Cottonwood Group Literature Review (1978-2012)

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$1 \quad 2012$

- Ferrier, SM, RK Bangert, E Hersch-Green, JK Bailey, GJ Allan and TG Whitham. 2012. Unique arthropod communities on different host-plant genotypes results in greater arthropod diversity. Arthropod-Plant Interactions In Press:0-0. abstract.
- Meneses N, JK Bailey, GJ Allan, RK Bangert, MA Bowker, B Rehill, GM Wimp, RL Lindroth, and TG Whitham. 2012. Arthropod community similarity in clonal stands of aspen: A test of the genetic similarity rule. ÃĽcoscience 19:48-58. abstract. fulltext PDF.

- Adams, R.I.; S. Goldberry; T.G. Whitham; M.S. Zinkgraf and R. Dirzo. 2011.
 Hybridization among dominant tree species correlates positively with understory plant diversity. American Journal of Botany 98:1623-1632. abstract.
 This article is also available online.
- Compson, Z.G.; K.C. Larson; M.S. Zinkgraf and T.G. Whitham. 2011. A genetic basis for the manipulation of sink-source relationships by the galling aphid, Pemphigus betae.. Oecologia 167:711-721. abstract. fulltext PDF.

- David Solance Smith, Jen Schweitzer, Philip Turk, Joe Bailey, Stephen Shuster and Thomas Whitham. 2011. Soil-mediated local adaptation alters seedling survival and performance. Plant and Soil. Plant and Soil in pressabstract.
- David Solance Smith, Joseph K. Bailey, Stephen M. Shuster and Thomas G. Whitham. 2011. A geographic mosaic of trophic interactions and selection: trees, aphids and birds.. Journal of Evolutionary Biology 24:422-429. abstract. fulltext PDF.
- L.J. Lamit, T. Wojtowicz, Z. Kovacs, S.C. Wooley, M. Zinkgraf, T.G. Whitham,
 R.L. Lindroth, and C.A. Gehring. 2011. Hybridization among foundation tree
 species influences the structure of associated understory plant communities.
 Botany 89:165-174. abstract. fulltext PDF.
- LAMIT, L.J., M.A. BOWKER, L.M. HOLESKI, R. Reese NÃĘSBORG, S.C. WOOLEY, M. ZINKGRAF, R.L. LINDROTH, T.G. WHITHAM, C.A. GEHRING. 2011. Genetically-based trait variation within a foundation tree species influences a dominant bark lichen. Fungal Ecology 4:103-106. abstract. fulltext PDF.
- Wymore, A.S., Keeley, A.T.H., Yturralde, K.M., Schroer, M.L., Propper, C.R. and Whitham, T.G.. 2011. Genes to ecosystems: exploring the frontiers of ecology with one of the smallest biological units. New Phytologist 191:19-36. abstract. fulltext PDF.

- Arnold, A.E., Lamit, L.J., Gehring, C.A., Bidartondo, M.I., Callahan, H..
 2010. Interwoven branches of the plant and fungal trees of life. New Phytologist 185:874-878. fulltext PDF.
- Keith, A.R.; Bailey, J.K. and T.G. Whitham. 2010. A genetic basis to community repeatability and stability. Ecology 91:3398-3406. abstract. fulltext PDF.
- Lau, M.K., Whitham, T.G., Lamit, L.J., Johnson, N.C.. 2010. Ecological and
 evolutionary interaction network exploration: addressing the complexity of biological interactions in natural systems with community genetics and statistics.
 Journal of integrated field science 7:17-25. fulltext PDF.
- Whitham TG, CA Gehring, LM Evans, CJ LeRoy, RK Bangert, JA Schweitzer, GJ Allan, RC Barbour, DG Fischer, BM Potts, and JK Bailey. 2010. A Community and Ecosystem Genetics Approach for Conservation Biology and Management. In: Molecular Approaches in Natural Resource Conservation and Management (JA DeWoody, JW Bickham, C Michler, K Nichols, G Rhodes, and K Woeste, eds.). Cambridge University Press: 50-70.

