

Curriculum vitae Aleš Kladnik

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EDUCATION

- **1994-1999** Undergraduate study of biology at the University of Ljubljana, Biotechnical Faculty, Department of Biology.
- **13.09.1999** Master's thesis "Gene expression localisation of certain sugar metabolism enzymes in maize tissues (*Zea mays* L.)", supervisor prof. dr. Marine Dermastia.
- **1999-2003** Graduate study of biology at the University of Ljubljana, Biotechnical Faculty, Department of Biology.
- **17.12.2003** PhD thesis "Cytological analysis of maize (*Zea mays* L.) endosperm and root cap development", supervisor prof. dr. Marine Dermastia.

EMPLOYMENT

- **2004-** researcher in the national research programme "Plant Biology" in the research group for Experimental Botany; University of Ljubljana, Biotechnical Faculty, Department of Biology, Večna pot 111, SI-1001 Ljubljana.
- **1999-2003** PhD young researcher at the University of Ljubljana, Biotechnical Faculty, Department of Biology, Večna pot 111, SI-1001 Ljubljana.

RESEARCH

Original scientific papers

1. VILHAR, Barbara, KLADNIK, Aleš, BLEJEC, Andrej, CHOUREY, Prem S., DERMASTIA, Marina. Cytometrical evidence that the loss seed weight in the miniature seed mutant of maize is associated with reduced mitotic activity in the developing endosperm. *Plant physiol.* (Bethesda), 2002, vol. 129(1), 23-30.
2. KLADNIK, Aleš, VILHAR, Barbara, CHOUREY, Prem S, DERMASTIA, Marina. Sucrose synthase isozyme SUS1 in the maize root cap is preferentially localized in the endopolyploid outer cells. *Can. J. Bot.*, 2004, letn. 82(1), 93-103.
3. KLADNIK, Aleš, CHAMUSCO, Karen, DERMASTIA, Marina, CHOUREY, Prem S. Evidence of programmed cell death in post-phloem transport cells of the maternal pedicel tissue in developing caryopsis of maize. *Plant physiol.* (Bethesda), 2004, 136, 3572-3581.
4. ANDERLUH, Gregor, PODLESNIK BESENIČAR, Mojca, KLADNIK, Aleš, LAKEY, Jeremy H., MAČEK, Peter. Properties of nonfused liposomes immobilized on an L1 Biacore chip and their permeabilization by a eukaryotic pore-forming toxin. *Anal. biochem.*, 2005, 344, 43-52.
5. KLADNIK, Aleš, CHAMUSCO, Karen, CHOUREY, Prem S., DERMASTIA, Marina. In situ detection of programmed cell death in the maize caryopsis. *Period. biol.*, 2005, 107, 11-16.
6. KRŽIČ, Nina, PONGRAC, Paula, KLEMENC, Maja, KLADNIK, Aleš, REGVAR, Marjana, GABERŠČIK, Alenka. Mycorrhizal colonisation in plants from intermittent aquatic habitats. *Aquat. bot.* [Print ed.], 2006, vol. 85, 331-336.
7. KLADNIK, Aleš, CHOUREY, Prem S., PRING, Daryl R., DERMASTIA, Marina. Development of the endosperm of *Sorghum bicolor* during the endoreduplication-associated growth phase. *J. cereal sci.*, 2006, 43, 209-215.
8. PODLESNIK BESENIČAR, Mojca, BAVDEK, Andrej, KLADNIK, Aleš, MAČEK, Peter, ANDERLUH, Gregor. Kinetics of cholesterol extraction from lipid membranes by methyl-beta-cyclodextrin : a surface plasmon resonance approach. *Biochim. biophys. acta, Biomembr.* [Print ed.], 2008, vol. 1778, 175-184.
9. ANŽLOVAR, Sabina, KLADNIK, Aleš, KOGOVSĚK, Polona, NIKOLIĆ, Petra, GRUDEN, Kristina, BRZIN, Jože, DERMASTIA, Marina. The temporal and spatial expression of PR-5 linusitin-like gene in healthy and ethylene-treated flax plants. *Int. j. plant sci.*, 2008, no. 6, vol. 169, 701-707.

10. LEŠER, Vladka, DROBNE, Damjana, VILHAR, Barbara, KLADNIK, Aleš, ŽNIDARŠIČ, Nada, ŠTRUS, Jasna. Epithelial thickness and lipid droplets in the hepatopancreas of *Porcellio scaber* (Crustacea: Isopoda) in different physiological conditions. *Zoology analysis of complex systems*, 2008, issue 6, vol. 111, 419-432, doi: 10.1016/j.zool.2007.10.007.

Other publications

- 24 contributions at international scientific conferences

International collaboration

- Collaboration with the laboratory of dr. Prem Chourey (University of Florida & USDA, Florida, USA) – development of maize and teosinte caryopsis
- Collaboration with the laboratory of prof. Adriano Marocco (Institute of Agronomy, Università Cattolica S. Cuore, Piacenza, Italy) – development of auxin-deficient maize mutant

TEACHING

- **2005-2009** co-supervisor at five Master's theses
- **1999-2009** laboratory courses of plant biology for the students in the first year of undergraduate studies
Biology, Microbiology, Food technology, Biotechnology and Biochemistry.

Membership in scientific societies

- Slovenian Society of Plant Biology (www.plantslo.org) – member of the executive committee
- Federation of European Societies of Plant Biology (www.fespb.org) – national representative for Slovenia

Fields of work

- microscopy (bright-field, fluorescence, DIC, 3D reconstruction, histology – specimen preparation, fixation, staining; digital image acquisition, quantitative image analysis, ImageJ)
- molecular methods (immunolocalization, in situ hybridization, probe synthesis, bioinformatics)
- data analysis (MS Excel, Graphpad Prism, SigmaPlot)
- image editing (bitmap and vector images, print preparation)
- web page editing (html, xhtml, css, php, mysql, javascript):
 - Microscopy at the Department of Biology: <http://web.bf.uni-lj.si/bi/mikroskopija/>
 - Chair of Botany: <http://botanika.biologija.org/>

Other

- languages: active: English; basic: German, Croat, Serbian
- hobbies: photography, computers, digital photo editing, web page editing, walking, running, nature hikes, skiing, volleyball

Ljubljana, 20.8.2009

dr. Aleš Kladnik