
CURRICULUM VITAE

Personal Data

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Birth place and date: Munich, 27th May 1965
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Academic Qualifications

- 1997 PhD on Forest Pathology – Ludwig Maximilians University, Munich.
- 1993 Graduate Degree in Forest Sciences – Ludwig Maximilians University, Munich.

Previous and Current Scientific and Professional Activities

- 11/2010 – 11/2014:** Vice-Chair of COST Action FP 1002 “Pathway Evaluation and Pest Risk Management In Transport (PERMIT)”.
- 10/2010 – 09/2011:** Senior Research Associate. Ingeniería Técnica Forestal, Universidad de Extremadura, Avenida Virgen del Puerto 2, 10600 Plasencia, Spain.
- Since 09/2009:** Adjunct Senior Lecturer. Centre for *Phytophthora* Science and Management (CPSM), Murdoch University, 90 South Street, Murdoch 6150, Western Australia.
- 11/2008 – 11/2012:** Coordinator of Working Group 4 “Management and Control of *Phytophthora* Diseases” of COST Action FP 0801 “Established and Emerging *Phytophthora*: Increasing Threats to Woodland and Forest Ecosystems in Europe”. *Phytophthora* Research and Consultancy, Thomastrasse 75, D-83098 Brannenburg, Germany.
- 09/2008 – 08/2009:** Senior Research Associate. Centre for *Phytophthora* Science and Management (CPSM), Murdoch University, 90 South Street, Murdoch 6150, Western Australia.
- 05/2002 – 05/2007:** Production of nine informative and scientific broadcasts on the involvement of *Phytophthora* species in tree declines in Europe in cooperation with 3 German TV stations (ZDF, BR, SWR). Bavarian State Institute of Forestry (LWF), Section Forest Ecology and Forest Protection in Freising, Germany and since 04/2005 *Phytophthora* Research and Consultancy in Brannenburg, Germany.
- Since 04/2005:** Independent scientist and consultant for tree diseases. *Phytophthora* Research and Consultancy, Thomastrasse 75, D-83098 Brannenburg, Germany.
- 07/2003 – 09/2004:** Organisation and coordination of the 3rd Workshop of IUFRO (International Union of Forest Research Organisations) Working Party 7.02.09 „*Phytophthora* in Forests and Natural Ecosystems“ in Freising, 11th – 17th September 2004. Bavarian State Institute of Forestry (LWF), Section Forest Ecology and Forest Protection in Freising, Germany.
- 09/2002:** Offer of the advertised permanent position as *Phytophthora* Project Leader at the Forest Research Agency, Farnham, Surrey, UK (rejected due to the high costs of living in the South UK). Bavarian State Institute of Forestry (LWF), Section Forest Ecology and Forest Protection in Freising, Germany.
- 08/2001 – 05/2002:** Organisation and coordination of the statewide survey of *Phytophthora* dieback of alders along more than 20000 river kilometers and in 3300 forest stands in Bavaria, Germany. Bavarian State Institute of Forestry (LWF), Section Forest Ecology and Forest Protection in Freising, Germany.
- 11/2000 – 03/2005:** Senior Post Doctoral Research Fellow. Bavarian State Institute of Forestry (LWF), Section Forest Ecology and Forest Protection in Freising, Germany.
- 03/1999 – 03/2005:** Consultant for tree diseases as sideway. Freelancer.
- 1998:** Arnold Sommerfeld Award of the Bavarian Academy of Sciences, acknowledging works on the clarification of the causes of oak decline.
- 07/1996 – 10/2000:** Post Doctoral Research Fellow. Institute of Forest Botany / Section Phytopathology of the Ludwig - Maximilians – University of Munich (from 10/1999

on Technical University of Munich, due to administrative reorganisations) in Freising, Germany.

07/1997: PhD (Forest Pathology).

03/1993 – 06/1996: PhD student. Institute of Forest Botany / Section Phytopathology of the Ludwig - Maximilians – University of Munich (LMU) in Freising, Germany. Title of thesis: Untersuchungen zur *Phytophthora* – Erkrankung europäischer Eichenarten mit besonderer Berücksichtigung der Stieleiche (*Quercus robur* L.): Ein Beitrag zur Klärung des Phänomens Eichensterben (Investigations on the *Phytophthora* disease of European oak species with special emphasis on pedunculate oak (*Quercus robur* L.): a contribution to clarify the phenomenon oak decline).

06/1990 - 12/1991: Diploma thesis, title: 'Investigations on in vitro toxigenicity of *Ceratocystis/Ophiostoma* spp. and *Fusarium* spp. isolated from oak'. Institute of Forest Botany of the Ludwig - Maximilians – University of Munich (LMU) in Munich, Germany.

11/1986 – 03/1993: Studies in Forest Sciences. Ludwig - Maximilians – University of Munich in Munich and Freising, Germany.

Professional Memberships, Societies and International Networks/Working Units

Member of the IUFRO Unit 7.02.06 'Disease/Environment Interactions in Forest Decline'.

Member of the IUFRO Unit 7.02.09 '*Phytophthora* in Forests and Natural Ecosystems':

Member of the IUFRO Unit 7.03.12 'Alien Invasive Species and International Trade'.

Member of the 'European network on emerging diseases and invasive species threats to European Forest Ecosystems (FORTHREATS)'.

Member of the COST Action FP 0801 Established and Emerging *Phytophthora*: Increasing Threats to Woodland and Forest Ecosystems in Europe. Coordinator of Working Group 4 'Management and Control of *Phytophthora* Diseases'.

Member of the State Centre of Excellence on Climate change and Woodland and Forest Health, Western Australia.

Member of the COST Action FP 1002 "Pathway Evaluation and Pest Risk Management In Transport (PERMIT)" (Vice-Chair).

Awards and honours

Arnold Sommerfeld Award of the Bavarian Academy of Sciences, acknowledging works on the clarification of the causes of oak decline (1998).

General scientific expertise

Role of *Phytophthora* pathogens in tree declines.

Root pathology of trees.

Classical and molecular methods for detection, isolation and identification of *Phytophthora* and *Pythium* spp. from plant tissues, soil and water.

Taxonomy, ecology, pathology and phylogeny of new, previously unknown *Phytophthora* species in Europe and Western Australia.

Pathways, survival strategies, host specificity and aggressiveness of *Phytophthora* species.

Management and control (including eradication) of *Phytophthora* diseases of trees and forest and riparian ecosystems.

Coordination and practical realisation of large-scale field surveys on soil-borne and water-borne *Phytophthora* pathogens.

Specific scientific expertise

Role of infested nursery stock as primary pathway for *Phytophthora* diseases of trees:

- detection methods;
- distribution of *Phytophthora* spp.;
- association between infested nursery stock and diseases in the field;
- control methods;
- management strategies.

Phytophthora-mediated decline of oaks (*Quercus* spp.):

- distribution, aggressiveness and ecology of the involved soil-borne *Phytophthora* species;
- relationships between site factors, *Phytophthora* population in the rhizosphere, crown condition and fine root condition of trees;
- interaction between site factors, *Phytophthora* fine root damages and insect defoliation;
- interaction with environmental constraints such as nitrogen input and drought.

Phytophthora root and collar rot of alders (*Alnus* spp.):

- distribution of the disease, dissemination of *Phytophthora alni* and infection process;
- influence of site factors on disease incidence and progress;
- role of infested nursery stock in disease spread;
- selection of resistant alder clones;
- management and control;
- taxonomy and evolution of the *Phytophthora alni* hybrid swarm.

Root and collar rot and aerial bleeding cankers of European beech (*Fagus sylvatica*) caused by *Phytophthora* spp.:

- etiology and symptomatology;
- distribution, aggressiveness and ecology of the involved soil-borne *Phytophthora* species;

- relationships between site factors, *Phytophthora* population in the rhizosphere, crown condition and fine root condition of trees;
- effect of climate change on disease epidemiology;
- occurrence of *Phytophthora* spp. in beech fields of nurseries.

Involvement of *Phytophthora* root infections in the declines of linden (*Tilia* spp.), maple (*Acer* spp.) and birch (*Betula* spp.) trees in Central Europe.

Littleleaf disease of *Pinus occidentalis* and *Pinus caribaea* in the Dominican Republic caused by *Phytophthora cinnamomi*.

Survival strategies of *Phytophthora cinnamomi* and other *Phytophthora* species in the Jarrah and Tingle Forest, the Banksia Woodlands and heathlands of Western Australia.

Potential role of *Phytophthora* species in the declines of *Eucalyptus gomphocephala* (tuart forest) and *Eucalyptus rudis*.

Control of the *Phytophthora* dieback of mature trees of European beech, oaks, horse chestnut, maple and linden trees with aerial and stem applications of potassium phosphite.

Current research interests

Diversity of *Phytophthora* populations and their seasonal and annual fluctuations in different ecosystems.

Population genetic studies of *Phytophthora* spp. in order to identify their origins and potential pathways.

Detection and description of new *Phytophthora* spp. in Europe and other continents; assessment of their potential host ranges among European tree species.

Roles of both introduced and endemic *Phytophthora* species in declines of forest ecosystems.

Factors triggering the onset of *Phytophthora* epidemics.

Effects of environmental constraints on host-*Phytophthora*-pathosystems.

Pathways and survival mechanisms of *Phytophthora* spp.

Interactions between *Phytophthora* damages and secondary pathogens.

Role of nurseries in the emergence of *Phytophthora* hybrids, the introduction of alien *Phytophthora* species, and the spread of *Phytophthora* spp.

