Katedry Genetiky, a Biochémie
Prírodovedeckej fakulty Univerzity Komenského
v spolupráci s Ústavom Experimentálnej endokrinológie SAV

Vás pozývajú na 50. prednášku v rámci Kuželových seminárov:

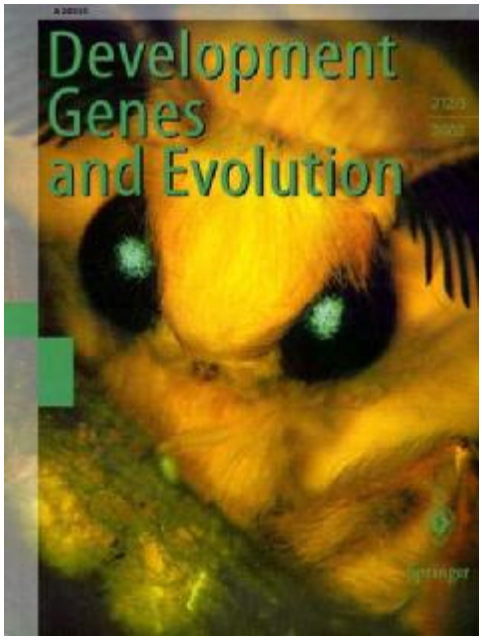
Dr. Marek JINDRA

Entomologický Ústav Akademie věd ČR,
České Budějovice

The steroid deficiency gene *ecdysoneless*

ktorá sa uskutoční v utorok 17. mája 2005 o 14:00
v miestnosti **B1-512** (knižnica Katedry genetiky)

Marek Jindra, PhD.



1988 **M.S.** in physiology and cell biology, Charles University, Prague. Thesis on nutrient, water and energy balance in insects.

1993 **Ph.D.** in entomology, Institute of Entomology, Czech Academy of Sciences. Thesis on steroid response nuclear receptor genes in insects.

10/1999- **Head of laboratory**, Department of Genetics, Institute of Entomology, Czech Academy of Sciences, Ceske Budejovice. (see current projects below).

2002-03 **Head,** Department of Molecular Biology, University of South Bohemia. Teaching a practical course Methods in Molecular Biology, supervising graduate students.

1997-99 **Postdoctoral Research Associate,** National Institute of Genetics (Japan). Molecular and genetic analyses of a novel transcriptional coactivator MBF1 in *Drosophila*, laboratories of Profs. Susumu Hirose and Yasushi Hiromi.

1993-96 **Postdoctoral Research Associate,** University of Washington, Seattle (USA). Cloning and characterization of genes of the ecdysteroid receptor cascade in insects in the laboratory of Prof. Lynn M. Riddiford.

HONORS AND AWARDS

1993 **Human Frontier Science Program** long-term postdoctoral fellowship (two years), University of Washington, Seattle, USA.

1997 **Center of Excellence** postdoctoral fellowship from the Japanese Ministry of Education (36 months), National Institute of Genetics, Mishima (Japan).

2000 **Fogarty International Research Collaboration Award (FIRCA)**, National Institutes of Health (NIH), USA.

2000 **Scientia Europaea**, prize of the French Academie des Sciences and Fondation Aventis.

2002 **Otto Wichterle Award,** prize of the Czech Academy of Sciences.

2002 **JSPS short-term fellowship,** Japan (1 month).

Recent publications:

Silhankova M, Jindra M, Asahina M. (2005) Nuclear receptor NHR-25 is required for cell-shape dynamics during epidermal differentiation in *Caenorhabditis elegans*. J. Cell Sci. **118** (1): 223-232.

Jindra M, Gaziova I, Uhlirova M, Okabe M, Hiromi Y, Hirose S. (2004) Coactivator MBF1 preserves the redox-dependent AP-1 activity during oxidative stress in *Drosophila*. EMBO J. **23** (17): 3538-3547.

Gaziova I., Bonnette P.C., Henrich V.C., Jindra M. (2004) Cell-autonomous roles of the ecdysoneless gene in *Drosophila* development and oogenesis. Development **131** (11): 2715-2725.

Uhlirova M., Foy B.D., Beaty B.J., Olson K.E., Riddiford L.M., Jindra M. (2003) Use of Sindbis virus-mediated RNA interference to demonstrate a conserved role of Broad-Complex in insect metamorphosis. Proc. Natl. Acad. Sci. USA **100** (26): 15607-15612.

Liu Q.X., Jindra M., Ueda H., Hiromi Y., Hirose S. (2003) *Drosophila* MBF1 is a co-activator for *Tracheae Defective* and contributes to the formation of tracheal and nervous systems. Development. **130** (4): 719-728.

Uhlirova M., Asahina M., Riddiford L.M., Jindra M. (2002) Heat-inducible transgenic expression in the silkmoth *Bombyx mori*. Dev. Genes Evol. **212** (3): 145-151.

Meyering-Vos M., Wu X., Huang J., Jindra M., Hoffmann K.H., Sehnal F. (2001) The allatostatin gene of the cricket *Gryllus bimaculatus* (Ensifera, Gryllidae). Mol. Cell. Endocrinol. **184** (1-2): 103-114.

Asahina M., Ishihara T., Jindra M., Kohara Y., Katsura I., Hirose S. (2000) The conserved nuclear receptor Ftz-F1 is required for embryogenesis, moulting and reproduction in *Caenorhabditis elegans*. Genes Cells. **5** (9): 711-723.

Lan Q., Hiruma K., Hu X., Jindra M., Riddiford L.M. (1999) Activation of a delayed-early gene encoding MHR3 by the ecdysone receptor heterodimer EcR-B1-USP-1 but not by EcR-B1-USP-2. Mol. Cell. Biol. **19** (7): 4897-4906.

Zhou B., Hiruma K., Jindra M., Shinoda T., Segraves W.A., Malone F., Riddiford L.M. (1998) Regulation of the transcription factor E75 by 20-hydroxyecdysone and juvenile hormone in the epidermis of the tobacco hornworm, *Manduca sexta*, during larval molting and metamorphosis. Dev. Biol. **193** (2): 127-138.

Jindra M., Huang J.Y., Malone F., Asahina M., Riddiford L.M. (1997) Identification and mRNA developmental profiles of two ultraspiracle isoforms in the epidermis and wings of *Manduca sexta*. Insect Mol. Biol. **6** (1): 41-53.