4 2009

 Holeski, L.M., M.J.C. Kearsley, and T.G. Whitham. 2009. Separating ontogenetic and environmental variation in resistance to herbivory in cottonwood. Ecology 90:2969-2973. fulltext PDF. Lojewski, N.R., D.G. Fischer, J.K. Bailey, J.A. Schweitzer, T.G. Whitham and S.C. Hart. 2009. Genetic basis of aboveground productivity in two native Populus species and their hybrids. Tree Physiology 29:1133âĂŞ1142. abstract. fulltext PDF.

- Bailey, J.K.; Schweitzer, J.A.; Ubeda1, F.; Koricheva, J.; LeRoy, C.J.; Madritch, M.D.; Rehill, B.J.; Bangert, R.K.; Fischer, D.G.; Allan G.J. and T.G. Whitham.
 2008. From genes to ecosystems: a synthesis of the effects of plant genetic factors across levels of organization. Phil. Trans. R. Soc. B abstract. fulltext PDF.
- Bangert R. K., E. V. Lonsdorf, G. M. Wimp, S. M. Shuster, D. Fischer, J. A. Schweitzer, G. J. Allan, J. K. Bailey, and T. G. Whitham. 2008. Genetic structure of a foundation species: scaling community phenotypes from the individual to the region. Heredity 100:121-131.
- Evans, L.M., G.J. Allan, S.M. Shuster, S.A. Woolbright and T.G. Whitham.
 2008. Tree Hybridization and Genotypic Variation Drive Cryptic Speciation of a Specialized Mite Herbivore. Evolution 62:3027-3040. abstract. fulltext PDF.
- Schweitzer, J. A.; J. K. Bailey; D. G. Fischer; C. J. LeRoy; E. V. Lonsdorf; T. G. Whitham and S. C. Hart. 2008. Soil microorganism-plant interactions: A heritable relationship between plant genotype and associated soil microorganisms. Ecology 89(3):773-781. abstract. fulltext PDF.
- Schweitzer, J.A.; Madritch, M.D.; Bailey, J.K.; LeRoy, C.J.; Fischer, D.G.;

- Rehill, B.J.; Lindroth, R.L.; Hagerman, A.E.; Wooley, S.C.; Hart, S.C. and T.G. Whitham. 2008. From Genes to Ecosystems: The Genetic Basis of Condensed Tannins and Their Role in Nutrient Regulation in a Populus Model System. Ecosystems 11:1005âĂŞ1020. abstract. fulltext PDF.
- Whitham, T.G.; S.P. DiFazio; J.A. Schweitzer; S.M. Shuster; G.J. Allan; J.K. Bailey and S.A. Woolbright. 2008. Extending Genomics to Natural Communities and Ecosystems. Science 320:492-495. abstract. This article is also available online.
- Woolbright, S. A.; S. P. DiFazio; T. Yin; G. D. Martinsen; X. Zhang; G. J. Allan, T. G. Whitham; and P. Keim.. 2008. A dense linkage map of hybrid cottonwood (Populus fremontii x P. angustifolia) contributes to long-term ecological research and comparison mapping in a model forest tree.. Heredity 100:59-70. abstract. fulltext PDF. This article is also available online.
- Yin, T.-M.; S.P. DiFazio, L.E. Gunter, X. Zhang, M.M. Sewell, S.A. Woolbright, G.J. Allan, C.T. Kelleher, C.J. Douglas, M.-X. Wang, G.A. Tuskan.
 2008. Genome Structure and emerging evidence of an incipient sex chromosome in Populus. Genome Research 18:422-430. abstract.

Bailey, J. K.; J. A. Schweitzer; B. J. Rehill; D. J. Irschick; T. G. Whitham and R. L. Lindroth. 2007. Rapid shifts in the chemical composition of aspen forests: An introduced herbivore as an agent of natural selection. Biological Invasions 9:715-722. abstract. fulltext PDF.

