CURRICULUM VITAE
University of Idaho

NAME: Lisette P. Waits **DATE:** 7/30/12

RANK OR TITLE: Professor

DEPARTMENT: Fish and Wildlife Resources

OFFICE LOCATION AND CAMPUS ZIP: CNR 103D, 1136 **OFFICE PHONE:** (208) 885-7823
FAX: (208) 885 - 9080
EMAIL: lwaits@uidaho.edu
WEB:http://www.uidaho.edu/cnr/fishwild/lisettewaits.aspx

DATE OF FIRST EMPLOYMENT AT UI: November 1997

DATE OF TENURE: 2003

DATE OF PRESENT RANK OR TITLE: 2009

EDUCATION BEYOND HIGH SCHOOL:

PhD (Genetics), 1996, University of Utah, Salt Lake City, Utah
BS (Genetics), 1991, University of Georgia, Athens, Georgia

EXPERIENCE:

Teaching, Extension and Research Appointments:

November 1997 – current, Professor, Department of Fish and Wildlife

August 1997 – current, Environmental Science Faculty member

August 2000 – current, Bioinformatics program Faculty member

August 2001 – current, Affiliate faculty, CATIE, Costa Rica

May 1996 – Sept 1997, Postdoctoral Fellow, Laboratoire de Biologie des Populations d'Altitude, Universite Joseph Fourier, France

February 1996 – April 1996, Postdoctoral Fellow, Department of Human Genetics, Univ. of Utah

August 1991 – January 1996, Research Assistant, Department of Human Genetics, Univ. of Utah

Academic Administrative Appointments:

August 1999 – December 2001 Co-Administrator and Co-founder Natural Resources Ecology and Conservation Biology Undergraduate Program in CNR

July 2004 – Dec 2007 – Co-Director of UI Center for Research on Invasive Species and Small Populations

TEACHING ACCOMPLISHMENTS:

Areas of Specialization: Conservation Biology/Conservation Genetics/Landscape Genetics

Courses Developed and Taught at UI:

Conservation Biology, WLF440, 1998 – 2011, 3 cr, enrollment ~ 50
Conservation Genetics, WLF540, 1999 – 2010, 3-4 cr, enrollment ~ 12
Landscape Genetics, WLF 561, 2006 – 2010, 2-4 cr, ~12 enrollment
Advanced Topics in Conservation Biology, WLF515, 1999, 3 cr, enrollment 10
Ecology and Conservation Biology Seminar, WLF200, 1999 – 2001, 1 cr, enrollment ~15
` Integrated Natural Resource Problem Solving, WLF470, 1999 - 2000, 3 cr, enrollment ~40
Microsatellite Analysis Seminar, WLF503, 2000, 1 cr, enrollment, 11
Gene Flow Seminar, WLF503, 2001, 1 cr, enrollment 14
New Wild West, Core 101/102, 2001-2002, 3 –4 credit, enrollment ~30
Interdisciplinary Research Methods, WLF504, 2 cr, enrollment ~10
Spatial Methods in Ecology and Conservation, S2008, 3 cr, enrollment 11
Space Matters Seminar, WLF503, S2008, 1 cr, enrollment 22

Students Advised:

Undergraduate Students: (~20 per year in Wildlife and Natural Resources Ecology and Conservation Biology), ~2-4 per year in undergraduate research projects.

Graduate Students:

2012 – present, Susannah Woodruff, PhD, Non-invasive genetic monitoring of endangered Sonoran pronghorn

2012 – present, Robert Lonsinger, PhD, Non-invasive genetic monitoring of kit fox

2011 – present Stephanie DeMay, MS, Non-invasive genetic monitoring of the endangered Washington pygmy rabbit

2010 – present, Andre Sanfiorenzo, PhD, Functional connectivity of understory trees in the San Juan/La Selva biological corridor, Costa Rica

2010 – present, Kate Cleary, PhD, Functional connectivity of bats in the San Juan/La Selva biological corridor, Costa Rica

2010 - present, MS Joel Tebbencamp (co-advised), Sage grouse genetic diversity and connectivity

2009 – present, Matt Mumma, PhD, Non-invasive genetic monitoring of carnivores in Newfoundland

2009 – present, Carisa Stansbury, MS, Gray wolf population monitoring

2007 – present, Paulina Viteri, PhD, Diversity and gene flow among Andean bears

2000 – present, Bill Leacock, PhD, Genetic structure of Kamchatka brown bears

2007 – 2011, Justin Bohling, PhD, Evaluating the red wolf/coyote hybrid zone

2007 – 2009, Jennifer Stenglein, MS, Fecal DNA monitoring of gray wolves

2005 – 2009, Niko Balkenhol, PhD, Landscape genetic theory and applications

2003 – 2009, Caren Goldberg, PhD, Amphibian ecology and landscape genetics

2002 – 2009, Marta DeBarba, PhD Non-invasive genetic sampling of Italian brown bears

2005 – 2007, Jessica Hoisington, MS, Landscape genetics/systematics ground squirrels

2004 – 2007, Kara Gebhardt, MS, Peruvian Macaw genetics

2004 – 2007, Paulina Viteri, MS, Population size and genetic diversity of Andean bears

2004 – 2006, Stacie Robinson, MS, Kenai black bear population structure

2002 – 2006, Jennifer Adams, PhD, Red wolf genetics

2000 – 2002, Christine Cegelski, MS, Genetic diversity and structure in wolverines

1999 – 2002, Jennifer Adams, MS, Non-invasive detection of hybridization in red wolves

1998 – 2003, Craig Miller, PhD, Evaluation of historical levels and patterns of genetic diversity of brown bears

1998 – 2002, David Roon, PhD, Non-invasive genetic tracking of brown bears and black bears (switched to Oz Garton Spring 2002, graduated spring 2003)

1998 – 2001, Melanie Murphy, MS, Fecal DNA analysis of brown bears.

PostDoctoral Researchers
David Onorato, Caren Goldberg, Steve Spear, Jen Adams

Undergraduate Research Projects:

Academic Year
1998 – Angie Grosland, Environmental Science
1998 – Jay Shepard, Wildlife
1998 – 1999, Sarah Jo Congelton, Zoology
1999 – 2000, Dan Sullivan, Wildlife
2000 – 2002, Chris McDaniel
2000 – 2002, Crystal Strobel
2000 – 2002, Robyn Januszewski
2002 – 2006, Adair Muth
2003 – 2006, Jon Keehner
2004 – 2007, Shiela Arias
2005 – Ricky Perez, Env Sci
2006 – 2006, Gavin Tyler
2006 – 2008 Sean Howard
2007 – Adam Schmoeger, Env Sci

2007 – Noel Sanyal, Env Sci
2007 – 2008 Joe Holbrook, Wildlife
2008 – 2009 Mike Callen, Env Sci
2008 – 2009, Michelle Meredith, Env Sci
2008 – 2010, Jack Torresdal
2009 – 2010, Danelle Russell
2010 – 2011, Shannon Torstrom

Summer NSF Research Experience for Undergraduates Program
2010, Dustin Houghton
2009, Wilfredo Linero
2006, Jay Loveland
2006, Connor Williams
2004, Ramona Flatz
2003, Miranda Thomas
2003, Dustene Cummings
2003, Becky Ternes
2002, Mark Couture
2002, Theresia Radtke
2001, Joe Chivaro
2000, Laura Fairham
2000, Jonathan Teeters
2000, Andrea Bristol
1999, Carol Perugini
1999, Dan Sullivan
1998, Amy Campbell

Graduate Committee Involvement
2011 – present, Dana Morin, PhD, Wildlife, **Virginia Tech**
2010 – present, Barbara Fanin, MS, Wildlife, **Univ of Montana**
2010 – present, Nathan Borg, MS, Wildlife, **Univ of Montana**
2010 – present, Sarah Emel, PhD, Zoology, **WSU**
2010 – present, Daryl Trumbo, PhD, Zoology, **WSU**
2010 – present, Denim Jochimsen, PhD, Biology
2008 – present, Brice Sarver, PhD, Biology
2007 – 2012, Justin Teisberg, PHD, Zoology, **WSU**
2007 – 2012, Doni Schwalm, PhD, Wildlife, **Texas Tech**
2007 – present, Claudia Wultsch, PhD, Wildlife, **Virginia Tech**
2005 – present, Dana Wiegel, PhD, Fisheries
2009 – 2011, Indrani Sasmal, PhD, **South Dakota State**
2005 – 2012, Tom Thompson, PhD, Wildlife
2002 – 2011, Pete Bloom, PhD, Fish and Wildlife
2004 – 2008, Hua Feng, PhD, Statistics
2005 – 2009, Steve Spear, PhD, Zoology, **Washington State University**
2004 – 2010, Stacey Dunn, PhD, Biology
2003 – 2010, Jan Schipper, PhD, Fish and Wildlife
2005 – 2008, Sarah Hird, MS, Biology
2006 – 2008 Tom Gieson, PhD, Environmental Science
2003 – 2007, Gabe Colbeck, MS, Zoology **(WSU)**
2003 – 2008, Wendy Estes-Zump, PhD, Fish and Wildlife
2006 – 2007, Judy Morgan, WSU, PhD Zoology
2005 – 2007, Shannon Knapp, PhD, Statistics, **Purdue University**

2004 – 2007, Shannon Donovan, PhD, Environmental Science
2004 – 2006, Thor Hansen, PhD, Forest Resources
2003 – 2004, Leslie Davis, MS, Zoology **(WSU)**
2002 – 2004, Barley Hyde, MS, Biology
2002 – 2003, Wayde Morse, PhD, Resource Recreation and Tourism
2001 – 2004 Alisse Garner, MS Wildlife
2001 – 2004, Jason Hicks, MS Wildlife
2001 – 2006, Fernando Azevedo, PhD Wildlife
2000 – 2002 Luigi Mairano, PhD Wildlife
2000 – 2004, Holly Gates, Resource Recreation and Tourism
2000 – 2003 Hua Feng, Statistics
2000 – 2001, Fran Bonier, MS Biology
2000 – 2002, Chad VanOrmer, MS Resource Recreation and Tourism
1999 – 2002, Kim Romain, MS Wildlife **(WSU)**
1998 – 2000, Marilyn Neilson, MS Fisheries
1998 – 2002, Matt Carling, MS Biology
1997 – 2002, Paul Anders, PhD Fisheries

Mentoring International Scientists

Jivan Shakya, Nepal (Fall 2011)
Sulochana Manandhar, Nepal (Fall 2011)
Kanchan Thapa, Nepal (Summer 2010)
Rodrigo Ciscernos, Ecuador (Fall 2007 – Fall 2010)
Tomaz Skrbinsek, Slovenia (Spring 2006)
Paulina Viteri, Ecuador (Fall 1999, Summer 2001, Spring – Fall 2003)
Igor Khorozyan, Armenia (Spring 2001)
Marta DeBarba, Italy (Summer 2001 – Spring 2002)

Non-credit Classes, Workshops, Seminars, etc.:

Conservation Genetics for Natural Resource Managers 2001 - 2010

Education Meeting Presentations

Waits, LP. 3/00. Student assessment of alternative learning tools. University Education in Natural Resources. Columbia, MO

Waits, LP, K. Launchbaugh, B. McLaughlin, J. Force, and A. Campbell. 3/00. Re-designing a capstone course in integrated natural resource problem solving: a team approach. University Education in Natural Resources. Columbia, MO. (all authors contributed equally to presentation)

SCHOLARSHIP ACCOMPLISHMENTS:

Refereed Publications

Published or in press

125. Dellinger, J. A., T. D. Steury, B. L. Ortman, J. Bohling, and L. P. Waits (*In Press)* Food habits of red wolves (*Canis rufus*) during pup-rearing season. Southeastern Naturalist

124. McVey, JM, DT Cobb, RA Powell, MK. Stoskopf, JH. Bohling, LP Waits, CE Moorman (in press) Evaluating food habits of co-occurring red wolves and coyotes using faecal DNA

identification. J. of Mammalogy

123. Skrbinšek, T, M Jelenčič, LP Waits, H Potočnik, I Kos, P Trontelj (in press) Using a reference population yardstick to calibrate and compare genetic diversity reported in different studies: an example from the brown bear. J of Heredity

122. Sparkman, A, J.R. Adams, T Steury, L Waits, D Murray (2012, online early) Pack social dynamics and inbreeding avoidance in the cooperatively breeding red wolf. Behavioral Ecology

121. Blair C, D. E. Weigel, M. Balazik, A. T.H. Keeley, F. M. Walker, N Balkenhol, E Landguth, S Cushman, M Murphy , LP Waits (2012, online early) A simulation-based evaluation of methods for inferring linear barriers to gene flow. Molecular Ecology Resources

120. Goldberg, CS**,** DC Tank, S Uribe-Convers, WR Bosworth, HE Marx, and LP Waits. 2012. Species designation of the Bruneau Dune tiger beetle (*Cicindela waynei*) is supported by phylogenetic analysis of mitochondrial DNA sequence data. Conservation Genetics 13:373-380.

119. Skrbinšek, T., M. Jelenčič, LP Waits, I Kos, K Jerina, P Trontelj (2012) Monitoring the effective population size of a brown bear (*Ursus arctos*) population using new single-sample approaches. Molecular Ecology 21:862-875.

118. Graves, TA, TN Wasserman, M Ribeiro, EL Landguth, SF Spear, N Balkenhol, CB Higgins, M-J Fortin, SA Cushman, LP Waits (2012) The influence of landscape characteristics and home-range size on the quantification of landscape-genetics relationships. Landscape Ecology 27: 253-266.

117. Sparkman AM, Waits LP, Murray DL (2012) Evidence for a genetic basis for delayed dispersal in a cooperatively breeding canid. Animal Behavior 83:1091–1098.

