

Life and work of Ivo Hodek, the founder of Ecology of Aphidophaga working group

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*3/6/1931
†11/6/2021



Studies

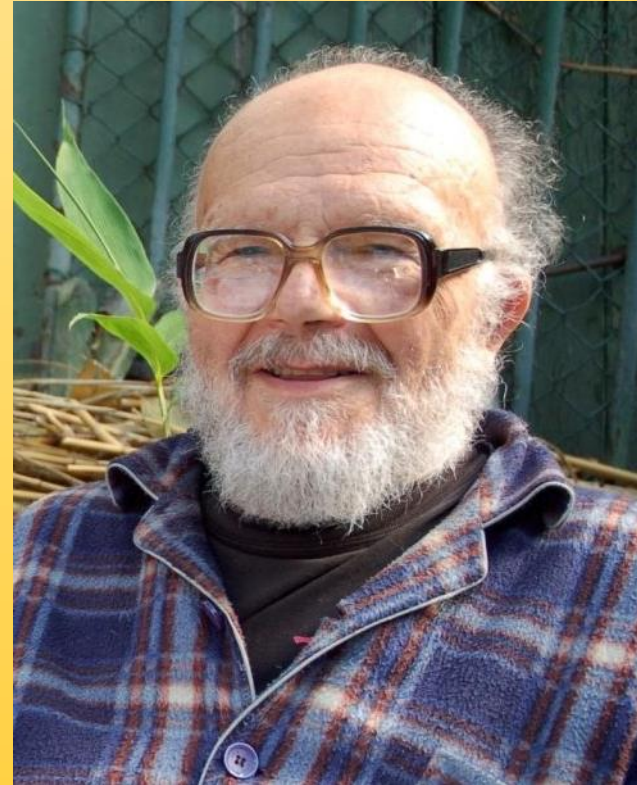
1950 Agricultural College

1950-1954+1954-1957: Faculty of
Science of Charles University

Coccinella septempunctata

Obenberger: all known

- Essential prey
- Facultative + obligatory diapause



Academy

Laboratory of Entomology

Institute of Entomology,

Prague



V LÉTECH 1911 - 1912
PŮSOBIL V TÉTO BUDOVĚ
JAKO UNIV. PROFESOR
ALBERT EINSTEIN
1879 1955



Academy

Institute of Entomology,
České Budějovice