- Bangert, RK, and TG Whitham. 2007. Genetic assembly rules and community phenotypes. Evolutionary Ecology 21:549-560.
- Fischer, D. G.; S. C. Hart; C. J. LeRoy and T. G. Whitham. 2007. Variation in belowground carbon fluxes along a Populus hybridization gradient. New Phytologist 176:415-425. abstract. fulltext PDF.
- LeRoy, C. J.; T. G. Whitham; S. C. Wooley and J. C. Marks. 2007. Within-species variation in foliar chemistry influences aquatic leaf litter decomposition.
 Journal of the North American Benthological Society 26(3):426-438. abstract.
 fulltext PDF.
- Schweitzer JA, JK Bailey, RK Bangert, SC Hart and TG Whitham. 2007. The
 role of plant genetic variation in determining above- and belowground microbial
 communities. In: Microbial Ecology of Arial Plant Surfaces, Bailey MJ, Lilley
 AK, Timms-Wilson TM and Spencer-Phillips PTN (eds). CABI Publishing
 :109-119.
- Wimp, G.M., S. Wooley, R. K. Bangert, W. P. Young, G. D. Martinsen, P. Keim, R. L. Lindroth, and T. G. Whitham. 2007. Plant genetics predicts intra-annual variation in phytochemistry and arthropod community structure. Molecular Ecology 16:5057âÅŞ5069. abstract. fulltext PDF.

Bailey, J. K.; S. C. Wooley; R. L. Lindroth and T. G. Whitham. 2006.
 Importance of species interactions to community heritability: a genetic basis to trophic-level interactions. Ecology Letters 9:78-85. abstract. fulltext PDF.

- Bangert, RK, GJ Allan, RJ Turek, GM Wimp, N Meneses, GD Martinsen,
 P Keim, and TG Whitham. 2006. From genes to geography: a genetic similarity rule for arthropod community structure at multiple geographic scales.
 Molecular Ecology 15:4215-4228.
- Bangert, RK, RJ Turek, B Rehill, GM Wimp, JA Schweitzer, GJ Allan, JK Bailey, GD Martinsen, P Keim, RL Lindroth, and TG Whitham. 2006. A genetic similarity rule determines arthropod community structure. Molecular Ecology 15:1379-1392.
- Classen, A.T.; J. DeMarco; S.C. Hart; T. G. Whitham; N. S. Cobb and G. W. Koch. 2006. Impacts of herbivorous insects on decomposer communities during the early stages of primary succession in a semi-arid woodland. Soil Biology and Biochemistry 38:972-982. abstract. fulltext PDF.
- Fischer, D.G., S.C. Hart, B.J. Rehill, R.L. Lindroth, P. Keim and T.G. Whitham. 2006. Do high-tannin leaves require more roots?. Oecologia 149:668-675. abstract. fulltext PDF.
- Gehring, C. A., Mueller, R. C. and T. G. Whitham. 2006. Environmental and genetic effects on the formation of ectomycorrhizal and arbuscular mycorrhizal associations in cottonwoods. Oecologia 149:158-164. fulltext PDF.
- Gitlin, A.R., Sthultz, C.M., Bowker, M.A., Stumpf, S., Paxton, K.L., Kennedy, K., Munoz, A., Bailey, J.K., and T.G. Whitham. 2006. Mortality gradients within and among dominant plant populations as barometers of ecosysetm change during extreme drought.. Conservation Biology 20:1477-1486. abstract. fulltext PDF.

- LeRoy, C. J.; T. G. Whitham; P. Keim and J. C. Marks. 2006. Plant genes link forests and streams. Ecology 87:255-261. abstract. fulltext PDF.
- LeRoy, C.J. and J. C. Marks. 2006. Litter quality, stream characteristics and litter diversity influence decomposition rates and macroinvertebrates. Freshwater Biology 51:605-617. abstract. fulltext PDF.
- Muller, M.S.; McWilliams, S.R.; Podlesak, D.; Donaldson, J.R.; Bothwell, H.M.; Lindroth, R.L.. 2006. Tri-trophic effects of plant defenses: chickadees consume caterpillars based on host leaf chemistry. Oikos 114:507-517. abstract. fulltext PDF.
- Rehill, B.; T.G. Whitham; G.D. Martinsen; J.A. Schweitzer; J.K. Bailey and R.L. Lindroth. 2006. Developmental trajectories in cottonwood phytochemistry. Journal of Chemical Ecology 32:2269-2285. abstract. fulltext PDF.
- Shuster, S. M.; E. V. Lonsdorf; G. M. Wimp; J. K. Bailey and T. G. Whitham. 2006. Community heritability measures the evolutionary consequences of indirect genetic effects on community structure. Evolution 60:991-1003. abstract. fulltext PDF.
- Whitham, T. G.; J. K. Bailey; J. A. Schweitzer; S. M. Shuster; R. K. Bangert;
 C. J. LeRoy; E. V. Lonsdorf; G. J. Allan; S. P. DiFazio; B. M. Potts; D. G. Fischer; C. A. Gehring; R. L. Lindroth; J. C. Marks; S. C. Hart; G. M. Wimp and S. C. Wooley. 2006. A framework for community and ecosystem genetics: from genes to ecosystems. Nature Reviews Genetics 7:510 523. abstract. fulltext PDF.

