

Curriculum vitae



Personal information

First name(s) / Surname(s) **Malschi Dana**
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E-mail danamalschi@yahoo.com
Citizenship **Romanian**
Marital status -
Date of birth **3 July 1952**
Gender **Female**

Domains of activity

Teaching degree / Scientific title **Ph.D, biologist, Associate professor, Conf. of "Babeş-Bolyai" University Cluj-Napoca, Faculty of Environmental Sciences and Engineering / I-st degree researcher and Associate member of the Academy of Agricultural and Forestry Sciences „Gheorghe Ionescu-Şişeşti”, Member of the Commission for Biological Safety of Environment, Water and Forests Ministry.**

Department / Key Words **Department of Analysis and Environmental Engineering. Entomology and Agroecology. Integrated Pest Managemet. Environmental applied biology. Environmental Bio- and Eco-technology.**

Domains of competence **Entomology, Integrated Pest Control and Plant Protection, Agroecology, Agro-Biodiversity, Environmental Biotechnology and Ecotechnology. Experimentally Field/Laboratory Technique**

Domains of interest **Biotechnologies for biodiversity conservation and use, important to environmental sustainable development.**
Pollutants phytoextraction and bioaccumulation in waste waters and soils phytoremediation.
Optimizing environment-agriculture-sustainability by integrated wheat pest management and use of entomophagous for natural pest biological control..
Global warming effects on the cereal entomofauna of central Transylvanian agro-ecosystems.
Strategy for integrated wheat pests control on the present conditions of climatic and entomocoenotic changes, in central Transylvanian agro-ecosystems.
Agroforestry belts role on agroecosistems sustainable development, on agr-biodiversity conservation and use, on the climatic changes effects, in central Transylvania.
Applied Entomology on the Technological systems with minimum soil tillage and no tillage in water stressed areas and the adequate strategy for integrated wheat pests control, in Transylvania.
Environmental public goods associated with agriculture: agricultural landscapes, farmland biodiversity, soil, water and air quality, farming practices in order to maintain landscape features, to manage natural resources of water and soils, conservation and use of biodiversity, use of integrated pests control technology, use of technological systems with minimum soil tillage and no tillage in water stressed areas, diverse public goods, including food security and health security.

Teaching activity **Teaching experience, courses and laboratory practice works, in Applied biology and ecology:**
The current teaching: ***Elements of biology and microbiology, Integrated pests control, Biotechnology and Biological Decontamination of ecological systems. Advanced technologies for bioremediation.*** Scientific coordinator for 70 graduation theses.
- 2006-2011/Environment Engineering Specialization: ***Ecology and ecological management, Biochemistry and biological depollution, Environmental eco-physiology, Environment Microbiology, Environmental Hydrobiology, Microbiology and soil enzymology, Biotechnologies and biological pollution control, Technologies for biological decontamination and ecological reconstruction;***
- 2004-2007/Laboratory Technics for Environmental Protection Turda University College of "Babeş-Bolyai" University of Cluj-Napoca: ***Ecology and ecological management, Biodiversity conservation and environmental protection, Animal and vegetal eco-physiology, Microbiology.***