Control of *Phytophthora* diseases and development of integrated management concepts for natural ecosystems and nurseries.

Language skills:

	Reading	Writing	Conversation
German	<i>Excellent</i>	<i>Excellent</i>	<i>Excellent</i>
English	<i>Excellent</i>	<i>Excellent</i>	<i>Excellent</i>
French	<i>Elementary</i>	<i>Elementary</i>	<i>Elementary</i>
Latin	<i>Elementary</i>	<i>Elementary</i>	<i>Elementary</i>

Teaching experience and student supervision

Classes and laboratories taught

1993 – 1996: Institute of Forest Botany, Ludwig-Maximilians University (LMU) Munich in Freising, Germany:

Laboratory practicals and field excursions on the identification of flowering plants;

Co-supervisor of laboratory courses on the identification of fungal diseases of trees.

2007 – 2010: Eidgenössische Technische Hochschule (ETH), Zurich, Switzerland:

Co-supervisor of the laboratory course ‚Advanced Forest Pathology‘.

External examiner

Sarah Collins, Centre for Phytophthora Science and Management, Murdoch University, Perth, Western Australia. PhD thesis: Long term survival of *Phytophthora cinnamomi* in rehabilitated bauxite mines and adjacent jarrah (*Eucalyptus marginata*) forest. Published in 2006 by Murdoch University, Perth, Western Australia.

Cornelia Siricord, Centre for Phytophthora Science and Management, Murdoch University, Perth, Western Australia. PhD thesis: Detection of *Phytophthora* Species by MALDI-TOF Mass Spectrometry. Published in 2005 by Murdoch University, Perth, Western Australia.

Post Graduate student training

Completed

Jan Nechwatal, Institute of Forest Botany, Technical University of Munich, Freising, Germany. PhD thesis: Wurzeluntersuchungen an Fichten und Buchen im Bayerischen Alpenraum: mögliche Beteiligung von Wurzelpathogenen am Krankheitsgeschehen sowie Methoden zu deren Nachweis (Root investigations on spruce and beech trees in the Bavarian Alps: potential involvement of root pathogens in the decline scenario and detection methods). Published in April 2000 by Hieronymus, Munich. Current affiliation: Research Associate at the University of Constance, Institute of Phytopathology.

Ulrika Jönsson, University of Lund, Department of Plant Ecology, Forest Ecology, Lund, Sweden. PhD thesis: *Phytophthora* and oak decline – impact on seedlings and mature trees in forest soils. Published in October 2004 by Lund University. Current affiliation: Scientific journalist in Seglora, Sweden.

Ongoing

Alex Rea, Centre for *Phytophthora* Science and Management (CPSM), Murdoch University, Murdoch, Western Australia. PhD project title: Classical and Molecular Taxonomy, Pathogenicity Testing and Evolutionary Biology of *Phytophthora* species.

Peter Scott, Centre for *Phytophthora* Science and Management (CPSM), Murdoch University, Murdoch, Western Australia. PhD project title: The role of *Phytophthora* species in *Eucalyptus gomphocephala* decline.

Tamara Corcobado, Universidad de Extremadura, Plasencia, Spain. PhD project title: *Quercus* decay in Extremadura in relation to soil properties and the presence of *Phytophthora cinnamomi* and mycorrhizae.

Mohammed Masum Haque, Universidad de Valladolid, Departamento de Producción Vegetal y Recursos Forestales, Spain. PhD project title: Identification and characterisation of *Phytophthora* isolates associated with alder decline in Spain.

Master of Science (M.Sc.) students

Completed

Kirsten Joas, University of Applied Sciences Weihenstephan, Section Forest Sciences. Thesis: Untersuchungen zur Sporangienbildung verschiedener *Phytophthora* – Arten in Abhängigkeit von pH-Wert, Stickstoff- und Aluminiumkonzentrationen (Studies on the effects of pH and different concentrations of nitrogen and aluminium on the production of sporangia by various *Phytophthora* species). July 1998. Current affiliation: Bavarian State Forestry.

Bernd Zolles, University of Applied Sciences Weihenstephan, Section Forest Sciences, Freising, Germany. Thesis: Untersuchungen zur Optimierung der Isolierungsmethoden von Pilzen der Gattung *Phytophthora* aus Böden unter besonderer Berücksichtigung von Waldböden des Buntsandsteins (Studies on the improvement of methods for the isolation of *Phytophthora* species from soils with a special emphasis on forest soils derived from sandstone). December 1998. Current affiliation: Bavarian State Forestry.

Sindy Leonhard, Technical University of Dresden, Faculty of Forest Botany and Forest Zoology, Tharandt, Germany. Thesis: Vorkommen und Bedeutung pilzähnlicher Phytopathogene (Abt. Oomycota) in ausgewählten Eichenbeständen des Freistaates Sachsen (Occurrence and importance of fungal-like plant pathogens from the oomycota in selected oak stands in Saxony). March 2004. Current affiliation: Postdoctoral Researcher at the Bavarian State Institute of Forestry, Freising, Germany.

Ongoing

Katherine Edwards, Centre for *Phytophthora* Sciences and Management (CPSM), Murdoch University, Murdoch, Western Australia. Master project title: Involvement of *Phytophthora* species in the decline of *Eucalyptus rudis* in riparian ecosystems in Western Australia.

Seminars and Lectures

Training of scientists

Seminars in methods for the isolation, identification and testing of pathogenicity of *Phytophthora* species for PhD students, Postdoctoral Fellows, Senior Research Fellows and Professors of the institutions listed below.

11/2010 and 09/2009: University of Extremadura, Plasencia, Spain

10/2010 and 09/2009: Instituto Agroforestal Mediterráneo, University of Valencia, Spain

05/2010: Southern Swedish Forest Research Centre, Swedish University of Agricultural Sciences, Alnarp, Sweden

05/2010: University of Algarve, Faro, Portugal

09/2009: University of Palencia, Spain

12/2007: Department of Forest Sciences, ETH Zurich, Switzerland

10/2007, 05/2007 and 03/2007: Murdoch University, CPSM, Murdoch, Australia

10/2007 and 09/2005: Federal Research and Training Centre for Forests, Natural Hazards and Landscape (BFW), Vienna, Austria

03/2004: Cornell University, Ithaca, USA

11/2002 and 08/1997: Forest Research Station of Baden-Württemberg, Freiburg, Germany

11/2002: Technical University of Dresden, Tharandt, Germany

05/2000 and 10/1999: Lund University, Lund, Sweden

03/2000: Forest Research Station of Lower Saxony, Göttingen, Germany

09/1999 and 09/1998: Scottish Crop Research Institute (SCRI), Dundee, UK

09/1999: Slovenian Forestry Institute, Ljubljana, Slovenia

09/1999: University for Soil Science (BOKU), Vienna, Austria

05/1999: Forestry Commission Research Agency, Alice Holt, UK

04/1998 and 06/2004: University of Tuscia, Viterbo, Italy

04/1998: University of Bari, Italy

04/1998: University of Florence, Italy

04/1998: Oregon State University, Corvallis, USA

04/1998: INRA Nancy, Champenoux, France

10/1995: CNR, Florence, Italy

Training of foresters and biologists

Nine seminars and field exercises (between March 2001 and March 2002) in order to train more than 250 foresters from the Bavarian State Forestry and 30 biologists from the Bavarian river authorities in the detection of *Phytophthora* root and collar rot symptoms of alders, and in the biology, pathways and control of *Phytophthora alni*. These training units were the basis for the state-wide survey of the disease in forest and riparian ecosystems performed in Bavaria between August 2001 and May 2002.

Training of practitioners

Sixteen seminars (between February 2007 and March 2011) on the detection and management of *Phytophthora* diseases of trees for more than 500 practitioners from different Garden and Environmental Authorities and nursery owner associations in Germany.

Research and Professional Services

Participation in R&D projects and cooperation

11/2010 – 11/2014: COST Action FP 1002 “Pathway Evaluation and Pest Risk Management In Transport (PERMIT)“. Vice-Chair of the Action. Funded by the European Commission.

08/2009 – present: ‘Involvement of *Phytophthora* species in the decline of *Eucalyptus rudis* in riparian ecosystems in Western Australia’. Consultant and Supervisor of the Centre for *Phytophthora* Science and Management (CPSM), Murdoch University, Murdoch, Western Australia. Funded by Murdoch University and the State Centre of Excellence on Climate change and Woodland and Forest Health, Western Australia.

01/2009– 01/2012: ‘Identification and characterisation of *Phytophthora* isolates associated with alder decline in Spain’. External consultant and Supervisor of the Universidad de Valladolid, Departamento de Producción Vegetal y Recursos Forestales, Spain. Funded by the Universidad de Valladolid.

11/2008 – 11/2012: COST Action FP 0801 “Established and Emerging *Phytophthora*: Increasing Threats to Woodland and Forest Ecosystems in Europe”. Coordinator of Working Group 4 “Management and Control of *Phytophthora* Diseases”. Funded by the European Commission.

01/2008 – 12/2010: ‘Monitoring *Quercus* decay in Extremadura to check its relation with soil properties and the presence of *Phytophthora cinnamomi* and mycorrhizae’. External consultant and Supervisor of the Universidad de Extremadura in Plasencia, Spain. Funded by the Consejería de Industria, Energía y Medio Ambiente, Junta de Extremadura, Spain.