116. Hoisington-Lopez, JL, LP Waits, J Sullivan (2012) Species limits and integrated taxonomy of the Idaho ground squirrel (*Urocitellus brunneus*): Genetic and ecological differentiation. Journal of Mammalogy 93:589-604.

115. Wagner, H.H. M.A. Murphy, R. Holderegger, and L.P. Waits (2012) Developing a distributed interdisciplinary graduate course for 21st century scientists. Bioscience 62:182-188.

114. Dunn, S.J**.**, Waits, L.P. and Byers, J.A. (2012) Genetic versus census estimators of the opportunity for sexual selection in the wild. The American Naturalist 179: 451-462.

113. Dunn, S.J**.**, Clancey, E., Waits, L.P. and Byers, J.A. (2011) Inbreeding depression in pronghorn (*Antilocapra americana*) fawns. Molecular Ecology 20:4889-98.

112. Sparkman AM, Waits LP, Murray DL (2011) Social and Demographic Effects of Anthropogenic Mortality: A Test of the Compensatory Mortality Hypothesis in the Red Wolf. PLoS ONE 6: e20868.

111. Goldberg, CS, K Woodruff, R Toldness, LP Waits (2011) Robust molecular sex identification of beaver (*Castor canadensis*) from non-destructive samples. Conservation Genetics 3:729–731.

110. Ausband, DE, J Young, B Fannin, MS Mitchell, JL Stenglein, LP Waits, JA Shivik (2011) Hair of the dog: obtaining samples from coyotes and wolves noninvasively. Wildlife Society Bulletin 35:105-111.

109. Goldberg, CS, A. Pocewicz, M Nielsen-Pincus, LP Waits, P Morgan, JE Force, LA Vierling

(2011) Predictions of ecological and social impacts of alternative residential development policies to inform decision-making in a rural landscape. Conservation Letters 4:423-432.

108. Goldberg, CS, DS Pilliod, RS Arkle, LP Waits (2011) Molecular detection of cryptic vertebrate species in stream water. Plos One 6:e22746.

107. Adams, JR, CS Goldberg, WR Bosworth, JL Rachlow, LP Waits (2011) Rapid species identification of pygmy rabbits *(Brachylagus idahoensis)* from fecal pellet DNA. Molecular Ecology Resources 11:808-812.

106. Bohling JM, and LP Waits (2011) Assessing the prevalence of hybridization between sympatric *Canis* species in a region surrounding the red wolf (*Canis rufus*) recovery area in North Carolina. Molecular Ecology 20: 2142-2156.

105. Stenglein JL, Waits LP, Ausband DE, Zager P, Mack CM (2011) Using noninvasive genetic sampling at grey wolf (*Canis lupus*) rendezvous sites to determine pack size, family relationships, and relatedness. Journal of Mammalogy 92:784-795.

104. Russell DM, C. S. Goldberg, L. Sprague, L. P. Waits, D. E. Green, K. L. Schuler, E. B. Rosenblum (2011) Ranavirus outbreaks in amphibian populations of northern Idaho. Herpetological Review 42: 223-225.

103. Falcón-Linero W, C. S. Goldberg, L. P. Waits, W. A. Estes-Zumpf, J. L. Rachlow (2011) First record of multiple paternity in the pygmy rabbit (*Brachylagus idahoensis*): Evidence from analysis of 16 microsatellite loci. Western North American Naturalist 71:271-275.

102. Onorato, D.P., R. Desimone, C. White, P. Zager, L. P. Waits (2011) Genetic assessment of paternity and relatedness in a managed population of cougars: biological interpretation and management implications. Journal of Wildlife Management 75(2):378–384.

101. Sparkman, A. J. Adams, T. Steury, L. Waits, D. Murray (2011) Helper effects on pup lifetime fitness in the cooperatively breeding red wolf (Canis rufus). Proceedings of the Royal Society London, Series B 278:1381-1389.

100. Sparkman, A. J. Adams, T. Steury, L. Waits, D. Murray (2011) Direct fitness benefits of delayed dispersal in the cooperatively breeding red wolf (Canis rufus). Behavioral Ecology 22:199-205.

99. Waite, J. N, L. P Waits, M. Bozza, V. N. Burkanov, D. G. Calkins, R. D. Andrews (2011) Differentiating between Steller sea lion (Eumetopias jubatus) and northern fur seal (Callorhinus ursinus) scats through analysis of faecal DNA. Molecular Ecology Resources 11:166-170.

98. Russell, D. C. Goldberg, L.P. Waits, E.B. Rosenblum (2010) Batrachochytrium dendrobatidis infection dynamics in the Columbia Spotted Frog (Rana luteiventris) in north Idaho, USA. Diseases of Aquatic Organisms 92:223-230.

97. DeBarba M, LP Waits, EO Garton, P Genovesi, E Randi, R Chirichella, E Cetto (2010) The power of genetic monitoring for studying demography, ecology, and genetics of a reintroduced brown bear population. Molecular Ecology 19, 3938–3951.

96. Storfer A, Murphy M, Spear S, Holderegger R, Waits L (2010) Landscape Genetics: Where Are We Now? Molecular Ecology 19:3496-3514.

95. Sork, V and LP Waits (2010) Contributions of landscape genetics– approaches, insights, and future

potential. Molecular Ecology 19:3489-3495.

94. Goldberg C, Waits L (2010) Comparative landscape genetics of two pond-breeding amphibian species in a highly modified agricultural landscape. Molecular Ecology 19:3650 – 3633.

93. Dunn, SJ, KK Barnowe-Meyer, KJ Gebhardt, N Balkenhol, LP Waits, JA Byers (2010) Ten polymorphic microsatellite markers for pronghorn (*Antilocapra americana*). Conservation Genetics Resources 2:81-84.

92. Segelbacher G, Cushman SA, Epperson BK, Fortin M-J, Francois 0, Hardy OJ, Holderegger R, Taberlet P, Waits LP, Manel S (2010) Applications of Landscape Genetics in Conservation Biology: Concepts and Challenges. Conservation Genetics 11:375-385.

91. Stenglein JL, De Barba M, Ausband DE" Waits LP (2010) Impacts of sampling location within a faeces on DNA quality in two carnivore species. Molecular Ecology Resources 10:109-114.

90. Estes-Zumpf W, JL Rachlow, LP Waits, KI Warheit (2010) Dispersal, gene flow, and population genetic structure in the pygmy rabbit (Brachylagus idahoensis). Journal of Mammalogy 91:208-219.

89. Goldberg CS, LP Waits (2010) Quantification and reduction of bias from sampling larvae to infer population and landscape genetic structure. Molecular Ecology Resources 10:304-313.

88. Nielsen-Pincus M, CS Goldberg, A Pocewicz. JE Force, LP Waits, P Morgan, L Vierling (2010) Predicted Effects of Residential Development on a Northern Idaho Landscape under Alternative Growth Management and Land Protection Policies. Landscape and Urban Planning 94:255-263

87. Skribinsek T, M Jelencic, LP Waits, I Kos, P Trontelj (2010) Highly efficient multiplex PCR of noninvasive DNA does not require pre-amplification. Molecular Ecology Resources 10:495-501.

86. Stenglein JL, Waits LP, Ausband DE, Zager P, Mack C (2010) Efficient, Noninvasive Genetic Sampling for Monitoring Reintroduced Wolves. Journal of Wildlife Management 74:1050-1058.

85. De Barba, M, LP Waits (2010) Multiplex pre-amplification for noninvasive genetic sampling: is the extra effort worth it? Molecular Ecology Resources 10:659-665.

84. De Barba, M, LP Waits, P Genovesi, E Randi, R Chirichella, E Cetto (2010) Comparing opportunistic and systematic collection methods for noninvasive genetic monitoring of a small translocated brown bear population. Journal of Applied Ecology 47:172-181.

83. Viteri MP, LP Waits (2009) Identifying polymorphic microsatellite loci for future use in Andean bear research. Ursus 20:102-108

82. Goldberg, CS, TJ Hawley, LP Waits (2009) Local and regional patterns of amphibian chytrid prevalence on the Osa Peninsula, Costa Rica. Herpetological Review 40:309-311

81. Balkenhol N, LP Waits (2009) Molecular road ecology: exploring the potential of genetics for investigating transportation impacts on wildlife. Molecular Ecology 18: 4151–4164.

80. Balkenhol N, LP Waits, R. Dezzani (2009) Statistical approaches in landscape genetics: An evaluation of methods for linking landscape and genetic data. Ecography 32:818-830.

79. Balkenhol N, Gugerli F, Cushman SA, Waits LP, Wagner HH, R Holderegger, A. Coulon (2009)

Identifying Future Research Needs in Landscape Genetics: Where to From Here? Landscape Ecology 24:455-463.

78. Robinson, SJ, LP Waits, I Martin (2009) Estimating black bear abundance using DNA-based capture-mark-recapture models. Ursus 20:1-11.

77. Schwartz, MK, JP Copeland, NJ Anderson, JR Squires, RM Inman, KS McKelvey, KL Pilgrim, LP Waits, SA Cushman (2009) Wolverine gene flow across a narrow climatic niche. Ecology 90:3222-3232.

76. Knapp, SM, BA Craig, LP Waits (2009) Incorporating genotyping error into non-invasive DNA-based mark-recapture population estimates. Journal of Wildlife Management. 73:598-606.

75. Goldberg, CS, LP Waits (2009) Using habitat models to determine conservation priorities for pond-breeding amphibians in a privately-owned landscape of northern Idaho. Biological Conservation 142:1096-1104.

74. McCarthy, T, LP Waits, B Mijiddori (2009) Status of the Gobi bear in Mongolia as determined by non-invasive genetic methods. Ursus 20:30 – 38.

73. Gebhardt, KJ, D Brightsmith, G Powell, LP. Waits (2009) Maximizing DNA yield from molted feathers: A case study of parrots in the Peruvian Amazon rainforest. Journal of Field Ornithology 80:183-192

72. McCarthy, KP, TK Fuller, M Ming, TM McCarthy, LP Waits, K. Jumabaev (2008) Assessing Estimators of snow leopard abundance. Journal of Wildlife Management 72:1826-1833.

70. Kendall, KC, JB Stetz, DA Roon, LP Waits, JB Boulanger, D. Paetkau (2008) Grizzly bear density in Glacier National Park. Journal of Wildlife Management. 72(8):1693-1705.

69. Vali, U, A Einarsson, LP Waits, H Elgren (2008) To what extent do microsatellite markers reflect genome-wide genetic diversity in natural populations? Molecular Ecology 17:3808-3813

68. Gebhardt, KJ, LP Waits (2008) High error rates for avian molecular sex identification primer sets applied to molted feathers. Journal of Field Ornithology 79:286-292.

67. Gebhardt, KJ, LP Waits (2008) Cross-species amplification and optimization of microsatellite markers for use in six Neotropical parrots. Molecular Ecology Resources 8:835 – 839.

66. Galbreath, GJ, M Hunt, T Clements, LP Waits (2008) An apparent hybrid bear from Cambodia. Ursus 19:85-86.

65. Boulanger, JB, KC Kendall, JB Stetz, DA Roon, LP Waits, D Paetkau (2008) Use of multiple data sources to improve DNA-based mark-recapture population estimates of grizzly bears. Ecological Applications 18:557-589.

64. Hansen, T, S Brunsfeld, B Finegan, LP Waits (2008) Pollen Dispersal and Genetic Structure of the tropical tree *Dipteryx panamensis* in a fragmented Costa Rican landscape. Molecular Ecology 17:2060-2073.

63. Hansen, T, S Brunsfeld, B Finegan, LP Waits (2008) Characterization of microsatellite markers for

the almendro (*Dipteryx panamensis*), a tetraploid rainforest tree. Molecular Ecology Resources 8:425-427.

62. Pocewicz, A, M Nielsen-Pincus, CS Goldberg, MH Johnson, P Morgan, JE Force, LP Waits, L Vierling (2008) Predicting landscape change: comparison of landowner decision and historically-based models. Landscape Ecology 23:195-210.

61. Estes-Zumpt, W, J Rachlow, LP Waits (2008) Ten polymorphic microsatellite markers for the pygmy rabbit (*Brachylagus idahoensis*). Molecular Ecology Resources 8:360-362.

60. Hansen, T, S Brunsfeld, B Finegan, LP Waits (2007) Conventional and genetic measures of seed dispersal for *Dipteryx panamensis* (Fabaceae) in continuous and fragmented Costa Rican rain forest. Journal of Tropical Biology 23:635-642.

59. Miller, CR, P Joyce, LP Waits (2007) Ordered vs. unordered samples: response to Bromghin. Molecular Ecology 16:4885.

58. Robinson, SJ, LP Waits, I Martin (2007) Evaluating population structure of black bears on the Kenai Peninsula using mitochondrial and nuclear DNA analyses. Journal of Mammalogy 88:1288-1299.

57. Murray, DL and LP Waits (2007) Taxonomic status and conservation strategy of the endangered red wolf: A response to Kyle et al. (2006). Conservation Genetics 8:1483-1485.

56. Galbreath, G, CP Groves, LP Waits (2007) Genetic resolution of the composition and phylogenetics placement of the Isabelline bear. Ursus 18:129-131.

55. Murphy, MA, K Kendall, A Robinson, C Perugini, and LP Waits (2007) The impact of time and field conditions on brown bear fecal DNA amplification. Conservation Genetics. 8:1219-1224.

54. Manel, S, F Berthoud, E Bellemain, M Gaudeul, G Luikart, J Swenson, LP Waits, P Taberlet (2007) A new individual-based spatial approach for identifying genetic discontinuities in natural populations. Molecular Ecology 16:2031-2043.

53. Hicks, J, J Rachlow, C Willams, OH Rhodes, LP Waits (2007) Reintroduction and genetic structure: Rocky Mountain elk in Yellowstone and the Western States. Journal of Mammalogy 88:129-138.