- Bangert, RK, RJ Turek, GD Martinsen, GM Wimp, JK Bailey, and TG Whitham. 2005. Conservation of plant genetic diversity benefits arthropod diversity. Conservation Biology 19:379-390.
- Classen, A. T.; S. C. Hart; T. G. Whitman; N. S. Cobb and G. W. Koch. 2005.
 Insect infestations linked to shifts in microclimate: Important climate change implications. Soil Science Society of America 69:2049-2057. abstract. fulltext PDF.
- Cox, G.; D.G. Fischer; S.C. Hart; and T.G. Whitham. 2005. Nonresponse of native cottonwood trees to water additions during summer drought. Western North American Naturalist 65:175-185. abstract. fulltext PDF.
- Rehill, B.; A. Clauss; L. Wieczorek; T. Whitham and R. Lindroth. 2005. Foliar phenolic glycosides from Populus fremontii, Populus angustifolia, and their hybrids. Biochemical Systematics and Ecology 33:125-131. abstract. fulltext PDF.
- Schweitzer, J. A.; J. K. Bailey and S. C. Hart. 2005. Synergistic effects of plant genotype and herbivory alter litter decomposition and nutrient flux. Ecology
- Schweitzer, J. A.; J. K. Bailey; S. C. Hart; G. M. Wimp; S. K. Chapman and T. G. Whitham. 2005. The interaction of plant genotype and herbivory decelerate leaf litter decomposition and alter nutrient dynamics. Oikos 110:133-145. abstract. fulltext PDF.
- Shuster, T. D.; N. S. Cobb; T. G. Whitham and S. C. Hart. 2005. Relative importance of environmental stress and herbivory in reducing litter fall in a

semiarid woodland. Ecosystems 8:62-72. abstract. fulltext PDF.

- Whitham, T. G.; E. Lonsdorf; J. A. Schweitzer; J. K. Bailey; D. G. Fischer; S. M. Shuster; R. L. Lindroth; S. C. Hart; G. J. Allan; C. A. Gehring; P. Keim; B. M. Potts; J. Marks; B. J. Rehill; S. P. DiFazio; C. J. LeRoy; G. M. Wimp; and S. Woolbright. 2005. "All effects of a gene on the world": extended phenotypes, feedbacks, and multi-level selection. Ecoscience 12:5-7. abstract. fulltext PDF.
- Wimp, G. M.; G. D. Martinsen; K. D. Floate; R. K. Bangert and T. G. Whitham. 2005. Plant genetic determinants of arthropod community structure and diversity. Evolution 59:61-69. abstract. fulltext PDF.

- Bailey, J. K.; J. A. Schweitzer; B. J. Rehill; R. L. Lindroth; G. D. Martinsen and T. G. Whitham. 2004. Beavers as molecular geneticists: a genetic basis to the foraging of an ecosystem engineer. Ecology 85:603-608. abstract. fulltext PDF.
- Bailey, J. K.; R. K. Bangert; J. A. Schweitzer; R. T. Trotter; S. M. Shuster and T. G. Whitham. 2004. Fractal geometry is heritable in trees. Evolution 58:2100-2102. abstract. fulltext PDF.
- Ferrier, S. M. and P. W. Price. 2004. Oviposition Preference and Larval Performance of a Rare Bud-Galling Sawfly (Hymenoptera: Tenthredinidae) on Willow in Northern Arizona. Environmental Entomology 33:700-708. abstract. fulltext PDF.