Laboratory of
aphidophagous insect

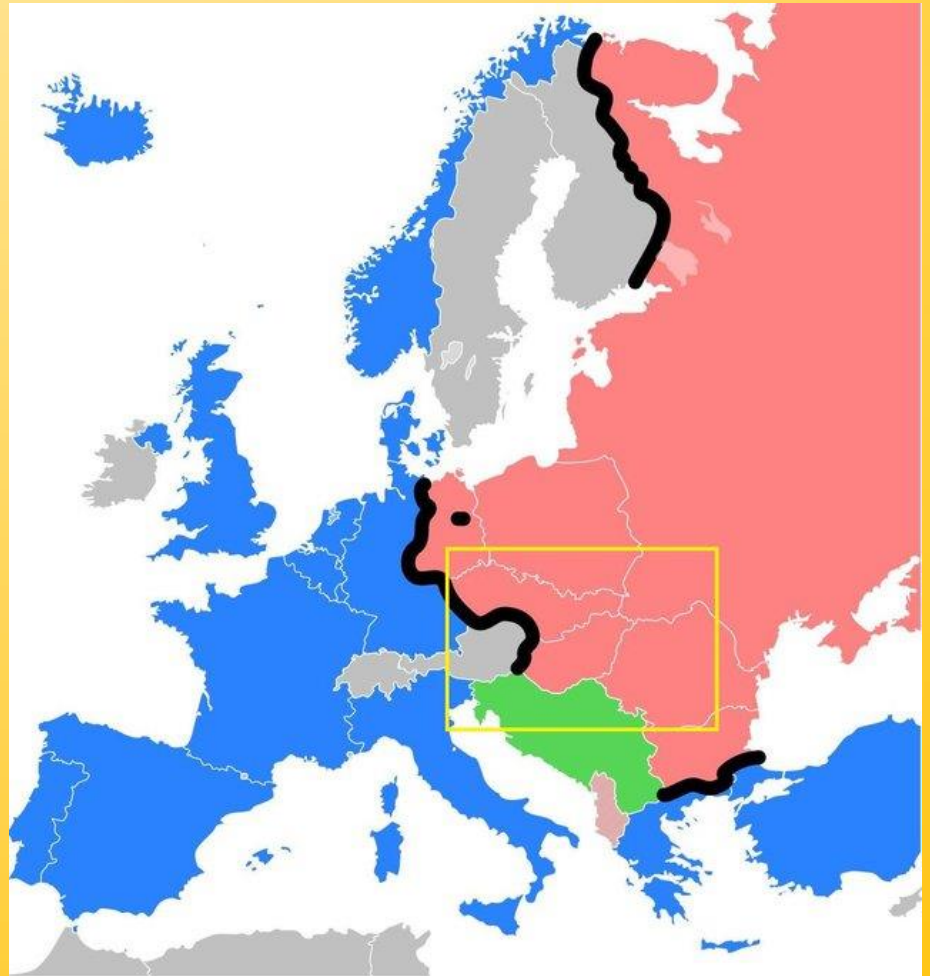
Laboratory of
Ecophysiology



Internships

1972–1973 University of
Wageningen

1979–1980 Rabelais
University in Tours





Research interests

Coccinellidae

No taxonomy

Food (aphidophagous)

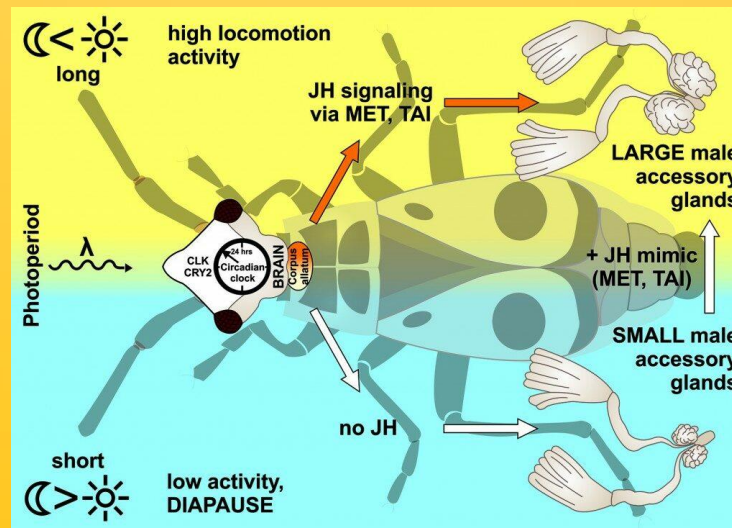
Dormancy

Ecophysiology

photoperiodism and temperature in diapause

respiration, flight, migration

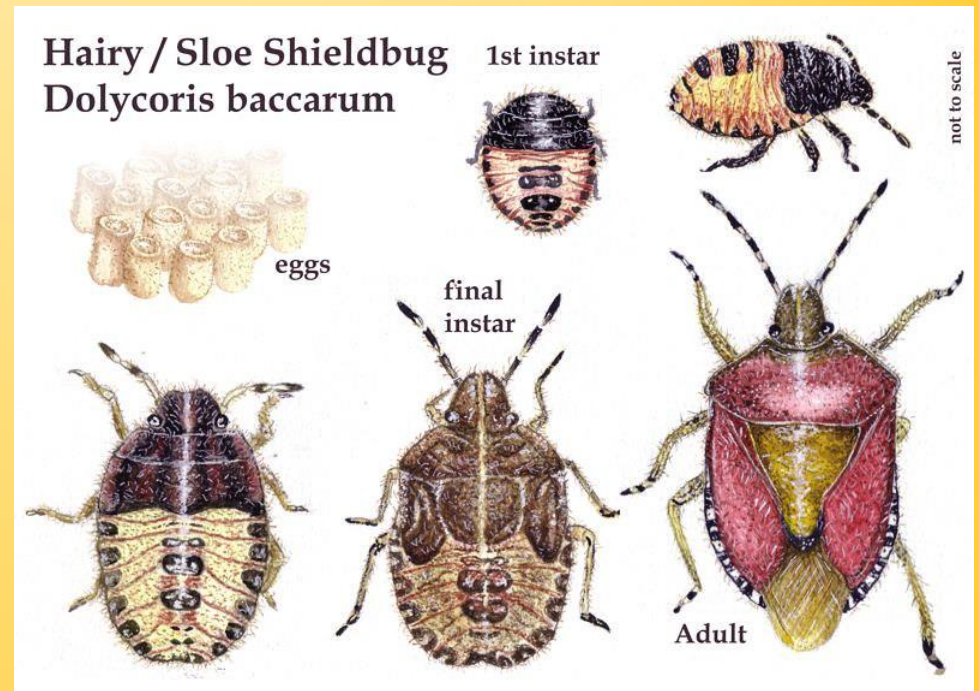
cold hardiness and hormonal regulation



Ecophysiology

Diaupause development

- Horotelic
- Tachytelic
- Recurrent sensitivity
- Pentatomidae and *Pyrrhocoris*



