

CURRICULUM VITAE

William R. Leonard

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EDUCATION

1983-1987 University of Michigan
Ph.D., Biological Anthropology

1981-1983 University of Michigan
M.A., Biological Anthropology

1978-1980 The Pennsylvania State University
B.S., Biology (Summa Cum Laude)

ACADEMIC POSITIONS HELD

2004-present Director
Global Health Studies Program, Northwestern University

2003-present Chair
Department of Anthropology, Northwestern University

2002-present Adjunct Curator
Department of Anthropology, Field Museum

2001-present Professor (courtesy appointment)
Department of Preventive Medicine, Northwestern University

2001-present Professor (courtesy appointment)
Department of Neurobiology and Physiology, Northwestern University

2001- present	Professor Department of Anthropology, Northwestern University
1998-2001	Associate Professor Department of Anthropology, Northwestern University
1996-98	Assistant Professor Department of Anthropology, University of Florida
1994-96	Associate Professor Department of Human Biology & Nutritional Sciences, Univ of Guelph
1989-94	Assistant Professor School of Human Biology, University of Guelph
1987-89	Postdoctoral Research Fellow Dept. of Behavioral Science, University of Kentucky Medical School

AWARDS AND HONORS

2006	Fellow, American Assn. For the Advancement of Science (section H)
1981	Phi Beta Kappa
1980	Student Marshall, 1980 Graduation, Penn State
1980	Gold Key Honor Society
1980	Phi Sigma, Biological Sciences Honor Society
1980	The President Sparks Award
1979	The President's Freshman Award

GRANTS AND FELLOWSHIPS

- 2007-2009 National Science Foundation (BCS- 0650378; \$149,990)
Research Grant (R. Godoy, co-PI)
“Longitudinal study of health and lifestyle change in lowland Bolivia”
- 2006-2009 National Science Foundation (BCS-0552296; \$100,000)
Research Grant (PI for Northwestern subcontract; V. Reyes-García, PI)
“Social returns of local knowledge in child health and forest conservation”
- 2006-2009 National Science Foundation (BCS-0609924; \$162,590)
Training Grant (PI for Northwestern subcontract]; R Godoy, PI)
“Summer field training in methods to collect data”
- 2006-2008 National Institutes of Health (NICHD,1R21HD050776; \$285,000)
Exploratory Research Grant (R. Godoy and T.W. McDade, Co-PIs)
“Inequality, social capital and health in Bolivia”
- 2005 National Science Foundation (BCS-0522543; \$3,300)
REG Supplement for Graduate Student –A. Miller
- 2005 National Science Foundation (BCS- 0522539; \$4,000)
REU Supplement for Undergraduate Student – A. Silverman
- 2004-2005 National Science Foundation (BCS- 0424396; \$9,999)
Doctoral Dissertation Improvement Grant (A Miller)
“Interactive effects of market integration and seasonality on energetics and ovarian function in a lowland Bolivian population”
- 2004-2005 Chicago Department of Public Health, CDC (\$18,159)
Research Assistantship for Kathleen Lindsay
“Context of HIV Infection”
- 2004 Northwestern University Alumni Association (\$5000)
Equipment Grant
“Portable metabolic analyzer for measuring human energy expenditure”
- 2003-2006 National Science Foundation (BCS- 0322380; \$149,900)

