







## PERSONAL INFORMATION

## ALEXANDRA MARIA HILLEBRAND-VOICULESCU

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

## PLACES OF WORK & PROFESSIONAL EXPERTISE

- 2005 – present: *Emil Racoviță* Institute of Speleology, Romanian Academy, Bucharest, Romania  
Biochemist, CS II
  - Study of the subterranean ecosystems
  - Techniques: biochemistry, enzymology, molecular biology, microbiology
- 1997 – 2005: Institute of Biochemistry, Romanian Academy, Bucharest, Romania  
Biochemist, CS, CSIII
  - Study of the processes occurring in the Endothelial Reticulum
  - Techniques: protein biochemistry (chromatography, electrophoresis, western blot), enzymology, molecular biology, mammalian cell cultures, *in vivo* cell labelling, *in vitro* transcription and translation,
- 2005 – present; 1994 – 2001: Dpt. Biochemistry, *Carol Davila* University of Medicine and Pharmacy, Bucharest  
Associate assistant
  - Laboratory work with 1<sup>st</sup> year students of the Faculty of General Medicine
- 1996 – present: ROMINVENT S.A.  
Collaborator
  - Technical translations from English, French and German into Romanian and from Romanian into English, French of patents in the field of biochemistry, molecular biology, cell biology, immunology, medicine, microbiology, ecology etc.
- 1995 – 1996: Biorom S.A., Bucharest  
Sales agent and consultant
- 1992: Professor of biology  
Normal school no. 32, Bucharest

## EDUCATION

- 2014 – 2016 MSc. in Psychological Assessment and Intervention in Educational Sciences  
Faculty of Psychology, University of Bucharest
- 1998 – 2004: PhD in Biological Sciences  
Institute of Biochemistry, Romanian Academy
- 1994 – 1995 MSc. in Molecular Biology  
Dpt. Biochemistry, Faculty of Biology, University of Bucharest
- 1989 – 1994: Bachelor in Biological Sciences  
Dpt. Biochemistry, Faculty of Biology, University of Bucharest

## RESEARCH INTERESTS

1. Hypogenic caves and chemosynthetic based ecosystems
  - Movable cave ecosystem and the sulphurous ecosystem of south Dobrogea
  - Grants: 1 international – collaborator;  
2 national – director;  
1 national – collaborator.
  - Scientific papers: 11; book chapters: 4
2. Microbial diversity in icy environments (ice caves; glaciers; permafrost etc.)
  - Grants: 1 international – collaborator;  
1 national – collaborator.
  - