

PERSONAL INFORMATIONS

ALEXANDRA MARIA HILLEBRAND-VOICULESCU

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Genus: F | Date of birth: 20/02/1970 | Nationality: Romanian

PLACES OF WORK & PROFESSIONAL EXPERTISE

2005 – present: Biochemist, senior researcher
Emil Racoviță Institute of Speleology of the Romanian Academy, Bucharest

- Study of underground ecosystems by biochemical and molecular biology methods
- Techniques: biochemistry, molecular biology and microbiology

1997 – 2005: Biochemist, researcher
 Institute of Biochemistry of the Romanian Academy, Bucharest

- Study of glycoproteins maturation
- Techniques: chromatography, SDS-PAGE, Western Blot, immunoprecipitation, nucleic acids electrophoresis, cloning, cell cultures, metabolic labelling etc.

2005 – present; 1998 – 2001; 1994 – 1997: Assistant – External collaborator (part-time)
Carol Davila University of Medicine and Pharmacy, Bucharest

- Seminars and laboratory

1995 – 1996: Sales agent/consultant
 Biorom S.A., Bucharest

- Selling of reagents and equipment for hospitals' biochemical laboratories and adviser in clinical biochemistry issues

1992: Biology teacher
 Normal school no.32, Bucharest

EDUCATION AND STUDIES

1998 – 2004: PhD in Biological Sciences
 Institute of Biochemistry, Romanian Academy

- PhD thesis: *Components Of The Complex Of Molecular Chaperones Involved In Glycoproteins' Maturation*

1994 – 1995 Master in Molecular Biology (MSc)
 Dpt. Biochemistry, Faculty of Biology, University of Bucharest

- MSc thesis: *Immunomodulatory Properties Of A Bacterial Extract – The Cantastim*

1989 – 1994: Bachelor in Biological Sciences (BSc)
 Dpt. Biochemistry, Faculty of Biology, University of Bucharest

- BSc thesis: *A Study of the Human Catalase. Influences Of Cu⁺² Ions On The Rat Catalase*

FELLOWSHIPS, TRAININGS, COURSES RELATED TO THE PROFESSION

- 2014: Inter-academical exchange
Prague, Czech Republic
Institute of Microbiology, Academy of Sciences of the Czech Republic
▪ Microbiology: Mycology
- 2013: Inter-academical exchange
Ceske Budejovice, Czech Republic
Institute of Soil Biology, Academy of Sciences of the Czech Republic
▪ Microbiology: Mycology
- 2012: *International Course of Karstology and Hydrogeochemistry*
Chongqing, China
International Research Centre on Karst (IRCK)
- 2011: Training
Warwick, United Kingdom
School of Life Sciences, Warwick University (Prof. Colin Murrell)
▪ Topic: microbiology – study of knallgas bacteria and methanogens from microbial biofilms and sediments from Movile Cave (Romania)
▪ Techniques/methods: classic molecular techniques (DNA isolation/purification, cloning etc.), SIP (stable isotopes probing), DGGE, biochemical methods (electrophoresis, GC)
- 2010: *The 2nd White Sea Molecular Zoology Summer School*
Moscow, Russia
White Sea Biological Station of the Lomonosov State University
▪ Techniques/methods: molecular techniques
- 2007: Training
Leipzig, Germany
Max-Planck Institute of Evolutionary de Anthropology, Dpt. Evolutionary Genetics, Molecular Ecology Group (Prof. Michael Hofreiter)
▪ Topic: mtDNA isolated from teeth and bones of the cave bear (*Ursus spaeleus*) and mammoth
▪ Techniques/methods: molecular techniques specific for ancient DNA
- 2005: *Course of Biospeleology*
Cărbunari, Romania
▪ organised by the Romanian Society of Speleology and Karstology together with the *Emil Racoviță* Institute of Speleology of the Romanian Academy
- Course of Karstology*
Cărbunari, Romania
▪ organised by the Romanian Society of Speleology and Karstology together with the *Emil Racoviță* Institute of Speleology of the Romanian Academy
- 2003: Training
Hamburg, Germany
Dpt. Microbiology, Hamburg University (Prof. Wolfgang Sand)