- Research Grant (co-PI with TW McDade)
“Multidimensional Analysis of Quality of Life”
- 2002-2003 National Science Foundation (BCS-0217980; \$3,645)
REG Supplement for Graduate Student – M. Aiello
- 2002-2003 National Science Foundation (BCS-0200767; \$25,200)
Research Grant (R Godoy and TW McDade, co-PIs)
“Modernization and its Discontents: Socioeconomic and Biological
Influences on Quality of Life”
- 2001-2002 National Science Foundation (BCS-0130761; \$10,027)
Doctoral Dissertation Improvement Grant (MV Sorensen)
“Determinants of Cardiovascular Disease Risk among Rural and Urban Yakut”
- 2001-2002 National Science Foundation (BCS-0114225; \$43,736)
Conference Grant (co-PI with R Godoy)
“Workshop on Qualitative and Quantitative Methods for Longitudinal
Research”
- 2001-2002 Northwestern University, Undergraduate Research Initiatives (\$20,000)
Grant (co-PI with T McDade and H Schwartzman)
“Anthropology, Human Biology and Health: Integrating Coursework and
Collaborative Research”
- 2001 National Science Foundation (BCS-0118605; \$2,850)
REG Supplement for Graduate Student – E. Byron
- 2000-2004 National Science Foundation (BCS-0078801; \$ 246,694)
Research Grant (Ricardo Godoy, Co-PI)
“Markets and Health: A Study of Indigenous Populations of Lowland Bolivia”
- 2000-2002 World Bank (\$143,000)
Grant (Co-PI with Ricardo Godoy)
“Might Culture Pay Off? Farming Innovations and Cultural
Empowerment among Lowland Amerindians”
- 2000 Wenner-Gren Foundation (\$4,000)
Conference Grant (S Ulijaszek, Co-PI)
“Energetics and Evolution”

- 1996-98 National Geographic Society (\$20,000)
Two Year Research Grant
“Metabolic Adaptation and Seasonal Energy Stress among Siberian Herders”
- 1994-97 Natural Sciences & Engineering Research Council (\$104,000CN)
Research Grant
“Ecology, Energetics and Biological Change in an Indigenous Siberian Population”
- 1994 Natural Sciences & Engineering Research Council (\$11,100CN)
Equipment grant (Co-I with R Gibson and D O'Connor)
Bioelectrical Impedance Body Composition Analyzer
- 1991-93 National Science Foundation (BCS 9106378; \$93,558)
Two Year Research Grant (Co-PI with KM DeWalt)
“Ecological Determinants of Child Growth in Ecuador”
- 1991-94 Natural Science & Engineering Research Council of Canada(\$75,000CN)
Three Year Operating Grant
“Ecology and Biological diversity of Siberian Reindeer herders”
- 1991-92 US Man & the Biosphere/NSF (DEB 9101571; \$49,724)
Research Grant (Co-PI with MH Crawford, R Sukernik)
“Biological diversity and ecology in the Evenks of Siberia”
- 1990 Wenner-Gren Foundation (\$5,000)
Richard Carley Hunt Memorial Fellowship
“Seasonal cycling of activity patterns in response to energetic constraints among Andean farmers”
- Social Science and Humanities Research Council (\$5,000 CN)
Research Grant
“Ecological correlates of health and nutritional status among Ecuadorian farmers”
- Social Science and Humanities Research Council (\$300 CN)
Travel Grant
- 1989 Research Board Grant, University of Guelph (\$5,000 CN)
“Adaptive strategies among small-scale Ecuadorian farmers”

- 1987-89 NIMH Postdoctoral Fellowship, University of Kentucky (\$33,000)
- 1987 Rackham Dissertation Grant, University of Michigan (\$1,000)
“Nutritional adaptation and dietary change in the Peruvian Andes”
- 1985 Rackham Field Research Grant, University of Michigan (\$1,000)
- 1982-83 Gundaker Foundation Graduate Fellowship (\$1,500)
- 1981-82 John W. White Graduate Fellowship (\$1,000)
Pennsylvania State University

FIELD EXPERIENCE

- 1999-present Co-Principal Investigator
Beni Department, Bolivia
“Acculturation and Health Change among the Tsimane”
- 2003 Co-Principal Investigator
Sakha Republic (Yakutia), Siberia
“Metabolic Adaptation and Lifestyle Change in the Yakut”
- 1998 Principal Investigator
Baykal Region, Siberia
“Acculturation and Metabolic Health of the Buryat”
- 1995 Principal Investigator
Central Siberia, Russia
“Metabolic Adaptation and Health of Indigenous Siberian”
- 1992-93 Co-Principal Investigator
Cotopaxi and Manabi Provinces, Ecuador
“Ecological Determinants of Child Growth in Ecuador”
- 1991-92 Co-Principal Investigator
Central Siberia, Russia
“Ecology and Biological Diversity of Siberian Herders”
- 1988 Field Coordinator, Consultant
Pichincha and Cotopaxi Provinces, Ecuador

“Incorporating nutritional concerns into agricultural agricultural development projects”
Cooperative Agreement in Nutrition and Agriculture
(KM DeWalt & T Frankenberger, P.I.s)

1985 Project Field Director
Nuñoa, Peru (Department of Puno)
“Consequences of and responses to illness among Andean peasant farmers” (RB Thomas, P.I.)