Ecophysiology

Biological clocks

Hormonal regulation
(endocrinology – Magda
Hodková)



Coccinellidae

Essential vs. alternative food

Insects, pollen, fruits

Michaud (2005)

Accepted x non-accepted

Toxic prey (*Aphis sambuci*)



Coccinellidae

overwintering of

Hippodamia undecimnotata



Supervisor / mentor

Alois Honěk (Crop Research Institute,
Prague – Coccinellidae, ecophysiology),

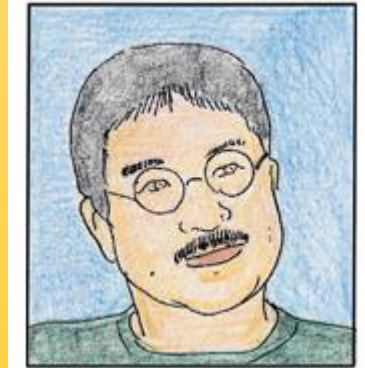
Plamen Kalushkov (Bulgarian Academy
of Sciences – Coccinellidae,
ecophysiology, † 2021)

Takashi Okuda (National Institute of
Agrobiological Sciences, Japan –
ecophysiology)

Vladimír Košťál (Institute of
Entomology – ecophysiology)

Piotr Ceryngier (Cardinal Stefan
Wyszynski University, Poland –
Coccinellidae)

Oldřich Nedvěd (University of South
Bohemia, Czechia – Coccinellidae and
ecophysiology)



Son

Prof. RNDr. Petr Hodek, CSc.
Biochemist, Charles university



Dogs

Blackie



Conferences

1965: Ecology of Aphidophagous Insects

1984: Ecology of Aphidophaga 2, Czechia

1987: Poland

1990: Hungary

1993: France (+ON)

1996: Belgium (last IH)

1999: Canada

2002: Portugal

2004: Czechia (IH)

2007: Greece

2010: Italy

2013: Serbia

2016: Germany

2019: Canada



Conferences

symposia on Insect Ecophysiology in
Prague (1974)

České Budějovice (1995 IH, 2003 ON)

International Symposium on the
Environmental Physiology of Ectotherms
and Plants



Publications and citations

Web of Science database: 70 of Ivo's 134 articles

Nature 1960 and 1965

Bionomics and ecology of predaceous
Coccinellidae (104 citations: Hodek, 1967)

Multiple role of temperature during insect
diapause - a review written with his wife,
Magda Hodková (137 citations: Hodek &
Hodková, 1988)

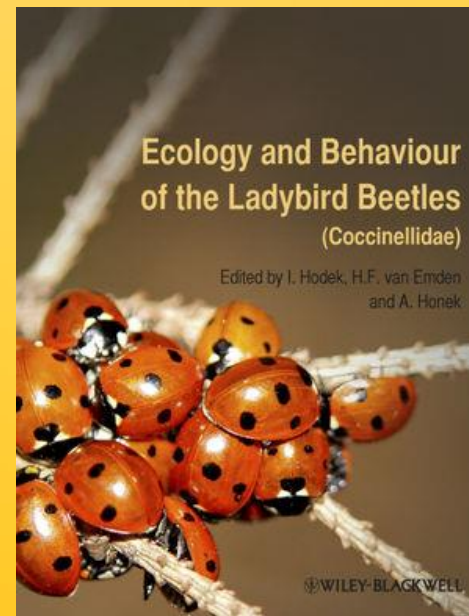
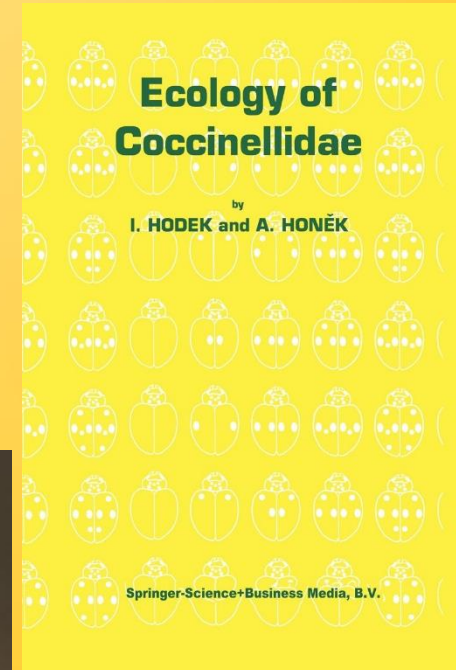
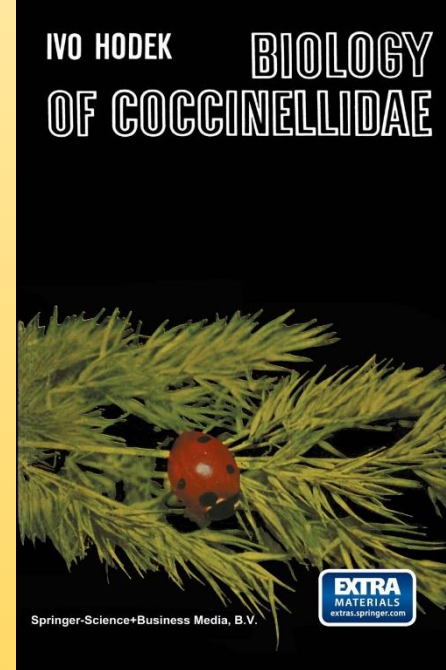