Education and training

Education	<ul style="list-style-type: none">- PhD in Entomology: 1985-1990. PhD Thesis, 1990: <i>Systematic and bio-ecological study on the principal harmful species of Diptera Brachicera on winter wheat crops and their integrated control</i>. "Babeş-Bolyai" University of Cluj-Napoca, Faculty of Biology, Geography and Geology, Department of Taxonomy and Ecology.- Postgraduated specialisation in Biology and Control of Animal and Vegetal Pests: 1975-1976. Diploma. Paper speciality: <i>Investigation on Diptera damaging the wheat crops in Transylvania</i>. "Babeş-Bolyai" University of Cluj-Napoca, Faculty of Biology, Geography and Geology.- B.Sc.degree in Biology, Department of Taxonomy and Ecology: 1971-1975. Diploma. Graduation paper speciality; <i>Insect pests of wheat crops in Transylvania</i>. "Babeş-Bolyai" University of Cluj-Napoca, Faculty of Biology, Geography and Geology.- High School Degree: 1967-1971. „Mihai-Viteazul” High School Turda, Cluj county.- General school: 1959-1967. Fundulea, Ilfov County
Specializations and qualifications	<ul style="list-style-type: none">- DAAD specialization: 1993. Institute for Phytopathology and Entomology of Martin-Luther University of Halle-Wittenberg, at Prof. Dr. Habil. Theo Wetzel / Ref. 324/18 MAR 1993 Bonn.Field of specialization: <i>Integrated chemical and biological control of cereal pests, entomophagous predator taxonomy, mass rearing and side effect of pesticides on useful predators. Specialization raport: Cicads in winter wheat crops in Halle district, Germany, in the years 1992, 1993.</i>- Qualification in Plant Protection–Entomology /1980-2006 /Agricultural Research Station Turda / Agricultural and Forest Sciences Academy. 1980-1983: Biologist, scientific researcher; 1990: scientific researcher III degree; 1993: scientific researcher II degree; 1997: scientific 1-st degree researcher. Field of Speciality: <i>Cereals pests and entomophagous predator arthropods taxonomy and ecology, integrated pests management, cereal agroecosystem and nature conservation.</i>- Other training: 1989: Postgraduate course for the utilization of computers, Cluj; 1988: „Pests control in agricultural crops by the different methods”, Bucharest; 1985 – 1986: Postgraduate course „Modern methods in scientific research”, Cluj – Napoca; 1985: Postgraduate course for English language, Bucharest; 1974-1975–University Pedagogical Seminar/"Babeş-Bolyai" University Cluj-Napoca.
Work experience	
Dates / Occupation or position held/ Name of employer	<ul style="list-style-type: none">- from 2006 to present / lecturer, Ph.D, biologist /"Babeş-Bolyai" University of Cluj-Napoca, Faculty of Environmental Sciences and Engineering, Departement of Analysis and Environmental Engineering.- 1980-2006 / biologist, III, II and I-st degree researcher / Agricultural Research Station Turda. Speciality: Cereals insect pests and entomophagous predator arthropods taxonomy and ecology, integrated pests management, cereal ecosystem and nature sustainable conservation.- At present: Associate I-st degree Researcher at Agricultural Research Station Turda/Cluj county and Associate Member of the Academy of Agricultural Sciences and Forestry.- 1976-1980 / biologist coordinating of Forecasting and warning compartment for pests and diseases management in different crops: cereals, industrial crops, vegetables and orchards / Plant Protection Center Zalau of Salaj county.
Professional affiliations	Founder member of Romanian Plant Protection National Society, Society of Ecological Agriculture, Ecosanogenesis Society from Romania; member of Romanian Entomological - Lepidopterology Society and member of the Research Center for Disaster Management Faculty of Science and Environmental Engineering, "Babes-Bolyai" University Cluj-Napoca.