52. Waits, LP, VA Buckley-Beason, WE Johnson, D Onorato, T McCarthy (2007) A select panel of polymorphic microsatellite loci for individual identification of snow leopards (*Panthencia*). Molecular Ecology Notes 7:311—314.

51. Adams, JR, C Lucash, L Schutte, LP Waits (2007) Locating hybrid individuals in the red wolf (*Canis rufus*) experimental population area using a spatially targeted sampling strategy and faecal DNA genotyping. Molecular Ecology 16:1823-1834.

50. Storfer, A, M Murphy, JS Evans, CS Goldberg, S Robinson, SF Spear, R Dezzani, E Delmelle, L Vierling, LP Waits (2007) Putting the “landscape” in landscape genetics. Heredity 98:128-142.

49. Adams, JR and LP Waits (2007) An efficient method for screening faecal DNA genotypes and detecting new individuals and hybrids in the red wolf (*Canis rufus*) experimental population area. Conservation Genetics 8:123-131.

48. Byers, J and LP Waits (2006) Good genes and sexual selection in nature. Proceedings of the National Academy of Sciences, USA 103:16343-16345.

47. Kitchen, AM, EM Gese, LP Waits, SM Karki, ER Schauster (2006) Multiple breeding strategies in the swift fox, *Vulpes velox*. Animal Behavior 71:1029-1038.

46. Onorato, D, C White, P Zager, LP Waits (2006) Detection of predators via mtDNA analysis using hair and scat collected at elk calf mortality sites. Wildlife Society Bulletin 34:815-820.

45. Miller, C. R., L. P. Waits, P. Joyce (2006) Recent evolutionary history of the brown bear (Ursus arctos) in Southern Canada, the Contiguous United States, and Mexico. Molecular Ecology 15:4477 – 4485.

44. Bellemain, E, A Zedrosser, S Manel, P Taberlet, LP Waits, and JE Swenson (2006). The dilemma of female mate selection in the brown bear, a species with sexually selected infanticide. Proceedings of the Royal Society London Series B 273:283-291.

43. Cegelski, CC, LP Waits, NJ Anderson, CJ Kyle and C Strobeck (2006) Genetic diversity and population structure of wolverine (*Gulo gulo*) populations at the southern edge of their current distribution in North America with implications for genetic viability. Conservation Genetics 7:197-211.

42. Waits, LP and D Paetkau (2005, invited review) New non-invasive genetic sampling tools for wildlife biologists: a review of applications and recommendations for accurate data collection. Journal of Wildlife Management 69:1419-1433.

41. Garner, A, JL Rachlow, LP Waits (2005) Genetic diversity and population divergence in fragmented habitats: conservation of Idaho ground squirrels. Conservation Genetics 6:759 – 774.

40. Stoskopf, MK, K Beck, BB Fazio, TK Fuller, EM Gese, BT Kelly, FF Knowlton, DL Murray, W Waddell, LP Waits (2005) Implementing recovery of the red wolf: integrating research scientists and managers. Wildlife Society Bulletin 33:1145-1152.

39. Cronin, MA, S Shideler, LP Waits, RJ Nelson (2005) Genetic variation and relatedness in grizzly bears in the Prudhoe Bay region and adjacent areas in northern Alaska. Ursus 16:70-84.

38. Haroldson, M, K Gunther, D Reinhart, S Podruzny, C Cegelski, L Waits, T Wyman, J Smith (2005) Changing number of spawning cutthroat trout in tributary streams of Yellowstone lake and estimates of grizzly bears visiting streams from DNA. Ursus 16:167-180.

37. Hedrick, PW and LP Waits (2005) What ancient DNA tells us. Heredity 94:463-464.

36. Kitchen, AM, EM Gese, LP Waits, SM Karki, ER Schauster (2005) Genetic and spatial structure within a swift fox population. Journal of Animal Ecology 73:1173-1182.

35. Miller, CR, P Joyce, LP Waits (2005) Estimating the size of small populations using genetic mark-recapture. Molecular Ecology 14:1991-2005.

34. Roon, DA, LP Waits, KC Kendall (2005) A simulation test of the effectiveness of several methods for error-checking non-invasive datasets. Animal Conservation 8:203-215.

33. Roon, DA. ME Thomas, KC Kendall, LP Waits (2005) Evaluating mixed samples as a source of error in non-invasive genetic studies. Molecular Ecology 14:195 – 199.

32. Felicetti, LA, CC Schwartz, RO Rye, KA Gunther, MA Haroldson, LP Waits, CT Robbins (2004) Use of naturally-occurring mercury to determine the importance of cutthroat trout to Yellowstone grizzly bears. Canadian Journal of Zoology 82:493-501.

31. Romain, K, R Wielgus, M Austin, L Waits, W Kasworm, W Wakkinen (2004) Density and population size estimates for North Cascade grizzly bears using DNA hair-sampling techniques. Biological Conservation 117:417-428.

30. Miller, CR, J Adams, LP Waits (2003) Pedigree based assignment tests for reversing coyote (*Canis latrans*) introgression into the wild red wolf (*Canis rufus*) population. Molecular Ecology 12: 3287-3301.

29. Cegelski, C, LP Waits, NJ Anderson (2003) Assessing population structure and gene flow in Montana wolverines (*Gulo gulo*) using assignment-based approaches. Molecular Ecology 12:2907-2918.

28. Murphy, MA, LP Waits, KC Kendall (2003) Impact of diet on faecal DNA amplification and sex identification brown bears (*Ursus arctos*). Molecular Ecology 12:2261-2265.

27. Adams, JR, LP Waits, B Kelly (2003) Using faecal DNA sampling and GIS to monitor hybridization between red wolves *(Canis rufus)* and coyotes *(Canis latrans).* Molecular Ecology 12:2175-2186.

26. Miller, CR and LP Waits (2003) The History of Effective Population Size and Genetic Diversity in the Yellowstone Grizzly (*Ursus arctos*): Implications for Conservation. Proceedings of the National Academy of Science USA 100:4334-4339.

25. Adams, J, J Leonard, LP Waits (2003) Genetic evidence for introgression of domestic dog mitochondrial DNA into the wild coyote population. Molecular Ecology 12:541-546.

24. Roon D, LP Waits, KC Kendall (2003) A quantitative evaluation of two methods for preserving hair samples. Molecular Ecology Notes 3:163-166.

23. Gunther, KM, MJ Biel, N Anderson, LP Waits (2002) Probable grizzly bear predation on American black bear in Yellowstone National Park. Ursus 13:372-374.

22. Murphy, M, LP Waits, KC Kendall, S Wasser, J Higbee, R Bogden (2002) An evaluation of long-term preservation methods for brown bear (*Ursus arctos*) faecal DNA samples. Conservation Genetics 3:435-440.

21. Hofreiter, M, C Capelli, M Krings, LP Waits et al (2002) Ancient DNA analyses reveal high mitochondrial DNA sequence diversity and parallel morphological evolution of late Pleistocene cave bears. Molecular Biology and Evolution 19:1244-1250.

20. Miller, C, P Joyce, LP Waits (2002) A maximum likelihood based model for detecting microsatellite genotyping errors. Genetics 160:357-366.

19. Miller, J, C Miller, M Scott, LP Waits (2002) Endangered Species Act: Salvation or starvation, Bioscience 52:163-168.

18. Goossens, B, L Chikhi, P Taberlet, LP Waits, D Allainé (2001) Microsatellite analysis of genetic variation among and within Alpine marmot populations in the French Alps. Molecular Ecology 10:41-52.

17. Waits, LP, G Luikart, P Taberlet (2001) Estimating the probability of identity among genotypes: Cautions and guidelines. Molecular Ecology 10:249-256.

16. Murphy, M, LP Waits, KC Kendall (2000) Quantitative evaluation of drying methods for brown bear fecal samples. Wildlife Society Bulletin 28:951-957.

15. Waits, LP, P Taberlet, J Swenson, A Sandegren, R Franzen (2000) Genetic diversity and gene flow in the Scandinavian brown bear. Molecular Ecology 9:421-431.

14. Waits, LP (1999) Molecular genetic applications for bear research. Ursus 11:253-260.

13. Waits, LP, J Sullivan, SJ O'Brien, RH Ward (1999) Rapid radiation events in the family Ursidae indicated by likelihood phylogenetic estimation from multiple gene fragments. Molecular Phylogenetics and Evolution 13:82-92.

12. Taberlet, P, LP Waits, G Luikart (1999) Non-invasive genetic sampling: look before you leap. Trends in Ecology and Evolution 14:323-327.

11. Goossens, B, LP Waits, P Taberlet (1998) Hair samples as a source of DNA: reliability of dinucleotide microsatellite genotyping. Molecular Ecology 7:1231-1241.

10. Goossens, B, L Graziani, LP Waits, E Farand, S Magnolon, J Coulon, M-C Bel, D Allainé, (1998) Extra-pair paternity in the monogamous alpine marmot revealed by nuclear DNA microsatellite analysis. Behavioural Ecology and Sociolbiology 43:281-288.

9. Paetkau, D, LP Waits, P Clarkson, L Craighead, E Vyse, R Ward, C Strobeck (1998) Dramatic variation in genetic diversity across the range of North American brown bears. Conservation Biology 12:418-429.

8. Waits, L, S Talbot, RH Ward, G Shields (1998) Phylogeography of the North American brown bear and implications for conservation. Conservation Biology 12:408-417.

7. Waits, L, D Paetkau, C Strobeck, RH Ward (1998). A comparison of mitochondrial DNA and microsatellite DNA variability in brown bear populations from Alaska, Canada, and the lower 48 states. Ursus 10:307-314.

6. Taberlet, P, LP Waits (1998) Non-invasive genetic sampling (letter). Trends in Ecology and Evolution 13:26-27.

5. Paetkau, D, LP Waits, P Clarkson, L Craighead, C Strobeck (1997) An empirical evaluation of genetic distance statistics for use with microsatellite loci. Genetics 147:1943-1957.

4. Taberlet, P, JJ Camarra, S Griffin, E Uhres, O Hanotte, LP Waits, C Dubois-Paganon, T Burke, J Bouvet (1997) Non-invasive genetic tracking of the endangered Pyrenean brown bear population. Molecular Ecology 6:869-876

3. Taberlet, P, S Griffin, B Goossens, S Questiau, V Manceau, N Escaravage, LP Waits, J Bouvet

(1996) Reliable genotyping of samples with very low DNA quantities using PCR. Nucleic Acids Research 24:3189-3194.

2. Dunkle, S, T Reust, D Nowack, L Waits, M Paulik, DM Morre, DJ Morre (1991) Temperature- and acceptor-specificity of cell-free vesicular transfer from transitional endoplasmic reticulum to the cis Golgi apparatus. Biochemistry Journal 288: 969-976.

1. Waits, L, S Dunkle, FE Wilkinson, P Moreau, K Safranski, T Reust, DM Morre, DJ Morre (1990). Cell-free transfer of sterols from dictyosome-like structures to plasma membrane vesicles of guinea pig testes. Protoplasma 154:815-824.

Refereed (submitted)

Knowlton,F.F. E. M. Gese, J. R. Adams, K. Beck, T. K. Fuller, D. L. Murray, T. Steury, M. K. Stoskopf, W. Waddell, L. P. Waits (submitted) Managing Hybridization in Endangered Species Recovery: The Case of the Red Wolf. Animal Conservation.

Blair C, D. E. Weigel, M. Balazik, A. T.H. Keeley, F. M. Walker, N Balkenhol, E Landguth, S Cushman, M Murphy , LP Waits (submitted) Detecting recent barriers in landscape genetics: a comparison of individual-based methods. Molecular Ecology Resources

De Barba M, Garton EO, Rachlow J, Genovesi P, Randi E, Waits LP (submitted) Demographic and genetic population viability analysis of a small translocated brown bear population and implications for conservation and management. Animal Conservation

Sparkman, A, D Murray, T Steury, L Waits (submitted) Pack social dynamics and inbreeding avoidance in the cooperatively breeding red wolf. Behavioral Ecology

Estes-Zumpf, WA, SE Zumpf, JL Rachlow, J Adams, LP Waits (submitted) First Record of the Pygmy Rabbit (*Brachylagus idahoensis*) in Colorado. Southwestern Naturalist

Balkenhol, N, JD Holbrook, D Onorato, P Zager, C White, J Rachael, R DeSimone, LP Waits (submitted) Landscape connectivity and gene flow in a highly mobile generalist species: A multi-method approach for analyzing complex, hierarchical genetic structures in cougars (*Puma concolor*) Landscape Ecology

Skrbinšek, T, M Jelenčič, LP Waits, H Potočnik, I Kos, P Trontelj (submitted) Using genetic diversity of brown bears (*Ursus arctos*) in the NW Dinaric Mountains to understand the global distribution of genetic diversity in this species and genetic diversity loss in reintroductions to Western Europe. J of Heredity

Robinson, SJ, LP Waits, RJ Dezzani (submitted) Evaluating genetic structure of black bears on the Kenai Peninsula, Alaska, using global and local spatial statistics. Landscape Ecology

Bohling, J and LP Waits (submitted) Evaluating the ability of Bayesian clustering methods to detect hybridization and introgression using an empirical red wolf dataset. Molecular Ecology

Baumgardt, JA, CS Goldberg, KP Reese, JW Connelly, DD Musil, EO Garton, and LP Waits (submitted) Estimating population sex ratio using non-invasive genetic samples: sage-grouse as a case study. Molecular Ecology Resources

Seamster, VA, L.P. Waits, S.A. Macko, and H.H. Shugart (submitted) Is the shift in the base of the coyote food chain in response to woody plant encroachment scale-dependent? Can J of Zool

Peer-Reviewed Other Publications:

Waits, LP (2010) Box 4: Sex identification and population size of grizzly bears by using noninvasive genetic sampling in DeWoody et al, eds. Molecular approaches in natural resource conservation. Cambridge University Press, New York.