RESEARCH EXPERIENCE

1998-present Investigating the ecology of health and nutritional status among the Tsimane Indians of Lowland Bolivia
(with R Godoy, TW McDade, V Reyes-García, V Vadez, T Huanca)

1990-present Investigating the ecology and population biology of the Evenk Reindeer herders and Buryat agro-pastoralists of the Siberian region of Russia (with MH Crawford, RI Sukernik, L Osipova, V Spitsyn, L Tarskaia)

Examining the evolution of human nutritional requirements;
Development of quantitative ecological models for understanding hominid evolution (with ML Robertson)

1990-94 Evaluating the social and ecological determinants of variation in early childhood growth and nutritional status in highland and coastal Ecuador (with KM DeWalt, J Stansbury & S Hamilton)

1987-89 NIMH Postdoctoral Fellow
Department of Behavioral Science, U Kentucky
Nutritional strategies and responses to chronic energy stress

GRADUATE TRAINING

Ph.D. Dissertations Supervised:

- Peter R Berti (1996) Dietary adequacy and its relationship to anthropometric status in a highland Ecuadorian community. Applied Human Nutrition, University of Guelph.
- Mark V. Sorensen (2003) Social and biological determinants of cardiovascular risk among urban and rural Yakut: Impact of socioeconomic upheaval. Department of Anthropology, Northwestern University.
- J. Joshua Snodgrass (2004) Energetics, Health, and Economic Modernization in the Yakut (Sakha) of Siberia: A Biocultural Perspective on Lifestyle Change in a Circumpolar Population. Department of Anthropology, Northwestern University.

M.Sc., M.S. & M.A. Theses/Papers Supervised:

- Ainsley Moore (1993) A comparison of dietary methods and examination of factors affecting children's nutritional status in highland Ecuador. M.Sc. thesis, Human Biology, University of Guelph.
- Peter T. Katzmarzyk (1993) The adaptive significance of energy expenditure among indigenous Siberian populations. M.Sc. thesis, Human Biology, University of Guelph.
- Allen GP Ross (1994) Nutrition and energy balance in coastal Ecuador. M.Sc. thesis, Human Biology, University of Guelph.
- K Mark Builder (1994) Validation of the flex heart rate method of predicting energy expenditure using upper vs. lower body dynamic exercise. M.Sc. thesis, Human Biology, University of Guelph.
- Merrill A Stephen (1994) Quantification of energy expenditure in highland Ecuadorian women and men. M.Sc. thesis, Human Biology, University of Guelph.
- Leta M Woodill (1996) Growth variation in a rural community of lowland Bolivia. M.Sc., thesis, Human Biology & Nutritional Sciences, University of Guelph.
- Victoria Galloway (1996) Basal Metabolic Adaptation of the Evenki of Siberia. M.Sc. thesis, Human Biology & Nutritional Sciences, University of Guelph.

- Gary J. Spencer (1998) Changing Patterns of Growth and Development among the Evenki Reindeer Herders of Central Siberia. M.Sc. thesis, Human Biology & Nutritional Sciences, University of Guelph.
- Mark V. Sorensen (1998) Neandertal Energetics and Foraging Efficiency. M.A. paper, Department of Anthropology, University of Florida.
- Zoe Foster (2001) Physical Growth and Nutritional Status of Tsimane' Amerindian Children of Lowland Bolivia. M.A. paper, Department of Anthropology, Northwestern University
- James E. Burhop (2003) Infection, C-Reactive Protein, and Growth of Tsimane' Amerindian Children from Lowland Bolivia. M.S. thesis, Department of Neurobiology & Physiology, Northwestern University.