01/2008 – 12/2009: Bilateral project between Spain and Portugal ‘*Quercus* decay in the Iberian Peninsula: analysis of a cross-border problem’. External consultant and Supervisor of the Universidad de Extremadura in Plasencia, Spain. Funded by the UE - Ministerio de Educación y Ciencia (Acción Integrada España-Portugal), Madrid, Spain.

Since 08/2008: Project ‘Survival strategies of *Phytophthora cinnamomi* and other *Phytophthora* species in the Jarrah and Tingle Forest, the Banksia Woodlands and heathlands of Western Australia and potential eradication techniques’. Senior Research Associate (until 08/2009) and Adjunct Senior Lecturer (since 09/2009) at the Centre for *Phytophthora* Science and Management (CPSM), Murdoch University, Murdoch, Western Australia.

08/2008 - 12/2010: Project ‘Complex disease of beech – root and stem diseases of beech in deciduous stands of Lower Austria after climatic extremes’. Senior Researcher and external contractor of

the Federal Research and Training Centre for Forests, Natural Hazards and Landscape (BFW), Vienna, Austria.

- 05/2007 – present:** 'Potential role of *Phytophthora* species in the decline of *Eucalyptus gomphocephala* (tuart forest)'. Consultant and Supervisor of the Centre for *Phytophthora* Science and Management (CPSM), Murdoch University, Murdoch, Western Australia. Funded by Murdoch University, the Australian Research Council and industry partners.
- 04/2007 – 06/2011:** Classical and Molecular Taxonomy, Pathogenicity Testing and Evolutionary Biology of *Phytophthora* species. Consultant and Supervisor of the Centre for *Phytophthora* Science and Management (CPSM), Murdoch University, Murdoch, Western Australia. Funded by Murdoch University, the Cooperative Research Centre for National Plant Biosecurity, and the Department of Environment and Conservation of Western Australia.
- 05/2007 – present:** 'Efficacy of potassium phosphite in controlling soilborne and airborne *Phytophthora* species'. Ongoing cooperation with the University of Kiel and the company Agroplanta GmbH in Germany.
- 01/2007 – 12/2008:** Coordination Action '044436' 'European network on emerging diseases and invasive species threats to European Forest Ecosystems (FORTHREATS)'. Team member. Funded by the European Commission.
- 09/2006 – 12/2008:** Project 'Sviluppo e validazione di metodi molecolari per il monitoraggio di specie di *Phytophthora* nelle faggete e nei vivai di piante forestali (Development and validation of molecular methods aimed at the monitoring of *Phytophthora* species of beech stands and forest nurseries)' within the project 'Difesa e gestione delle faggete mediterranee (DIGESFAM) (Protection and management of mediterranean beech forests)'. External consultant and contractor of the Dipartimento di Gestione dei Sistemi Agrari e Forestali, Università Mediterranea di Reggio Calabria, Reggio Calabria, Italy. Funded by the Italian Ministry for Agriculture and Forestry (MIPAF).
- 01/2006 – present:** 'Control of the *Phytophthora* dieback of mature trees of European beech, oaks and linden trees with aerial and stem applications of potassium phosphite'. Principal Researcher. Funded by the Bavarian Administration of Castles, Gardens and Lakes, the city of Augsburg, Shelton Technologies, UK, Agrichem Ltd., Australia and Agroplanta GmbH, Germany.
- 06/2005 – 12/2007:** 'Modelling the susceptibility of the USA to *Phytophthora alni*.' Senior Researcher and external contractor of the Forest Health Technology Enterprise Team, Forest Health Protection, USDA Forest Service, Fort Collins, Colorado, USA and the University of Colorado. Funded by the USDA Forest Service.
- 05/2005 – 12/2005:** '*Phytophthora* disease of alder – distribution and disease intensity in alder stands in Vienna, Austria'. Senior Researcher and external contractor of the Federal Research and Training Centre for Forests, Natural Hazards and Landscape (BFW), Vienna, Austria. Funded by the River Authorities of the City of Vienna.
- 07/2004 - 03/2005:** Project F47 'Damages on beech in Bavaria – investigation of selected stands on potential infections by *Phytophthora* and risk assessment of the danger of disease spread via infested nursery stock'. Principal Researcher. Funded by the Bavarian State Ministry for Agriculture and Forestry, Munich, Germany.
- 01/2001 – 12/2004:** 'Investigations on the new alder mortality in the biosphere reserve Spreewald (causes, distribution, implications and control)'. External consultant of the Technical University of Dresden, Faculty of Forest Botany and Forest Zoology, Tharandt, Germany. Funded by the Brandenburg Ministry for Agriculture, Conservation and Development.

- 01/2001 – 06/2004:** Project F45 II 'Development of a management concept for the *Phytophthora* disease of alders in Bavaria'. Principal Researcher. Funded by the Bavarian State Ministry for Agriculture and Forestry, Munich, Germany.
- 01/2001 – 12/2002:** 'Investigations on fungal and fungal-like plant pathogenic microorganisms involved in oak decline in Saxony'. External consultant of the Technical University of Dresden, Faculty of Forest Botany and Forest Zoology, Tharandt, Germany. Funded by the Saxon Ministry for Environment, Agriculture, Food and Forestry (SML).
- 10/1999 – 10/2004:** 'Importance of *Phytophthora* spp. and nutrient availability for root vitality of pedunculate oak (*Quercus robur*)'. External Consultant and Supervisor of the University of Lund, Department of Plant Ecology, Forest Ecology, Lund, Sweden. Funded by AB Gustaf Kähr, Gustafsborgs Säteri AB, the National Board of Forestry, Region Skånes Miljövårdsfond, the Regional Board of Forestry, Sparbanksstiftelsen Kronan and Tarkett Sommer.
- 06/1999 – 02/2001:** Concerted Action 'FAIR 5 CT97 3615' '*Phytophthora* disease of alder in Europe: potential for damage; opportunities for limitation of pathogen spread, and for management and control'. Team member. Funded by the European Commission.
- 04/1999 – 04/2000:** Project F45 'Investigations on the *Phytophthora* disease of common alder and grey alder in Bavaria: occurrence of the alder pathogen in nurseries'. Research Associate. Funded by the Bavarian State Ministry for Food, Agriculture and Forestry, Munich, Germany.
- 01/1998 – 03/2001:** Project PATHOAK, 'FAIR CT97 3926' 'Long term dynamics of oak ecosystems: Assessment of the role of root pathogens and environmental constraints as interacting decline inducing factors'. Postdoctoral Research Fellow. Funded by the European Commission.
- 07/1997 – 06/2000:** ARC Project 901 'Development of molecular diagnostics for detecting and identifying *Phytophthora* species involved in oak decline in Europe' (07/1997-06/1999), 'Development of molecular diagnostics for detecting and identifying oak and beech root pathogens *Phytophthora syringae* and *P. undulata*, and AFLP analyses of *P. quercina* isolates.' (prolongation period 07/1999-06/2000). Team member. Cooperation with the Scottish Crop Research Institute, Dundee, UK. Funded by the Deutscher Akademischer Austauschdienst (DAAD) (British-German Academic Research Collaboration Program ARC).
- 01/1997 – 03/1999:** Project F44 'Screening for *Phytophthora* in stands of pedunculate and sessile oak in Bavaria on the basis of the Assessment of Forest Condition 1994: attempted correlation with crown transparency, root damages and site factors'. Postdoctoral Research Fellow. Funded by the Bavarian State Ministry for Food, Agriculture and Forestry, Munich, Germany.
- 04/1993 – 06/1997:** 'The *Phytophthora* disease of European oak species'. PhD student. Funded by the Allianz Foundation for the Protection of Environment, Munich, Germany.

Scientific research in foreign countries

- 2010:** **Portugal** (studies on the involvement of *Phytophthora* species in the decline of cork oak in the South of Portugal; studies on *Phytophthora* populations in rivers in the South of Portugal; studies on dieback of riparian *Alnus glutinosa* caused by *Phytophthora alni* in the North of Portugal, all in cooperation with the University of Algarve in Faro).
- Spain** (studies on the involvement of *Phytophthora* species in the decline of *Quercus faginea* and *Q. ilex* in the Valencian region, and studies on the characterisation and pathogenicity of several new *Phytophthora* species at the Instituto Agroforestal Mediterráneo, Universidad Politécnica de Valencia; studies on *Phytophthora* infestations of nurseries and oak plantations in Extremadura, and studies on the involvement of *Phytophthora* species in the decline of *Q. ilex* in Extremadura and La Mancha, at the Ingeniería Técnica Forestal, Universidad de Extremadura, in Plasencia).
- Australia** (studies on the survival strategies of *Phytophthora cinnamomi* and other *Phytophthora* species in different ecosystems at the CPSM in Murdoch).
- Austria** (studies on beech decline at the BFW in Vienna).
- Italy** (studies on *Phytophthora* infestations of horticultural plants).
- Sweden** (studies of beech decline in cooperation with the Southern Swedish Forestry Institute of SLU in Alnarp).
- 2009:** **Australia** (studies on the survival strategies of *Phytophthora cinnamomi* and other *Phytophthora* species in different ecosystems, and studies on the decline of tuart and rudis forests at the CPSM in Murdoch).
- Austria** (studies on beech decline at the BFW in Vienna).
- Italy** (studies on *Phytophthora* infestations of horticultural plants).
- Spain** (studies on oak decline, ink disease of chestnut and mortality of alders in cooperation with the Universities of Plasencia, Palencia and Valencia).
- 2008:** **Australia** (studies on the survival strategies of *Phytophthora cinnamomi* and other *Phytophthora* species in different ecosystems at the CPSM in Murdoch).
- Austria** (studies on beech at the BFW in Vienna).
- 2007:** **Australia** (studies on decline of tuart forests at the Centre for *Phytophthora* Science and Management (CPSM) in Murdoch).
- Italy** (studies on *Phytophthora* infestations of horticultural plants).
- 2006:** **Switzerland** (studies on oak decline).
- Italy** (studies on nursery infestations).
- 2005:** **Austria** (studies on alder mortality caused by *Phytophthora alni* at the Federal Research and Training Centre for Forests, Natural Hazards and Landscape (BFW) in Vienna),
- the Netherlands** (studies on decline of horse chestnuts in cooperation with the Dutch Plant Protection Service in Wageningen).
- 2004:** **Italy** (studies on beech decline at the University of Tuscia in Viterbo).
- Sweden** (studies on oak decline at Lund University).
- Switzerland** (studies on oak decline).
- 2002:** **Sweden** (studies on oak decline at Lund University).