- Fischer, D. G.; S. C. Hart; T. G. Whitham; G. D. Martinsen and P. Keim. 2004. Ecosystem implications of genetic variation in water-use of a dominant riparian tree. Oecologia 139:288-297. abstract. fulltext PDF.
- Flaccus, K.; J. Vlieg; J. C. Marks and C. J. LeRoy. 2004. Restoring Fossil Creek. The Science Teacher 71:36-40. fulltext PDF.
- Floate, K. D. 2004. Extent and patterns of hybridization among the three species of Populus that constitute the riparian forest of southern Alberta, Canada. Canadian Journal of Botany 82:253-264.
- Osier, T. L. and R. L. Lindroth. 2004. Long-term effects of defoliation on quaking aspen in relation to genotype and nutrient availability: plant growth, phytochemistry and insect performance. Oecologia 139:55-65. abstract.
- Price, P.W.; T. Ohgushi; H. Roininen; M. Ishihara; T.P. Craig; J. Tahvanainen and S.M. Ferrier. 2004. Release of phylogenetic constraints through low resource heterogeneity: the case of gall-inducing sawflies. Ecological Entomology 29:467-481. abstract. fulltext PDF.
- Schweitzer, J. A.; J. K. Bailey; B. J. Rehill; G. D. Martinsen; S. C. Hart; R. L. Lindroth; P. Keim and T. G. Whitham. 2004. Genetically based trait in a dominant tree affects ecosystem processes. Ecology Letters 7:127-134. abstract. fulltext PDF.
- Wimp, G. M.; W. P. Young; S. A. Woolbright; G. D. Martinsen; P. Keim and T. G. Whitham. 2004. Conserving plant genetic diversity for dependent animal communities. Ecology Letters 7:776-780. abstract. fulltext PDF.

- Bailey, J. K. and T. G. Whitham. 2003. Interactions among elk, aspen, galling sawflies and insectivorous birds. Oikos 101:127-134. abstract. fulltext PDF.
- Chapman, S. K.; S. C. Hart; N. S. Cobb; T. G. Whitham and G. W. Koch.
 2003. Insect herbivory increases litter quality and decomposition: an extension of the acceleration hypothesis. Ecology 84:2867-2876. abstract. fulltext PDF.
- Lawrence, R.; B. M. Potts and T. G. Whitham. 2003. Relative importance of plant ontogeny, host genetic variation, and leaf age for a common herbivore. Ecology 84:1171-1178. abstract. fulltext PDF.
- McIntyre, P. J. and T. G. Whitham. 2003. Plant genotype affects longterm herbivore population dynamics and extinction: conservation implications. Ecology 84:311-322. abstract. fulltext PDF.
- Whitham, T. G.; W. P. Young; G. D. Martinsen; C. A. Gehring; J. A. Schweitzer;
 S. M. Shuster; G. M. Wimp; D. G. Fischer; J. K. Bailey; R. L. Lindroth; S. Woolbright and C. R. Kuske. 2003. Community and ecosystem genetics: A consequence of the extended phenotype. Ecology 84:559-573. abstract. fulltext PDF.

11 2002

 Bailey, J. K. and T. G. Whitham. 2002. Interactions among fire, aspen, and elk affect insect diversity: reversal of a community response. Ecology 83:1701-1712. abstract. fulltext PDF.

- Lindroth, R. L.; S. A. Wood and B. J. Kopper. 2002. Response of quaking aspen genotypes to enriched CO2: foliar chemistry and tussock moth performance. Agricultural and Forest Entomology 4:315-323. abstract.
- Schweitzer, J. A.; G. D. Martinsen and T. G. Whitham. 2002. Cottonwood hybrids gain fitness traits of both parents: a mechanism for their long-term persistence?. American Journal of Botany 89:981-990. abstract. fulltext PDF.