- Topic: microbiology
- Techniques/methods: classical and molecular techniques of microbiology

Chemical Probes in Biology

Spetses, Greece

- FEBS advanced course

- 2001 – 2002: Marie – Curie fellowship (12 months)
Manchester, United Kingdom (Prof. Neil Bulleid)
School of Biological Sciences, Manchester University
- Topic: glycoproteins maturation processes occurring in the ER (folding, glycosilation etc.).
 - Techniques/methods: molecular biology (*in vitro* transcription/translation, cloning, protein expression, DNA isolation/purification etc.), cell cultures, methods typical to protein biochemistry (electrophoresis, Western Blotting, chromatography, immunoprecipitation, *in vivo* labelling)
- 1999; 2000: Training
Dortmund, Germany
Max-Planck Institute (dr. Kirill Alexandrov)
- Topic : fluorescently labelled compounds preparation (see List of scientific papers)
 - Techniques/methods: the IMPACT technique (Intein Mediated Purification with an Affinity Chitin-binding Tag)
- 1997 - 1998: DAAD fellowship (12 months)
Marburg, Germany
Institute of Physiological Chemistry
- Topic : proteins' glycosilation
 - Techniques/methods: immunology (preparation and purification of polyclonal antibodies); biochemical methods typical to protein biochemistry study (SDS-PAGE, TLC, affinity chromatography);
- 1995: *Glycoscience: Glycobiologie et Glycotechnologie*
Iași, Romania
- summer school organised by the French Ministry for Education and Research, The French Ministry of Foreign Affairs, the Romanian Ministry of Education and the French Cultural Services of the French Embassy in Bucharest

FELLOWSHIPS, TRAININGS, COURSES NOT RELATED TO THE MAIN PROFESSION

- Oct. 2014 – present: MSc. student
Psychological assessment and intervention in educational fields – Master
Faculty of Psychology and Educational Sciences, University of Bucharest
- Psychological assessment; Personal development; Positive psychology; Stress management
- 2010: Project Manager
SC Ira Test Consult srl, Bucharest

- 1996: *Initiation in Internet*
Bucharest, Romania
- course organised by the Centre for Advanced Studies of the Automatic Learning of the Romanian Academy

COMPETENCES

First language Romanian

Foreign languages	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Conversation	Discourse	
French	C2	C2	C2	C2	C2
English	C2	C2	C2	C2	C2
German	C1	B2	C1	C1	C1
Spanish	B2	B2	B1	A2	

Communication skills Good communication skills obtained through the sales agent/consultant expertise (1 year) and teaching (normal school no. 32, Bucharest; Univ. of Medicine and Pharmacy *C.Davila*, Bucharest)

Organisational/Managing skills Good managing skills.
Presently: member of the Managing Committee of the COST Action *Origins* TD1308: *Origins and Evolution of Life on Earth and in the Universe*.
Head of the Romanian team in one international scientific project;
Project director of five national scientific projects.
As secretary of the Romanian Society of Biochemistry and Molecular Biology (2003 – 2004) I organised international courses and conferences.
Organisation of kids camps, the *SCUBA_Speleo Adventure* (since 2010)

Teaching skills Very good teaching skills
20 years as part-time assistant at the University of Medicine and Pharmacy *C. Davila*, Bucharest
1 year school biology teacher

Skills obtained at the working place Techniques of biochemistry, molecular biology, microbiology

IT skills Good mastering of the Microsoft Office™

Other skills

- 2015: Alpine caving technique
Romanian Federation of Speleology
- 2008: First Aid
Red Cross, Bucharest, Romania
- Intro Cave Diver (IANTD, cert# 109690)
- 2006: Master Scuba Diver (NAUI, Pic.nr. 18052)

2001: Protection against radiations
Course organised by the Manchester University, Great Britain