- 2000: Luxembourg and Sweden** (studies on oak decline at Lund University).
- 1999: Scotland** (development of genetical markers for the detection of *Phytophthora quercina*, *Phytophthora cambivora* and *Phytophthora citricola* at the SCRI).
England (studies on oak decline at the Forest Research Agency in Farnham, Surrey).
- 1998: Scotland** (studies on oak decline and molecular studies of the genetic variability of *Phytophthora cambivora* and *Phytophthora citricola* at the SCRI).
France (studies on oak decline at INRA Nancy).
- 1997: Scotland** (molecular studies of the genetic variability of a European population of *Phytophthora quercina* at the Scottish Crop Research Institute SCRI in Dundee).
- 1995: Slovenia, Switzerland and Italy** (studies on oak decline in cooperation with the Slovenian Forestry Institute in Ljubljana, the ETH Zurich and the CNR in Florence).

Symposia and Congress Sessions Convened or Chaired

- Member of the scientific committee and co-organiser of the 6th Workshop of the IUFRO Unit 7.02.09 'Phytophthora in Forests and Natural Ecosystems' in Cordoba, Spain, October 2012.
- Member of the scientific committee for the 5th Workshop of the IUFRO Unit 7.02.09 'Phytophthora in Forests and Natural Ecosystems' in Rotorua, New Zealand, 7th – 12th March 2010.
- Organiser of the 3rd Workshop of the IUFRO Unit 7.02.09 'Phytophthora in Forests and Natural Ecosystems', Freising, Germany, 11th – 17th September 2004.

Referee for Journals

- Annals of Forest Science.
European Journal of Plant Pathology.
FEMS Microbiology Letters.
Forest Pathology.
Journal of Ecology.
Journal of Phytopathology.
Mycologia.
Mycological Research/Fungal Biology.
New Zealand Journal of Forestry Science.
Plant Disease.
Plant Pathology.

Publications

Peer reviewed journal articles

Citations, H-value and G-value calculated from Scopus on 04.11.2010.

H value = 15 G value = 24

1. Jung, T., Stukely, M.J.C., Hardy, G.E.St.J., White, D., Paap, T., Dunstan, W.A. & Burgess, T.I. (2011): Multiple new *Phytophthora* species from ITS Clade 6 associated with natural ecosystems in Australia: evolutionary and ecological implications. *Persoonia* 26: 13-39. DOI: 10.3767/003158511X557577.
2. Orlikowski, L.B., Ptaszek, M., Rodziewicz, A., Nechwatal, J., Thinggaard, K. & Jung, T. (2011): *Phytophthora* root and collar rot of mature *Fraxinus excelsior* in forest stands in Poland and Denmark. *Forest Pathology* 41: in press.
3. Rea, A.J., Burgess, T.I., Hardy, G.E.St.J., Stukely, M.J.C. & Jung, T. (2011): Two novel and potentially endemic species of *Phytophthora* associated with episodic dieback of kwongan vegetation in the south-west of Western Australia. *Plant Pathology* 60: in press.
4. Woodward, S., Vannini, A., Werres, S., Oßwald, W., Bonants, P. & Jung, T. (2011): COST Action FP0801 – Established and emerging *Phytophthora*: increasing threats to woodland and forest ecosystems in Europe. *New Zealand Journal of Forestry Science* 41: in press.
5. Corcobado, T., Cubera, E., Pérez-Sierra, A., Jung, T. & Solla, A. (2011): First report of *Phytophthora gonapodyides* involved in the decline of *Quercus ilex* in xeric conditions in Spain. *Plant Pathology* 60: in press.
6. Rea, A., Jung, T., Burgess, T.I., Stukely, M.J.C. & Hardy, G.E.St.J. (2010): *Phytophthora elongata* sp. nov. a novel pathogen from the *Eucalyptus marginata* forest of Western Australia. *Australasian Plant Pathology* 39: 477-491.
7. Nechwatal, J., Haug, P., Huber, C.V. & Jung, T. (2010): Studien zur Bekämpfung von *Phytophthora ramorum* an *Rhododendron* im Rahmen der Entwicklung eines Behandlungskonzeptes für Park- und Gartenanlagen ('Studies on the control of *Phytophthora ramorum* on *Rhododendron* for the development of management strategies in parks and gardens'). *Gesunde Pflanzen* 62: 53-62. DOI 10.1007/s10343-010-0221-y.
8. Solla, A., Pérez-Sierra, A., Corcobado, T., Haque, M.M., Diez, J.J. & Jung, T. (2010): *Phytophthora alni* on *Alnus glutinosa* reported for the first time in Spain. *Plant Pathology* 59, 798. Doi: 10.1111/j.1365-3059.2009.02254.x.
9. Jung, T. & Burgess T.I. (2009): Re-evaluation of *Phytophthora citricola* isolates from multiple woody hosts in Europe and North America reveals a new species, *Phytophthora plurivora* sp. nov. *Persoonia* 22, 95-110. Citations 6.
10. Jung, T., (2009): Beech decline in Central Europe driven by the interaction between *Phytophthora* infections and climatic extremes. *Forest Pathology* 39: 73-94. Doi: 10.1111/j.1439-0329.2008.00566.x. Citations 6.
11. Scott, P.M., Burgess, T.I., Barber, P.A., Shearer, B.L., Stukely, M.J.C., Hardy, G.E.St.J. & Jung, T. (2009): *Phytophthora multivora* sp. nov., a new species recovered from declining *Eucalyptus*,

- Banksia*, *Agonis* and other plant species in Western Australia. *Persoonia* 22: 1-13. Doi: 10.3767/003158509X415450. Citations 6.
12. Vettrano, A.M., Jung, T. & Vannini, A. (2008): First Report of *Phytophthora cactorum* associated with beech decline in Italy. *Plant Disease* 92: 1708. DOI: 10.1094/PDIS-92-12-1708A.
 13. Jung, T. & Nechwatal, J., (2008): *Phytophthora gallica* sp. nov., a new species from rhizosphere soil of declining oak and reed stands in France and Germany. *Mycological Research* 112: 1195-1205. Citations 6.
 14. Jung, T., Hudler, G.W., Jensen-Tracy, S.L., Griffiths, H.M., Fleischmann, F. & Oßwald, W. (2005) Involvement of *Phytophthora* species in the decline of European beech in Europe and the USA. *Mycologist* 19: 159-166. Citations 18.
 15. Jönsson, U., Jung, T., Sonesson, K. & Rosengren, U. (2005) Relationships between health of *Quercus robur*, occurrence of *Phytophthora* species and site conditions in southern Sweden. *Plant Pathology* 54: 502-511. Citations 17.
 16. Cooke, D.E.L., Jung, T., Williams, N.A., Schubert, R., Oßwald, W. & Duncan, J. (2005) Genetic diversity of European populations of the oak fine-root pathogen *Phytophthora quercina*. *Forest Pathology* 35: 1-14. Citations 16.
 17. Brasier, C.M., Kirk, S.A., Delcan, J., Cooke, D.E.L., Jung, T. & Man in't Veld, W.A. (2004) *Phytophthora alni* sp. nov. and its variants: designation of emerging heteroploid hybrid pathogens spreading on *Alnus* trees. *Mycological Research* 108: 1172-1184. Citations 59.
 18. Jung, T. & Blaschke, M (2004) *Phytophthora* root and collar rot of alders in Bavaria: distribution, modes of spread, and possible management strategies. *Plant Pathology* 53: 197-208. Citations 34.
 19. Jung, T., Nechwatal, J., Cooke, D.E.L., Hartmann, G., Blaschke, M., Oßwald, W.F., Duncan, J.M. & Delatour, C. (2003) *Phytophthora pseudosyringae* sp. nov., a new species causing root and collar rot of deciduous tree species in Europe. *Mycological Research* 107: 772-789. Citations 47.
 20. Jönsson, U., Lundberg, L., Sonesson, K. & Jung, T. (2003) First records of soilborne *Phytophthora* species in Swedish oak forests. *Forest Pathology* 33: 175-179. Citations 17.
 21. Jönsson, U., Jung, T., Rosengren, U., Nihlgard, B. & Sonesson, K. (2003) Pathogenicity of Swedish isolates of *Phytophthora quercina* to *Quercus robur* in two different soils. *New Phytologist* 158: 355-364. Citations 9.
 22. Jung, T. & Dobler, G. (2002) First report of littleleaf disease caused by *Phytophthora cinnamomi* on *Pinus occidentalis* in the Dominican Republic. *Plant Disease* 86: 1275. Citations 3.
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32. Jung, T. & Blaschke, H. (1996) *Phytophthora* root rot in declining forest trees. *Phyton (Austria)* 36: 95-102 (Special Issue). Citations 26.