Coordinated research contracts

- **Scientific responsible researcher (1980 - 2002):** Health Plants Protection and „Horizon 2000” programs of **Research Institute for Cereals and Industrial Plants–Fundulea/A.R.D.S.Turda.**
- **Grant director (1999 – 2002):** *Modernize of cereal pests ecological integrated system in Central Transylvania: efficiency, economic and ecologic efficient, environmental protection.* **ANSTI project.**
- **Project director (2000 – 2003):** *Achievement of economic and ecologic efficiency of integrated pests control management by the protection and use of auxiliary entomophagous.* **RELANSIN 805.**
- **Project director (2007):** **Equipment for Didactic Laboratory 1: Technologies for conservation and use of bioresources - ecological restoration, bioremediation, biological depollution and environmental management of biotechnical and ecological systems.** **MEC / 2007 Program /** Faculty of Environmental Sciences, UBB Cluj-Napoca / Component of interdisciplinary laboratories.
- **Project director (2007-2008):** *Optimizing environment-agriculture-sustainable development relations, by integrated management system for the control of aphids and cicades pests-vectors of yellowish of wheat in Transylvania.* **CNCSIS Project 1448 / Tip A / 2007 /** Faculty of Environmental Sciences, Babeş-Bolyai University, Cluj-Napoca.
- **Member of the project working group (2005 - 2008):** *Crops field management on the conservative agricultural system in Transylvanian Plain.* **CEEX 422 / 2005, Excellency Research Program, Ed.and Research Ministry / ARDSTurda.**
- **Member (2008 - 2011):** *Monitoring of the impact of agriculture upon global climatic changes, soil, water and carbon management, through conservative systems: minimum tillage and no-tillage, in Transylvanian Plain.* **Project PN 2, nr.1441/contract: 52-114/2008, USAMV Cluj-Napoca/ Partener SCDA Turda.**
- **Member of the project working group (2009 - 2011):** *Innovative technology Remediation of contaminated soils by specific metallurgical activity.* **Program–CNMP 4 / Technical University Cluj-Napoca. Partener 1 Babeş-Bolyai University, Cluj-Napoca.**
- **Member of the project working group (2011 - 2014):** *Ecology and environmental protection in agriculture. Project: Identifying the opportunities for promotion and development of organic agriculture in the Walloon Region and North-West Region of Romania to the sustainable development of the rural area.* **ANCS National Programme: Capacity. No. 590/13.09.2012. Type of project: Module III bilateral cooperation.** Type of Partnership: Bilateral. Subdomain: Faculty of Science and Environmental Engineering, Babes-Bolyai University Cluj-Napoca.
- **Member of the Bilateral Cooperation Project between the Romanian Academy - Wallonia - WBI-FNRS, Nr. 33526 / 2016-2018. Type of project: Bilateral Research and Cooperation Project-Romania-Belgium:** *Creating a model for the evaluation of food quality in terms of consumer health and environmental protection.* Partners: Babeş-Bolyai University Cluj-Napoca and Universite de Liege, Directors: Romanian side: Dacinia Crina Petrescu, Walloon: Prof. Ph.Burny.

Publications

3 books, 3 manuals / university courses and practice guides on line,
8 Articles in ISI journals, 24 study/chapters in books and 161 scientific papers including:
115 scientific articles (from which about 19 articles in the BDI) and 46 communications in different national and international scientific manifestations;
8 students courses and practical work online: accesibile la <http://enviro.ubbcluj.ro/studenti/>

Significant published articles

Significant Books:

- Malschi Dana, 2001. *Fam.Opomyzidae*. p.365-371. Perju, T., Malschi Dana, D. Mustea, *Fam.Chlorpidae*. p.420-447. Perju, T., Malschi Dana, *Fam. Anthomyiidae*. p 287-337. In: Treaty of Agricultural zoology. Vol.V. Red. T.Perju, I.Ghizdavu. Romanian Acad. Ed.
- Malschi Dana, 2007. *Environment-agriculture-sustainable development and the integrated management of pests in cereal agro-ecosystems*. Ed. Argonaut, 2007. Cluj-Napoca, ISBN 978-973-109-086-3, pp.186.
- Malschi Dana, 2008. *Environment-agriculture-sustainable development. Optimization of integrated wheat pest management technologies under the dynamics of agroecological changes in Transylvania*. Ed. Argonaut, Cluj-Napoca, ISBN 978-973-109-115-0, pp. 315. Ro/En
- Malschi Dana, 2009. *Integrated pest management in relation to environmental sustainability. Part I. Ecological management of wheat pests*. Course notes and practical applications. Manual online. Faculty of Environmental Sciences, Babeş-Bolyai University, Cluj-Napoca. Bioflux Publishing House, Cluj-Napoca, <http://www.editura.bioflux.com.ro/carti-2009/>. ISBN 978-606-92028-3-8, pp. 200. <http://www.editura.bioflux.com.ro/docs/malschi1.pdf>
- Malschi Dana, 2009. *Elements of biology, ecophysiology and microbiology*. Manual online. Faculty of Environmental Sciences, Babeş-Bolyai University, Cluj-Napoca. Bioflux Publishing House, Cluj-Napoca <http://www.editura.bioflux.com.ro/carti-2009/>, ISBN 978-606-92028-4-5, pp. 640, in Romanian. <http://www.editura.bioflux.com.ro/docs/malschi2.pdf> .
- Malschi Dana, 2014. *Biotechnology-Environment-Sustainable Development. Biotechnology and remediation of ecological systems. (Biological remediation technologies. Bioremediation technologies. Environmental reconstruction). Course notes and practical applications*. 190 pag. In Romanian. Editura BIOFLUX, 2014 ISBN 978-606-8191-71-3. <http://www.editura.bioflux.com.ro/carti-2014/>, <http://www.editura.bioflux.com.ro/docs/2014.Malschi.pdf>

Significant agricultural published articles:

- Dana Malschi, 2007. *Wheat pest entomofauna in climatic changes conditions of central Transylvania*. The 20thSIEEC Conference (International Symposium Uber Entomofaunistik in Mitteleuropa), May 2007, Cluj-Napoca. Section: Global climate change, fauna change and Entomofaunistics. Universitatea Babeş-Bolyai Cluj-Napoca. Entomologica romana, nr.12, 2007, p.185-193, ISSN 1224-2594, Cluj-Napoca, 2008.
- Dana Malschi, 2009. *Monographical study for the identification and control of diptera pest species on Romanian wheat crops*. ABAH Bioflux 1(1):33-47. Printed version: ISSN 2066-7612. Online version available at: <http://www.abah.bioflux.com.ro/docs/2009.1.33-47.pdf>. ABAH BIOFLUX (Animal Biology & Animal Husbandry. International Journal of the Bioflux Society), 2009, Volume 1, Issue 1. <http://www.abah.bioflux.com.ro>
- Dana Malschi, Nicolae Tritean, Romeo Şerbănescu, 2010. *Protective agro-forestry belts and their environmental importance for sustainable agriculture development in Transylvania*. ROMANIAN AGRICULTURAL RESEARCH, No.27/2010, NARDI Fundulea, factor of impact 2009 0,310, domain ISI : Agronomy. pp.103-114.