MISCELLANEOUS

Publications Annex 1: *List of publication*

Scientific meetings & conferences More than 50 participations to national and international meetings and conferences

Projects Annex 2: *List of grants and projects*

Awards & Prizes 2016 NBCC Foundation GCDF Scholarship

Diploma Salonului de Carte Universitară (remarkable editorial publication of the year 2011)

L.Gaman, M.Gîlcă-Vasile, **A.M.Hillebrand**, E.Panait, B.Vîrgolici (2011) *Practical Guide of Biochemistry*, Coord. I.Stoian, Ed. Universitară "Carol Davila", Bucharest

Best poster award

Ceacăreanu A.; **Hillebrand A.**; Alexandrov K. (2000) *Chemo-Enzymatic Synthesis Of The Fluorescent Complex Rab7:GDP Dissociation Inhibitor*

Poster presented to the 29th International Conference of Immunology

Membership to professional societies Management committee of the COST TD1308: *Origins and Evolution of Life on Earth and in the Universe* (ORIGINS)
2014 – 2018

Society of General Microbiology
2011 – present

Romanian Society of Biochemistry and Molecular Biology
1998 – present

Group of Underwater and Speleological Exploration (GESS)
1994 - present

Romanian Federation of Speleology (nr.1198)
1998 – present

Editorial committees *Romanian Journal of Clinical and Experimental Dermatology (ROJCED)*
ISSN 2392-7461 and ISSN-L 2392-7461
2014 – present

Positions Secretary
Romanian Society of Biochemistry and Molecular Biology
2003 – 2004

Head of the Protected Areas Department
Group of Underwater and Speleological Exploration
2013 – present

- Other** Authorised person
CUI: 25363150
Resolutions no. 5024/27.03.2009 and no. 62176/15.06.2010
Registration no. F40/1624/2009
- Main activities:
 - Research – Development in Other Natural Sciences and Engineering (CAEN: 7219)
 - Secondary activities:
 - Support services for education (summer schools; laboratory activities) (CAEN: 8560);
 - Other sport activities (cod CAEN: 9319);
 - Written and spoken (interpreter) translation (cod CAEN: 7430)

ENVIRONMENT PROTECTION AND CONSERVATION

Positions

- 2005 – 2010 Custodian of natural protected areas
Obanul Mare și Peștera Movile (code 2.371; cave code 5210/15; class A)
Limanu Cave (code 2.358; cave code 5210/1; class B)
- 2010 – 2015 Custodian of Natura2000 sites
ROSCI0114 *Hergheliei Swamp – Obanul Mare and Movile Cave*
ROSCI 0191 *Limanu Cave*

Documents

- 2006: *Management Plan for Obanul Mare and Movile Cave*
Regulation of Obanul Mare and Movile Cave
Accepted by the Monuments of Nature Commission of The Romanian Academy (CMN – AR nr. 1696/11.08.2006)
- Management Plan for Limanu Cave*
Regulation of Limanu Cave
Accepted by the Monuments of Nature Commission of The Romanian Academy (CMN – AR nr. 1696/11.08.2006)
- Management Plan for Izverna Cave*
Regulation of Izverna Cave
Accepted by the Monuments of Nature Commission of The Romanian Academy

Courses & Trainings

- 2016, 2015, 2014, 2013: Experience exchange
Prague (2014 – 2016) and Ceske Budejovice (2013), Czech Republic
- Caves closing systems; caves management;
- 2007: *Managing NATURA 2000 sites*
Constanța, Romania
- TAIEX Environmental Workshop
- 2004: *Role of environment NGOs in the implementation of Natura2000 network in Romania*

Bucharest, Romania

- course organised by Romanian Federation of Speleology, the Romanian Ornithological Society and UNESCO Pro-Natura in collaboration with WWF-DCP and Natura2000 Romania

2003: *Course for protected areas Custodians*

Jupânești, Romania

- organised by Green Cross Romania in the frame of the LIFE2000Nat/RO/7187 REV project: *Bats Protection and Conservation of their Underground Habitats in SW Carpathians*