Dissertations

1. Jung, T. (1996) Untersuchungen zur *Phytophthora* – Erkrankung europäischer Eichenarten mit besonderer Berücksichtigung der Stieleiche (*Quercus robur* L.): Ein Beitrag zur Klärung des Phänomens Eichensterben (Investigations on the *Phytophthora* disease of European oak species with special emphasis on pedunculate oak (*Quercus robur* L.): a contribution to clarify the phenomenon oak decline). PhD thesis, Institute of Forest Botany, Ludwig Maximilians University, Munich, pp. 138.
2. Jung, T. (1991) Untersuchungen zur in vitro - Toxigenität aus Eiche isolierter Arten der Gattungen *Ceratocystis* / *Ophiostoma* und *Fusarium* (Investigations on in vitro toxigenicity of *Ceratocystis* / *Ophiostoma* and *Fusarium* species from oak). Diploma thesis, Institute of Forest Botany, Ludwig Maximilians University, Munich, pp. 118.

Books (Author)

1. Jung, T. (1998) Die *Phytophthora* – Erkrankung der europäischen Eichenarten - wurzelzerstörende Pilze als Ursache des Eichensterbens (The *Phytophthora* disease of European oak species – root destroying fungi as cause of oak decline). Lincom Europe, Munich, pp. 143.

Books (Editor)

1. Brasier, C.M., Jung, T. & Oßwald, W. (eds) (2006) Progress in Research on *Phytophthora* Diseases of Forest Trees. *Proceedings of the 3rd International IUFRO Working Party 7.02.09 Meeting*, 11th –17th Sept. 2004, Freising, Germany. Forest Research, Farnham, Surrey, UK: pp. 181.

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1. Gibbs, J.N., Cech, T., Jung, T. & Streito, J.-C. (2003) Field studies on dissemination of the alder *Phytophthora* and disease development. In: *Phytophthora* disease of alder in Europe. (Gibbs, JN, Van Dijk, C and Webber, JF, eds), *Forestry Commission Bulletin* **126**: 55-64. Edinburgh, UK.

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1. Jung, T. & Blaschke, M. (2005) *Phytophthora* an Waldbäumen (*Phytophthora* in forest trees). *AFZ - Der Wald* 8/2005: 394-396.
2. Jung, T. (2005) Wurzel- und Stammschäden an Buchen (*Fagus sylvatica* L.) durch bodenbürtige *Phytophthora* - Arten in Bayern: Schadbilder, Verbreitung und Standortbezüge (*Phytophthora* root and collar rot and aerial bleeding cankers of beech (*Fagus sylvatica* L.) in Bavaria: symptoms, distribution and site relations). *Forst und Holz* 60: 131-139.
3. Jung, T. & Blaschke, M. (2005) Internationale Forstliche *Phytophthora* – Tagung in Freising (International conference in Freising on *Phytophthora* in forests). *Forst und Holz* 60: 28-31.
4. Cech, T. L. & Jung, T. (2005) *Phytophthora* – Wurzelhalsfäulen an Buchen nehmen auch in Österreich zu (*Phytophthora*-disease of European beech – an increasing problem in Austria). *Forstschutz Aktuell* 34, 2005: 7-8.
5. Jung, T. & Blaschke, M. (2004) Eichen und Buchen sind von eingeschlepptem Pilz bedroht (Oak and beech trees are endangered by an introduced fungus). *LWF aktuell* 45/2004: 27-28.
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7. Jung, T. (2004) *Phytophthora* schädigt Buchenbestände in ganz Bayern (*Phytophthora* is damaging beech stands all across Bavaria). *LWF aktuell* 43/2004: 36-37.
8. Jung, T. & Blaschke, M. (2003) Erfassung der Schäden durch die *Phytophthora*-Wurzelhalsfäule der Erle in forstlichen Beständen in Bayern (assessment of damages caused by *Phytophthora* root and collar rot of alders in forest stands in Bavaria). *LWF aktuell* 38/2003: 14-16.
9. Jung, T. & Blaschke, M. (2003) Ausmaß und Verbreitung der *Phytophthora* – Erkrankung der Erlen in Bayern, Ausbreitungswege und mögliche Gegenmaßnahmen (extent and distribution of the *Phytophthora* disease of alders in Bavaria, modes of spread and possible management strategy). *Forst und Holz* 58: 246-251.
10. Jung, T. & Blaschke, M. (2002) Schäden an Erlen (damages on alders). Deutsche Gesellschaft für Mykologie (German Mycological Society DGfM): Online publication: <http://dgfm-ev.de/www/eng/aktuelles/erlen.php3>, pp. 2.
11. Jung, T. & Blaschke, M. (2001) *Phytophthora* –Wurzelhalsfäule der Erlen (*Phytophthora* collar rot of alders). LWF Merkblatt (LWF leaflet) No. 6, Bavarian State Institute of Forestry (LWF), Freising, Germany, pp. 2 (http://www.lwf.bayern.de/publikationen/daten/merkblatt/p_33141.pdf).
12. Jung, T. & Blaschke, M. (2001) Gefahr für Erlen (Alders under threat). *Deutsche Baumschule* 10/2001: 42-43.

13. Jung, T., Blaschke, M., Schlenzig, A. & Oßwald, W. (2001) Mögliche Verbreitung der *Phytophthora*-Wurzelhalsfäule der Erlen mit infiziertem Baumschulmaterial? (Possible spread of *Phytophthora* root rot of alders via infected nursery stock?). Bund Deutscher Baumschulen e.V., *Verbandsorgan Grün* 04/2001.
14. Delatour, C., Desprez-Loustau, M.-L., Robin, C., Hansen, E.M., Brasier, C.M., Blaschke, H., Jung, T., Anselmi, P., Vannini, A., Vettrano, A.M., Bianco, M.C., Luisi, N., Paoletti, E., Barzanti, P., Capretti, P. & Ragazzi, A. (2001) Occurrence of *Phytophthoras* in oak stands. Chapter 2 in: 'Long term dynamics of oak ecosystems: assessment of the role of root pathogens and environmental constraints as interacting decline inducing factors', Final report of the EU project PATHOAK (FAIR CT 97-3926) (Delatour, C., ed), pp 21.
15. Delatour, C., Desprez-Loustau, M.-L., Robin, C., Marçais, B., Brasier, C.M., Blaschke, H., Jung, T., Oßwald, W., Anselmi, P., Vannini, A., Vettrano, A.M., Bianco, M.C., Luisi, N., Paoletti, E., Barzanti, P., Capretti, P. & Ragazzi, A. (2001) Pathogenicity of *Phytophthora* spp. and host susceptibility. Chapter 3 in: 'Long term dynamics of oak ecosystems: assessment of the role of root pathogens and environmental constraints as interacting decline inducing factors', Final report of the EU project PATHOAK (FAIR CT 97-3926) (Delatour, C., ed), pp 22.
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19. Jung, T., Blaschke, H., Lang, K.J. & Oßwald, W.F. (1996) *Phytophthora*-Wurzelfäule der Stiel- und Traubeneiche (*Phytophthora* root rot of pedunculate and sessile oak). *Allgemeine Forstzeitschrift* 26: 1470-1474.
20. Blaschke, H. & Jung, T. (1996) Symptome und Nachweis eines *Phytophthora*-Befalls an Eichen (Symptoms and identification of *Phytophthora* infections of oaks). In: Eichensterben in Deutschland (Oak decline in Germany). *Mitteilungen der Biologischen Bundesanstalt für Land- und Forstwirtschaft*, Berlin-Dahlem, Volume 318: 61-78.
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1. Jung, T., Vannini, A. & Brasier, C.M. (2009) Progress in understanding *Phytophthora* diseases of trees in Europe 2004-2007. In: Goheen EM, Frankel SJ. (eds), Proceedings of the fourth meeting of the International Union of Forest Research Organizations (IUFRO) Working Party S07.02.09, *Phytophthoras* in forests and natural ecosystems. Gen. Tech. Rep. PSW-GTR-221. Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station: 3-24.
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3. Jung, T., Downing, M., Thomas, V., Blaschke, M., Tuffly, M.F. & Reich, R. (2009) Modelling the potential distribution of *Phytophthora alni* root and collar rot of alders in Bavaria and preliminary application of the model to estimate the US susceptibility to *P. alni*. In: Goheen EM, Frankel SJ. (eds), Proceedings of the fourth meeting of the International Union of Forest Research Organizations (IUFRO) Working Party S07.02.09, *Phytophthoras* in forests and natural ecosystems. Gen. Tech. Rep. PSW-GTR-221. Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station: 136.
 4. Jung, T., Downing, M., Blaschke, M. & Vernon, T. (2007) *Phytophthora* root and collar rot of alders caused by the invasive *Phytophthora alni*: actual distribution, pathways, and modelled potential distribution in Bavaria. In: Alien Invasive Species and International Trade. (Evans, HF & Oszako, T, eds). *Proceedings of the 1st International IUFRO Unit 7.03.12 Meeting*, 3rd – 7th July 2006, Forest Research Institute, Warsaw: 10-18.
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 7. Jung, T. & Dobler, G. (2006) Littleleaf Disease caused by *Phytophthora cinnamomi* on *Pinus occidentalis* and *Pinus caribaea* in the Dominican Republic. Poster No. 28 in: Progress in Research on *Phytophthora* Diseases of Forest Trees. (Brasier, CM, Jung, T & Oßwald, W, eds). *Proceedings of the 3rd International IUFRO Working Party 7.02.09 Meeting*, 11th –17th Sept. 2004, Freising, Germany. Forest Research, Farnham, Surrey, UK.
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 14. Jung, T., Blaschke H. & Oßwald, W. (2002) Die Rolle von *Phytophthora* - Arten im Krankheitskomplex Eichensterben unter besonderer Berücksichtigung verschiedener Standortfaktoren (Involvement of *Phytophthora* species in oak decline and the influence of site factors on the disease). Abstract in: Waldumbau im globalen Wandel (Rebuilding forests under globale change). *Proceedings of the Forstwissenschaftliche Tagung (Conference of Forest Science) 2002*, 9th - 11th Oct. 2002, Göttingen, Germany. Forest Faculties of the Universities of Dresden, Freiburg, Göttingen and Munich: 15.
 15. Jung, T., Blaschke H. & Oßwald, W. (2000) Involvement of *Phytophthora* species in Central and Western European oak decline and the influence of site factors and nitrogen input on the disease. In: *Phytophthora* Diseases of Forest Trees. *Proceedings of the 'First International Meeting on Phytophthora's in Forest and Wildland Ecosystems'* (Hansen, EM and Sutton, W, eds) 30th Aug. – 3rd Sept. 1999, Grants Pass, Oregon: 28-33, Oregon State University, Corvallis, OR.
 16. Cooke, D.E.L., Jung, T., Williams, N.A., Schubert, R., Oßwald, W. & Duncan, J.M. (2000) A comparison of AFLP diversity in *Phytophthora quercina* and *Phytophthora citricola* populations. Abstract in: *Phytophthora* Diseases of Forest Trees. *Proceedings of the 'First International Meeting on Phytophthora's in Forest and Wildland Ecosystems'* (Hansen, EM and Sutton, W, eds) 30th Aug. - 3rd Sept. 1999, Grants Pass, Oregon: 101, Oregon State University, Corvallis, OR.
 17. Oßwald, W., Brummer, M., Schlenzig, A., Koehl, J., Jung, T., Heiser, I. & Matyssek, R. (2000) Investigations on photosynthesis of oak seedlings infected with *Phytophthora quercina* and characterization of the *P. quercina* toxin quercinin. In: *Phytophthora* Diseases of Forest Trees. *Proceedings of the 'First International Meeting on Phytophthora's in Forest and Wildland Ecosystems'* (Hansen, EM and Sutton, W, eds) 30th Aug. - 3rd Sept. 1999, Grants Pass, Oregon: 67-70, Oregon State University, Corvallis, OR.
 18. Schlenzig, A., Nechwatal, J., Jung, T., Cooke, D., Duncan, J. & Oßwald, W.F. (2000) Detection of *Phytophthora quercina* and *Phytophthora citricola* in field soil samples and in infected baiting leaves with PCR and specific primers. Abstract in: *Phytophthora* Diseases of Forest Trees. *Proceedings of the 'First International Meeting on Phytophthora's in Forest and Wildland Ecosystems'* (Hansen, EM and Sutton, W, eds) 30th Aug. - 3rd Sept. 1999, Grants Pass, Oregon: 137, Oregon State University, Corvallis, OR.
 19. Jung, T., Blaschke H. & Oßwald, W. (2000) Die Rolle von *Phytophthora* – Arten im Krankheitskomplex Eichensterben unter besonderer Berücksichtigung verschiedener Standortfaktoren (Involvement of *Phytophthora* species in oak decline and the influence of site

