johnson Rowsey**, Ph.D. (Kinesiology)
"Relationship of exercise-induced core temperature elevation to fever: Involvement of tumor necrosis factor, prostaglandin, and corticotropin releasing factor."
Placement: Postdoctoral Fellow, University of Michigan School of Nursing, 1994-1996; Assistant Professor, 2003: Currently: Associate Professor, School of Nursing, University of North Carolina, Chapel Hill, NC, ..
- 2000: **Jacqueline La New**, M.S. (Kinesiology)
"The effect of walking speed on body composition as a function of age in middle-aged and older women".
Placement: Aquatics manager, Larry R. Walkup Aquatic Center, Los Alamos, NM.
- 2002 **Po-Ju Lin** (M.S.)

- 2003 **Courtney Hughes** , M.S. (Kinesiology)
 “The relationship between intraday exercise participation and dietary behavior in American adults”.
- Lauren Weddell, M.S.** (Kinesiology)
 “The influence of meals on exercise-induced energy expenditure and metabolism in postmenopausal women”.
- 2007 **Elizabeth Wuorinen** (Kinesiology)
 “Detection of exercise energy expenditure”
 Placement: Assistant Professor in Physical Education, Norwich University, Northfield, Vermont.
- 2011 **Po-Ju Lin** (pre-candidate, Kinesiology)
 “The role of liver glycogen in the hypoglycemic effect of two bouts of exercise”

SERVICE:

Division of Kinesiology, The University of Michigan:

Faculty Search Committees (1986,1989,1990,1999 twice, 2003)
 Graduate Committee (1986-1988)
 Executive Committee (1984-1987, 1988-1989, 1991-1993, 1995-1996, 1999-2002; 2004-2006)
 Gopher/Kimweb Committee (1994-1996)
 Directors Committee (1994-1996)
 Associate Director for Research (1994-1996)
 Chair, Movement Science (1990-1991, 2000-2001)

The University of Michigan:

Faculty Search Committee (Human Nutrition Program, (1982)
 Senate Assembly (1986-1988)
 SACUA Student Relations Committee (1988-1990)
 Chairperson in 1989-1990
 Task Force on Diversity, Research Policies Committee (1988)
 Training Program Committee, Reproductive Endocrinology Program (1984-1985, 1988-1989)
 University Committee on Use and Care of Laboratory Animals (1989-1992)
 Library Council (1992-1995; 1996-1999)
 Minority Affairs Committee, Reproductive Sciences Program (1994-1996)
 Rackham School of Graduate Studies Divisional Board (1999-2001)
 SACUA Research Policy Committee (2001-2004)
 Chairperson 2002-2003, 2003-2004
 Cognate panel, Faculty Grievance Review Board (2004-2006)
 Chair of 1994 and 2006 grievances.
 Michigan Healthy Community Advisory Committee (and Risk Reduction and Incentives sub-committee), 2007-2010.