

RNDr. Miroslav Vosátka, CSc.

Education:

- Mgr.M.Sc. (1987), CSc. ekv. Ph.D. (1993) Field: Biology - chemistry (1981-1986), Charles University, Prague
- Diploma thesis: Investigation of VAM symbiosis in the hardwood stands on the air polluted areas and spoil banks in Northern Bohemia.
- PhD thesis: Institute of Botany, (1988-1993) Occurrence and applications of AM fungi in agro-ecosystems.

Employment:

- Institute of landscape ecology ASCR, (1981),
- Institute of Botany, Půhonice (1988 - present).
- 1999 - 2004 Head of Department of Mycorrhizal Symbioses (3 Drs., 5 PhDs, 2 technicians, 3 undergraduate students)
- Since 2004 Head of Scientific Division I of the Institute of Botany (9 scientific departments, 120 scientists)
- Coordinator of the Research Centrum Bio-indication and Revitalisation - focused on developing new technologies in biosciences among them application of microbes in remediation projects in degraded ecosystems (project group of 45 people).
- Since 1999 External lecturer at the Department of plant physiology, Charles University in Prague, Supervising Diploma and PhD students including foreign students from Spain, Portugal, Iceland, Mongolia.
 - **Diploma students:** Zuzana Sýkorová, Enkhtuya Batkhuu, Radka Malcová, Hana Plachá, Dept. of Botany, Dept. of Plant physiology, Faculty of Sciences, Charles University, Prague
 - PhD students:** Radka Malcová, Enkhtuya Batkhuu, Martina Janoušková, Rui Oliveira, Ondřej Koukol, Martin Vohník, David Puschel, Ulfur Oskarson, Estefania Peres
- Since 2006 External lecturer at the Department of plant physiology Masaryk University, Brno.
- Since 2005 Supervisor of EU Leonardo programme, leader of the student projects at University of Porto, Portugal
- Member of Editorial board of International Journal of Mycorrhiza (since 2004)

Business experience

- 1999- manager and research consultant of Symbiom Ltd., Czech producer of mycorrhizal fungi inocula, development of mycorrhizal products, isolation of fungi for gene bank, research leader of the licensing projects and JV project for establishment of mycorrhiza production units in South Africa, Pakistan and Colombia.
- Formation of European distribution network of Symbiom® brand: current network in 2010 - Czech Republic, Slovakia, Hungary, Italy, Netherlands, Portugal, Austria, Turkey, Belgium, Greece, UK, Norway.
- Since 2000 – Production director of PlantWorks, Ltd. Sittingbourne, Kent Science Park, advisory on production and marketing and application of mycorrhizal fungi and participating in technology licensing projects to Kenya, Iceland, United Arab Emirates
- 2003-2006 – chairman of Federation of European producers of mycorrhizal fungi inocula (FEMFiP)

Participation and co-ordination of the following scientific grant projects finalized or started during the period 1995-2008

1. 1993-1996 - EC COST (European Cooperation in Science and Technology) PECO grant No. 926125: The influence of root and VA mycorrhiza associated bacteria and its products on the development of mycorrhizal infection and on plant growth response to inoculation by VAM fungi. Institute of Botany, ASCR - principal investigator, co-operation with Institute of Microbiology, ASCR (Academy of Sciences of the Czech Republic)
2. 1993-1995 Grant Agency of the Czech Republic (GA CR) (grant No. 502-93-0665 Proliferation of AM fungi propagules in non-symbiotic phase of life cycle) Institute of Botany, ASCR - principal investigator, co-operation with Institute of Microbiology, ASCR
3. 1994-1996 GA CR (grant No. 502-94-0834 Rhizosphere activation of the transplanted tissue cultured plants by inoculation with mycorrhizal fungi and soil bacteria) Institute of Botany, ASCR - coordinator, co-operation with Institute of Microbiology, ASCR
4. 1994-1996 GA CR (grant No. 502-94-0521 Plant-soil-fungi interaction in declining spruce forests) Institute of Botany, ASCR - coordinator, co-operation with Institute of Microbiology, ASCR
5. 1994-1997 COST 821.10 and Ministry of Education of the CR (Relationship between organic carbon, soil microflora and AMF with respect to symbiosis effectiveness) Institute of Botany, ASCR - principal investigator, co-operation with Institute of Microbiology, ASCR
6. 1995-1997 Linkage grant NATO Scientific Affairs Division (grant No. ENVIR.LG.950923 Isolation of AMF from polluted soils for rehabilitation of degraded ecosystems) project coordinator, co-operation with The International Institute of Biotechnology, MIRCEN, UNESCO and University of Kent, UK
7. 1995-1998 Ministry of Education of the Czech Republic (KONTAKT grant No. ME063 Isolation of AMF from polluted soils for rehabilitation of degraded ecosystems; NATO grant support) - Institute of Botany, ASCR co-ordinator
8. 1997-1999 GA CR (grant No. 526-97-0595 Regulation of proliferation of vegetative mycelium of AMF) Institute of Botany, ASCR - principal investigator, co-operation with Institute of Microbiology, ASCR
9. 1997-1999 Grant Agency of the Academy of Sciences of the CR (grant No. A6005705 The role of AMF in the plant establishment, growth and coexistence on disturbed soils) Institute of Botany, ASCR
10. 1998-1999 Ministry of Education of the Czech Republic (KONTAKT grant No. ME 254 project of Slovenia-Czech Republic: Ecophysiology of arbuscular and ericoid mycorrhizal fungi) Institute of Botany, ASCR co-ordinator
11. 1998-1999 Agency of Nature Conservation (AOPK) Potential of mycorrhizal inoculations of endangered species propagated in tissue cultures. Institute of Botany, AS CR principal investigator, co-operation with AOPK and Institute of Forestry.
12. 1999-2001 GA CR (grant No. 526-99-0895 Ecophysiology and application of arbuscular mycorrhizal fungi from degraded ecosystems) Institute of Botany, ASCR
13. 1999-2001 GA CR (grant No. 526-99-P032 Role of arbuscular mycorrhizal fungi in uptake and accumulation of heavy metals by plants) postdoctoral project of Dr. J. Rydlová, Institute of Botany, ASCR
14. 1999-2004 Ministry of Education of the Czech Republic (COST OC 838.10 Edaphic factors influencing sporulation and development of arbuscular mycorrhizal fungi) Institute of Botany, ASCR coordinator, co-operation with Institute of Microbiology, ASCR

15. 2001-2003 GA CR (grant No. 526-01-1292) Study of metabolism and interaction of rhizosphere microorganisms with plant systems at degradation of organic pollutants in the soil. Institute of Botany, ASCR coordinator, co-operation with Institute of Biochemistry and Molecular Biology, ASCR
16. 2002-2004 GA CR (grant No. 526-02-0293) The role of mycorrhizal fungi in uptake of heavy metals by transgenic plants: a potential phytoremediation model. Institute of Botany, ASCR coordinator
17. 2003-2005 EU 5th Framework project: Genes and genetic engineering for arbuscular mycorrhiza technology and applications in sustainable agriculture (GENOMYCA), coordinator INRA, Dijon, France, 13 European participants –Effect of AM fungi from contaminated soils on heavy metals uptake.
18. 2004-2006 Research project funded by Phillip Morris International, Using AM fungi for reduction of cadmium in tobacco, coordinator
19. 2005-2009 Ministry of Education of the Czech Republic, Centre for Bioindication and Revitalisation, coordinator, application of AM fungi and bacteria in revitalisation, using algae for biofuel, detection of cyanobacteria in water
20. 2005-2008 GA CR (grant No. 526-02-0293) Role of mycorrhizas in P cycling in declining spruce forest.
21. 2006-2009 GA CR (grant No. 526) Local adaptation of *Aster amellus*
22. 2008-2011 Norwegian funds, Tree plantation for biomass for decontamination of heavy metal contaminated sites, coordinator.
23. 2009-2012 Ministry of Industry and Trade of the Czech Republic, Development of Strigolactone (STRLG) application technologies for their agrotechnical use, coordinator.