- factors on the disease). Abstract in: Forstwissenschaft - Modell für Interdisziplinarität (Forest science - model for multidisciplinaryity). *Proceedings of the Forstwissenschaftliche Tagung (Conference of Forest Science) 2000*, 11th - 15th Oct. 2000, Freiburg, Germany. Forest Faculties of the Universities of Dresden, Freiburg, Göttingen and Munich: 84.
20. Jung, T., Blaschke, M., Schlenzig, A., Oßwald, W. (2000) Verbreitung des neuartigen Erlensterbens durch *Phytophthora* spp. in Bayern (Distribution of *Phytophthora* related alder mortality in Bavaria). Abstract in: 52. Deutsche Pflanzenschutztagung (52nd German Plant Protection Conference), 9th -12th Oct. 2000, Freising, Germany. *Mitteilungen der Biologischen Bundesanstalt für Land- und Forstwirtschaft*, Berlin-Dahlem, Volume 376: 381.
 21. Jung, T., Blaschke H. & Oßwald, W. (2000) Die Rolle von *Phytophthora* – Arten im Krankheitskomplex Eichensterben unter besonderer Berücksichtigung verschiedener Standortfaktoren (Involvement of *Phytophthora* species in oak decline and the influence of site factors on the disease). Abstract in: 52. Deutsche Pflanzenschutztagung (52nd German Plant Protection Conference), 9th -12th Oct. 2000, Freising, Germany. *Mitteilungen der Biologischen Bundesanstalt für Land- und Forstwirtschaft*, Berlin-Dahlem, Volume 376: 249.
 22. Jung, T. (1999) Die Rolle von *Phytophthora*-Arten im Krankheitskomplex Eichensterben (Role of *Phytophthora* species in the disease complex oak decline). In: *Proceedings of the 4th Westdeutsche Baumpflegetage*. 3rd – 4th Nov. 1999, Cologne, Germany: 12 pp, AG Westdeutsche Baumpflegetage, Cologne, Germany.
 23. Blaschke, H., Jung, T., Heyne, C., Oßwald, W. & Matyssek, R. (1999) The relationships between the health status of oaks and the presence of *Phytophthora* spp. in the soil: a field assessment at sites in Bavaria. Poster presented at the workshop of the COST E6 / EUROSILVA Working Group III 'Biotic and abiotic interactions', 9th-12th Sept. 1999, Gozd Matuljek, Slovenia.
 24. Heiser, I., Fromm, J., Giefing, M., Koehl, J., Jung, T. & Oßwald, W. (1999) Mechanismus der Schädigung von Tabakpflanzen durch Toxine von *Phytophthora quercina*, *P. citricola* und *P. gonapodyides*. In: Bielefelder Ökologische Beiträge Volume 14. Ökophysiologie pflanzlicher Interaktionen. Ergebnisse der 3. Jahrestagung des Arbeitskreises "Experimentelle Ökologie der Pflanzen" in der GfÖ (Ecophysiology of plant interactions. Results of the 3rd annual meeting of the workshop 'experimental ecology of plants' of the Ecological Society).(Beyschlag W and Steinlin T, eds), Bielefeld, 8th-9th May 1998, Issue 1, 103-115.
 25. Schubert, R., Bahnweg, G., Nechwatal, J., Jung, Müller-Starck, G., T., Langebartels, C., Sandermann, H. Jr., Cooke, D.E.L., Duncan, J.M. & Oßwald, W. (1998) Detection and quantification of *Phytophthora* species which are associated with root-rot diseases in European deciduous forests by species-specific PCR. Abstract in: Forest growth responses to the pollution climate of the 21st Century. *Proceedings of the 18th International IUFRO Meeting for Specialists in Air Pollution Effects on Forest Ecosystems*. 21st – 23rd Sept. 1998, Edinburgh, UK: 100, Heriot-Watt University, Edinburgh, UK.
 26. Jung, T., Blaschke H. & Oßwald, W. (1998) Involvement of *Phytophthora* species in Central European oak decline and the influence of site factors and nitrogen input on the disease. Abstract in: Forest growth responses to the pollution climate of the 21st Century. *Proceedings of the 18th International IUFRO Meeting for Specialists in Air Pollution Effects on Forest Ecosystems*. 21st - 23rd Sept. 1998, Edinburgh, UK: 46, Heriot-Watt University, Edinburgh, UK.
 27. Jung, T., Blaschke H. & Oßwald, W. (1998) Isolation, identification, geographical distribution and pathogenicity of *Phytophthora* species from declining oak and beech stands in Europe. Abstract in: Disease / Environment Interactions in Forest Decline. *Proceedings of a workshop of the IUFRO Working Party 'Disease / Environment Interactions in Forest Decline'*. (Cech TL, Hartmann

- G and Tomiczek C, eds), 16th-21st March 1998, Vienna, Austria: 200, Federal Forest Research Centre, Vienna, Austria.
28. Blaschke H. & Jung T. (1998) Decline symptoms on root systems of European beech and oak species caused by *Phytophthora* spp. In: Disease / Environment Interactions in Forest Decline. *Proceedings of a workshop of the IUFRO Working Party 'Disease / Environment Interactions in Forest Decline'*. (Cech TL, Hartmann G and Tomiczek C, eds), 16th-21st March 1998, Vienna, Austria: 9-13, Federal Forest Research Centre, Vienna, Austria.
 29. Jung, T. & Paoletti, E. (1997) Cambiamento globale e deperimento del leccio: il caso di *Phytophthora quercina*. Poster presented at "Primo Congresso SISEF 'La Ricerca Italiana per le foreste e la selvicoltura'", 4th-6th June 1997, Agripolis, Legnaro (PD), Italy.
 30. Oßwald, W.F., Heiser, I., Albrecht, A., Giefing, M., Baker, R., Jung, T., Matyssek, R. & Elstner, E.F. (1997) Investigations on the action of fungal toxins on plants (A mechanism also relevant for declining oak trees?) Poster presented at the workshop of the COST E6 / EUROSILVA Working Group III 'Biotic and abiotic interactions', 1997, Oulu, Finland.
 31. Jung, T. & Blaschke, H. (1996) *Phytophthora* root rot in declining forest trees. In: *Proceedings of the International Colloquium on 'Bioindication of Forest Site Pollution: Development of Methodology and Training BIOFOSP'*. (Kraigher H, Batič F, Hanke DE, Agerer R and Grill D, eds), 22nd-31st Aug. 1995, Ljubljana, Slovenia: 153-157, Slovenian Forestry Institute, Ljubljana, Slovenia.