Johnson,WE, E Eizirik, LP Waits, SJ OBrien (2007). Molecular ecology and carnivore conservation: the application of molecular techniques for inferring identity, kinship, and social structure in the Neotropics. In: Neotropical Carnivore Conservation.

Waits, LP (2007) Microsatellite DNA genotyping identifies killer bear and cubs Example box in Eds. F Allendorf and G Luikart, Conservation and Genetics of Populations. Blackwell, Mass.

Miller, C and LP Waits, (2007) Estimating effective population size in Yellowstone Grizzly bears in Example Box in ed. F Allendorf and G Luikart Conservation and Genetics of Populations. Blackwell, Mass.

Allendorf, F, Miller, C and Waits, L (2005) Genetically effective sizes of grizzly bear populations in Meffe and Carroll. Principles of Conservation Biology, Sinauer, Mass.

Waits, LP (2004) Using non-invasive genetic sampling to detect and count rare wildlife species in B. Thompson (Ed) Sampling Rare or Elusive Species, Island Press.

Waits, LP (2004) Taxonomic Placement of the Giant Panda Based on Molecular Data in DH Lindberg (ed) Giant Panda Conservation, University of California Press.

Haufler, J, R Baydack, H Campa, B Kernohan, LJ O'Neil, LP Waits, C Miller (2002) Performance measures for Ecosystem Management. Wildlife Society Technical Report.

Waits, L, D Paetkau, C Strobeck (1999) The genetics of the bears of the world. In: Bears: Status Survey and Conservation Action Plan (C. Servheen, ed) IUCN. Gland, Switzerland.

Other Publications

Wultsch, C, M. Kelly, L.P. Waits 2011. Noninvasive Monitoring of Elusive Jaguars (*Panthera onca*) and other Forest Felids in Belize, Central America: a powerful survey approach for the tropics. Wild Field Monitor

Mumma, M and LP Waits. 2011. Using Genetic Techniques to Inform Wildlife Management Decisions in Newfoundland, Canada. Safari Club International Newsletter

Waits, LP, D Roon, M Murphy. (1999) Non-invasive genetic sampling of bear populations. International Bear Association Newsletter 8:23-25

Waits, LP, E Meijarrd, (1997) A report on the bear ecology session of the 11th International Conference of Bear Research and Management. International Bear Association Newsletter

Wooding, S, LP Waits. (1994) Mitochondrial DNA sequence analysis as a tool in bear biology. International Bear Association Newsletter *3*:2-3.

Invited Research Talks

2011 Molecular genetic tools and techniques for improving management of wildlife and game species. International Union of Game Biologists, Barcelona (keynote talk)

2011 An Overview of the Contributions of Non-invasive Genetic Sampling and Landscape Genetics to the Conservation of Wildlife Populations. 8th International Conference on Behaviour, Physiology and Genetics of Wildlife, Berlin

2011 Recovering the endangered red wolf (Canis rufus): addressing the challenge of hybridization. WSU Student Chapter of the Wildlife Society

2011 Contributions of genetics to wildlife conservation and management. Zoo, Exotics and Wildlife Symposium. Pullman, Washington.

2011 Contributions of bioinformatics and computational biology to conservation genetics. IBEST seminar Series, University of Idaho.

2010 Landscape Genetics Contributions to Wildlife Management, Texas Tech University

2010 Historical DNA analyses of brown bears in North America, Stockholm Univ, Sweden
2010 An introduction to Landscape Genetics – Conservation Genetics Workshop, Florida
2010 Genetic Contributions to Red Wolf Recovery - Conservation Genetics Workshop, Florida
2010 Genetic Consideration for lynx recovery in Europe – Lynx Conference, Slovenia
2009 Landscape Genetics of Wildlife, Northern Arizona University
2009 Noninvasive genetic sampling for carnivore surveys. Carnivores 2009, Denver, Colorado
2008 Realizing the potential of non-invasive genetic sampling of wildlife populations. Biometry Symposium. Wildlife Society Meetings. Miami, FL.
2008 New directions in landscape genetics: examples from simulations and North American Amphibians. EU funded workshop on Landscape Genetics, Grenoble, France.
2008 Wolverine conservation genetics, Friends of the Clearwater Public Meeting, Moscow, Idaho
2008 Getting the scoop from scat, Univ Idaho, Alumni Association, Moscow, Idaho
2007 Molecular genetic contributions to the recovery of the red wolf, Univ. of California, Davis
2007 Genetic structure of Kenai Black bears, Alaska Chapter of Wildlife Society, Juneau
2007 Landscape genetics revolution, Idaho State University
2006 Conservation Genetics of the Red Wolf, Uppsala University, Sweden
2006 Non-invasive genetic sampling past, present and future, Wildlife Society Meetings, Alaska
2005 Non-invasive Genetic sampling in Europe, International Bear Association
2005 Achieving science driven recovery planning for endangered species, Utah State University
2005 The Landscape genetic revolution, Purdue University
2005 The Value of Conservation Genetics, Los Amigos Research Station, Peru
2004 Conservation Genetics for Wildlife, Universite de San Francisco de Quito Ecuador
2004 The Landscape genetic revolution, Kansas State University Women in Science Seminar
2004 Developing an interdisciplinary graduate program, UI interdisciplinary colloquium
2003 Addressing the Challenge of Hybridization in the Red Wolf, Conservation Genetics Conference sponsored by American Genetics Association, Fort Royal, Virginia.
2002 Promise and pitfalls of non-invasive DNA sampling for studying the abundance of rare and/or elusive wildlife species, Wildlife Society Conference, Bismark
2002 Controlling Introgression the Red Wolf, Oxford University, England
2002 Established protocols for dealing with reliability in highly contentious data sets, Northwest Chapter Wildlife Society Meetings, Spokane.
2001 Molecular Genetic Tools for the Conservation and Management of Natural Populations, Animal Genomics Symposium, NC State University
2001 Interagency Grizzly Bear Study Team Meeting, Post Falls
2001 Interagency Grizzly Bear Study Team meeting, Jackson Hole, Wy
2000 Panda 2000 Conference, San Diego, Taxonomic placement of the giant panda based on molecular data
2000 University of British Columbia Zoology Dept – Conservation genetics and molecular ecology of brown bears
1999 Univ. of Idaho, Biology Dept – Conservation Genetics of the Scandinavian Brown Bear,
1998 Univ. of Montana, Genetic diversity and Gene Flow in the Scandinavian Brown bear
1998 Idaho Chapter Wildlife Society, Brown bear conservation genetics
1998 Conservation Genetics of Scandinavian Brown Bear, Working group for conservation of Spanish brown bears, Spain,
1997 Recent advances in the conservation genetics and molecular ecology of the brown bear (*Ursus arctos*) Department of Zoology, Washington State
1996 Department of Mathematics, University of Southern California, Conservation genetics of bears - data analyses and mutational models
1995 Department of Wildlife Biology, Utah State, Phylogeny and genetic variation of the brown bear and implications for management
1994 University of California, Berkeley - Museum of Natural History, Phylogenetics and genetic variation within the Ursidae estimated using mtDNA sequence analysis

Workshops/Symposia Organized

2011, Conservation Genetics Workshop, Kathmandu, Nepal – 15 attendees
2010, Landscape Genetics Workshop, Society for Conservation Biology, Edmonton, Canada
2008, Landscape Genetics Workshop, Wildlife Society Meetings, Miami, Florida
2008, Introduction to landscape genetics for landscape ecologists Workshop, US Association of Landscape Ecologists, Madison, WI.
2007, Conservation Genetics Workshop, Wildlife Society Meetings, Tuscon, AZ
2007, Introduction to landscape genetics for Landscape ecologists Workshop, International association of Landscape Ecologists, Netherlands
2007, Landscape genetics for wildlife management and conservation Symposium, Wildlife Society Meetings, Alaska
2005, Balancing biodiversity conservation and sustainable development, Symposium, Society for Conservation Biology, Brasilia, Brazil
2005, Non-invasive genetic sampling, Workshop, International Bear Association, Italy.
2000, Non-invasive genetic sampling of carnivores, Symposium, Carnivore 2000 Conference, Denver
1998, Conservation Genetics, Symposium International Bear Association, Gatlinburg, Tenn.

Professional Meeting Presentations (1st author presented)

Waits, LP, CS Goldberg, DS Pilliod, RS Arkle (2011) Molecular detection of aquatic species in water samples using environmental DNA. The Wildlife Society 18th Annual Conference, Waikaloa, HI, US.

Adams, JR, MA Mumma, CJ Zieminski, TK Fuller, CE Soulliere, LP Waits (2011) Molecular identification of multiple prey species remains in predator scats. The Wildlife Society 18th Annual Conference, Waikaloa, HI.

Wultsch, C., MJ Kelly, and LP Waits (2011) Noninvasive Tracking of Jaguars and Cooccurring Felids by Combining Molecular Scatology, Remote Camera Trapping and GIS in Belize, Central America. The Wildlife Society 18th Annual Conference, Waikaloa, HI.

Stansbury, CR, Ausband, DE, Mack CM, Zager P, Mitchell M, LP Waits (2011) A non-invasive genetic sampling approach for monitoring gray wolves in Idaho. The Wildlife Society 18th Annual Conference, Waikaloa, HI.

Lewis, K, M Mumma, LP Waits, C Zieminski, C Soulliere (2011) Preliminary estimates of black bear density in caribou calving areas, Newfoundland, Canada, International Bear Association, Canada.

Mumma, M, LP Waits, C Soulliere (2011) CSI Newfoundland: Molecular determination of caribou calf predators - Arctic Ungulate Conference, Yellowknife, Canada.

Seamster, VA, LP Waits, SA Macko, HH Shugart (2011) Shifts in the base of the coyote food chain in response to long- and short-term vegetation change. New Mexico Chapter of the Wildlife Society, Albuquerque.

Cisneros, R, J. Armijos, C. Narváez, A. Ontaneda, L. Waits (2011) Ecology, diversity, and conservation of the spectacled bear (Tremarctos ornatus) in the Podocarpus-El Condor Biosphere Reserve. Ecuadorian Mammal Conference, Quito, Ecuador.

Wultsch, C, MJ Kelly, and LP Waits (2011) Noninvasive Tracking of Jaguars (Panthera onca) and Co-occurring Feline Species in Belize by Genotyping Feces and Remote Camera Trapping. Mountain Lion Workshop 2011, Bozeman, MT, US.

Wultsch, C, MJ Kelly, and LP Waits (2011) Noninvasive Tracking of Jaguars (Panthera onca) and Co-occurring Feline Species in Belize, Central America. Student Conference on Conservation Science, New York City, NY, US.

Cleary, K. and LP Waits. (2011) Does the matrix matter?: Structural and functional connectivity for phyllostomid bats in the San Juan-La Selva biological corridor, Costa Rica. Montana Chapter, Society for Conservation Biology 4th Annual Research Symposium. Missoula, MT.

Schwalm, D., Ballard, W.B., and L.P. Waits (2011) An assessment of genetic structure and diversity among swift fox populations in the United States. Texas Tech University Association of Biologists, Lubbock, TX. Awarded best presentation, Ecology section.

Schwalm, D., Ballard, W.B., Waits, L.P., McIntyre, N.M., Gipson, P., Young, J., and M.A. Cronin (2011) Genetic implications for management of swift fox in Texas. American Society of Mammalogist, Portland, OR

Goldberg, C. S., E. B. Rosenblum, D. Davis, W. R. Bosworth, L. P. Waits (2011) Patterns of prevalence of a newly-emerged multi-host pathogen across an amphibian community: amphibian chytrid fungus (Bd) in north Idaho (poster). Ecology and Evolution of Infectious Diseases, 9th Annual Conference, Santa Barbara, CA.

Goldberg, C. S., E. B. Rosenblum, D. Davis, W. R. Bosworth, L. P. Waits (2011) Predicted effects of climate change on the distribution of invasive threats to amphibians in north-central Idaho. 26th Annual Symposium of the United States Regional Chapter of the International Association of Landscape Ecology, Portland, OR.

Goldberg, C. S., D. Davis, E. B. Rosenblum, W. R. Bosworth, L. P. Waits (2011) Predicted expansion of the American bullfrog and amphibian pathogenic chytrid fungus in the inland Northwest under climate change scenarios. Society for Northwestern Vertebrate Biology and Washington Chapter of The Wildlife Society 2011 Joint Annual Meeting, Gig Harbor, WA.

Goldberg, C. S., D. S. Pilliod, R. S. Arkle, L. P. Waits (2011) Molecular detection of aquatic species in water samples using environmental DNA. 6th National New Zealand Mudsnail Conference, Moscow, ID.

Spear, SF, MD Anderson, DA Keinath, JM Parker, CR Peterson, LP Waits (2011) Using distribution models to predict seasonal habitat use in the midget faded rattlesnake (*Crotalus oreganus concolor*). Annual Meeting of the Society for Northwestern Vertebrate Biology, Gig Harbor, WA.

Spear, SF, MD Anderson, DA Keinath, JM Parker, CR Peterson, LP Waits (2011). Using distribution models to predict fine-scale resource use in a northern temperate rattlesnake. Annual Meeting of the US Regional Association of the International Association for Landscape Ecology, Portland, OR.

Spear, SF, JM Parker, CR Peterson, MD Anderson, DA Keinath, LP Waits (2011) Integrating Genetics and Habitat Modeling to Inform Conservation of Midget Faded Rattlesnakes (*Crotalus oreganus concolor*). Biology of the Rattlesnakes, Tucson, AZ.