$12 \quad 2001$

- Bailey, J. K.; J. A. Schweitzer and T. G. Whitham. 2001. Salt cedar negatively affects biodiversity of aquatic macroinvertebrates. Wetlands 21:442-447. abstract. fulltext PDF.
- Brown, J. H.; T. G. Whitham; S. K. Morgan Ernest and C. A. Gehring. 2001. Complex species interactions and the dynamics of ecological systems: long-term experiments. Science 293:643-650. abstract. fulltext PDF.
- Lindroth, R. L.; B. J. Kopper; W. F. J. Parsons; J. G. Bockheim; D. F. Karnosky; G. R. Hendrey; K. S. Pregitzer; J. G. Isebrands and J. Sober. 2001. Consequences of elevated carbon dioxide and ozone for foliar chemical composition and dynamics in trembling aspen (Populus tremuloides) and paper birch (Betula papyrifera). Environmental Pollution 115:395-404. abstract.
- Martinsen, G. D.; T. G. Whitham; R. J. Turek and P. Keim. 2001. Hybrid populations selectively filter gene introgression between species. Evolution 55:1325-1335. abstract. fulltext PDF.

- Osier, T. L. and R. L. Lindroth. 2001. Effects of genotype, nutrient availability, and defoliation on aspen phytochemistry and insect performance. Journal of Chemical Ecology 27:1289-1313. abstract.
- Wimp, G. M. and T. G. Whitham. 2001. Biodiversity consequences of predation and host plant hybridization on an aphid-ant mutualism. Ecology 82:440-452. abstract. fulltext PDF.

- Driebe, E. M. and T. G. Whitham. 2000. Cottonwood hybridization affects tannin and nitrogen content of leaf litter and alters decomposition. Oecologia 123:99-107. abstract. fulltext PDF.
- Dungey, H. S.; B. M. Potts; T. G. Whitham and H. F. Li. 2000. Plant genetics affects arthropod community richness and composition: evidence from a synthetic eucalypt hybrid population. Evolution 54:1938-1946. abstract. fulltext PDF.
- Martinsen, G. D.; K. D. Floate; A. M. Waltz; G. M. Wimp and T. G. Whitham.
 2000. Positive interactions between leafrollers and other arthropods enhance biodiversity on hybrid cottonwoods. Oecologia 123:82-89. abstract. fulltext PDF.
- White, J. A. and T. G. Whitham. 2000. Associational susceptibility of cottonwood to a box elder herbivore. Ecology 81:1795-1803. abstract. fulltext PDF.

- Lindroth, R. L.; S. Y. Hwang and T. L. Osier. 1999. Phytochemical variation in quaking aspen: Effects on gypsy moth susceptibility to nuclear polyhedrosis virus. Journal of Chemical Ecology 25:1331-1343. abstract.
- Whitham, T. G.; G. D. Martinsen; K. D. Floate; H. S. Dungey; B. M. Potts and P. Keim. 1999. Plant hybrid zones affect biodiversity: tools for a geneticbased understanding of community structure. Ecology 80:416-428. abstract. fulltext PDF.

- Gehring, C. A.; T. C. Theimer; T. G. Whitham and P. Keim. 1998. Ectomycorrhizal fungal community structure of pinyon pines growing in two environmental extremes. Ecology 79:1562-1572. abstract. fulltext PDF.
- Kearsley, M. J. and T. G. Whitham. 1998. The developmental stream of cottonwoods affects ramet growth and resistance to galling aphids. Ecology 79:178-191. abstract. fulltext PDF.
- Lindroth, R. L. and K. K. Kinney. 1998. Consequences of enriched atmospheric CO2 and defoliation for foliar chemistry and gypsy moth performance. Journal of Chemical Ecology 24:1677-1696. abstract.
- Martinsen, G. D.; E. M. Driebe and T. G. Whitham. 1998. Indirect interactions mediated by changing plant chemistry: beaver browsing benefits beetles.
 Ecology 79:192-200. abstract. fulltext PDF.

- Cobb, N. S.; S. Mopper; C. A. Gehring; M. Caouette; K. M. Christensen and T. G. Whitham. 1997. Increased moth herbivory associated with environmental stress of pinyon pine at local and regional levels. Oecologia 109:389-397. abstract. fulltext PDF.
- Floate, K. D.; G. D. Martinsen and T. G. Whitham. 1997. Cottonwood hybrid zones as centres of abundance for gall aphids in western North America: importance of relative habitat size. Journal of Animal Ecology 66:179-188. abstract. fulltext PDF.
- Gehring, C. A.; N. S. Cobb and T. G. Whitham. 1997. Three-way interactions among ectomycorrhizal mutualists, scale insects, and resistant and susceptible pinyon pines. American Naturalist 149:824-841. abstract. fulltext PDF.
- Larson, K. C. and T. G. Whitham. 1997. Competition between gall aphids and natural plant sinks: plant architecture affects resistance to galling. Oecologia 109:575-582. abstract. fulltext PDF.
- Lindroth, R. L.; K. A. Klein; J. D. C. Hemminen chemistry: Effects on gypsy moth performance and susceptibility to virus. Global Change Biology 3:279-289. abstract.
- Waltz, A.M. and T.G. Whitham. 1997. Plant development affects arthropod communities: opposing impacts of species removal. Ecology 78:2133-2144.
 abstract. fulltext PDF.