M.Sc. & M.A. Committee Member:

- Heather Stalker (1990) (Human Biology, University of Guelph)
Peter R Berti (1992) (Human Biology, University of Guelph)
Audrey CL Choh (1993) (Human Biology, University of Guelph)
Tamara L Varney (1994) (Human Biology, University of Guelph)
Gayle Ecker (1994) (Human Biology, University of Guelph)
Marie K Zehr (1994) (Human Biology, University of Guelph)
Archana Dwivedi (1994) (Rural Planning & Development, University of Guelph)
Tosha Dupras (1995) (Human Biology, University of Guelph)
Joe McComb (1995) (Anthropology, University of Kansas)
Thomas Hawke (1996) (Human Biology & Nutritional Sciences, University of Guelph)
David Pratte (1996) (Human Biology & Nutritional Sciences, University of Guelph)
Kevin Lloyd (1997) (Latin American Studies, University of Florida)
J Josh Snodgrass (1998) (Anthropology, University of Florida)
Elizabeth Byron (1999) (Anthropology, University of Florida)
Maria Morera (1999) (Anthropology, University of Florida)

Ph.D. Committee Member:

- S Eileen Hogan (1992) (Applied Human Nutrition, University of Guelph)
Anthony G Comuzzie (1993) (Department of Anthropology, University of Kansas)
Ursula Donovan (1993) (Applied Human Nutrition, University of Guelph)
Joan S Jory (1996) (Applied Human Nutrition, University of Guelph)
Louis Forline (1997) (Department of Anthropology; University of Florida)
Tina Moffat (1998) (Department of Anthropology, McMaster University)
Elise Levin (2002) (Department of Anthropology, Northwestern University)

Isabelle Miller (2005) (Department of Anthropology, University of Washington)

Susan N. Tanner (2005) (Department of Anthropology, University of Michigan)

Post-doctoral Supervision:

Anne Keenleyside (1995-96) Health status and acculturation among indigenous Siberians

Susan Tanner (2005-06) Parasitic diseases and nutritional health among the Tsimane' of Bolivia

TEACHING EXPERIENCE

Northwestern University Human Origins (introductory, undergraduate)
Evolutionary Medicine (freshman seminar)
Human Population Biology (advanced undergraduate)
International Public Health (advanced undergrad & medical)
Anthropology of Food and Nutrition (graduate seminar)
Logic of Inquiry – Biological Anthropology (graduate)

University of Florida: Human Sexuality (introductory, undergraduate)
Environment and Cultural Behavior (advanced undergraduate)
Human Growth & Development (graduate course)
Physiological Anthropology (graduate course)
Human Ecology (graduate course)

University of Guelph: Human Variability (fourth year course)
Human Ecology (third year course)
Special Problems in Human Biology (fourth year course)
Topics in Biological Anthropology (graduate course)

PROFESSIONAL ACTIVITIES

Positions Held:

Curriculum Chair, Council on Nutritional Anthropology, 1990-94

Chair, Nominations Committee, Human Biology Association, 1992-94, 1999-2001, 2004-2006

Publications Committee, Human Biology Association, 1995-97

Chair, Publications Committee, Human Biology Association, 1997-99

Membership Committee, Human Biology Association, 1995-present

Student Prize Committee, American Association of Physical Anthropologists, 1997-98

Editorial Board Member, *Human Biology*, 1993-present

Editorial Board Member, *Economics and Human Biology*, 2002-present

Editorial Board Member, *American Journal of Human Biology*, 2003-present

Editorial Board Member (Guest), *Annual Review of Anthropology* (Volume 33, 2004), 2002

Professional Memberships: American Association of Physical Anthropologists; American Anthropological Association; Human Biology Association; American Institute of Nutrition/American Society for Clinical Nutrition; American Association for the Advancement of Science; Sigma Xi; American Academy of Sports Medicine.