Stansbury, CR, Ausband, DE, Mack CM, Zager P, Mitchell M, LP Waits (2011) A non-invasive genetic sampling approach for monitoring gray wolves in Idaho. Idaho Chapter of the Wildlife Society, Idaho Falls, ID.

Borg, N., LP Waits, P Zager, M Mitchell (2011) Evaluating the Genetic Distinctiveness of the Salmon River Drainage Bighorn Sheep and their Connectivity to Neighboring Populations. Idaho Chapter of the Wildlife Society, Idaho Falls, ID.

Goldberg, C. S., W. R. Bosworth1, D. C. Tank, L. P. Waits (2011). Species designation of the Bruneau tiger beetle (Cicindela waynei) is supported by phylogenetic analysis of mitochondrial DNA sequence data. Idaho Chapter of The Wildlife Society, Idaho Falls, ID.

Baumgardt, J.1, C. S. Goldberg, K. P. Reese, J. W. Connelly, D. D. Musil, E. O. Garton, L. P. Waits (2011). A method for estimating the population sex ratio of greater sage-grouse from fecal DNA. Idaho Chapter of The Wildlife Society, Idaho Falls, ID.

Schwalm, DL, WB Ballard, LP Waits, MA Cronin, P Gipson, J Young (2010) An Assessment of Genetic Structure and Diversity Among Swift Fox Populations in the United States. Mammalogy Society Meetings. Portland.

Stansbury CR, DE Ausband, CM Mack, P Zager, M Mitchell, LP Waits (2010) A noninvasive genetic sampling approach for monitoring gray wolves in Idaho. Wildlife Society Meeting. Snowbird, UT

Mumma MA, Waits LP, Zieminski CJ, Fuller TK, and Soulliere CE (2010) Evaluating seasonal changes in populations size of the major predators of Newfoundland caribou using multiple non-invasive genetic sampling strategies. Wildlife Society Meeting. Snowbird, UT

Seamster, G, SA Macko, LP Waits, HH Shugart (2010) Long-term and short-term variation in coyote feeding ecology. Wildlife Society Meeting. Snowbird, UT.

Bosque-Pérez, N, LP Waits, JE Force, S Eigenbrode, J.D. Wulfhorst, P Morgan, B Finegan, F De Clerck, D Stoian, J Jones (2010) Bridging the disciplinary divide: Lessons learned from the University of Idaho-CATIE IGERT project. Enhancing Interdisciplinary Communication. Coeur D'alene ID.

Waits, LP, J. Adams, J. H. Bohling (2010) Quantifying hybridization and introgression by reconstructing the pedigree of the endangered red wolf (*Canis rufus*) population Society for Conservation Biology, Edmonton, Alberta, Canada.

Goldberg, C. S., A. Pocewicz, M. Nielson-Pincus, L. P. Waits, P. Morgan, J. E. Force, L.Vierling (2010). Predicting ecological impacts of alternative policy scenarios on a rural landscape in northern Idaho (poster). Society for Conservation Biology, Edmonton, Alberta, Canada.

Russell, D., C. S. Goldberg, L. P. Waits, E. B. Rosenblum (2010). Variation in prevalence and intensity of infection by the amphibian chytrid fungus across seasons for the Columbia Spotted Frog in north Idaho. Idaho Chapter of The Wildlife Society, Boise, ID.

Balkenhol, N., Holbrook , J., Zager, P., Rachael, J., Onorate, D., DeSimone, R, White, C., Waits, L.P (2009) Hierarchical, Multi-scale Analysis of Landscape-Genetic Relationships in Idaho Cougars (Puma concolor*).* U.S. Regional Meeting of the International Association for Landscape Ecology (US-IALE); Snowbird, UT, USA. (3rd place in best student presentation competition)

Balkenhol, N., Holbrook , J., Zager, P., Rachael, J., Onorato, D., DeSimone, R, White, C., Waits, L.P (2009) Hierarchical Population Genetic Structure of Cougars (Puma concolor) in Idaho and Western Montana. Idaho Chapter of The Wildlife Society 2009, Moscow, ID.

Bohling, J.H., L.P. Waits (2009) The history and future of red wolf (*Canis rufus*) recovery in North Carolina. North Carolina Museum of Natural Sciences, Raleigh, NC. (Invited seminar)

Bohling, J.H., L.P Waits (2009) Evaluating the ability of Bayesian clustering methods to detect hybridization and introgression using an empirical red wolf dataset. Evolution 2009, Moscow, ID.

Bohling, J.H, A. Beyer, L.P Waits (2009) Factors influencing red wolf-coyote hybridization in eastern North Carolina. Defenders of Wildlife Carnivores Conference, Denver, CO.

De Barba, M., Waits, L.P., Genovesi, P., Randi, E., Groff, C. (2009) Noninvasive genetic monitoring of population expansion, mating system, and genetic composition of the translocated brown bear (Ursus arctos) population in the Italian Alps. European Conservation Genetics conference, Trondheim, Norway.

De Barba, M., Waits, L.P., Garton, O.E., Genovesi, P., Randi, E., Groff, C. (2009) Demographic and genetic population viability analysis of a small translocated brown bear population and implications for conservation and management. 7th International Conference on Behaviour, Physiology and Genetics of Wildlife, Berlin, Germany.

Dunn, S, L.P. Waits, J. Byers (2009) A test of the generality of the Shuster and Wade model of sexual selection. Evolution. Moscow, ID

Goldberg, C.S., L.P. Waits (2009) Landscape genetics of Columbia Spotted Frogs and Long-toed Salamanders in a rural landscape of northern Idaho, USA. Joint Meeting of Ichthyologists and Herpetologists, Portland, OR.

Goldberg, C.S., L.P. Waits (2009) Quantification and reduction of bias from sampling larvae to infer population and landscape genetic structure. Evolution 2009: the joint annual meeting of the Society for the Study of Evolution, the Society of Systematic Biologists, and the American Society of Naturalists, Moscow, ID.

Goldberg, C.S., A. Pocewicz, M. Nielson-Pincus, L.P. Waits, P. Morgan, J.E. Force, L. Vierling (2009). Predicting ecological impacts of alternative policy scenarios on a rural landscape in northern Idaho. 24th Annual Symposium of the United States Regional Chapter of the International Association of Landscape Ecology, Snowbird, UT.

Goldberg, C.S., L.P. Waits (2009) Patterns of amphibian chytrid fungus on pond-breeding amphibians of north Idaho. Idaho Chapter of the Wildlife Society, Moscow, ID.

Jelenčič, M, T Skrbinšek, L Waits, P Trontelj, And I Kos (2009) Genetic diversity of brown bears (Ursus arctos) in Slovenia. European Conservation Biology Meetings

Kelly, M.J. C.Wultsch , L.Waits, M.L. Davis (2009) A comparative study of felid densities via simultaneous scat detector dog and remote camera trap mark-recapture in Belize, Central America. Carnivore Conference, Denver, US

Seamster, V. A., S. A. Macko, L. P. Waits, H. H. Shugart (2009) A shift in coyote feeding ecology in response to woody plant encroachment. Ecological Society of America, Albuquerque, NM.

Skrbinšek, T. M Jelenčič, H Potočnik, L Waits, P Trontelj, I Kos (2009) Population size and sex ratio of brown bears (*Ursus arctos*) in Slovenia estimated using noninvasive genetic sampling and implications for conservation and management. European Conservation Biology Meetings

Stenglein, J., L Waits, C Mack, D Ausband, M Mitchell, P Zager, S Nadeau (2009) Monitoring gray wolf packs and populations with noninvasive genetic sampling at predicted rendezvous sites. Idaho Chapter of the Wildlife Society Meetings, Moscow, Idaho.

Waits, L (2009) Landscape genetics: An emerging tool for conservation and management at the landscape scale. College of Natural Resources, 100 years of Forestry Celebration.

Waits, L (2009) Molecular genetic contributions to noninvasive survey approaches for carnivores. Carnivore Conference, Denver, US (Invited Talk)

Waits, L, J. Adams, B. Bosworth, J. Rachlow (2009) Development of a fecal DNA detection method for pygmy rabbits. Idaho Chapter of the Wildlife Society Meetings, Moscow, Idaho.

Waits L and J Adams (2009) Quantifying hybridization and introgression by reconstructing the pedigree of the endangered red wolf (*Canis rufus*) population. Evolution. Moscow, ID

Wultsch, C, M. Kelly, L. Waits (2009) Using Scat Detector Dogs And Molecular Scatology To Monitor Jaguars And Other Elusive Feline Species Co- Occurring In Belize, Central America. Carnivore Conference, Denver, US (Invited Talk)

Wultsch, C, M. Kelly, L. Waits (2009) Using Scat Dogs and Remote Cameras to Estimate Jaguar Density and Connectivity in Belize. Felid Session, XIII Mesoamerican Society For Biology and Conservation Symposium, Belize City, Belize (Invited Talk)

Bohling J and LP Waits (2008) Assessing the extent of hybridization between sympatric red wolves (*Canis rufus*) and coyotes (*Canis latrans*) in coastal North Carolina. Society for Conservation Biology. Chattanooga, TN.

Schalwm D, W Ballard, LP Waits (2008) Assessment of swift fox population structure in the United States. Society for Conservation Biology. Chattanooga, TN.

Balkenhol N, L.P. Waits (2008) Using landscape genetics to evaluate functional landscape connectivity for wildlife. Wildlife Society Meetings. Miami, FL.

Stenglein J, C. Mack, D. Ausband, M. Mitchell, P. Zager, S. Nadeau, L.P. Waits (2008) Evaluating the potential of noninvasive genetic sampling for long-term monitoring of gray wolves in Idaho. Wildlife Society Meetings. Miami, FL.

Adams J, L.P. Waits, L. Vucetich, R. Peterson, J. Vucetich (2008) A genetic analysis of Isle Royale wolves and moose. Midwest Wolf Stewards Meeting, Hinckley, MN

Wultsch C, M.J. Kelly, and L.P. Waits (2008) Noninvasive tracking of jaguars (Panthera onca) and co-occurring feline species across protected areas in Belize by combining molecular scatology and GIS: optimizing wildlife population monitoring and connectivity on a large scale. Natural Resource Management Conference, Belize.

Drummond C, J. Sullivan, LP Waits (2008) Landscape genetics across a species range: modeling population connectivity in tailed frogs (*Ascaphus montanus*). Society for Evolution Meetings.

Goldberg C, LP Waits (2008) Predicting the impacts of land-use policies on habitat for amphibians across a privately-owned landscape in northern Idaho. Society for Northwestern Vertebrate Biology, Missoula, MT.

Pocewicz A, M. Nielsen-Pincus, C.S. Goldberg, P. Morgan, J.E. Force, L.P. Waits, L. Vierling (2008) Consequences of alternative residential development scenarios for agriculture, fire, water, and social acceptability in a rural landscape in north Idaho, USA. US Association of Landscape Ecologists, Madison, WI.

Balkenhol N, L.P. Waits (2008) Understanding landscape genetic relationships in animals: Is landscape resistance all that matters? US Association of Landscape Ecologists, Madison, WI.

Pocewicz A, M. Nielsen-Pincus, C.S. Goldberg, P. Morgan, J.E. Force, L.P. Waits, L. Vierling (2008) Consequences of alternative residential development scenarios for agriculture, fire, water, and social acceptability in a rural landscape in north Idaho, USA. US Association of Landscape Ecologists, Madison, WI.

Balkenhol N, L.P. Waits (2008) Using Landscape Genetics to Evaluate Functional Connectivity in Transportation Planning. NW section of the Wildlife Society, WA

Waits LP, C. Goldberg (2008) Landscape genetics of the Columbia Spotted Frog in northern Idaho, USA, US Association of Landscape Ecologists, Madison, WI.

Estes-Zumpf WA, J. L. Rachlow, L.P. Waits, K. Warheit (2008) Gene flow and genetic diversity among populations of pygmy rabbits in Idaho and Montana, Idaho Chapter of the Wildlife Society, ID.

Howard S, N. Balkenhol, K. Olson, L. Waits (2008) Genetic diversity and population structure of Mongolian wolves. Idaho Chapter of the Wildlife Society, ID.

Stenglein J, C. Mack, D. Ausband, M. Mitchell, P. Zager, S. Nadeau, L.P. Waits (2008) Evaluating the use of noninvasive genetic sampling for monitoring gray wolves in Idaho. Idaho Chapter of the

Wildlife Society, ID.

Holbrook J, L. Waits, D. Onorato, C. White, J. Rachel, P. Zager, R. Desimone (2008) Genetic diversity, population structure and gene flow among cougar populations in Idaho and Montana. Idaho Chapter of the Wildlife Society, ID.

Goldberg C, LP Waits (2008) Predicting the impacts of land-use policies on habitat for amphibians across a privately-owned landscape in northern Idaho. Inland Northwest Aquatic, Riparian, and Wetland Symposium, Spokane, WA.

Kendall K, J.B. Stetz, D.A. Roon, L. P, Waits, J. B. Boulanger, D. Paetkau (2008) Grizzly bear density in Glacier National Park. Montana Chapter of the Wildlife Society, MT.

Waits L, S. Robinson, I. Martin (2007) Evaluating population structure of black bears on the Kenai peninsula using mitochondrial and nuclear DNA analyses, Alaska Chapter of the Wildlife Society, AK.

Viteri MP, L. Waits, F. Cuesta, M. Proctor (2007) Genetic Diversity and Population Size of Andean Bears in the Southern Cayambe-Coca Ecological Reserve in Northeastern Ecuador. Conservation Genetics Meetings, NY.

Balkenhol N, L. Waits. 2007. An evaluation of current methods for linking genetic variation to landscape heterogeneity using simulated data. International Association of Landscape Ecologists Meeting. Netherlands.

Waits L (2007) Potential contributions of landscape genetics to ecology, conservation and management of riverscape taxa. UI-ISU Riverscape Symposium, Moscow, Idaho.

Estes-Zumpt W, J. Rachlow, L. Waits (2007) Gene flow and dispersal in a patchy environment: pygmy rabbits in the Lemhi valley, Idaho. American Society of Mammalogists meetings. NM.

Hoisington J, J. Sullivan, L. Waits, J. Rachlow (2007) Systematics of the Idaho Ground Squirrel (*Spermophilus brunneus).* American Society of Mammalogists Meetings. NM.

DeBarba M, L. Waits, P. Genovesi, E. Randi. 2007 incorporating demographic and genetic data to project genetic diversity, inbreeding and viability of a small translocated brown bear population. International Bear Association Meetings, Mexico.

Waits LP, D. Onorato, C. White, J. Rachel, P. Zager, R. Desimone (2007) Genetic diversity, population structure and gene flow among cougar populations in Idaho and Montana. Wildlife Society Meeting, Tucson, AZ

Howard S, N. Balkenhol, K. Olson, L. Waits (2007) Genetic diversity and population structure of Mongolian wolves. Wildlife Society Meeting, Tueson, AZ.

Adams J, A. Beyer, W. Wadell, L. Waits (2007) Pedigree reconstructions of the wild red wolf population reveals minimal introgression of coyote genes. Wildlife Society Meeting, Tucson, AZ.

Kendall K, J.B. Stetz, D.A. Roon, L. P, Waits, J. B. Boulanger (2007) DNA-based density estimate for grizzly bears in Glacier National Park, Montana, Wildlife Society Meeting, Tucson, AZ.

Goldberg C, L. Waits (2007) Predicting the impacts of land-use policies on habitat for amphibians across a privately-owned landscape in northern Idaho. Wildlife Society Meeting, Tucson, AZ.

Hoisington J, L. Waits, J. Sullivan, J. Rachlow (2007) Population Connectivity and Landscape Genetics of the Idaho ground squirrel (*Spermophilus brunneus).* Ecological Society Meetings, CA.

Gebhardt K, L. Waits, D. Brightsmith, G. Powell (2007) An evaluation of Genetic diversity and phylogenetic relationships among three large macaws in Peru. Cooper Society Meetings, Idaho.

Gebhardt K, L. Waits, D. Brightsmith, G. Powell (2007) Genetic diversity and genetic structure of 4 large parrots in the Peruvian Amazon American Ornithological Union Meeting, WY.

Keenher J, D. Onorato, L. P. Waits (2006) Using DNA sequence analysis to detect and identify carnivores in National Parks of the Southwest. Idaho Chapter of the Wildlife Society Meeting, Boise, Idaho, March.

Goldberg CS, L. P. Waits. 2006. Landscape genetics of the Columbia Spotted Frog in the Palouse ecoregion of northern Idaho. Idaho Chapter of the Wildlife Society Meeting, Boise, Idaho, March.

Tserenbattaa T, L. P. Waits, H. V. Reynolds, D.J. Craighead, L. Amgala, B. Mijiddorj (2006) Genetic analysis of the taxonomic status of the Gobi bear. International Bear Association Meeting, Japan. (Best oral presentation award).

Kendall K, J.B. Stetz, D.A. Roon, L. P, Waits, J. B. Boulanger, and D. Paetkau (2006) Grizzly bear population density in Glacier National Park, Montana. International Bear Association Meeting, Japan.

Viteri MP, L. P. Waits, B McLaughlin (2006) Genetic Diversity and Structure among Andean Bear population in Ecuador. International Bear Association Meeting, Japan.

Roon DA, L. P. Waits, J. Stetz, K. Kendall (2006) A non-invasive genetic estimate of abundance for black bears (Ursus americanus) in the Greater Glacier Ecosystem. Wildlife Society, AK.

Adams J, L. P. Waits (2006) Fecal DNA genotyping: a tool to manage the endangered red wolf population. Wildlife Society, AK.

Tyler G, C. S. Goldberg, L.P. Waits (2006) Estimating the number of breeding adults and effective popultion sizes of Columbia Spotted Frogs in northern Idaho. Wildlife Society, AK.

Wadell W, A. Beyer, L. Waits, J. Adams (2006) Red Wolf Studbook Data: Integrating captive and wild population management. Defenders of Wildlife

Kendall K, J.B. Stetz, D.A. Roon, L. P, Waits, J. B. Boulanger, and D. Paetkau (2006) Grizzly bear population density in Glacier National Park, Montana. Carnivores 2006

Bosque-Pérez NA, S. D. Eigenbrode, J. E. Force, L. Waits, B. Finegan, C. Harvey, J. Jones, D. Stoian, J. Boll, S. Brunsfeld, P. McDaniel, M. O' Rourke, J. D. Wulfhorst (2006) Lessons from an interdisciplinary team-based Ph.D. program in sustainable production and conservation biology at the University of Idaho and CATIE, Idaho Academy of Sciences, Moscow Idaho, March.

Waits LP (2006) Inland Northwest Philosophy Conference Public Forum. "What Should We Do for Nature? Environmental Problems, Responsibility, and Action". Panel member and presenter – Moscow Idaho.

Goldberg C, L. P. Waits (2006) Genetic structure of Columbia Spotted Frog populations in the changing Palouse landscape of Northern Idaho. Idaho Herp Society

Newcomb G, L. Waits, C. Anderson (2006) Center for Research on Invasive Species and Small Populations. Idaho Academy of Sciences, Moscow Idaho, March.

Waits LP, S. Robinson, Niko Balkenhol, C. S. Goldberg, R. Dezzani, L. Vierling (2006) Interdisciplinary research in landscape genetics and applications for natural resource conservation. Idaho Academy of Sciences, Moscow Idaho, March.

Gebhardt K, J. Doble, L. Waits (2006) Development of a molecular sex identification marker for non-invasively collected feathers. Idaho Chapter of the Wildlife Society Meeting, Boise, Idaho, March. (poster)

Robinson S, L. Waits, R Dezzani, I. Martin (2006) Spatial analysis of black bear gene flow on the Kenai Peninsula, Alaska. Idaho Chapter of the Wildlife Society Meeting, Boise, Idaho, March.

Balkenhol N, L. P.Waits, C. C. Cegelski, N. J. Anderson (2006) Landscape genetics of wolverines in western Montana. Idaho Chapter of the Wildlife Society Meeting, Boise, Idaho, March

Hoisington J, L. Waits, J. Sullivan, J. Rachlow, S. Brunsfeld (2006) Population structure of the Idaho ground squirrel (Spermophilus brunneus) using mitochondrial data. Idaho Chapter of the Wildlife Society Meeting, Boise, Idaho, March

Waits L (2006) Using new approaches for defining population boundaries. Wildlife Society, Anchorage, AK

Robinson S, L. Waits, R. Dezzani, I Martin (2006) Spatial analysis of black bear gene flow on the Kenai Peninsula. Wildlife Society, Anchorage, AK

Robinson, S., L. P. Waits, I. Martin (2005) Population Genetics of Black Bears on the Kenai Peninsula, Alaska, US Park Service South West Alaska Network Investigator's Symposium

Anderson, C., L. P. Waits, and S. Brunsfeld (2005) Bridging the Gap between Scientists and Managers: Integrating research, education and outreach, and building partnerships between university scientists, government and private land management agencies. Idaho Chapter of the Wildlife Society, Boise, Idaho.

Waits, L.P., Brunsfeld, B, and C. Anderson (2005) Integrating Research, Education And Outreach: Building Partnerships Between University Scientists, Government And Private Land Management Agencies, Society for Conservation Biology, Brasilia.

Waits, L. P.; N. Bosque-Perez, J. Force, S. Eigenbrode, S. Brunsfeld, JD Wulfhorst, P. McDaniel, J. Boll, C. Harvey, B. Finegan, D. Stoian (2005) Launching interdisciplinary team-based PhD training in conservation biology and sustainable development at the University of Idaho and CATIE, Society for Conservation Biology, Brasilia, Brazil.

Roon, D., J. Hinson, M. Soulen, E. Strand, L. P. Waits (2005) Student landowner collaborations in Southern Idaho: a paradigm for landscape level conservation planning. Society for Conservation Biology. Brasilia, Brazil.

Waits, L. P., E. Bellemain, M. DeBarba, E. Randi, P. Taberlet (2005) Non-invasive Genetic Sampling and Population Estimation of Brown Bears in Europe, International Bear Association, Italy. (invited)

De Barba, M, L. P. Waits, P. Genovesi, E. Randi (2005) Monitoring the brown bear in the Italian alps through non-invasive genetic sampling. International Bear Association, Italy.

Kendall, K., J. Stetz, L. Waits, D. Roon (2005) Sampling Bears Using Rub Trees. International Bear Association, Italy.

Viteri, P., F. Cuesta, L. Waits, G. Remache, A. Tapia, M. Proctor (2005) Genetic Diversity and minimum count of the Andean bear (*Tremarctos ornatus*) in Ecuador. International Bear Association, Italy.

Keehner, J.R. D. P. Onorato, L. P. Waits (2005) Using DNA sequence analysis of hair and feces to detect and identify carnivore species in the National Parks of the southwest, Second International Symposium on Conservation Genetics, Monterey, CA.

Viteri, P., F. Cuesta, and L. Waits (2005) Conservation Genetics of the Andean Bear in Ecuador, Second International Symposium on Conservation Genetics, Monterey, CA.

Gebhardt, K., G. Powell, D. Brightsmith, L.P. Waits (2005) Species identification and success rates of DNA amplification for parrot feathers from claylicks. Second International Symposium on Conservation Genetics, Monterey, CA.

Goldberg, C, L. P. Waits (2005) Quantification of bias associated with using tadpole samples to infer population genetic structure of Columbia Spotted Frogs. Second International Symposium on Conservation Genetics, Monterey, CA.

Robinson, S., L. P. Waits, I. Martin (2005) Landscape Genetics of Black Bears on the Kenai Peninsula, Alaska: Defining the Questions Questioning the Answers, Second International Symposium on Conservation Genetics, Monterey, CA.

Waits, L. P. and C. R. Miller (2004) Mitochondrial DNA phylogeography of historical brown bear populations in the lower 48 states. International Bear Association, San Diego

DeBarba, M., L. P. Waits, E. Randi, P. Genovesi (2004) Monitoring the brown bear in the Italian alps through non-invasive genetics sampling. International Bear Association, San Diego.

Force, J., L. Waits, N. Bosque-Perez, S. Eigenbrode, S. Brunsfeld, P. McDaniel, J. D. Wulfhorst, J. Boll, B. Finegan, C. Harvey and E. Somarriba. (2004) An Integrative Model of Graduate Education in Biodiversity Conservation and Sustainable Production in Fragmented Landscapes.5th Biennial Conference on University Education in Natural Resources. Flagstaff, AZ.

Hicks, J.F., J.L. Rachlow, O.E. Rhodes, Jr., L.P. Waits, and Christen L. Williams (2004) Microsatellite analysis of regional and local gene dynamics across elk populations in the West. The 84th Annual Meeting of the American Society of Mammalogists, Arcata, CA, USA.

Onorato, D. P., Rich DeSimone, Lisette P. Waits (2004) Paternity assignment and relatedness in a population of cougars impacted by heavy hunting pressure. Presented at the 84th annual meeting of the American Society of Mammalogists, Arcata, California.

Hicks, J, J. Rachlow, O. Rhodes, and L. Waits (2003) Microsatellite analysis of genetic variation and structure among source and reintroduced elk populations in the Western states, Society for Conservation Biology, Duluth, Minnesota

Roon, D., K. Kendall, L. Waits (2003) Microsatellite genotyping error and demographic assessment: a simulation test of the effectiveness of several common error-checking protocols, Society for Conservation Biology, Duluth, Minnesota.

Adams, J, B. Fazio and L. Waits (2003) The effect of genotyping errors on population size estimates derived from fecal sampling, Society for Conservation Biology, Duluth, Minnesota,

Waits, L, N. Bosque-Perez, J. Force, S. Eigenbrode, S. Brunsfeld, JD Wulfhorst, P. McDaniel, J. Boll, C. Harvey, B. Finegan, and E. Somarriba (2003) An integrative model of graduate education in conservation biology and sustainable production, Society for Conservation Biology, Duluth, Minnesota

Murphy, M., P. Zager, S. Monfort, A. Muth and L. Waits (2003)Development of a non invasive method for determining sex ratio and pregnancy rate in an idaho elk herd, Society for Conservation Biology, Duluth, Minnesota

Viteri, P., L. Waits (2002) A non-invasive genetic sampling pilot study of the Andean bear (*Tremarctos ornatus*) in the Cayambe-Coca Ecological Reserve, Ecuador., International Conference for Bear Research and Management, Norway

Haroldson, M, K.Gunther, C. Schwartz, L. Waits (2002) Estimates of grizzly bear numbers visiting Yellowstone Lake spawnings streams using DNA. International Conference for Bear Research and Management, Norway

Kendall, K., L. Waits, D. Roon, J. Stetz (2002) Bear rubbing activity:implications for population monitoring. International Conference for Bear Research and Management, Norway

Miller, C.R., P. Joyce, L. Waits (2002) Bayesed and confused: comparing allelic diversity in the face of unequal sample sizes, sampling error and other headaches, Society for Conservation Biology, Canterbury England

Waits, L., J. Adams, C. Miller, S. Funk, B. Fazio (2002) Recovering the endangered red wolf: addressing the challenge of hybridization, Society for Conservation Biology, Canterbury England

Roon, DA, J. Chivaro, K. Kendall, L. Waits (2002) MtDNA sequencing reveals fine scale spatial population structure for Ursus arctos in Glacier National Park, Society for Conservation Biology, Canterbury England

Waits, L., J. Adams, C. Miller, B. Fazio (2002) Recovering the endangered red wolf: addressing the challenge of hybridization, Northwest Chapter Wildlife Society Meetings, Spokane.