Environment projects

2001 - 2004: *Bats Protection and Conservation of their Underground Habitats in SW Carpathians*
Project Life no. LIFE2000Nat/RO/7187 REV
- collaborator

2003: *A Life Buoy for The Sea*
Project no. RER/01/G33: BSERP/SGP/ ROM2
– collaborator

Communication/Awareness

2012: *Le Monde Souterrain Invisible De Dobrogea Du Sud – A.M. Hillebrand-Voiculescu*
Bucharest (Romania)
Oral presentation in the frame of the International conference: *Dobrogea. Entre Terre Et Mer, L'Amprunte du Temps Et Du L'Homme* (Dobrogea. Between Earth and Sea, Time and Man Fingerprint)

2008: *Quo Vadis Mehedinți Plateau Geopark? - A. Hillebrand, C. Lascu, V. Drăgușin, E. Isverceanu;*
Sinaia (Romania)
Oral presentation in the frame of the interdisciplinary workshop: *Vulnerability of Karstic Patrimony Elements in Protected Areas*

2003 – present: Documentaries
Member in GESS team

Awareness, ecological education

2010 – present: Summer schools for kids aged 11 to 14

2002 – present: Seminars & workshops for the students from the Faculty of Biology of the Ovidius University, Constanța

ANNEXES

Annex 1: *List of publications*

Annex 3: *List of grants and projects*

Annex 1: PUBLICATIONS

PUBLICATION LIST_Alexandra Hillebrand-Voiculescu

	Scientific papers (ISI)
1.	Novakova A, Hubka V, Hillebrand-Voiculescu AM (2016) <i>Cultivable microscopic fungi from an underground chemosynthesis-based ecosystem. A preliminary study, Folia Microbiologica – submitted</i>
2.	Chang D, Knapp M, Enk J, Lippold S, Kircher M, Lister A, MacPhee RDE, Widga C, Czechowski P, Sommer R, Hodges E, Stümpel N, Barnes I, Dalén L, Derevianko A, Germonpré M, Hillebrand-Voiculescu A , Constantin S, Kuznetsova T, Mol D, Rathgeber T, Rosendahl W, Tikhonov AN, Willerslev E, Hannon G, Lalueza-Fox C, Jøger U, Poinar H, Hofreiter M, Shapiro B (2016) <i>The evolutionary and phylogeographic history of woolly mammoths: a comprehensive mitogenomic analysis, Scientific Reports – submitted</i>
3.	Stephenson J, Kumaresan D, Hillebrand-Voiculescu AM , Murrell JC (2016) <i>Draft genome sequence of the methane oxidising bacterium “Candidatus Methylomonas sp. LWB” isolated from Movile Cave, Genome Announc. – in press</i>
4.	Wischer D, Kumaresan D, Johnston A, El Khawand M, Stephenson J, Hillebrand-Voiculescu A.M. , Chen Y, Murrell J.C. (2015) <i>Bacterial metabolism of methylated amines and identification of novel methylotrophs in Movile Cave, The ISME J</i> , 9(1): 195-206; doi:10.1038/ismej.2014.102
5.	<i>Draft genome sequences of facultative methylotrophs, Gemmobacter sp. strain LW1 and Mesorhizobium sp. strain 1M-11, isolated from Movile Cave, Romania – Kumaresan D, Wischer D, Hillebrand-Voiculescu AM, Murrell JC (2015) Genome Announc. 3:e01266-15</i>