Manuscript Reviewing: *American Journal of Physical Anthropology, American Journal of Human Biology, Current Anthropology, Journal of Human Evolution, Human Biology, Journal of Applied Physiology, Social Science & Medicine, Human Ecology, Ecology of Food and Nutrition, Current Anthropology, Letheia*

Grant Reviewing: US National Science Foundation (NSF); Social Sciences and Humanities Research Council (SSHRC) of Canada; Medical Research Council (MRC) of Canada; National Geographic Society; Natural Environment Research Council (NERC)

PUBLICATIONS

Dissertation:

- 1987 Leonard, WR. Nutritional adaptation and dietary change in the southern Peruvian Andes. University of Michigan.

Edited Volumes:

- 1996 Zemel, BS, SJ Ulijaszek and W Leonard (Eds.). Energetics, Lifestyles and Nutritional Adaptation. *American Journal of Human Biology* **8**:141-304.
- 2002 Leonard, WR and MH Crawford (Eds.) *Human Biology of Pastoral Populations*. Cambridge Studies in Biological and Evolutionary Anthropology, No. 30. Cambridge University Press.
- 2002 Leonard, WR, and SJ Ulijaszek (Eds.) Energetics and Evolution. *American Journal of Human Biology* **14**:547-648.

Journal Articles & Book Chapters (‘ = Refereed Contribution)

- 1984 ‘Frisancho, AR, WR Leonard and LA Bolletino. Blood pressure in blacks and whites and its relationship to dietary sodium and potassium intake. *Journal of Chronic Diseases* **37**:515-519.
- 1985 ‘Frisancho, AR, J Matos, WR Leonard and LA Yaroeh. Developmental and nutritional determinants of pregnancy outcome in teenagers. *American Journal of Physical Anthropology* **66**:247-261.
- 1986 ‘Garn, SM, WR Leonard and VW Hawthorne. Three limitations of the Body Mass Index. *American Journal of Clinical Nutrition* **44**:996-997.
- Garn, SM, WR Leonard and KR Rosenberg. Body build dependence, stature dependence and the influence of lean tissue on the Body Mass Index. *Ecology of Food and Nutrition* **19**:163-165.
- ‘Overton DA, WR Leonard and DA Merkle. Methods for measuring the strength of discriminable drug effects. *Neuroscience & Biobehavioral Reviews* **10**:251-263.
- 1987 ‘Leonard, WR and M Hegmon. Evolution of P3 morphology in *Australopithecus afarensis*. *American Journal of Physical Anthropology* **73**:41-63.

- Garn, SM, WR Leonard and AK Poznanski. Applications of the Pattern Variability Index (σ_z) to the quantification of dysmorphogenesis in the hand. *American Journal of Medical Genetics* **27**:143-152.
- Garn, SM, WR Leonard and VW Hawthorne. Reply to the comments of Micozzi and Albanes on "Three limitations of the Body Mass Index." *American Journal of Clinical Nutrition* **46**:377.
- 1988 Leonard, WR and RB Thomas. Changing dietary patterns in the Peruvian Andes. *Ecology of Food and Nutrition* **21**:245-263.
- Leonard, WR. The impact of seasonality on caloric requirements of human populations. *Human Ecology* **16**:343-346.
- 1989 Leonard, WR and RB Thomas. Biosocial responses to seasonal food stress in highland Peru. *Human Biology* **61**:65-85.
- Leonard, WR. Nutritional strategies in the rural Andes and their impact on growth, development and mortality. *Homo* **39**:65-78.
- Garn, SM and WR Leonard. What did our ancestors eat? *Nutrition Reviews* **47**:337-345.
- Brace, CL, ML Brace and WR Leonard. Reflections on the face of Japan: A multivariate craniofacial and odontometric perspective. *American Journal of Physical Anthropology* **78**:93-113.
- Leonard, WR. Protection of children from seasonal nutritional stress in an Andean agricultural community. *European Journal of Clinical Nutrition* **43**:597-602.
- Leonard, WR. Nutritional determinants of high-altitude growth in Nuñoa, Peru. *American Journal of Physical Anthropology* **80**:341-352.
- Leonard, WR. On the adaptive significance of energetic efficiency. *Human Ecology* **17**:465-470.
- 1990 Garn, SM and WR Leonard. What did our paleolithic (pre-agricultural) ancestors eat?: Reply to Eaton. *Nutrition Reviews* **48**:229-230.