Active participation at selected international conferences:

- Practical Applications of AMF, COST 8.21 Meeting, Hanover, Germany, 1995 (lecture)
- Third European Symposium on Mycorrhizae, Granada, Spain 1995 (invited lecture)
- Functional Ecology of AMF in Natural Ecosystems Future Structure and Development of the European Bank of the Glomales, COST 8.21, Canterbury, UK, 1996 (lecture, 3x poster)
- Abiotic Stress Alleviation by AMF, COST 8.21 Meeting, Budapest, Hungary, 1996 (lecture)
- Transport and Metabolism in Arbuscular Mycorrhizae, COST 8.21 Meeting, Roskilde, Denmark, 1996 (lecture)
- First International Conference on Mycorrhiza, Berkeley, USA, 1997 (lecture)
- The Impact of AMF on Ecosystem Restoration, Reykjavik, Iceland, 1997 (lecture, poster)
- Second International Conference on Mycorrhiza, Uppsala, Sweden 1998 (invited lecture, lecturer of the pre-conference workshop, poster)
- Mycorrhiza and Plant Developmental Pattern, COST 8.21, Fiesca, Slovenia, 1998 (lecture, poster)
- XVI International Botanical Congress, St. Louis, USA, 1999 (invited lecture, poster)
- ISHS Conference - Methods and Markers for Quality Assurance in Micropropagation, Cork, Ireland, 1999 (lecture, poster)
- National Seminar on Mycorrhiza, Bogor, Indonesia 1999 (invited lecture)
- AM and Plant Health under Abiotic Stress, COST 8.38 Meeting, Nancy, France, 1999 (2 posters)
- COST 8.38 Meeting, Santiago de Compostela, Spain, 2000 (lecture)
- InterCOST Meeting, COST 8.38 Meeting, Naples, Italy 2000 (lecture)
- COST 8.38 Meeting, Faro, Portugal 2000 (2 posters)
- Third International Conference on Mycorrhiza, Adelaide, Australia 2001 (poster)

- COST 8.38 Meeting, Adana, Turkey, 2001 (lecture)
- COST 8.38 Meeting, Prague, Czech Republic 2001 (organization, lecture, 5 posters)
- COST 8.38 Meeting, Koln, Germany, 2002 (lecture)
- COST 8.38 Meeting, Pisa, Italy, 2002 (2 posters)
- Fourth International Conference on Mycorrhiza, Montreal, Canada 2003 (2 lectures, 3 posters)
- COST 8.38 Meeting, Nicosia, Cyprus, 2004 (lecture)
- COST 8.38 Meeting, Dijon, France, 2005 (lecture and 2 posters)
- XVII International Botanical Congress, Vienna, Austria, 2005 (invited lecture, 2 posters)
- Fifth International Conference on Mycorrhiza, Granada, Spain 2006 (2 invited lectures, 6 posters)
- Physiological processes of woody roots, International Symposium, Bangor, UK 2007 (2 posters)
- COST 8.38 Meeting, Hannover, Germany, 2007 (lecture).
- Conference on organic farming, Cape Town, South Africa, 2008, lecture
- Conference on Non Food energy resources, ACP project, Johannesburg, RSA, 2009
- Sixth International Conference on Mycorrhiza, Belo Horizonte, Brasil, 2009 (poster, invited lecture)
- COST 8.38 Meeting, Evora, Portugal, 2010 (key note invited lecture)

Stays abroad

- 1990 - University of Florida, University of Georgia, USA, USDA Forest Service support, 5 months
- 1995 - Fellowship of the European Environmental Research Organisation, 3 months stay at the International Institute of Biotechnology, U. of Kent, Canterbury, UK
- 1999 - 2000 Fellowship OECD 8 months - sabbatical year at the International Institute of Biotechnology, UNESCO MIRCEN, University of Kent, Canterbury, UK
- 2006 – OECD Fellowship 4 months at the International Institute of Biotechnology, UNESCO MIRCEN, University of Kent, Canterbury, UK
- 2008-2009 Fellowship Kent Science Park, Ultra Green Group, 12 mo, Sittingbourne, Kent, UK

Expert Evaluator of EU project at REA in Brussels: Initial Training Network Programme and Research for SME Programme.

Researcher and manager of development projects with participation of commercial enterprises

- 2005-2009 Project TANDEM (Ministry of Industry and Trade Czech Republic) Development of application machinery and tree injection of mycorrhizal products
- 2005-2009 Project IMPULS (Ministry of Industry and Trade Czech Republic) Development of novelty microbial products for erosion control of slopes.
- 2004-2009 EU Eureka project Mycorrhizal technologies for agriculture – development of mycorrhiza application for blueberry plantation in Spain.
- 2006-2009 EU 6th Framework program Micromaize project, 13 European participants
- 2000- Production director of PlantWorks Ltd. Sittingbourne, UK – production and marketing of mycorrhizal products on retail market in the UK (700 garden centres) and leading of technology licencing projects to Kenya, Iceland, United Arab Emirates
- 2003-2006 – Chairman of Federation of European producers of mycorrhizal fungi inocula (FEMFiP)
- 2008 – Consultant of international group UGG for biomass plantations and mycorrhiza