- Dana Malschi, Adina Daniela Ivaş, Mircea Ignea, 2012. *Wheat pests control strategy according to agro-ecological changes in Transylvania*. ROMANIAN AGRICULTURAL RESEARCH. no. 29, 2012. p. 367-377.
- Malschi, Dana, Ivaş, Adina, Ignea, M., Tritean, N., Cheţan, C., 2012. *Integrated wheat pests control in relation with agro-ecological changes and agriculture sustainable development*. In: Agri-environment: perspectives on sustainable development, 2012. Editors Coordinators: Dacia Crina Petrescu, Philippe Burny, Ruxandra-Mălina Petrescu-Mag. Edit. Les Presses Agronomiques De Gembloux: 141-168. www.pressesagro.be, www.pressesagro.gembloux@ulg.ac.be. ISBN (printed format): 978-2-87016-120-3/Bioflux Publishing House, Cluj-Napoca. www.editura.bioflux.com.ro. ISBN (online format): 978-606-8191-46-1.
- Malschi, Dana, Ivaş, Adina Daniela, Kadar, Rozalia, 2013 a. *Integrated management of wheat aphids and leafhoppers – suitable control methods in Transylvania*. Romanian Agricultural Research, 30: 317-328. www.incda-fundulea.ro. DII 2067-5720 RAR 2013-297
- Malschi, Dana, Ivaş, Adina, Ignea, M., Cheţan, Felicia, Cheţan, C., 2013 c. *Adequate integrated control of wheat pests in no-tillage conservative system*. Soil Minimum Tillage Systems, 7th International Symposium. USAMV Cluj-Napoca, 2-3 May 2013. <http://journals.usamvcluj.ro/index.php/promediu/index>. Proenvironment, 6: 332-341. Bioflux Publishing House, Cluj-Napoca, www.editura.bioflux.com.ro
- Dana Malschi, Felicia Mureşanu, Rozalia Kadar, Adina Daniela Tărău, Ana-Maria Păcurar, Cornel Cheţan, Nicolae Tritean, 2014. *New entomocenotic particularities and integrated pest control in Transylvanian wheat crops under the impact of climate warming*. The 13th International Symposium "Prospects for the 3rd Millennium Agriculture", Cluj-Napoca, 25th– 27th of September 2014. *Bulletin UASVM Agriculture*, vol. 71, nr.2 / 2014. p.235-246. <http://www.usamvcluj.ro/symposium>. <http://journals.usamvcluj.ro>.
- Dana Malschi, Felicia Mureşanu, Rozalia Kadar, Adina Daniela Tărău, Ana-Maria Păcurar, Nicolae Tritean, Cornel Cheţan, 2015. *Environmental public goods associated with agriculture practice of integrated wheat pest management*. AES Bioflux, 2015. Volume 7. Issue 2. p: 298-308.
- Malschi, Dana, Tărău, Adina Daniela, Kadar, Rozalia, Tritean, Nicolae, Cheţan, Cornel, 2015. *Climate warming in relation to wheat pest dynamics and their integrated control in Transylvanian crop management systems with no tillage and with agroforestry belts*. Romanian Agricultural Research, 32: 279-289.
- Malschi, Dana, Mureşanu, Felicia, Tărău, Adina Daniela, Vălean, Ana Maria, Cheţan, C., Tritean, N., 2016. *Research on entomocenotic risk situations in wheat culture at ARDS Turda*. *Anale INCDA Fundulea*, VOL. LXXXIV, 2016. Electronic ISSN 2067–775. www.incda-fundulea.ro: 243-266. (In Romanian)