- Leonard, WR, TL Leatherman, JW Carey and RB Thomas. Contributions of nutrition versus hypoxia to growth in rural Andean populations. *American Journal of Human Biology* **2**:613-626.
- Brace, CL, ML Brace, Y Dodo, KD Hunt, WR Leonard, L Yongyi, S Xianging, S Sangvichien and Z Zhenbiao. Micronesians, Asians, Thais and relations: A craniofacial and odontometric perspective. *Micronesica* (Supplement) **2**:323-348.
- 1991 Leonard, WR. Assessing growth and nutritional status. *Practicing Anthropology* **13**(1):28-30.
- Leonard, WR. Australopithecus afarensis and the single species hypothesis. *Primates* **32**:125-130.
- Leonard, WR. Household-level strategies for protecting children from seasonal food scarcity. *Social Science & Medicine* **33**:1127-1133.
- Leonard, WR. Age and sex differences in the impact of seasonal energy stress among Andean agriculturalists. *Human Ecology* **19**:351-368.
- 1992 Leonard, WR and ML Robertson. Nutritional requirements and human evolution: a bioenergetics model. *American Journal of Human Biology* **4**:179-195.
- Leonard, WR. Comment on: Coca chewing and diet. *Current Anthropology* **33**:19.
- Leonard, WR. Variability in adaptive responses to dietary change among Andean farmers. *MASCA Research Papers* **9**:71-82.
- Crawford, MH, WR Leonard and RI Sukernik. Biological diversity and ecology in the Evenki of Siberia. *MAB Northern Sciences Network Newsletter* **1**:13-14.
- Leonard, WR, MH Crawford, AG Comuzzie and RI Sukernik. New light on nutrition and peopling of the New World. *Arctic Research of the United States* **6**:13-16.
- 1993 Leonard, WR, KM DeWalt, JE Uquillas and BR DeWalt. Ecological correlates of dietary consumption and nutritional status in highland and coastal Ecuador. *Ecology of Food and Nutrition* **31**:67-85.
- 1994 Leonard, WR and ML Robertson. Evolutionary perspectives on human nutrition: the influence of brain and body size on diet and metabolism. *American Journal of Human Biology* **6**:77-88.

'Smith, RJ, DM Lavigne and WR Leonard. Sub-specific status of the freshwater harbour seal (*Phoca vitulina mellonae*): A re-assessment. *Marine Mammal Science* **10**:105-110.

'Leonard, WR, MH Crawford, AG Comuzzie, and RI Sukernik. Correlates of low serum lipid levels among the Evenki herders of Siberia. *American Journal of Human Biology* **6**:329-338.

'Leonard, WR, PT Katzmarzyk, AG Comuzzie, MH Crawford, and RI Sukernik. Growth and nutritional status of the Evenki reindeer herders of Siberia. *American Journal of Human Biology* **6**:339-350.

'Leonard, WR and PT Katzmarzyk. Nutritional ecology and energetics of the Evenki herders of Central Siberia. In: A Herring and L Chan (Eds.), *Strength in Diversity: A Reader in Physical Anthropology*. Canadian Scholars' Press: Toronto, pp. 303-326.

'Leonard, WR, KM DeWalt, JE Uquillas and BR DeWalt. Diet and nutritional status of cassava producing agriculturalists of coastal Ecuador. *Ecology of Food and Nutrition* **32**:113-127.

Crawford, MH, AG Comuzzie, WR Leonard, and RI Sukernik. Molecular genetics, protein variation and the populations structure of the Evenki. In: CL Markert, JG Scandalios, HA Lim, and O Serov (Eds.), *Isozymes: Organization and roles in evolution, genetics and physiology*. World Scientist: NJ, pp. 227-241.