- Dickson, L. L. and T. G. Whitham. 1996. Genetically-based plant resistance traits affect arthropods, fungi, and birds. Oecologia 106:400-406. abstract. fulltext PDF.
- Fay, P. A.; R. W. Preszler and T. G. Whitham. 1996. The functional resource of a gall-forming adelgid. Oecologia 105:199-204. abstract. fulltext PDF.
- Floate, K. D.; G. W. Fernandes and J. A. Nilsson. 1996. Distinguishing intrapopulational categories of plants by their insect faunas: galls on rabbitbrush. Oecologia 105:221-229.

- Keim. 1995. Herbivory and tree mortality across a pinyon pine hybrid zone. Oecologia 101:29-36. abstract. fulltext PDF.
- Floate, K. D. and T. G. Whitham. 1995. Insects as traits in plant systematics: their use in discriminating between hybrid cottonwoods. Canadian Journal of Botany 73:1-13. abstract.
- Gehring, C. A. and T. G. Whitham. 1995. Duration of herbivore removal and environmental stress affect the ectomycorrhizae of pinyon pines. Ecology 76:2118-2123. abstract. fulltext PDF.

Floate, K. D. and T. G. Whitham. 1994. Aphid-ant interaction reduces. Morrow and B. M. Potts. 1994. Plant hybrid zones as centers of biodiversity: the herbivore community of two endemic Tasmanian eucalypts. Oecologia 97:481-490. abstract. fulltext PDF.

- Christensen K. M. and T. G. Whitham. 1993. Impact of insect herbivores on competition between birds and mammals for pinyon pine seeds. Ecology 74:2270-2278. abstract. fulltext PDF.
- Floate K. D. and T. G. Whitham. 1993. The hybrid bridge hypothesis: host shifting via plant hybrid swarms. American Naturalist 141:651-662. fulltext PDF.
- Floate, K. D.; M. J. C. Kearsley and T. G. Whitham. 1993. Elevated herbivory in plant hybrid zones: Chrysomela confluens, Populus and phenological sinks. Ecology 74:2056-2065. abstract. fulltext PDF.
- Lindroth, R. L.; P. B. Reich; M. G. Tjoelker; J. C. Volin and J. Oleksyn.
 1993. Light environment alters response to ozone stress in seedlings of Acer saccharum Marsh. and hybrid Populus L. III. Consequences for performance of gypsy moth. New Phytologist 124:647-651. abstract.

- Gehring, C. A. and T. G. Whitham. 1992. Reduced mycorrhizae on Juniperus monosperma with mistletoe: the influence of environmental stress and tree gender on a plant parasite and a plant-fungal mutualism. Oecologia 89:298-303. abstract. fulltext PDF.
- Kearsley, M. J. C. and T. G. Whitham. 1992. Guns and butter: A no cost defense against predation for Chrysomela confluens. Oecologia 92:556-562. abstract. fulltext PDF.
- Mopper, S. and T. G. Whitham. 1992. The plant stress paradox: effects on pinyon sawfly sex ratios and fecundity. Ecology 73:515-525. abstract. fulltext PDF.

- Christensen, K. M. and T. G. Whitham. 1991. Indirect herbivore mediation of avian seed dispersal in pinyon pine. Ecology 72:534-542. abstract. fmycorrhizal mutualism in insect-susceptible pinyon pine. Nature 353:556-557. abstract. fulltext PDF.
- Larson, K. C. and T. G. Whitham. 1991. Manipulation of food resources by a gall-forming aphid: the physiology of sink-source interactions. Oecologia 88:15-21. abstract. fulltext PDF.
- Lindroth, R. L.. 1991. Biochemical ecology of aspen-Lepidoptera interactions. Journal of the Kansas Entomological Society 64:372-380. abstract.

