The handle http://hdl.handle.net/1887/20872 holds various files of this Leiden University dissertation.

**Author:** Lommen, Suzanne Theresia Esther  
**Title:** Exploring and exploiting natural variation in the wings of a predatory ladybird beetle for biological control  
**Issue Date:** 2013-05-16
References


Braendle C, Baer CF, Felix MA (2012) Bias and evolution of the mutationally accessible phenotypic space in a developmental system. Plos Genetics 6


Brakefield PM (1984c) Selection along clines in the ladybird *Adalia bipunctata* in The Netherlands - a general mating advantage to melanics and its consequences. Heredity 53:37-49


Brakefield PM, Willmer PG (1985) The basis of thermal melanism in the ladybird *Adalia bipunctata* - differences in reflectance and thermal properties between the morphs. Heredity 54:9-14


Campbell G, Tomlinson A (1998) The roles of the homeobox genes *aristaless* and *Distal-less* in patterning the legs and wings of *Drosophila*. Development 125:4483-4493


Falconer DS, Mackay TFC (1996) Introduction to quantitative genetics Longman Group Ltd Harlow, UK


Haldane JBS (1919) The combination of linkage values, and the calculation of distances between the loci of linked factors. J. Genet. 8:299–309
Hämäläinen M (1976) Rearing the univoltine ladybeetles, Coccinella septempunctata and Adalia bipunctata (Col., Coccinellidae), all year round in the laboratory. A.. Agric. Fenn. 15:66-71
Hammond PM (1985) Dimorphism of wings, wing-folding and wing-toiletry devices in the ladybird, Rhyzobius litura (F) (Coleoptera, Coccinellidae), with a discussion of inter-population variation in this and other wing-dimorphic beetle species. Biol. J. Linnean Soc. 24:15-33


Hodek I (1973) Biology of Coccinellidae. Dr. W. Junk N.V., The Hague


Honĕk A (1985) Habitat preferences of aphidophagous coccinellids (Coleoptera). Entomophaga 30:253-264


Hoy MA (1985) Recent advances in genetics and genetic-improvement of the Phytoseiidae. Annu. Rev. Entomol. 30:345-370


Ignoffo CM, Garcia C, Dickerson WA, Schmidt GT, Biever KD (1977) Imprisonment of entomophages to increase effectiveness - evaluation of a concept. J. Econ. Entomol. 70:292-294


Kieckhefer RW, Olson GA (1974) Dispersal of marked adult coccinellids from crops in South-Dakota. J. Econ. Entomol. 67:52-54


Lusis JJ (1961) On the biological meaning of colour polymorphism of lady-beetle *Adalia bipunctata* L. Latvijas Entomologs 4:3-29


Marple NM, Brakefield PM, Cowie RJ (1989) Differences between the seven-spot and two-spot ladybird beetles (Coccinellidae) in their toxic effects on a bird predator. Ecol. Entomol. 14:79-84


Mills NJ (1979) *Adalia bipunctata* (L.) as a generalist predator of aphids. University East Anglia, Norwich,


Peschke K (1979) Tactile orientation by mating males of the staphilinid beetle, Aleochara curtula, relative to the setal fields of the female. Phys. Entomol. 4:155-159


Quennedey A, Quennedey B (1990) Morphogenesis of the Wing Anlagen in the mealworm beetle Tenebrio molitor during the last larval instar. Tissue Cell 22:721-740


Salame L, Glazer I, Chubinishvilli MT, Chkhubianishvili T (2010) Genetic improvement of the desiccation tolerance and host-seeking ability of the entomopathogenic nematode Steinernema feltiae. Phytoparasitica 38:359-368


Smith SG (1953) Chromosome numbers of Coleoptera. Heredity 7:31-48


Timofeeff-Ressovsky NW (1940) Zur Analyse des Polymorphismus bei *Adalia bipunctata* L. Biol. Zentralblatt 60:130-137


Wratten SD (1973) Effectiveness of coccinellid beetle, Adalia bipunctata (L), as a predator of lime aphid, Eucallipterus tiliae L. J. Anim. Ecol. 42:785-802

Wratten SD (1976) Searching by Adalia bipunctata L (Coleoptera-Coccinellidae) and escape behavior of its aphid and cicadellid prey on lime (Tilia x vulgaris Hayne). Ecol. Entomol. 1:139-142


Zhang XS (2008) Increase in quantitative variation after exposure to environmental stresses and/or introduction of a major mutation: G x E interaction and epistasis or canalization? Genetics 180:687-695


## Affiliations of all authors

| Author                        | 
|-------------------------------|------------------------------------------|
| **Ellyn V. Bitume**           | **At the time of the research**          | **Currently**                      |
|                               | Institute of Biology, Leiden University, The Netherlands | Evolutionary Ecology and Genetics, Université catholique de Louvain, Belgium |
| **Paul M. Brakefield**        | Institute of Biology, Leiden University, The Netherlands | Zoological Department of Cambridge/ Zoological Museum of Cambridge, UK |
| **Bardo A. Cornelder**        | Institute of Biology, Leiden University, The Netherlands |                                            |
| **Peter W. de Jong**          | Laboratory of Entomology, Wageningen University, The Netherlands | Laboratory of Entomology, Wageningen University, The Netherlands |
| **Thomas C. Holness**         | Applied Plant Research - Flower Bulbs and Nursery Stock, Wageningen UR, The Netherlands |                                            |
| **Kees G. Koops**             | Institute of Biology, Leiden University, The Netherlands | Institute of Biology, Leiden University, The Netherlands |
| **Suzanne T.E. Lommen**       | Institute of Biology, Leiden University, The Netherlands | Department of Biology, University of Fribourg, Switzerland |
| **Carola A. Luijten**         | Institute of Biology, Leiden University, The Netherlands |                                            |
| **Cock W. Middendorp**        | Laboratory of Entomology, Wageningen University, The Netherlands |                                            |
| **Suzanne V. Saenko**         | Institute of Biology, Leiden University, The Netherlands | Department of Genetics & Evolution, University of Geneva, Switzerland |
| **Yoshinori Tomoyasu**        | Division of Biology, Kansas State University, USA | Department of Zoology, Miami University, USA |
| **Jeroen van Schelt**         | Koppert B.V., The Netherlands | Koppert B.V., The Netherlands |

*Page 164*