Communications

Oral communications in conferences

- 06/2010:** 2nd full meeting of COST Action FP 0801 "Established and Emerging *Phytophthora*: Increasing Threats to Woodland and Forest Ecosystems in Europe", in Viterbo, Italy: 'Efficacy of potassium phosphite in controlling *Phytophthora*-mediated decline of mature *Fagus sylvatica*, *Quercus robur* and *Tilia cordata*, and shoot dieback of *Rhododendron*'.
- 03/2010:** Keynote at the 5th International IUFRO Unit 7.02.09 Meeting on '*Phytophthora* in Forests and Natural Ecosystems' in Rotorua, New Zealand: 'Progress in understanding *Phytophthora* diseases of trees in Europe 2008-2010' ; 'New insights into the survival strategy of *Phytophthora cinnamomi* in forests, woodlands and heathlands in Western Australia'.
- 09/2009:** 2nd Workshop of Working Group 3 'Diagnostics of *Phytophthora* species' and Working Group 4 'Management and Control of *Phytophthora* Diseases', Faro, Portugal: 'Widespread *Phytophthora* infestations of nurseries in Central Europe and their role as primary pathway of *Phytophthora* diseases of trees', 'Management of *Phytophthora* diseases in forests and natural ecosystems in Australia'.
- 08/2008:** 9th International Congress of Plant Pathology, Turin, Italy: 'Involvement of *Phytophthora* root and bark infections in the widespread decline of European beech in Bavaria'.
- 08/2008:** 3rd International *Phytophthora*, *Pythium* and related genera Workshop, Turin, Italy: 'Widespread *Phytophthora* infestations of nursery stock in Central Europe as major pathway of *Phytophthora* diseases of forests and semi-natural ecosystems'.
- 08/2007:** 4th International IUFRO Unit 7.02.09 Meeting on '*Phytophthora* in Forests and Natural Ecosystems', Monterrey, California: Keynote presentation: 'Further progress in understanding *Phytophthora* diseases of trees in Europe', 'Widespread *Phytophthora* infestations of nurseries in

- Germany and Austria and their role as primary pathway of *Phytophthora* diseases of trees', 'Modelling the potential distribution of *Phytophthora alni* root and collar rot of alders in Bavaria and preliminary application of the model to estimate the US susceptibility to *P. alni*'.
- 02/2007:** First meeting of the 'European network on emerging diseases and invasive species threats to European Forest Ecosystems (FORTHREATS)', Uppsala, Sweden: '*Phytophthora* diseases of trees – an increasing threat to European forests'.
- 07/2006:** First International IUFRO Unit 7.03.12 Meeting on Alien Invasive Species and International Trade, Jedlnia, Poland: '*Phytophthora* root and collar rot of alders by the invasive *Phytophthora alni*: actual distribution, pathways, and modeled potential distribution in Bavaria.'
- 11/2005:** International Conference "Possible limitation of dieback phenomena in broadleaved stands through silvicultural and protective measures", Puszczykowo, Poland: 'Involvement of *Phytophthora* species in the decline of broadleaved stands in Germany'.
- 09/2004:** Third International IUFRO Unit 7.02.09 Meeting on *Phytophthora* in Forests and Natural Ecosystems, Freising, Germany: '*Phytophthora* dieback of alders in Bavaria: distribution, pathways and management strategies', 'Root and collar rot and aerial bleeding cankers of beech in Bavaria caused by *Phytophthora* spp.'.
- 05/2003:** Conference „black alder - tree of the year 2003“, Rott / Inn, Germany: '*Phytophthora* root and collar rot of alders in Bavaria: distribution, pathways and management options'.
- 05/2003:** Conference „black alder tree of the year 2003“, Burg im Spreewald, Germany: 'Extent and distribution of the *Phytophthora* disease of alders in Bavaria, modes of spread and possible management strategy'.
- 10/2002:** Forstwissenschaftliche Tagung (Conference of Forest Sciences) 2002, University of Göttingen, Germany: 'Involvement of *Phytophthora* species in oak decline and the influence of site factors on the disease'.
- 10/2001:** Second International IUFRO Unit 7.02.09 Meeting on *Phytophthora* in Forests and Natural Ecosystems, Murdoch University, Albany, West-Australian: '*Phytophthora* disease of alders in Bavaria: extent of damage, mode of spread, and management strategies', 'Effect of environmental constraints on *Phytophthora* – mediated oak decline in Central Europe'.
- 10/2000:** Forstwissenschaftliche Tagung (Conference of Forest Sciences) 2000, University of Freiburg, Germany: 'Involvement of *Phytophthora* species in oak decline and the influence of site factors on the disease'.
- 10/2000:** 52nd German Plant Protection Conference, German Phytomedical Society, Freising, Germany: 'Involvement of *Phytophthora* species in oak decline and the influence of site factors on the disease'.
- 11/1999:** 4th Westdeutsche Baumpflegetage (4th Western German Meeting on Arboriculture), Cologne, Germany: 'Role of *Phytophthora* species in the disease complex oak decline'.
- 09/1999:** First International IUFRO Unit 7.02.09 Meeting on *Phytophthora*'s in Forest and Wildland Ecosystems, Oregon State University, Grants Pass, Oregon: 'Involvement of *Phytophthora* species in Central and Western European oak decline and the influence of site factors and nitrogen input on the disease'.
- 09/1998:** 18th International IUFRO Meeting for Specialists in Air Pollution Effects on Forest Ecosystems, Heriot-Watt University, Edinburgh, UK: 'Involvement of *Phytophthora* species in Central European oak decline and the influence of site factors and nitrogen input on the disease'.

- 05/1998:** 3rd annual meeting of the Working Party 'Experimental Ecology of Plants' of the Ecological Society, Bielefeld, Germany: 'Involvement of root pathogenic *Phytophthora* species in European oak decline'.
- 03/1998:** Workshop of the IUFRO Working Party 'Disease / Environment Interactions in Forest Decline', Federal Office and Research Centre for Forests (BFW), Vienna, Austria: 'Isolation, identification, geographical distribution and pathogenicity of *Phytophthora* species from declining oak and beech stands in Europe'.
- 09/1995:** Eichensterben in Deutschland: Situation, Ursachenforschung und Bewertung (Oak decline in Germany: situation, causes and evaluation). Symposium at the Forest Research Station of Lower-Saxony in Göttingen, Germany: 'Symptome und Nachweis eines *Phytophthora*-Befalls an Eichen (symptoms and detection of *Phytophthora* infections in oaks)'.
- 08/1995:** International Colloquium on 'Bioindication of Forest Site Pollution: Development of Methodology and Training BIOFOSP', Slovenian Forestry Institute, Ljubljana, Slovenia: '*Phytophthora* root rot in declining forest trees'.

Posters in conferences

- 03/2010:** 5th International IUFRO Unit 7.02.09 Meeting on '*Phytophthora* in Forests and Natural Ecosystems' in Rotorua, New Zealand:
- 'Rea A., Jung T., Stukely M., Burgess T. & Hardy G.: Three new pathogenic *Phytophthora* species from natural ecosystems in the southwest of Western Australia',
- 'Edwards K., Dunstan W., Jung T. & Hardy G.: *Phytophthora* species associated with declining *Eucalyptus rudis* (Flooded Gum) in Western Australia',
- 'Corcobado T., Pérez-Sierra A., Haque M.M., Diez J.J., Jung T. & Solla A.: *Phytophthora* collar rot of alders in the Iberian Peninsula',
- 'Solla A., Pérez-Sierra A., Corcobado T., Haque M.M., Diez J.J. & Jung T.: First report of *Phytophthora alni* on *Alnus glutinosa* in Spain'.
- 08/2008:** 9th International Congress of Plant Pathology, Turin, Italy:
- 'Jung T.: Involvement of *Phytophthora* root and bark infections in the widespread decline of European beech in Bavaria'.
- 09/2004:** Third International IUFRO Unit 7.02.09 Meeting on *Phytophthora* in Forests and Natural Ecosystems, Freising, Germany:
- 'Jung, T. & Dobler, G.: Littleleaf Disease caused by *Phytophthora cinnamomi* on *Pinus occidentalis* and *Pinus caribaea* in the Dominican Republic'.
- 04/2005:** 13th Augsburger Baumpflegetage (13th Augsburg Meeting on Arboriculture), Augsburg, Germany:
- 'Jung, T. & Blaschke, M.: Die *Phytophthora* – Erkrankung der Erlen in Bayern: Erste Empfehlungen zum Umgang mit der Erkrankung (*Phytophthora* disease of alders in Bavaria: preliminary recommendations on disease management)'.
- 10/2000:** 52nd German Plant Protection Conference, 9th -12th Oct. 2000, Freising, Germany:
- 'Jung, T., Blaschke, M., Schlenzig, A., Oßwald, W.: Verbreitung des neuartigen Erlensterbens durch *Phytophthora* spp. in Bayern (distribution of *Phytophthora* related alder mortality in Bavaria).'

09/1999: Workshop of the COST E6 / EUROSILVA Working Group III 'Biotic and abiotic interactions', Gozd Matuljek, Slovenia:

'Blaschke, H., Jung, T., Heyne, C., Oßwald, W. & Matyssek, R.: The relationships between the health status of oaks and the presence of *Phytophthora* spp. in the soil: a field assessment at sites in Bavaria.'

06/1997: Primo Congresso SISEF 'La Ricerca Italiana per le foreste e la selvicoltura', Agripolis, Legnaro (PD), Italy:

'Jung, T. & Paoletti, E.: Cambiamento globale e deperimento del leccio: il caso di *Phytophthora quercina* (Global change and the decay of holm oak: the case of *Phytophthora quercina*).'

09/1997: Workshop of COST E6 / EUROSILVA Working Group III 'Biotic and abiotic interactions', 1997, Oulu, Finland:

'Oßwald, W.F., Heiser, I., Albrecht, A., Giefing, M., Baker, R., Jung, T., Matyssek, R. & Elstner, E.F.: Investigations on the action of fungal toxins on plants (A mechanism also relevant for declining oak trees?).'

Non-published presentations on Phytophthora as invited speaker

2010: Department of Forest Sciences, ETH Zurich, Switzerland.

Murdoch University, Perth, Western Australia.

University of Algarve, Faro, Portugal.

Southern Swedish Forest Research Centre, Swedish University of Agricultural Sciences, Alnarp, Sweden.

2009: Department of Forest Sciences, ETH Zurich, Switzerland.

University of Extremadura, Plasencia, Spain.

Akademie Landschaftsbau Weihenstephan GmbH (Academy for Landscaping Weihenstephan), Freising, Germany.

2008: Christian-Albrechts-Universität, Kiel.

Forestry and Agricultural Biotechnology Institute (FABI), University of Pretoria, South Africa.

Department of Forest Sciences, ETH Zurich, Switzerland.

Annual meeting of the Bund Deutscher Baumschulen (Association of German Nurseries) BdB in Bonn, Germany.

2007: Murdoch University, Perth, Western Australia.

Australasian Plant Pathology Society, Perth, Western Australia.

Department of Forest Sciences, ETH Zurich, Switzerland.

2006: Bavarian State Institute for Agriculture, Freising, Germany.

2005: University of Konstanz, Germany.

Annual Meeting of the Schutzgemeinschaft Deutscher Wald SDW, Ratzeburg, Germany.

2004: Federal Office and Research Centre for Forests, Vienna, Austria.

University of Tuscia, Viterbo, Italy.

- 2003:** First Göttinger Colloquium for Forest Protection, Forest Research Station of Lower Saxony, Göttingen, Germany.
Forest Research Station of Baden-Württemberg, Freiburg, Germany.
- 2002:** Department of Plant Ecology, Lund University, Sweden.
Institute for Forest Botany and Forest Entomology, Technical University Dresden, Germany.
Forest Research Agency, Farnham, UK.
- 2001:** Institute of Forest Entomology, Forest Pathology and Forest Protection, University for Soil Science (BOKU), Vienna, Austria.
- 2000:** Department of Plant Ecology, Lund University, Sweden.
Annual meeting of the Erzeugergemeinschaft Forstbaumschulen Süddeutschland (Association of Forest Nurseries Southern Germany) EZG in Ulm, Germany.
- 1999:** Forest Research Agency, Farnham, UK.
Plant Protection Service, Wageningen, Netherlands.
- 1998:** Scottish Crop Research Institute, Dundee, UK.
- 1997:** Scottish Crop Research Institute, Dundee, UK.
- 1996:** INRA Nancy, Champenoux, France.
Institute of Forest Protection and Dendrology, ETH Zürich, Switzerland.
- 1995:** Institute of Specific Botany and Mycology, University of Tübingen, Germany

Participation in Conferences and other Scientific Meetings

Meetings with published papers (see list of publications)

- 06/2010:** 2nd full meeting of COST Action FP 0801 “Established and Emerging *Phytophthora*: Increasing Threats to Woodland and Forest Ecosystems in Europe”, in Viterbo, Italy.
- 03/2010:** Keynote speaker at the 5th International IUFRO Unit 7.02.09 Meeting on ‘*Phytophthora* in Forests and Natural Ecosystems’ in Rotorua, New Zealand.
- 09/2009:** 2nd Workshop of Working Group 3 ‘Diagnostics of *Phytophthora* species’ and Working Group 4 ‘Management and Control of *Phytophthora* Diseases’, of COST Action FP 0801 “Established and Emerging *Phytophthora*: Increasing Threats to Woodland and Forest Ecosystems in Europe”, in Faro, Portugal.
- 08/2008:** 3rd International *Phytophthora*, *Pythium* and related genera Workshop, Turin, Italy.
- 08/2008:** 9th International Congress of Plant Pathology, Turin, Italy.
- 08/2007:** Keynote speaker at the 4th International IUFRO Unit 7.02.09 Meeting on ‘*Phytophthora* in Forests and Natural Ecosystems’ in Monterey, California.
- 07/2006:** First International IUFRO Unit 7.03.12 Meeting on Alien Invasive Species and International Trade, Jedlnia, Poland.
- 11/2005:** International Conference “Possible limitation of dieback phenomena in broadleaved stands through silvicultural and protective measures”, Puszczykowo, Poland.

- 04/2005:** 13th Augsburger Baumpflegetage (13th Augsburg Meeting on Arboriculture), Augsburg, Germany
- 09/2004:** Third International IUFRO Unit 7.02.09 Meeting on *Phytophthora* in Forests and Natural Ecosystems, Freising, Germany.
- 05/2003:** Conference „black alder - tree of the year 2003“, Rott / Inn, Germany (published in Beiträge zur Schwarzerle, *LWF-Bericht 42*).
- 05/2003:** Conference „black alder tree of the year 2003“, Burg im Spreewald, Germany (published in *Forst und Holz 58*).
- 10/2002:** Forstwissenschaftliche Tagung (Conference of Forest Science) 2002, Göttingen, Germany.
- 10/2001:** Second International IUFRO Unit 7.02.09 Meeting on *Phytophthora* in Forests and Natural Ecosystems, Murdoch University, Albany, West-Australien.
- 10/2000:** 52nd German Plant Protection Conference, German Phytomedical Society, Freising, Germany.
- 10/2000:** Forstwissenschaftliche Tagung (Conference of Forest Science) 2000, Freiburg, Germany.
- 11/1999:** 4th Westdeutsche Baumpflegetage, Cologne, Germany.
- 09/1999:** First International IUFRO Unit 7.02.09 Meeting on *Phytophthora*'s in Forest and Wildland Ecosystems, Oregon State University, Grants Pass, Oregon.
- 09/1998:** 18th International IUFRO Meeting for Specialists in Air Pollution Effects on Forest Ecosystems, Heriot-Watt University, Edinburgh, UK.
- 05/1998:** 3rd annual meeting of the working party 'experimental ecology of plants' of the Ecological Society, Bielefeld, Germany.
- 03/1998:** Workshop of the IUFRO Working Party 'Disease / Environment Interactions in Forest Decline', Federal Forest Research Centre, Vienna, Austria.
- 09/1995:** Eichensterben in Deutschland: Situation, Ursachenforschung und Bewertung (Oak decline in Germany. Situation, causes and evaluation.) Symposium at the Forest Research Station of Lower-Saxony in Göttingen, Germany (published in *Mitteilungen der Biologischen Bundesanstalt für Land- und Forstwirtschaft*, Berlin-Dahlem, Volume **318**).
- 08/1995:** International Colloquium on 'Bioindication of Forest Site Pollution: Development of Methodology and Training BIOFOSP', Slovenian Forestry Institute, Ljubljana, Slovenia.

Scientific meetings with summarizing reports

- 11/2008:** Fourth meeting of the 'European network on emerging diseases and invasive species threats to European Forest Ecosystems (FORTHREATS)', Florence, Italy (no talk presented).
- 05/2008:** Third meeting of the 'European network on emerging diseases and invasive species threats to European Forest Ecosystems (FORTHREATS)', Vilnius and Palanga, Lithuania (no talk presented).
- 09/2007:** Second meeting of the 'European network on emerging diseases and invasive species threats to European Forest Ecosystems (FORTHREATS)', Brno, Czech Republic (no talk presented).
- 02/2007:** First meeting of the 'European network on emerging diseases and invasive species threats to European Forest Ecosystems (FORTHREATS)', Uppsala, Sweden.
- 11/2000:** Meeting of Task Leaders of the EU Concerted Action "*Phytophthora* disease of alder", Gembloux, Belgium.
- 06/2000:** Meeting of Task Leaders of the EU Concerted Action "*Phytophthora* disease of alder", Stourport on Severn, UK.
- 1998-2001:** Four workshops of the EU project „Long term dynamics of oak ecosystems: Assessment of the role of root pathogens and environmental constraints as interacting decline inducing factors”, (Project PATHOAK, „FAIRCT973926”), in Freising (Germany), Nancy (France), Viterbo (Italy) and Bordeaux (France).