Significant environmental published articles

1. **Dana Malschi**, Ioan C. Oprea, Lucrina Ștefănescu, Gabriela E. Popița, Dorian Ioan Brăhăița, Elena Rînba, Rozalia Kadar, 2015. **Research on wastewater bioremediation using aquatic species for heavy metals phytoextraction and bioaccumulation**. The 10-th ELSEDIMIA International Conference 2014, ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL. vol. 14, nr. 11, p.2577-2589.
2. Dorian Ioan Brăhăița, **Dana Malschi**, Gabriela Emilia Popița, 2015. **Phytoremediation study of water polluted with heavy metals using floating macrophytes: Lemna minor and Pistia stratiotes**. AES Bioflux, 2015. Volume 7. Issue 2. p: 155-162. The 10-th ELSEDIMIA International Conf. 2014., <http://www.aes.bioflux.com.ro>
3. Alexandru Lupulescu, **Dana Malschi**, Constantin Cosma, 2015. **Radionuclides (137Cs) phytoextraction possibilities within the soil using grass crops (Lolium perenne L., Hordeum distichum L.)**. Ecoterra 12/4. ISSN 1584-7071. p. 90-94. Environement & Progress, 2015 Cluj-Napoca. enviroprogress@ubbcluj.ro
4. **Dana Malschi**, Liviu O. Muntean, Ioan Cătălin Oprea, Carmen Roba, Gabriela E. Popița, Ștefănescu Lucrina, Bianca Malschi Florian, Elena Rînba, 2014. **Research on wastewaters bioremediation with aquatic species for constructed wetlands**. in ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL. Poster presented at The. National Symposium with International Participation ENVIRONMENT & PROGRESS - 9th edition, 25 October 2013, Cluj-Napoca, Romania. Program simpozion, p 5. on line at at: <http://enviro.ubbcluj.ro/evenimente/environment&progress2013.php>.
5. **Dana Malschi**, Cecilia Roman, Mirela Miclean, Marin Șenilă, Lucrina Ștefănescu, Bianca Malschi Florian, Alin Bolonyi, George Ghira, Dorian Brăhăița, Alexandru Crihan, 2013. **Phytoextraction of heavy metals from industrially polluted zone using Lolium perenne and Lemna minor**. ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL. Environmental Sciences. Vol. 12, No. 5, May 2013, p. 1109-1112.
6. Oprea I.C., **Dana Malschi**, L. Muntean, 2013. **The biomonitoring and the bioremediation toxic water resulting from municipal waste storage of Somard, county Sibiu**. ELSEDIMIA International Conference–25-27 October 2012, Cluj-Napoca, Romania. p.76. In AES Bioflux, Advances in Environmental Sciences - International Journal of the Bioflux Society **AES Bioflux, 2013, Volume 5, Issue 2**. <http://www.aes.bioflux.com.ro>, p 189-196.
7. **Irimia Georgiana Ioana**, Liviu Muntean, **Dana Malschi**, 2011. **Environmental Impact Assessment of Tailing Dumps (Case Study: Lupeni Coal Mine, Jiului Valley)**, **ProEnvironment** 4 (2011) 27–35. www.proenvironment.ro

Personal skills, competences

Mother tongue(s)	Romanian			
Other language(s)	Self-assessment	Understanding	Speaking	Writing
Language	English	Medium	Medium	Medium
Language	French	Good	Medium	Medium

Additional information

Award, scientific titles:

- 1999 – The Award: “Mihai I.Constantineanu“, of Ecosanogenesis Romanian Society. Brasov, for the paper: *Entomophagous predators active in the natural biological limiting of pest of cereal crops in agroecosystems with protective forest in central Transylvania*. In: “Limitation of vegetal and animal pest populations of agricultural crops by biological and biotechnological means for the environmental protection.” Red. V.Ciochia. Ed. DISZ TIPO Brasov,
- 1999 - Diploma of Lepidopterologique Romanian Society Cluj, for special contributions on the entomological research and for the paper: *Homoptera-Aphidina, Cicadina and their predators in cereal agroecosystems in central Transylvania*. Authors: Dana Malschi, T. Perju
- 2004 – The Award “Nicolae Săulescu” of The Academy of Agricultural and forestry Sciences // 17 March 2006, for: *Cap. 14. Maize pests*. Authors: T. Perju, Felicia Muresanu, Dana Malschi. In. “Maize - Monographic study” Vol. I, Red. Cristea M., Căbulea I., Sarca T. Romanian Acad. Ed., p.582-626.
- 2007 – The Award “Consatantin Sandu Aldea” of The Academy of Agricultural and forestry Sciences / nr. 63 / 12 decembrie 2008, for “*Environment-agriculture-sustainable development and the integrated management of pests in cereal agro-ecosystems*.” Ed.Argonaut, 2007. Cluj-Napoca: 186 pp.
- 2010 – 2018 - The scientific title “Associate Member of the Academy of Agricultural Sciences and Forestry „Gheorghe Ionescu –Șișești””, General Assembly of A.S.A.S., 19.05.2010, Diploma nr. 1338/25.05.2010 and General Assembly of A.S.A.S., 20.06.2014, Adresa nr. 2278/02.07.2014.
- 2016-2017 - Member of the Commission for Biological Safety, Order 1810 /20.09.2016 of the Ministry of Environment, Water and Forests, National Environmental Protection Agency

9.06.2017

Signature:
Dana Malschi