'Lin, SJ, K Tanaka, W Leonard, T Gerelsaikhan, B Dashnyam, S Nyamkhishig, A Hida, Y Nakahori, K Omoto, MH Crawford, and Y Nakagome. A Y-associated allele is shared among a few ethnic groups of Asia. *Japanese Journal of Human Genetics* **39**:299-304.

'Katzmarzyk, PT, WR Leonard, MH Crawford and RI Sukernik. Resting metabolic rate and daily energy expenditure among two indigenous Siberian populations. *American Journal of Human Biology* **6**:719-730.

'Katzmarzyk, PT, WR Leonard, MH Crawford, and RI Sukernik. Predicted maximal oxygen consumption of indigenous Siberians. *American Journal of Human Biology* **6**:783-790.

1995 'Steggmann, AT, TL Li, SJ Hewner, DW Emmer, X Zhang, and WR Leonard. China productivity project: general description and analysis of productivity. *American Journal of Human Biology* **7**:7-19.

Berti, PR and WR Leonard. The merits of race-specific standards (letter). *American Journal of Clinical Nutrition* **61**:616.

McComb, J, N Blagitko, AG Comuzzie, MS Schanfield, RI Sukernik, WR Leonard and MH Crawford. VNTR population variation in Siberian indigenous populations. *Human Biology* **67**:217-229.

Leonard, WR, PT Katzmarzyk, MA Stephen and AGP Ross. Comparison of the heart-rate monitoring and factorial methods: assessment of energy expenditure in highland and coastal Ecuadoreans. *American Journal of Clinical Nutrition* **61**:1146-1152.

Comuzzie, AG, R Duggirala, WR Leonard, and MH Crawford. Population relationships among historic and modern indigenous Siberians based on anthropometric characters. *Human Biology* **67**:459-479.

Leonard, WR and ML Robertson. Energetic efficiency of human bipedality. *American Journal of Physical Anthropology* **97**:335-338.

Leonard, WR, KM DeWalt, JP Stansbury and MK McCaston. Growth differences between children of highland and coastal Ecuador. *American Journal of Physical Anthropology* **98**:47-57.

Leonard, WR and ML Robertson. Letter to the Editor. *Evolutionary Anthropology* **4**:31.

1996 Leonard, WR and ML Robertson. On diet, energy metabolism and brain size in human evolution. *Current Anthropology* **37**:125-129.

Kamboh MI, MH Crawford, CE Aston and WR Leonard. Population distributions of APOE, APOH and APOH4 polymorphisms and their relationships with quantitative plasma lipid levels among the Evenki herders of Siberia. *Human Biology* **68**:231-243.

Zemel, BS, SJ Ulijaszek and W Leonard. Energetics, lifestyles and nutritional adaptation: an introduction. *American Journal of Human Biology* **8**:141-142.

Leonard, WR, PT Katzmarzyk and MH Crawford. Energetics and population ecology of Siberian herders. *American Journal of Human Biology* **8**:275-289.

Katzmarzyk, PT, WR Leonard, MA Stephen, PR Berti and AGP Ross. Differences between observed and predicted energy costs at rest and during exercise in three subsistence-level populations. *American Journal of Physical Anthropology* **99**:537-545.

Leonard, WR and ML Robertson. Comment on: "Biology and body size in human Evolution". *Current Anthropology* **37**:469.

McComb, J, MH Crawford, WR Leonard, L Osipova and MS Shanfield. Applications of DNA fingerprints to the study of genetic structure in human populations. In: JP Gustafson and RB Flavell (eds.), *Genomes of Plant and Animals: 21st Annual Stadler Genetics Symposium*. Plenum: New York, pp. 31-46.

1997 Leonard, WR and ML Robertson. Rethinking the energetics of bipedality. *Current Anthropology* **38**:304-309.

Leonard, WR and ML Robertson. Comparative primate energetics and hominid evolution. *American Journal of Physical Anthropology* **102**:265-281.

