



Prof. Ian Thomas Baldwin

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JSMC Project: Mutualistic plant – microbe interactions in native Solanaceae

Research Interests and Areas of Supervision

- plant-herbivore interactions
- chemical defences
- resource allocation
- alkaloids
- jasmonates

Education and Scientific Career

1981 B. A. Biology, Dartmouth College, Hanover, New Hampshire
1989 PhD in Chemical Ecology, Section of Neurobiology and Behavior, Cornell University, Ithaca, New York
1989 - 1994 Assistant Professor, Department of Biology, SUNY Buffalo
1994 - 1996 Associate Professor, Department of Biology, SUNY Buffalo
Since 1996 Director and Scientific Member, Max Planck Institute for Chemical Ecology

Interdisciplinary Affiliation

Since 2001 Max Planck Digital Library (Advisory board)
Elected Member, Berlin-Brandenburgische Akademie der Wissenschaften
Since 2000 Elected Member, Wissenschaftskolleg Berlin



Administrative Experience

Since 2004 DFG Priority Program "Trophic interactions and dynamics of communities"

Since 2001 Swiss NSF Priority Program "Plant Survival in Natural and Agricultural Ecosystems"

Since 2001 DFG Priority Program "Biological radiations"

2002 - 2005 Managing Director, Max Planck Institute for Chemical Ecology, Jena

2001 - 2003 Editor of *Oecologia*, *The Plant Journal*, *Ecological Studies Series*

Honours and Awards

1998 Silverstein-Simeone Award from the International Society for Chemical Ecology

1991 - 1996 Presidential Young Investigator Award

Ten most important publications in international refereed journals

01. Schwachtje J, Minchin PEH, Jahnke S, van Dongen JT, Schittko U, Baldwin IT (2006) SnRKs allow plants to tolerate herbivory by allocating C to roots. *Proc Natl Acad Sci USA* 103, 12935-12940.

02. Baldwin IT, Halitschke R, Paschold A, von Dahl C, Preston CA (2006) Volatile signaling in plant-plant interactions: "talking trees" in the genomic era. *Science* 311, 812-815.

03. Izaguirre MM, Mazza CA, Biondini M, Baldwin IT, Ballaré CL (2006) Remote sensing of future competitors: Impacts on plant defenses. *Proc Natl Acad Sci USA* 103, 7170-7174.

04. Steppuhn A, Gase K, Krock B, Halitschke R, Baldwin IT (2004) Nicotine's defensive function in nature. *PLoS-Biology* 8, 1074-1080.

05. Kessler A, Halitschke R, Baldwin IT (2004) Silencing the jasmonate cascade: Induced plant defenses and insect populations. *Science* 305, 665-668.

06. Lou Y, Baldwin IT (2003) *Manduca sexta* recognition and resistance among allopolyploid *Nicotiana* host plants. *Proc Natl Acad Sci USA* 100, 14513-14600.

07. Kessler A, Baldwin IT (2001) Defensive function of herbivore-induced plant volatile emissions in nature. *Science* 291, 2141-2144.

08. Baldwin IT (1998) Jasmonate-induced responses are costly but benefit plants under attack in native populations. *Proc Natl Acad Sci USA* 95, 8113-8118.

09. Baldwin, IT, Schultz JC (1983) Rapid changes in tree leaf chemistry induced by damage: Evidence for communication between plants. *Science* 221, 277-279.

10. Schultz JC, Baldwin IT (1982) Oak leaf quality declines in response to defoliation by gypsy moth larvae. *Science* 217, 149-151.