Roon, DA, J. Chivaro, K. Kendall, L. Waits (2002) MtDNA sequencing reveals fine scale spatial population structure for Ursus arctos in Glacier National Park, Northwest Chapter Wildlife Society Meetings, Spokane.

Cegelski, C., L. Waits, N. Anderson, C. Kyle, C. Strobeck, J. Copeland (2002) An evaluation of genetic diversity and population genetic structure in Rocky Mountain Wolverines, Northwest Chapter Wildlife Society Meetings, Spokane.

Waits, L. (2001) Non-invasive genetic sampling of bear populations: promise and pitfalls. International Bear Association meetings, JacksonHole WY

Romain, K., R. Wielgus, M. Austin, L. Waits, W. Kasworm, W. Wakkinen (2001) Efforts to detect North Cascade Grizzly Bears using non-invasive DNA hair sampling techniques, International Bear Association meetings, JacksonHole WY

Roon, D., L. Waits, K. Kendall (2001) The effectiveness of filtering non-invasive genetic data: a case study from Glacier National Park. International Bear Association meetings, JacksonHole WY

Murphy, M., L. Waits, K. Kendall (2001) Brown bear fecal DNA analysis: Technique optimization and application to Glacier National Park, International Bear Association meetings, JacksonHole WY

Kendall, K, L. Waits, D. Roon, M. Murphy, J. Stetz (2001) Biases associated with sampling bears with hair traps, rub trees, and scat surveys. International Bear Association meetings, JacksonHole WY (Best paper award)

Kendall, K., L. Waits, D. Roon, M. Murphy, J. Stetz (2001) Biases associated sampling bears with hair traps, rub trees and scat surveys. American Society of Mammalogists, Missoula, MT

Adams, J., B. Kelly, L. Waits (2001) Monitoring for genetic introgression into an island population: the Red Wolf as a case study, Society for Conservation Biology, Hilo, HI

Luikart, G., S. Manel, L. Waits (2001) Wildlife forensic applications of DNA typing: empirical

evaluations and guidelines, Society for Conservation Biology, Hilo, HI

Cegelski, C., L. Waits, N. Anderson (2001) Mitochondrial DNA and microsatellite DNA analysis of wolverine population structure in Montana, Society for Conservation Biology, Hilo, HI

Adams, J. L. Waits, A. Beyer (2001) Faecal DNA sampling to detect the presence of coyotes and hybrids in the Red Wolf Recovery Zone, Canid Biology and Conservation Conference, Oxford, England

Waits, L., J. Adams, C. Miller, W. Waddell, and A. Beyer (2001) Detecting coyote introgression into the wild Red Wolf populations, Canid Biology and Conservation Conference, Oxford, England

Waits, L., K. Kendall, D. Roon, M. Murphy (2001) Non-Invasive Genetic Sampling of Bears at an Ecosystem Scale Using Multiple Collection Methods, Conservation Genetics Meeting, Lausanne, Switzerland

Roon, D, L. Waits, K. Kendall (2001) Trail travails: The impact of human presence on the Non-invasive genetic sampling of brown bears (*Ursus arctos*) and black bears (*Ursus americanus*) within a protected landscape, Conservation Genetics Meeting, Lausanne, Switzerland

Miller, C., G. Luikart, L. Waits (2001) Maintaining genetic variation in an island population: shortcomings of the one migrant rule. Conservation Genetics Meeting, Lausanne, Switzerland

Waits, L., K. Kendall, M. Murphy, D. Roon, J. Adams (2000) Non-invasive genetic sampling: promise and pitfalls. Carnivores 2000, Denver, CO.

Kendall, K., L. Waits, M. Murphy, D. Roon, J. Stetz (2000) Non-invasive genetic sampling of grizzly bear and black bear population status at an ecosystem scale, Carnivores 2000, Denver, CO

Adams, J., L. Waits, B. Kelly (2000) Non-invasive genetic sampling of red wolf population on Alligator River National Wildlife Refuge, Carnivores 2000, Denver, CO.

Roon, D., K. Kendall, L. Waits (2000) Tracking bear demography in the Greater Glacier Area of the U.S.A. through non-invasive DNA sampling, Managing for Bears in Forested Environments, Revelstoke, BC.

Waits, L. (2000) Taxonomic placement of the giant panda based on molecular data. Panda 2000, San Diego Zoo.

Miller, C., L. P. Waits (2000) The bear bones: a historical genetic analysis of the Yellowstone grizzly. Society for Conservation Biology. Missoula, MT

Miller, J, J.M. Scott, C. R. Miller, L.P. Waits (2000) Endangered Species Recovery: Dollar and Sense. Society for Conservation Biology. Missoula, MT

Kendall, K, L. Waits, D. Roon, M. Murphy, K. Peterson (2000) Grizzly bear population status in northwestern Montana. Society for Conservation Biology. Missoula, MT.

Roon, D., L. Waits, and K. Kendall (2000) Non-invasive genetic sampling, genotyping error, and bias potential in demographic studies. Society for Conservation Biology. Missoula, MT

Waits, L. (2000) Exploring the ESU concept using mtDNA and nDNA data sets from brown bears. Society for Conservation Biology. Missoula, MT

Shields, G., A. Cooper, D. Paetkau, L. Waits (2000) The necessity of large, multilocus data sets in molecular conservation biology. Society for Conservation Biology. Missoula, MT

Murphy, M., L. Waits, K. Kendall (2000). Impact of diet and field conditions on PCR amplification success for brown bear fecal DNA samples. Society for Conservation Biology. Missoula, MT

Roon, D., L. Waits, K. Kendall (2000) Genetics of Glacier National Park Brown Bears: Demograpics and Population Structure through Non-invasive Genetic Sampling. Western Black Bear Conference. Coos Bay, Oregon

Murphy, M., L. Waits, K. Kendall (2000) Diet and temporal impacts on PCR amplification success in brown bear fecal DNA samples, Western Black bear meeting, Coos Bay OR.

Miller, C., L. Waits (2000) Down in the dumps? An historical genetic analysis of the Yellowstone grizzly bear population, Northwest Chapter of the Wildlife Society, Post Falls, ID

Murphy, M., L. Waits, K. Kendall (2000) The importance of diet and time in the field for successful amplification of brown bear fecal dna samples. Northwest Chapter of the Wildlife Society, Post Falls, ID

Kendall, K., L. Waits, D. Roon, M. Murphy, K. Peterson (2000) Use of DNA to monitor grizzly bear

population status. . Northwest Chapter of the Wildlife Society, Post Falls, ID

Waits, L., K. Kendall, M. Murphy, D. Roon (2000) Non-invasive genetic sampling of wildlife populations: Promise and Pitfalls. Northwest Chapter of the Wildlife Society, Post Falls, ID.

Murphy, M., L. Waits, K. Kendall (1999) A Quantitative Evaluation Of Brown Bear Fecal DNA Preservation Methods, Wildlife Society Meetings, Austin, Texas.

Roon, D., L. Waits, K. Kendall (1999) Genetics of Glacier Park Brown Bears: Abundance and population structure through Non-invasive Genetic Sampling, Ecological Society Meetings, Spokane, Washington.

Murphy, M., L. Waits, K. Kendall (1999) A Quantitative Evaluation Of Methods For Preserving DNA In Brown Bear Fecal Samples, Ecological Society Meetings, Spokane, Washington.

Roon, D., L. Waits, K. Kendall (1999) Northern Continental Divide Brown Bears: Minimal Abundance and Population Structure through Non-Invasive Hair Trapping. Society for Conservation Biology, College Park, Maryland.

Murphy, M., L. Waits, K. Kendall (1999) A Quantitative Evaluation Of Methods For Preserving DNA In Brown Bear Fecal Samples, Society for Conservation Biology, College Park, Maryland.

Waits, L. 4/98, Genetic applications for bear research and management Int. Conf. of Bear Res. and Manage., Gatlinburg, Tenn.

Kendall, K. C., L. Waits, D. Schirokauer, S. Wolff (1999) Using DNA to monitor bear populations in Glacier National Park Int. Conf. of Bear Res. and Manage., Gatlinburg, TN

Waits, L, K. Kendall, M. Murphy, Dave Roon (1999) Non-invasive genetic sampling: Promise and Pitfalls. Species at Risk Conference, Kamloops, Canada

Miller, C., L. Waits (1999) An examination of historic levels and patterns of genetic diversity in the brown bear of the lower 48 states, Kamloops, Canada

Waits, L., J. Swenson, F. Sandegren, P. Taberlet (1997) Genetic diversity and gene flow in the Scandinavian brown bear population: implications for management. Int. Conf. of Bear Res. and Manage.

Waits, L. (1995) A comparison of genetic variability in brown bear populations from Alaska, Canada, and the lower 48 states - 10th Int. Conf. for Bear Res. and Man. Fairbanks, AK.

Waits, L. (1995) Mitochondrial DNA phylogeography of the brown bear (*Ursus arctos*) and implications for management. - 10th Int. Conf. for Bear Res. and Man. Fairbanks, AK.

Ward RH, L. Waits (1995) Phylogenetic hypotheses of bear evolution evaluated by multiple region mitochondrial DNA sequence data. 10th Int. Conf. for Bear Res. and Man. Fairbanks, AK.

Waits, L. (1993) An Ursid phylogeny estimated from multiple regions of mtDNA. Int. Con. of Genet. Birmingham, England.

Waits, L. (1993) Identification of endangered bear species by taxon-specific sequences (TSSs). - Soc. for Cons. Biol. Tempe, AZ.

Wooding, S., L. Waits, T. Thier, C. Servheen, R.H. Ward. (1993) MtDNA sequences indicate different population origins of grizzly bears and black bears in Montana. Soc. for Cons. Biol. Tempe, AZ

Waits, L. (1992) Haplotypes at the low density lipoprotein receptor influence lipid levels in females. American Society of Human Genetics. San Francisco, CA.

Morre, D.J., N. Minnifield, M. Paulik, S. Dunkle, L. Waits, D.M. Morre (1989) Temperature dependence of transition vesicle formation and membrane transfer from endoplasmic reticulum to golgi apparatus in a cell-free system from rat liver. Soc. for Cell. Biol., Boston, MA.

Grants and Contracts Awarded:

Competitive Grants

2012 – 2015 Monitoring species of concern using noninvasive genetic sampling and capture-recapture methods: demonstration and validation with kit fox and Sonoran pronghorn, L Waits, J Horne, DOD, $607,518

2012 – 2015 Environmental DNA as a Tool for Inventory and Monitoring of Aquatic Vertebrates, A Fremier, K Strickler, C Goldberg (I was co-contributor but not co-PI because it was not possible to be PI on two DOD grants), DOD, $650,000

2011 – 2012 Detecting amphibian species using environmental DNA from water samples, USGS Amphibian Research, Monitoring and Inventory, David Pilliod (USGS), L Waits, C Goldberg, R Arkle (USGS) - $48,769, (subcontract to UI $20,790)

2011 – 2012 Developing a test for early detection of New Zealand mudsnails using environmental DNA. Adam Sepulveda (USGS), Andrew Ray (USGS), L Waits. USFWS $33,141 ($25, 635 subcontract to UI)

2010 – 2013 An Interdisciplinary Team-Based International Research Experience in Biodiversity Conservation and Sustainable Community Development in the Ecuadorian Andes, Waits, L, S. Pinel, S. Mulkey, D. Tank, J. Rachlow, D. Roon National Science Foundation, $146,945

2009 – 2014 Evaluating resilience of ecological and social systems in changing landscapes: a doctoral research and education program in Idaho and Costa Rica with Bosque-Perez, N., S Eigenbrode, P Morgan, JD Wulfhorst, JE Force, NSF IGERT Grant, $3.2 million

2007 – 2010 Behavioral Responses to a Population Bottleneck in Pronghorn, with J Byers, National Science Foundation, $575,000

2007 – 2008 Landscapes without borders: Towards an interdisciplinary teaching and research program to analyze landscapes for ecology and conservation, with R. Dezzani, L. Vierling, University of Idaho Interdisciplinary Grants Program, $14,600.

2008 NSF Dissertation Improvement Grant with PhD student Stacey Dunn, $10,000.

2005 – 2006 Systematics and landscape genetics of Idaho ground squirrels, with J. Sullivan, J. Rachlow, S. Brunsfeld, UI Center for Research on Invasive Species and Small Populations, $24,900

2005 – 2008 Temporal and spatial patterns of genetic variation in small populations of plants and animals found in one of Idaho's major biodiversity hotspots, postdoctoral project with S. Brunsfeld, J. Sullivan UI Center for Research on Invasive Species and Small Populations, $107,2000.

2005 – 2007 Systematics and landscape genetics of Idaho ground squirrels with J. Sullivan, J. Rachlow, S. Brunsfeld, Idaho State Wildlife Grants Program $26,262.