Leonard, WR, A Keenleyside, and E Ivakine. Recent fertility and mortality trends among indigenous and non-indigenous populations of Central Siberia. *Human Biology* **69**:403-417.

Steggmann, AT, TL Li, SJ Hewner, DW Emmer, W Sun, WR Leonard, X Zhang, and ZY Lui. The China Productivity Project: results and conclusions. *American Journal of Physical Anthropology* **103**:295-313.

Leonard, WR, VA Galloway, and E Ivakine. Underestimation of daily energy expenditure with the factorial method: Implications for anthropological research. *American Journal of Physical Anthropology* **103**:443-454.

Berti, PR, WR Leonard, and WJ Berti. Malnutrition in rural highland Ecuador: the importance of intrahousehold food distribution, diet composition, and nutrient requirements. *Food and Nutrition Bulletin* **18**:352-362.

1998 Berti PR, WR Leonard, and WJ Berti. Stunting in an Andean community: Prevalence and etiology. *American Journal of Human Biology* **10**:229-240.

Berti, PR and WR Leonard. Demographic and socioeconomic determinants of variation in nutrient intake in an Andean community. *American Journal of Physical Anthropology* **105**:407-417.

Katzmarzyk PT and WR Leonard. Climatic influences on human body size and proportions: Ecological adaptations and secular trends. *American Journal of Physical Anthropology* **106**:483-503.

1999 Santos FR, A Pandya, C Tyler-Smith, SD Pena, M Shanfield, WR Leonard, L Osipova, MH Crawford, and RJ Mitchell. The central Siberian origin for native American Y-chromosomes. *American Journal of Human Genetics* **64**:619-628.

- Leonard WR, VA Galloway, E Ivakine, L Osipova, and M Kazakovtseva. Nutrition, thyroid function and basal metabolism of the Evenki of Central Siberia. *International Journal of Circumpolar Health* **58**:281-295.
- 2000 Leonard WR and ML Robertson. Ecological correlates of home range variation in primates: Implications for hominid evolution. In: S Boinski and PA Garber (eds.): *On the Move: How and Why Animals Travel in Groups*. Chicago: University of Chicago Press, pp. 628-648.
- Leonard WR. Human nutritional evolution (Chapter 9). In: S Stinson, B Bogin, R Huss-Ashmore and D O'Rourke (eds.): *Human Biology: An Evolutionary and Biocultural Approach*. New York: Wiley-Liss, pp. 295-344.
- Galloway VA, WR Leonard, and E Ivakine. Basal metabolic adaptation of the Evenki reindeer herders of Central Siberia. *American Journal of Human Biology* **12**:75-87.
- Stansbury JP, WR Leonard and KM DeWalt. Caretakers, child care practices and growth failure in highland Ecuador. *Medical Anthropology Quarterly* **14**:224-241.
- Mitchell RJ, S Howlett, L Earl, NG White, J McComb, MS Shanfield, I Briceno, SS Papiha, L Osipova, G Livshits, WR Leonard, and MH Crawford. Distribution of the 3' VNTR polymorphism in the human dopamine transporter gene in world populations. *Human Biology* **72**:295-304.
- Leonard WR, KM DeWalt, JS Stansbury and MK McCaston. The influence of dietary quality on the growth of highland and coastal Ecuadorian children. *American Journal of Human Biology* **12**:825-837.
- 2001 Leonard WR. Assessing the influence of physical activity on health and fitness. *American Journal of Human Biology* **13**:159-161.
- Sorensen MV and WR Leonard. Neandertal energetics and foraging efficiency. *Journal of Human Evolution* **40**:483-495.
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- 1987 Leonard, WR. Energy intake and expenditure in the Southern Peruvian highlands. Presented at the 56th Annual Meeting of the AAPA.
- Poznanski, AK, SM Garn and WR Leonard. Quantification of dysmorphogenesis of the hand using the Pattern Variability Index (Φ_z). Presented at the 1987 meeting of the David Smith Society.
- 1988 Leonard, WR and JW Carey. Social correlates of diet and nutrition in an Andean community. Presented at the 57th Annual Meeting of the AAPA.
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