6.	Hillebrand-Voiculescu A.M. , Ițcuș C, Ardelean I, Pascu DM, Perșoiu A, Rusu A, Brad T, Popa E, Onac BP, Purcarea C. (2014) <i>Searching for Cold-Adapted Microorganisms in the Underground Glacier of Scărișoara Ice Cave, România, Acta Carsologica</i> , 43(2-3): 319-329;
7.	Schirmack J., Mangelsdorf K., Ganzert L., Sand W., Hillebrand-Voiculescu A. , Wagner D. (2014) <i>Methanobacterium movilense sp. nov., a Hydrogenotrophic, Secondary Alcohol Utilizing Methanogen from the Anoxic Sediment of the Subsurface Lake in Movile Cave, România, Int. J. Sys. Evol. Microbiol.</i> , 64(Pt 2): 522-527; doi:10.1099/ijs.0.057224-0
8.	Lars Ganzert L., Schirmack J., Alawi M., Mangelsdorf K., Sand W., Hillebrand-Voiculescu A. , Wagner D. (2014) <i>Methanosarcina spelaei sp. nov., a methanogenic archaeon isolated from a floating biofilm of a subsurface sulphurous lake, Int. J. Sys. Evol. Microbiol.</i> , 64(Pt 10): 3478-3484; doi: 10.1099/ijs.0.064956-0
9.	Flot JF, Bauermeister J., Brad T, Hillebrand-Voiculescu A. , Sarbu SI, Dattagupta S. (2014) <i>Niphargus-Thiothrix associations may be widespread in sulfidic groundwaters: evidence from southeastern România, Molec. Ecol.</i> , 23(6): 1405-1417; doi: 10.1111/mec.12461;
10.	Kumaresan D., Wischer D., Stephenson J., Hillebrand-Voiculescu A. , Murrell J.C., 2013, <i>Microbiology of Movile Cave – A Chemolithoautotrophic Ecosystem, Geomicrobiol. J.</i> , 31(3): 186 – 193, doi: 10.1080/01490451.2013.839764
11.	Hillebrand-Voiculescu A. , Rusu A., Ițcuș C., Perșoiu A., Brad T., Pascu M.D., Ardelean I., Onac B.P., Purcarea C., 2013, <i>Bacterial 16S-rRNA Gene Clone Library from Recent Ice Stalagmites of Scărișoara Cave, Rom. J. Biochem.</i> , 50(2): 109–118
12.	Chen Y., Boden R., Hillebrand A. , Baciú M., Kumaresan D., Moussard H., Murrell J.C., 2009, <i>Life Without Light: Microbial Diversity and Evidence of Sulfur- and Ammonium-Based Chemolithotrophy in Movile Cave</i> , <i>ISME J</i> , 3(9): 1093-104;
13.	Falniowski A., Szarowska M., Sirbu I., Hillebrand A. , Baciú M., 2008, <i>Heleobia Dobrogea (Grossu & Negrea, 1989)(Gastropoda: Rissooidea: Cochliopidae) and the Estimated Time of its Isolation in a Continental Analogue of Hydrothermal Vents, Molluscan Research</i> , 28(3): 165–170;
14.	Durek T., Alexandrov K., Goody R. S., Hillebrand A. , Heinemann I., Waldmann H., 2004, <i>Synthesis of Fluorescently Labeled Mono- and Diprenylated Rab7 GTPase, J. Am. Chem. Soc.</i> , 126(50): 16368-78;
15.	J. Ciopraga, Hillebrand A. , L. Matei, 2004, <i>Disulfide Bonds Formation And Role In Prokaryotic And Eukaryotic Cells, Rom. J. Biochem.</i> , 41(1): 65-79
16.	Ciopraga J., Hillebrand A. , 2003, <i>Protein Disulfid Isomerase: A Multifunctional Folding Oxidoreductase, Rom. J.</i>