Selected publications - Impact factor journals in bold

- Vosatka M. (1989) Investigation of VAM in *Sorbus aucuparia* and *Acer pseudoplatanus* stands on air polluted localities and mine spoils in North Bohemia. ***Agriculture Ecosystem & Environment*** 29, 443-450.
- Vosátka M. (1989) VA mycorrhiza in stands of two hardwood species on sites disturbed by SO₂ emissions and on strip-mine spoil banks in Northern Bohemia. In: Vančura V. and Kunc F. (Eds.) Interrelationships between microorganisms and plants in soil. Academia, 1989, 149-156.
- Vosatka M., Cudlin P. and Mejstrik V. (1991) VAM populations in relation to grass invasion associated with forest decline. ***Environmental Pollution***, 73, 263-270.
- Vosatka M., M. Gryndler and Z. Prikryl (1992) Effect of the rhizosphere bacterium *Pseudomonas putida*, VAM fungi and substrate composition on the growth of strawberry. ***Agronomie*** 12, 859-863.
- Sylvia D. Jarstfer A.G., Vosátka (1993): Comparisons of VAM species and inocula formulations in a commercial nursery and on diverse Florida beaches. ***Biological Fertility of Soils*** 16: 139-144.
- Vosátka M. (1994): Effect of vesicular arbuscular mycorrhizal fungi and of *Agrobacterium radiobacter* on maize growth. ***Folia Microbiologica*** 39: 304-306
- Vosátka M., Vejsadová H., Gryndler M., Hřelová H. (1995): Effect of *Agrobacterium radiobacter* on vesicular-arbuscular mycorrhizal infection and external mycelium of maize. ***Folia Microbiologica*** 40: 100-103.
- Vosatka M. Soukupova L., Rauch O. Skoda M. (1995) Expansion dynamics of *Calamagrostis villosa* and VA mycorrhiza in relation to different soil acidification. In: Flousek J. and Roberts G.C.S. Mountain Nat. Parks and Biosphere Reserves: Monitoring and Management. Proc. Int. Conf. Spindleruv Mlyn, CR, 1993, 47-53.
- Soukupová L., Vosátka M., Albrechtová M., Frantík T. (1995) Soil-plant-fungi interactions in a declining spruce ecosystems: An experimental study. In: Flousek J. and Roberts G.C.S. Mountain Nat. Parks and Biosphere Reserves: Monitoring and Management. Proc. Int. Conf., Špindlerův Mlýn, CR, 1993, 55-59.
- Vosátka M. (1995) Arbuscular mycorrhiza and soil acidification. In Arbuscular mycorrhizas as a link between East and West European countries. K. Turnau (Ed), EC-EAEC, Brussels, 56-65.
- Vosátka M., P. Cudlín, E. Chmelíková, O. Rauch, L. Soukupová (1995) Arbuscular mycorrhizal and ectomycorrhizal fungi in the process of montagne Norway spruce forest decline. In Arbuscular mycorrhizas as a link between East and West European countries. K. Turnau (Ed), EC-EAEC, Brussels, 45-55.
- Vosátka M. (1995): Influence of inoculation with arbuscular mycorrhizal fungi on the growth and mycorrhizal infection of transplanted onion. ***Agriculture Ecosystem & Environment*** 53: 151-159.
- Gryndler M., Vejsadová H., Vosátka M., Čatská V. (1995): Influence of bacteria on vesicular - arbuscular mycorrhizal infection in maize. ***Folia Microbiologica*** 40: 95-99.
- Gryndler M. and Vosatka M. (1996) Effect of Bacteria and Organic Matter of Microbial Origin on the Arbuscular Mycorrhiza of *Glomus fasciculatum*. In: Proceedings of the 4th European Symposium on Mycorrhizas, (Azcon-Aguilar C., Barea J.M. eds.), EC-EAEC, Brussels, 638-641.
- Vosátka M. (1996) Soil Bacteria - a Component of the Plant, Soil and Arbuscular Mycorrhizal Fungi Interactions. In: Proceedings of the 4th European Symposium on Mycorrhizas, (Azcon-Aguilar C., Barea J.M. eds.), EC-EAEC, Brussels, 613-618
- Struková S., M. Vosátka, J. Pokorný (1996) Root symbioses of *Alnus glutinosa* L. (GAERTN.) and their possible role in alder decline. ***Folia Geobotanica & Phytotaxonomica***, 31: 153-162.

- Gryndler M. and Vosátka M. (1996) The response of arbuscular mycorrhizal fungus *Glomus fistulosum* to treatments with culture fractions from *Pseudomonas putida*. **Mycorrhiza** 6: 207-211.
- Baláz M. and Vosátka M. (1997) Effect of mycorrhiza and different forms of phosphorus on the growth of *Calamagrostis villosa*. **Biologia Plantarum**, 39, 281-288.
- Skalova H. and Vosatka M. (1998) Growth response of three *Festuca rubra* clones to light quality and arbuscular mycorrhiza. **Folia Geobotanica** 33: 159-169.
- Vosatka M. and Dodd J.C. (1998) The role of different arbuscular mycorrhizal fungi in the growth of *Calamagrostis villosa* and *Deschampsia flexuosa*, in experiments with simulated acid rain. **Plant & Soil**, 200, 251-263.
- Gryndler M., Vosatka M., Hrselova H., Chvatalova I., Skrdleta V. (1998) Effect of glucose amendments on *Glomus fistulosum* mycorrhiza. **Folia Microbiologica** 43: 635-643.
- Gryndler M., Hrselova H., Chvatalova I. and M. Vosatka (1998) *In vitro* proliferation of *Glomus fistulosum* intraradical hyphae from mycorrhizal root segments of maize. **Mycological Research** 102, 1067-1073.
- Vosátka M. and Gryndler M. (1999) Treatment with culture fractions from *Pseudomonas putida* modifies the development of *Glomus fistulosum* mycorrhiza and the response of potato and maize plants to inoculation. **Applied Soil Ecology**, 11, 245-251.
- Vosátka M., Enkhtuya Batkhuugyin, Albrechtová J. (1999) Development of three arbuscular mycorrhizal fungi under simulated acid rain and aluminium stress. **Biologia Plantarum**, 42: 289-296.
- H. Hrselová, I. Chvátalová, M. Vosátka, J. Klír, M. Gryndler (1999) Correlation of abundance of arbuscular mycorrhizal fungi, bacteria and saprophytic microfungi with soil carbon, nitrogen and phosphorus. **Folia Microbiologica**, 44 (6): 683-687.
- Malcová R., Vosátka M., Albrechtová J. (1999) Influence of arbuscular mycorrhizal fungus *Glomus mosseae* and simulated acid rain on the coexistence of the grasses *Calamagrostis villosa* and *Deschampsia flexuosa*. **Plant & Soil** 207, 45-57.
- Vosatka M., Malcová R., Šrámek F., Regvar M, Jansa J. (1999) Inoculation with mycorrhizal fungi - a feasible biotechnology in horticulture. **Phyton** 39 (3) 219-224.
- Vosátka M., J. Rydlová, R. Malcová (1999): Microbial inoculation of plants for revegetation of disturbed soils in degraded ecosystems. In: P. Kovář (ed.): Nature and culture in landscape ecology. Proceedings of the CZ-IALE conference, Prague, Czech Republic, 7-13 September 1999, p. 303-317.
- van der Heijden E.W. and M. Vosatka (1999) Mycorrhizal associations of *Salix repens* L. communities in succession of dune ecosystems. II. Mycorrhizal dynamics and interactions of ectomycorrhizal and arbuscular mycorrhizal fungi. **Canadian Journal of Botany** 77, 1833-1841.
- Batkhuugyin E., J. Rydlova, M. Vosatka (2000) Effectiveness of indigenous and non-indigenous isolates of arbuscular mycorrhizal fungi in soils from degraded ecosystems and man-made habitats. **Applied Soil Ecology**, 14, 201-211.
- Šrámek, F. M. Dubský, M. Vosátka (2000) Effect of arbuscular mycorrhizal fungi and *Trichoderma harzianum* on three species of balcony plants. **Plant Production** 46, 127-131.
- Joner E., I.M. van Arlee, M. Vosatka (2000) Phosphatase activity of extra-radical arbuscular mycorrhizal hyphae: A review. **Plant & Soil** 226, 199-210.
- Jansa J. and M. Vosatka (2000) In-vitro and post-vitro inoculation of micropropagated Rhododendrons with ericoid mycorrhizal fungi. **Applied Soil Ecology** 15, 125-136.

- Vosátka M., M. Gryndler (2000) Response of micropropagated potatoes transplanted to peat media to post-vitro inoculation with arbuscular mycorrhizal fungi and soil bacteria. **Applied Soil Ecology** 15, 145-152.
- Vosátka M., J. Jansa, M. Vohník, M. Gryndler (2000) Post-vitro mycorrhization and bacterization of micropropagated strawberry, potato and Azalea. *Acta Horticulturae* 530, 313-324.
- Rydlová J., Vosátka M. (2000) Sporulation of symbiotic arbuscular mycorrhizal fungi inside dead seeds of a non-host plant. **Symbiosis** 29: 231-248.
- Rydlová J., Vosátka M. (2001) Associations of dominant plant species with arbuscular mycorrhizal fungi during vegetation development on coal mine spoil banks. **Folia Geobotanica**, 36: 85-97.
- Malcová R., Albrechtová A., Vosátka M. (2001) The role of extraradical mycelium network of arbuscular mycorrhizal fungi on the establishment and growth of *Calamagrostis epigejos* in industrial waste substrates. **Applied Soil Ecology**, 18: 129-142.
- Vosátka M. (2001) A future role for the use of arbuscular mycorrhizal fungi in soil remediation: a chance for small-medium enterprises? **Minerva Biotechnologica**, 13:69-72.
- Baláž M. and Vosátka M. (2001) A novel inserted membrane technique for studies of mycorrhizal extraradical mycelium. **Mycorrhiza**, 11: 291-296
- Gryndler M., H. Hršelová, M. Vosátka, J. Votruba, J. Klír (2001) Organic fertilization changes the response of mycelium of arbuscular mycorrhizal fungi and their sporulation to mineral NPK supply. **Folia Microbiologica**, 46 (6) 540-542
- Dubský M., F. Šrámek, M. Vosátka (2002) Inoculation of cyclamen (*Cyclamen persicum*) and poinsettia (*Euphorbia pulcherrima*) with arbuscular mycorrhizal fungi and *Trichoderma harzianum*. **Plant Production**, 48: 63-68.
- Gryndler M., M. Vosátka, H. Hršelová, I. Chvátalová, J. Jansa (2002) Interaction between arbuscular mycorrhizal fungi and cellulose in growth substrate. **Applied Soil Ecology**, 19: 279-288.
- Gryndler M., M. Vosátka, H. Hršelová, V. Čatská, I. Chvátalová, J. Jansa (2002) Effect of dual inoculation with arbuscular mycorrhizal fungi and bacteria on growth and mineral nutrition of strawberry. **Journal of Plant Nutrition**, 25 (6): 1341-1358.
- Malcová R., M. Gryndler, M. Vosátka (2002) Magnesium ions alleviate the negative effect of manganese on *Glomus claroideum* BEG23. **Mycorrhiza**, 12: 125-129.
- Gryndler M., J. Jansa, H. Hršelová, I. Chvátalová, M. Vosátka (2002) Chitin stimulates development and sporulation of arbuscular mycorrhizal fungi. **Applied Soil Ecology**, 640: 1-5.
- Malcová R., M. Gryndler, H. Hršelová, M. Vosátka (2002) The effect of fulvic acids on the toxicity of lead and manganese to arbuscular mycorrhizal fungus *Glomus intraradices*. **Folia Microbiologica**, 47(5) 521-526.
- Sýkorová Z., J. Rydlová, M. Vosátka (2003) Establishment of mycorrhizal symbiosis in *Gentiana verna*. **Folia Geobotanica** 38: 177-189.
- Enkhtuya B., Óskarsson Ú, Dodd J.C. Vosátka M. (2003) Inoculation of grass and tree seedlings used for reclaiming eroded areas in Iceland with mycorrhizal fungi. **Folia Geobotanica** 38: 209-222.
- Malcová R., J. Rydlová, M. Vosátka (2003) Metal-free cultivation of *Glomus* sp. BEG140 isolated from Mn-contaminated soil reduces tolerance to Mn. **Mycorrhiza** 13: 151-157.
- Rydlová J., Vosátka M. (2003) Effect of *Glomus intraradices* isolated from Pb-contaminated soil on Pb uptake by *Agrostis capillaris* is changed by its cultivation in a metal-free substrate. **Folia Geobotanica** 38: 155-166.
- Malcová R., M. Vosátka, M. Gryndler (2003) Effects of inoculation with *Glomus intraradices* on lead uptake by *Zea mays* L. and *Agrostis capillaris* L. **Applied Soil Ecology**, 23: 55-67.

- Enkhtuya B, Rydlova J, Vosatka M (2004) Occurrence and ecology of arbuscular mycorrhizal fungi in substrates of abandoned industrial sedimentation basins. In: Kolar P. (editor) Natural Recovery of Human-Made-Deposits in Landscape. Academia - Praha, pp.98-120
- Gianinazzi S, Vosatka M (2004) Inoculum of arbuscular mycorrhizal fungi for production systems: science meets business. *Canadian Journal of Botany-revue Canadienne de Botanique*, 82 (8): pp.1264-1271
- Gryndler M, Hrselova H, Jansa J, Vosatka M (2004) Mykorhizní symbióza – O soužití hub s kořeny rostlin. Academia – Praha, pp. 1-366
- Koukol O., Gryndler M., Novák F., Vosátka M. (2004) Effect of *Chalara longipes* on decomposition of humic acids from *Picea abies* needle litter. *Folia Microbiologica*, 49 (5) 574-578.
- Rydlová J., Batkhuugyin E., Vosátka M. (2004) Sporulation of four arbuscular mycorrhizal fungi isolates inside dead seed cavities and grass capillaries. *Symbiosis*, 36: 269-284.
- Batkhuugyin E., Vosátka M. (2005) Interaction between grass and trees mediated by extraradical mycelium of symbiotic arbuscular mycorrhizal fungi. *Symbiosis*, 38: 261-277.
- Janoušková M. Pavlíková D., Macek T., Vosátka M. (2005): Influence of arbuscular mycorrhiza on the growth and cadmium uptake of tobacco with inserted metallothionein gene. *Applied Soil Ecology*, 29: 209-214.
- Janoušková M, Vosátka M (2005): Response to cadmium of *Daucus carota* hairy roots dual cultures with *Glomus intraradices* or *Gigaspora margarita*. *Mycorrhiza*, 15:217-224.
- Janoušková M., Pavlíková D., Macek T., Vosátka M. (2005): Arbuscular mycorrhiza differentially affects cadmium phytoextraction by non-transgenic or transgenic tobacco with inserted metallothionein. *Plant and Soil* 272: 29–40
- Oliveira R.S., Vosátka M., Dodd J.C., Castro P.M.L (2006) Studies on the diversity of arbuscular mycorrhizal fungi and the efficacy of two native isolates in a highly alkaline anthropogenic sediment. *Mycorrhiza* 16: 23–31
- Oliveira R.S., Castro P.M.L., Dodd J.C., Vosátka M. (2005) Synergistic effect of *Glomus intraradices* and *Frankia* spp. on the growth and stress recovery of *Alnus glutinosa* in an alkaline anthropogenic sediment. *Chemosphere* 60 1462–1470
- Vohník M., J. Albrechtová and M. Vosátka (2005) The inoculation with *Oidiodendron maius* and *Phialocephala fortinii* alters phosphorus and nitrogen uptake, foliar C:N ratio and root biomass distribution in *Rhododendron* cv. Azurro. *Symbiosis* 40, 87–96.
- Oliveira R.P. Castro, J.C. Dodd , M.Vosatka (2006) Different native arbuscular mycorrhizal fungi influence the coexistence of two plant species in a highly alkaline anthropogenic sediment. *Plant Soil* 287: 209–221
- Janouskova M. M. Vosatka, L. Rossi, N. Lugon-Moulin (2007) Effects of arbuscular mycorrhizal inoculation on cadmium accumulation by different tobacco (*Nicotiana tabacum* L.) types. *Applied Soil Ecology* 35, 502–510
- Sudova R., D.Pavlikova, T. Macek, M. Vosatka (2007) The effect of EDDS chelate and inoculation with the arbuscular mycorrhizal fungus *Glomus intraradices* on the efficacy of lead phytoextraction by two tobacco clones. *Applied Soil Ecology* 35, 163–173
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