2005 – 2007 Building Protected Area Management Capacity Globally Consolidated Proposal from the University of Idaho with Bill McLaughlin, Consortium of Protected Area Managers. $63,250

2004 - 2007 Evaluation of genetic structure among black bear (*Ursus americanus*) on the Kenai Pennisula, with Ian Martin, National Park Service, Inventory and Monitoring of National Park Service $58,500

2004 – 2007 Research center for applied biotechnology and natural resource management, Co-PIs Steve Brunsfeld and Cort Anderson, State of Idaho Center Grant, $979,134

2004 – 2007, Modeling trends in forest management, exurban development, and biodiversity conservation under alternative policy portfolios in northern Idaho, Co-Pis, Penny Morgan and JoEllen Force, McIntire-Stennis, $74,000

2004 – 2006, Evaluating population size, genetic diversity and genetic structure in Croatian brown bears, with Djuro Huber, Ana Galov, and Ivana Tomaskovic (Croatia), Croatian Ministry of Science and the US State Department, $10,000

2003 – 2004 - U of Idaho EPSCoR/NSF request for Genetics Laboratory Instrumentation Improvements, Co-PIs Cort Anderson, Steve Brunsfeld, $29,500

2001 – 2006, Ecosystem management in tropical and temperate regions: integrating education in sustainable production and biodiversity conservation, National Science Foundation, Co-PI – Nilsa Bosque-Perez, Sanford Eigenbrode, and Paul McDaniel Plant, Soil & Entomological Sciences, Steve Brunsfeld and JoEllen Force, Forest Resources, $2.6 Million

2001 – 2004 An integrative statistical framework for assessing and minimizing errors in ancient, non-invasive and forensic genetic studies, National Science Foundation, Co-PI - Paul Joyce, Mathematics, $166,000

2000 - 2005 Environmental Surveillance, Education Research on Idaho National Engineering and Environmental Laboratory, US Department of Energy, Multidisciplinary Proposal Stoller Corporation (Idaho Falls, Idaho) with University of Idaho subcontract thru R. Crawford, $10M to Stoller

2000 – 2003 An interdisciplinary approach to landscape ecology of brown bears (*Ursus arctos)*, black bears *(Ursus americanus*) and humans (*Homo sapiens*) within the Greater Glacier Area, McIntire-Stennis Co-PI Nick Sanyal, Resource Recreation and Tourism, $121,000

2000 – 2002 An evaluation of fecal DNA amplification success rates in ungulates. University of Idaho Seed Grant, $7943

2000 – 2001 Using non-invasive genetic sampling in research and conservation of endangered wildlife, NATO Expert Visit program, $2,635

1999 – 2001, Minimum population estimate and limiting factors for the North Cascades Grizzly Bear, Seattle City Light, through WSU with Co PI - Robert Wieglus and Charlie Robbins, Department of Natural Resource Sciences, Washington State University, $187,000

1998 - 2001 Evaluation of historical levels of genetic diversity in brown bears of the lower forty eight states, National Science Foundation -EPSCoR, Co-PI – grant was administrated by Dr. Shreeve and included proposals from 10 faculty. $180,000

1998 - 2000 Research Experience for Undergraduates, NSF-EPSCoR, $10,800,

1998 - 2002 Acquisition of equipment for a molecular genetics core facility for research and research training in conservation genetics and molecular ecology, National Science Foundation, Co PI - Steve Brunsfeld, Forest Resources, Ernest Brannon, Aquaculture, $271,615

1998 – 1999 An examination of the effects of highways on genetic diversity and gene flow in *Peromyscus maniculatus,* University of Idaho Seed Grant, $5,865

Grants Funded and Written in Partnership with other Institutions
($ did not come to UI but supported my research and teaching activities)

2011- 2012 Distributed graduate course in landscape genetics: Interdisciplinary, international, experiential graduate education, Melanie Murphy, Helene Wagner, Lisette Waits, American Genetics Association $20,000

2011 – 2012 CIEE Graduate Mini-Course in Landscape Genetics: Training in Interdisciplinary International Research Collaboration. H. Wagner, L. Waits, M. Murphy, N. Keyghobadi, National Science and Engineering Research Council of Canada, $19,800

2011 – 2012 Nepal Tiger Genome Project - Building Wildlife Genetics Capacity for Tiger Conservation in Nepal. Dibesh Karmacharya (CMD-Nepal), Kanchan Thapa (CMD-Nepal), Marcella Kelly (VT), L Waits. USAID, $282,865.

2008 – 2010 Distributed Graduate Seminar in Landscape Genetics. National Center for Ecological Analysis and Synthesis (NCEAS) with H. Wagner (U of Toronto) $40,000

Contracts

2011 Genetic analysis of golden eagles $6428, Aquilla Environmental
2011 Genetic assessment of W. Virginia coyotes, $1450, USDA
2011 Sage Grouse Pellet Individual ID $630, Environmental Consulting CA
2011 – 2012 Cougar and bobcat fecal DNA analysis, Oregon Fish and Wildlife $12,000
2011 Species and Individual ID of carnivore hair samples, Alaska Fish and Game, $830
2011 Genetic analysis of wolves, Oregon Department of Fish and Game, $1150
2011 Fecal DNA monitoring of pygmy rabbits, Idaho Fish and Game Pocatello $4400
2010 Genetic analysis of water samples to detect amphibians, $1270, USGS Boise
2010 - 2011 Beaver sex identification $2940, Forest Service
2010 – 2012 Predator prey dynamics in Newfoundland, Newfoundland Government $46,700
2010 – 2011 Bighorn sheep population genetics $15,000, Idaho Fish and Game
2010 Genetic analysis of gray wolf feces, $8522, Idaho Fish And Game
2010 Genetic analysis of Idaho Giant Salamander $1700, Idaho Fish and Game
2010 Genetic analysis of New Mexico Black bears, $3000, Virginia Tech
2010 – 2011 Paternity Analysis of Shackleford Island Horses, National Park Service $8650
2009 – 2011 Chytrid fungus monitoring and landscape genetics of Idaho Giant Salamanders in the Clearwater National Forest, US Forest Service, $44,000
2009 – 2012 Predator monitoring in Newfoundland, Safari Club, $165,000
2009 – 2011 Fecal DNA analysis of felids of Belize, Virginia Tech, $23,000 ($8,000 2011)
2009 – 2011 Idaho Tiger Beetle systematics, Idaho Fish and Game, $20,000
2009 – 2011 Chytrid fungus monitoring and landscape genetics of Idaho Giant Salamanders in the Clearwater National Forest, US Forest Service, $44,000
2008 – 2011 Red wolf genetic analysis $165,500
2007 - 2011 Pygmy Rabbit Fecal DNA Identification project, Idaho Fish and Game, $45,000
2007 – 2011 Fecal DNA Monitoring of Idaho Gray Wolves, Nez Perce Tribe and IDFG $70,600
2007 Coyote genetic analysis, Utah State-USGS - $5700
2006 – 2008 Conservation genetics of red wolves, USFWS, $97,260
2006 – 2007 Species and Individual ID of snow leopard scats, Snow Leopard Trust $13,500
2005 - 2006 Mongolian Gazelle and Grey Wolf Genetics – WCS $12,000
2005 – 2006 Wildlife Conservation Society carnivore detection project $10,000
2003 – 2009 Non-invasive genetic sampling Italian brown bears $70,500
2002 – 2005 Non-invasive Sampling and genetics of Red wolf, USFWS, $135,000
2002 – 2004 Paternity study Montana Cougars, Montana Fish and Game $20,000
2002, - 2005 Black Bear and cougar Individual ID from Hair and feces, IDFG, $45,000
2001 – 2002 Paternity study of Alaska brown bears, LGL environmental consulting $6,000
2001 - 2004, Non-invasive genetic sampling in the Grand Canyon, US Park Service, $7,000
2001 - 2002 Species ID of bear scats from Montana, Montana Fish and Game, $5000
2001 – 2002, DNA analysis of bear hair samples, Gerry Wright, Univ. Idaho, $28,000
2001 - 2002 Gene flow in Montana Wolverines, Montana Fish and Wildlife $10,500
1999 – 2001, Red wolf genetics, US Fish and Wildlife Service, $79,000
1999 – 2000, Genetic analysis bear hair samples British Columbia, LGL, $15,000
1999 - 2000 Population estimation of Minnesota black bears, Univ. of Minnesota, $20,000
1999 - 2000 Genetic identification Montana black bears, Montana Fish and Game $4000
1999 – 2000 Individual ID and gene flow of brown bears in the Gobi desert, WCS, $3000
1999 Identifying Carnivore species at Moose Kill Sites, Alaska Fish and Game, $2000
1998 – 2002 Genetic ID hair samples, Yellowstone Grizzly Foundation/Interagency Grizzly Bear Study Team, $60,000
1998 – 2002 Using DNA to monitor grizzly bear population trends in Glacier Park with US Geological Survey/Biological Research Division, $386,000
1998, Forensic individual identification of bear scat and hair samples from a human predation event in Glacier National Park, Glacier National Park, $2,000

Consulting

Expert witness on Great Lakes Wolf Delisting – retained by BIRCH, HORTON, BITTNER AND CHEROT paid by the U.S. Sportsmen's Alliance Foundation ("USSAF") and Wisconsin Bear Hunters Association $8731

Honors and Awards:

2001 Best Paper/Oral Presentation International Bear Association Meeting (with 3 co-authors)
2002 Best Poster – International Bear Association Meeting (with 3 co-authors)
2003 Outstanding Research Award, College of Natural Resources
2004 Outstanding Research Award, College of Natural Resources
2005 Teaching Excellence Award, University of Idaho
2005 Publication of the year for USGS National Wildlife Research Center (with 3 coauthors)
2005 Best Oral Presentation International Bear Association Meeting, Italy
2006 Alumni Award for Excellence, University of Idaho
2006 Research Excellence Award, University of Idaho
2006 Publication of the year for USGS National Wildlife Research Center (with 3 coauthors).
2007 Environmental Science Faculty Excellence Award
2009 Best professional presentation, Idaho Chapter of the Wildlife Society
2009 Alumni Award for Excellence, University of Idaho
2010 Donald Crawford, Graduate Mentoring Award, University of Idaho
2010 Alumni Award for Excellence, University of Idaho
2011 Excellence in Interdisciplinary Research Team Award, University of Idaho
2012 Mid Career Excellence Award, University of Idaho

SERVICE:

Major Committee Assignments:

University level

2010 – 2012 Member of Selection Committee for UI Distinguished University Professor
2011 Athena Scholarship Committee
2009 – 2011 Research Council
2009 – 2010 Search Committee for Dean of College of Natural Resources
2008 Facilitated UI leadership retreat organized by the Provost
2006 - 2007 UI Strategic Implementation Team for Research
2006 - 2007 Search Committee VP for Research
2005 - 2006 President's Blue Ribbon Panel
2002 – present, NSF-IGERT program steering committee
2000 – 2003 International Affairs
2000 – 2004 Graduate Council
1998 – 2001 Animal Care and Use Committee

College Level

2007 – 2010 Ecology and Conservation Biology Petitions Committee
2007 – 2009 Chair PhD Assessment and Outcomes Committee
2000 – 2005 Curriculum Committee
2000 Department Head Review Committee
1998 – 1999 Conservation Biology Undergraduate Curriculum Development Committee
1999 – 2001 Co-Led Undergraduate Program in Natural Resources Ecology and Conservation Biology
1998 CNR Lab Space Committee

Departmental
2011 Chair of 3rd Year Review Committee
2008 Third year review committee
2007 Tenure and promotion committee
2006 Tenure and Promotion committee
2004 Department Head selection committee
2004 Tenure and Promotion Committee
2004 3rd Year Review Committee
2001 – present NRECB Curriculum Committee
2001 – 2003 NRECB club advisor
1999 Departmental Tenure Review Committee
1998 – 1999 3 year Review Committee

Professional and Scholarly Organizations
Society of Molecular Biology and Evolution 1999 – 2003
American Genetic Society 2011 – present
American Association for the Advancement of Science 2012
Sigma Xi 2011 - present
Society of Conservation Biology 1996 - present
International Association for Bear Research and Management 1995 – present
Wildlife Society – 1999 – present
International and US Association of Landscape Ecologists 2007 - present

Outreach Service:
2010 Friends of Clearwater Talk on Wolverines
2008 Guest speaker for primary school Roots and Shoots environmental club
2007 Organized and led science day at Moscow Charter School
2007 Participated in women in science seminar at Moscow High School
2003 Hosted 2 Legislator visits to my lab thru the EPSCOR program
2002 Hosted 1 legislator in my lab thru the EPSCOR program
2001 Interview was recorded and used by National Public Radio as part of NSF DNA files series
1999 Women in Natural Resources workshop for junior high girls

Appointed Professional Service
2009-2011 NCEAS working group on Landscape Genetics
2007 Global Environmental Change Associate Professor External Search Committee Member, Uppsala University, Sweden
2007 NSF review panel Evolutionary Biology
2005 – 2006, Associate Editor, Journal of Wildlife Management
2004 – 2011, Associate Editor Wildlife Biology
2003 – present, Associate Editor Molecular Ecology
2003 – 2006, Mexican Wolf Recovery Team
2001 – 2004, Washington Pygmy Rabbit Scientific Advisory Board
2001 NSF review panel for Doctoral Dissertation Improvement Grants
2000 – 2009, Wildlife Society Working Group on Ecosystem Management
1999 NSF review panel for Major Research Instrumentation Grants
1999 – 2001 International Union for Conservation of Nature (IUCN) bear specialist group
1999 – present, Red Wolf Recovery Implementation Team for USFWS

Professional Reviews for grants and manuscripts

Animal Conservation, Australian Journal of Zoology, Conservation Biology, Conservation Genetics, Evolution, Journal of Applied Ecology, Journal of Heredity, Journal of Mammalogy, Journal of Wildlife Management, Journal of Zoology, Landscape Ecology, Molecular Biology and Evolution, Molecular Ecology, Molecular Phylogenetics and Evolution, Nature, Northwest Science, NSF Ecology Panel, NSF Population Biology Panel, Proceedings of the Royal Society London, Proceedings of National Academy of Sciences, Science, Ursus, Wildlife Research

PROFESSIONAL DEVELOPMENT:

Teaching and Advising:

2002 Workshop on Teaching Conservation Biology, Canterbury England
2000 Natural Resources in Education Conference, Columbia
1999 Advising Workshop, U of I
1998, 1999 Writing Across the Curriculum, U of I
1998 Natural Resources Education Conference, Logan, Utah
1998 Attended University of Idaho Teaching Course