

PROFILE

Alexandru Lucian CURTU, Assoc. prof. dr.

Nationality: Romanian

Date of birth: March 1975

Participation in COST Action FP0905:

Member of MC

ESR at the time of starting the Action: Yes

Contact data:

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Research area and species (key words):

Population and evolutionary genetics

Quercus spp., *Picea abies*

CURRICULUM VITAE

Present position

Year 2010, Associate Professor, Dr.

Education/Professional Career

Year	Position/Fellowship etc.
Since 2008	Associate professor at University of Transilvania, Brasov, head of the Laboratory of Forest Genetics
2006 – 2008	Lecturer at University of Transilvania in the field of forest genetics and dendrology
2003 – 2006	Doctoral study at Georg-August University Göttingen, Faculty of Forest Sciences and Forest Ecology, Institute of Forest Genetics and Forest Tree Breeding, Germany (DAAD Scholarship) Degree: Doctor in Forest Sciences
1999 – 2003	Teaching and Research Assistant at the Department of Forest Sciences, University of Transilvania, Brasov
1998 – 1999	Postgraduate study at University of Transilvania, Brasov Field of study: Biotechnologies in Forestry
1993 – 1998	University of Transilvania, Brasov, Romania Faculty of Forest Sciences, Field of study: Silviculture

Others

Year	Responsible for..., or member of etc..
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2005 - 2009 National representative in the Network Scattered Broadleaves, EUFORGEN programme, Bioversity International

Since 2000 Member of the National Forestry Association *Progresul Silvic*

Research Projects (relevant to Action)

Title: "Evaluation of genetic resources of pedunculate oak and greyish oak in Romania" (ID-183; 237/2007) financed by the Romanian Research Founding Agency (CNCSIS)

National

2007-2010 Role: Scientific Responsible

The main objective of the project is: characterization by means of genetic markers of the main *in situ* resources of two keystone species of the Romanian forests

Selected Publications and Communications (relevant to Action)

Curtu AL, Gailing O, Finkeldey R (2009a) Patterns of contemporary hybridization inferred from paternity analysis in a four-oak-species forest. *BMC Evolutionary Biology* **9**, 284.

Curtu AL, Gailing O, Finkeldey R (2007a) Evidence for hybridization and introgression within a species-rich oak (*Quercus* spp.) community. *BMC Evolutionary Biology* **7**, 218.

Curtu AL, Finkeldey R, Gailing O (2004) Comparative sequencing of a microsatellite locus reveals size homoplasy within and between European oak species (*Quercus* spp.). *Plant Molecular Biology Reporter* **22**, 339-346.

RESEARCH INSTITUTE (Max 1 page)

Description

The Faculty of Forest Sciences has been established in 1948 and it is one of the 18 faculties of University of Transilvania, Brasov. It offers a wide range of academic programmes: Bachelor of Science in Forest Sciences, Wildlife Management and Forest Engineering; Master of Science in Management of Forest Ecosystems and Logging and Wood Technology; PhD studies. The faculty has also developed a strong research department, *Sustainable Management of Forest Resources and Ecological Restoration*, which is part of the collaborative research centre of the university. In the last five years the research department has been involved in more than 70 national and international research projects and technical assistance contracts, which cover a wide range of subjects in the field of forestry. The Faculty of Forest Sciences Brasov is also member of the International Union of Forest Research Organizations (IUFRO).

Infrastructure

The faculty has a series of research laboratories which ensure high quality research. The laboratory of forest genetics has very modern research facilities, most of the equipments being purchased between 2007 and 2008. The research infrastructure consists of two freezers for sample and DNA preservation, two powerful centrifuges with cooling, water baths, stirrers, one ice making machine, one incubator, numerous precision pipettes, one sterilization autoclave, one bidistiller, and one fume cupboard. Two thermocyclers with gradient and 96 sample capacity are available for the Polymerase Chain Reaction. Preparation of reactions is carried out in one laminar airflow cabinet, a working area highly protected from both micro-organisms and air-born contaminants. For electrophoreses are available five horizontal and two vertical chambers, for a variety of gel types, three power sources, two stirrers for gel staining, one gel documentation system with digital camera and one UV transilluminator with different intensities. A Beckman Coulter 8800 genetic analyser, with two lasers and two plates 96x, is used for the capillary electrophoresis. The DNA sequencer is linked to a computer with all specialized software installed. For field trips and sample transport an auto-laboratory with a small refrigerator is available.