Books

Biology of Coccinellidae (Hodek, 1973)
CI=533

Ecology of Coccinellidae (Ivo Hodek and
Alois Honěk, 1996)
CI=769

Ecology and Behaviour of the Ladybird
Beetles (Coccinellidae) (Ivo Hodek,
Helmut van Emden, Alois Honěk, 2012)
(Food and Diapause)
CI=487



Journal editor

Acta Entomologica Bohemoslovaca

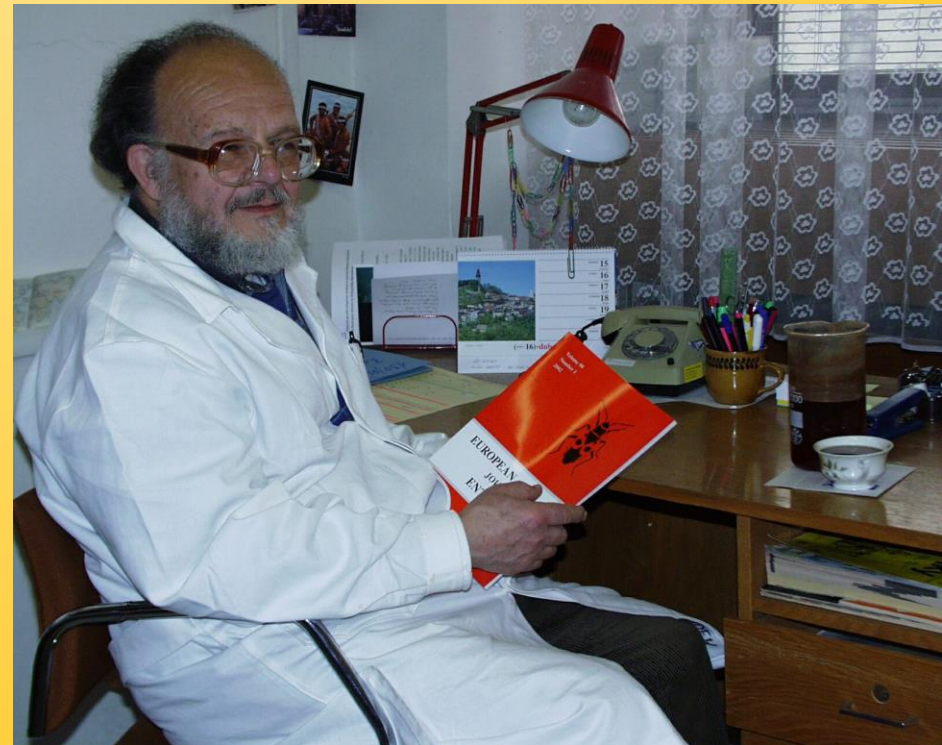
Acta Societatis Entomologicae Bohemiae

European Journal of Entomology

Institute of Entomology, Biology Centre of
Czech Academy of Sciences

special virtual issue

on coccinellid colouration (Asiri and Foster, 2022), coccinellid reproduction (Osawa, 2022), egg diapause (Goto and Nagata, 2022; Nakamura and Fukushima, 2022), and combined diapause of a coccinellid (Obrycki, 2022)





ZOOLOGICKÉ KLÍČE
ZOOLOGICAL KEYS



Academia

**Brouci čeledi
slunéčkovití (Coccinellidae)**

střední Evropy

**Ladybird beetles (Coccinellidae)
of Central Europe**

Oldřich Nedvěd



**LADYBIRDS
OF EUROPE**



Oldřich Nedvěd

Milan Djurić

2022