- Lindroth, R. L. and A. V. Weisbrod. 1991. Genetic variation in response of the gypsy moth to aspen phenolic glycosides. Biochemical Systematics and Ecology 19:97-103. abstract.
- Lindroth, R. L. and M. S. Bloomer. 1991. Biochemical ecology of the forest tent caterpillar: Responses to dietary protein and phenolic glyract.
- Mopper, S.; J. B. Mitton; T. G. Whitham; N. S. Cobb and K. M. Christensen.
 1991. Genetic differentiation and heterozygosity in pinyon pine associated with resistance to herbivory and environmental stress. Evolution 45:989-999. abstract. fulltext PDF.

- Fay, P. A. and T. G. Whitham. 1990. Within-plant distribution of a galling adelgid (Homoptera: Adelgidae): the consequences of conflicting survivorship, growth, and reproduction. Ecological Entomology 15:245-254. abstract.
- Lindroth, R. L. and J. D. C. Hemming. 1990. Responses of the gypsy moth (Lepidoptera: Lymantriidae) to tremulacin, an aspen phenolic glycoside. Environmental Entomology 19:842-847. abstract.
- Lindroth, a shortgrass prairie community. Oecologia 83:132-138. abstract. fulltext PDF.
- Mopper, S.; T. G. Whitham and P. W. Price. 1990. Plant phenotype and interspecific competition between insects determine sawfly performance and density. Ecology 71:2135-2144. abstract. fulltext PDF.

- Moran, N. A. and T. G. Whitham. 1990. Interspecific competition between root-feeding and leaf-galling aphids mediated by host-plant resistance. Ecology 71:1050-1058. abstract. fulltext PDF.
- Moran, N. A. and T. G. Whitham. 1990. Differential colonization of resistant and susceptible host plants: Pemphigus and Populus. Ecology 71:1059-1067. abstract. fulltext PDF.

- Kearsley, M. J. and T. G. Whitham. 1989. Developmental changes in resistance to herbivory: implications for individuals and populations. Ecology 70:422-434.
 abstract. fulltext PDF.
- Maschinski, J. and T. G. Whitham. 1989. The continuum of plant responses to herbivory: the influence of plant association, nutrient availability, and timing.
 American Naturalist 134:1-19. abstract. fulltext PDF.
- Whitham, T. G.. 1989. Plant hybrid zones as sinks for pests. Science 244:1490-1493. fulltext PDF.

25 1988

Moran, N. A. and T. G. Whitham. 1988. Population fluctuations in complex life cycles: an example from Pemphigus aphids. Ecology 69:1214-1218. abstract. fulltext PDF.

- Paige, K. N. and T. G. Whitham. 1987. Flexible life history traits: Shifts by scarlet gilia in response to pollinator abundance. Ecology 68:1691-1695.
 abstract. fulltext PDF.
- Paige, K. N. and T. G. Whitham. 1987. Overcompensation in response to mammalian herbivory: The advantage of being eaten. American Naturalist 129:407-416. abstract. fulltext PDF.
- Whitham, T. G.. 1987. Evolution of territoriality by herbivores in response to host plant defenses. American Zoologist 27:359-369. abstract.

27 1986

- Whitham, T. G.. 1986. Costs and benefits of territoriality: behavioral and reproductive release by competing aphids. Ecology 67:139-147. abstract. fulltext PDF.
- Williams, A. G. and T. G. Whitham. 1986. Premature leaf abcission: an induced plant defense against gall aphids. Ecology 67:1619-1627. fulltext PDF.

28 1985

• Whitham, T. G. and S. Mopper. 1985. Chronic herbivory: impacts on architecture and sex expression of pinyon pine. Science 228:1089-1090. abstract. fulltext PDF.

• Whitham, T. G.. 1980. The theory of habitat selection: examined and extended using Phemphigus aphids. The American Naturalist 115:4

30 1978

• Whitham, T. G.. 1978. Habitat selection by Pemphigus aphids in a response to resource limitation and competition. Ecology 59:1164-1176. fulltext PDF.