

List of Publications Acknowledging the use of BYU's Lytle Preserve

2010

- Allmann, S., and I.T. Baldwin. 2010. Insects betray themselves in nature to predators by rapid isomerization of green leaf volatiles. **Science** 329:1075–1078.
- Hartl, M., A.P. Giri, H. Kaur, and I.T. Baldwin. 2010. Serine protease inhibitors specifically defend *Solanum nigrum* against generalist herbivores but do not influence plant growth and development. **Plant Cell** [advance online publication, 21 December 2010]. doi:10.1105/tpc.109.073395

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- Berger, B., and I.T. Baldwin. 2009. Silencing the hydroxyproline-rich glycopeptide systemin precursor in two accessions of *Nicotiana attenuata* alters flower morphology and rates of self pollination. **Plant Physiology**. doi:10.1104/pp.108.132928
- Körner, E., C. von Dahl, G. Bonaventure, and I.T. Baldwin. 2009. Pectin methylesterase NaPME1 controls the emission of methanol during insect herbivory and contributes to the elicitation of defence responses in *Nicotiana attenuata*. **Journal of Experimental Botany**. doi:10.1093/jxb/erp106
- Meldau, S., J. Wu, and I.T. Baldwin. 2009. Silencing two herbivory-activated MAP kinases, SIPK and WIPK, does not increase *Nicotiana attenuata*'s susceptibility to herbivores in the glasshouse and in nature. **New Phytologist** 181:161–173.
- Sanford, M.P., and Nancy Huntly. 2009. Selective herbivory by the desert woodrat (*Neotoma lepida*) on Joshua trees (*Yucca brevifolia*). **Western North American Naturalist** 69(2):165–170.
- Schwaner, T.D., and B.K. Sullivan. 2009. Fifty years of hybridization:introgression between the Arizona toad (*Bufo microscaphus*) and Woodhouse's toad (*B. woodhousii*) along Beaver Dam Wash in Utah. **Herpetological Conservation and Biology** 4(2):198–206.
- Stork, W., C. Diezel, R. Halitschke, I. Gális, and I.T. Baldwin. 2009. An ecological analysis of the herbivory-elicited JA burst and its metabolism: Plant memory processes and predictions of the moving target model. **PlosOne** 4(3):e4697.

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- Halitschkel, R., J.A. Stenberg, D. Kessler, A. Kessler, I.T. Baldwin. 2008. Shared signals-'alarm calls' from plants increase apparency to herbivores and their enemies in nature. **Ecology Letters** 11(1):24–34. doi:10.1111/j.1461-0248.2007.01123.x
- Kessler, D., K. Gase, and I.T. Baldwin 2008. Field experiments with transformed plants reveal the sense of floral scents. **Science** 321:1200–1202.
- Mitra, S., and I.T. Baldwin. 2008. Independent silencing of two photosynthetic proteins in *Nicotiana attenuata* has different effects on herbivore resistance **Plant Physiology** 148:1128–1138.
- Pandey, S., and I.T. Baldwin. 2008. Silencing RNA-directed RNA polymerase 2 (RdR2) increases *Nicotiana attenuata*'s susceptibility to UV in the field and in the glasshouse **The Plant Journal** 54:845–862.
- Pandey, S., E. Gaquerel, K. Gase, and I.T. Baldwin. 2008. RNA-directed RNA polymerase (RdR) 3 from *Nicotiana attenuata* is required for competitive growth in natural environments. **Plant Physiology** 147:1212–1224.

- Paschold, A., G. Bonaventure, M. Kant, and I.T. Baldwin. 2008. Jasmonate perception regulates jasmonate biosynthesis and JA-Ile metabolism: the case of COI1 in *Nicotiana attenuata*. **Plant and Cell Physiology** 49:1165–1175.
- Rayapuram, C., and I.T. Baldwin. 2008. Host-plant-mediated effects of Nadeffensin on herbivore and pathogen resistance in *Nicotiana attenuata*. **Plant Biology** 8:109.
- Rayapuram, C., J. Wu, C. Haas, and I.T. Baldwin. 2008. PR-13/Thionin not PR-1 mediates bacterial resistance in *Nicotiana attenuata* in nature and neither influences herbivore resistance. **Molecular Plant-Microbe Interactions** 21:988–1000.
- Skibbe, M., N. Qu, I. Gális, and I.T. Baldwin. 2008. Induced plant defenses in the natural environment: *Nicotiana attenuata*'s WRKY3 and WRKY6 coordinate responses to herbivory. **The Plant Cell** 20:1984–2000.
- Steppuhn, A., M.C. Schuman, and I.T. Baldwin. 2008. Silencing jasmonate (JA) signaling and JA-mediated defenses reveals different survival strategies between two *Nicotiana attenuata* accessions. **Molecular Ecology** 17:3717–3732.

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- Barazani, O., C.C. von Dahl, and I.T. Baldwin 2007. *Sebacina vermifera* promotes the growth and fitness of *Nicotiana attenuata* by inhibiting ethylene signalling. **Plant Physiology** 144:1223–1232.
- Berger, B., and I.T. Baldwin. 2007. The hydroxyproline-rich glycopeptide systemin precursor NapreproHypSys does not play a central role in *Nicotiana attenuata*'s anti-herbivore defense responses. **Plant, Cell and Environment** 30:1450–1464.
- Kessler, D., and I.T. Baldwin. 2007. Making sense of nectar scents: the effects of nectar secondary metabolites on floral visitors of *Nicotiana attenuata*. **The Plant Journal** 49:840–854.
- Rayapuram, C., and I.T. Baldwin. 2007. Increased SA in *NPRI*-silenced plants antagonizes JA and JA-dependent direct and indirect defenses in herbivore-attacked *Nicotiana attenuata* in nature. **The Plant Journal** 52:700–715.
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- Kessler, A., R. Halitschke, C. Diezel, and I.T. Baldwin. 2006. Priming of plant defense responses in nature by airborne signaling between *Artemisia tridentata* and *Nicotiana attenuata*. **Oecologia** 148: 280–292.

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- Kessler, A., and I.T. Baldwin. 2004. Herbivore-induced plant vaccination I: The orchestration of plant defenses in nature and their fitness consequences in the wild tobacco *Nicotiana attenuata*. **The Plant Journal** 38:639–649.
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- Keßler, A., and I.T. Baldwin. 2002. *Manduca quinquemaculata*'s optimization of intra-plant oviposition to predation, food quality, and thermal constraints. **Ecology** 83:2346–2354
- Preston, C.A., H. Betts, and I.T. Baldwin. 2002. Methyl jasmonate as an allelopathic agent: Sagebrush inhibits germination of a neighboring tobacco, *Nicotiana attenuata*. **Journal of Chemical Ecology** 28:2343–2369.

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Yearsley, K.H., S.R. Rushforth, and J.R. Johansen. 1992. Diatom flora of Beaver Dam Creek, Washington County, Utah, USA. **Great Basin Naturalist** 52:131–138.