	<i>Biochem.</i> , 40: 77-99
17.	Hillebrand A. M , Petrescu S. M, Bulleid N. J., 2002, <i>Folding Of Tyrosinase In An In Vitro Translation System</i> , <i>Eur. J. Biochem.</i> 269 (suppl. 1): 64 (PS3-037);
18.	Ciopraga, J, Hillebrand A , Petrescu S., 2002, <i>Protein Disulfid Isomerase Activity In Melanoma Cells</i> , <i>Rom. J. Biochem.</i> , 39: 3-11
19.	Hillebrand A. M. , 2002, <i>Folding Enzymes In Glycoproteins Maturation</i> , <i>Rom. J. Biochem.</i> , 39: 71-82
20.	Melcher R, Hillebrand A , Bahr U, Schroder B, Karas M, Hasilik A, 2000, <i>Glycosylation-Site-Selective Synthesis Of N-Acetyl-Lactosamine Repeats In Bis-Glycosylated Human Lysozyme</i> , <i>Biochem J.</i> , 348 (Pt 3): 507-515;
21.	Iakovenko A., Rostkova E., Merzlyak E., Hillebrand A.M. , Thomä N.H., Goody R.S., Alexandrov K., 2000, <i>Semi-Synthetic Rab Proteins As Tools For Studying Intermolecular Interactions</i> , <i>FEBS Lett.</i> , 468(2-3): 155-8;

BOOKS	
1.	Gaman Laura, Gîlcă-Vasile Marilena, Hillebrand Alexandra Maria , Vârgolici Bogdana, 2013, <i>Practical Guide of Biochemistry Second Revised Edition</i> , Coord. Dr. Stoian Irina, "Carol Davila" University Press, Bucharest-2013, ISBN: 978-973-708-714-0;
2.	Gîlcă Marilena, Gaman Laura, Panait Elena, Hillebrand Alexandra , Bogdana Vârgolici, 2011, <i>Practical Guide of Biochemistry</i> , Coord. Dr. Stoian Irina, Revised Edition, "Carol Davila" University Press, Bucharest-2011, ISBN: 978-973-708-638-9;
3.	Gîlcă Marilena, Gaman Laura, Panait Elena, Hillebrand Alexandra , Vârgolici Bogdana, 2010, Coord. Stoian Irina, <i>Practical Guide of Biochemistry</i> , "Carol Davila" University Press, Bucharest-2010, ISBN: 978-973-708-434-7;

BOOK CHAPTERS	
1.	Kumaresan D, <u>Hillebrand-Voiculescu AM</u> , Wischer D, Stephenson J, Chen Y, Murrell JC, 2014, <i>The microbial world of Movile Cave in Life in Extreme Environments</i> , de Gruyter Publisher, Berlin – in press
2.	Hillebrand-Voiculescu Alexandra , 2013, <i>L'Invisible Monde Souterrain de Dobrogea de Sud în Recherches Croisées en Dobrogea</i> , Coord. Jean-Paul Saint Martin, Ed. Amanda Edit, Bucharest, ISBN: 978-606-8567-14-3;
3.	Hillebrand Alexandra , 2008, <i>The Caves And Organisms' Adaptations To Their Environmental Conditions In Adaptation To Stress: Survival Condition And/Or Biodiversity Factor</i> , 205-217, Ed. Romanian Academy, ISBN: 979-973-27-1540-0;

Annex 2: GRANTS AND PROJECTS**I. SCIENTIFIC GRANTS AND PROJECTS****INTERNATIONAL GRANTS AND PROJECTS**

- **CO-APPLICANT** (Head of the Romanian team) (1 grant)

2010 – 2013: *Microbial Food Webs In Movile Cave* (project no. NE/G017956/1)

Director of project: Prof. Colin Murrell, Warwick University, Great Britain

Financed by: Natural Environment Research Council (NERC)

- **COLLABORATOR** (2 grants)

2016 – 2018: *Cave ice microbiom: metabolic diversity and activity in response to climate dynamics and anthropogenic pollution* (project ERANET-LAC, no.25/2016)

Director: Dr. Cristina Purcărea, Inst. of Biology, Bucharest, Romania

Financed by: ANCS-UEFISCDI

1995 – 1997: *Signal Perception And Transduction In Plant - Fungus Interaction*

Director: Dr. Ofelia Gozia, Inst. of Biochemistry, Bucharest, Romania

Financed by: European Community

NATIONAL GRANTS AND PROJECTS

- **PROJECT DIRECTOR** (5 grants)

2007 – 2008: *A Model Of Microbial Communities Living In The Biofilms At The Sulphurous Thermal Water - Air Interface In Mangalia Aquifer Structure And Activity Variation (Movile Cave)* (project no. 235)

Financed by: Romanian Academy

2003 – 2004: *Determination of Protein-Disulfid Isomerases Oxidative States in the ER* (project no. 79, 82)

Financed by: Romanian Academy

2000: *ERp57 and other Protein Disulfid Isomerases Role in Tyrosinase Folding* (project no. 6136/B10)

Financed by: Romanian Academy

1999 – 2000: *Study of Depigmentation Mechanisms in Movile Cave Organisms* (project no. 5204/B7; 6032/A7)

Financed by: Romanian Academy

1999: *Study of ERp57 Involvement in Glycoprotein Folding Mechanism* (project no. 34/414)

Financed by: Romanian Academy

- **COLLABORATOR** (8 grants)

2012 – 2015: *Resilience of hydrothermal systems against natural and anthropogenic disturbances* (project no. PN-II-PT-PCCA-2011-3.1-1619)

Director of project: Dr. Constantin Marin, E.Racoviță Inst. Speleology, Bucharest, Ro

Financed by: ANCS-UEFISCDI

2011 – 2015: *Biodiversity and Chronological Distribution of Microorganisms in the Perennial Ice Deposits of Scărișoara Cave Glacier (Romania)* (project no. PN-II-ID-PCE-2011-3-0742)
Director of project: Dr. Cristina Purcărea, Instit. Biology, Bucharest, Romania
Financed by: ANCS-UEFISCDI

2009 – 2013: *Climate Archives In Karst – An Integrated Approach To The Study And Modeling Of Abrupt Climate Oscillations* (project no. PN-II-ID-PCCE-2008-1)
Director of project: Dr. Silviu Constantin, E.Racoviță Instit. Speleology, Bucharest, Romania
Financed by: CNCSIS

2007 – 2008: *Study of Pollutants Transfer Mechanisms in Karst* (project no. 107)
Director of project: Dr. Constantin Marin, E.Racoviță Instit. Speleology, Bucharest, Romania
Financed by: CNCSIS

2007 – 2008: *Rapid Climate Oscillations In Karst Deposits From Romania As Revealed By Isotopic And Paleomagnetic Proxies* (project no. CEEEX 627/2005)
Director of project: Dr. Silviu Constantin, E.Racoviță Instit. Speleology, Bucharest, Romania
Financed by: National Agency of Research and Technology

2001 – 2002: *Role of Disulfide Isomerases in Glycoproteins Biosynthesis in Animal Cells* (project no: 33508)
Director of project: Dr. Jeana Ciopraga, Instit. Biochemistry, Bucharest, Romania
Financed by: Romanian Ministry of Research and Technology

1996 – 1999: *Studies on Plants' Molecular Defence Mechanisms Against Pathogenic Agents, To Elaborate New Strategies To Increase Their Resistance To Diseases, With A Direct Impact On The Environment's Protection* (project no. 269)
Director of project: Dr. Ofelia Gozia, Instit. Biochemistry, Bucharest, Romania
Financed by: Romanian Ministry of Research and Technology

1995: *Trophic Net of the Chemosynthesis- Based Ecosystem of Movile Cave* (project no. 3919)
Director of project: Dr. Șerban Sârbu, Group for Underwater and Speleological Exploration
Financed by: Romanian Academy

II. ENVIRONMENTAL GRANTS AND PROJECTS

- COLLABORATOR:

2001 – 2004: *Bats Protection and Conservation of their Underground Habitats from Meridional Carpathians*
(LIFE2000Nat/RO/7187 REV)
Group for Underwater and Speleological Exploration
Financed by: European Community

2003: *A Life Buoy for the Sea* (RER/01/G33: BSERP/SGP/ ROM2)
Group for Underwater and Speleological Exploration
Financed by: European Community

1997: *Sustainable Development of Mangalia Touristic Region*
Group for Underwater and Speleological Exploration
Financed by: Soros Society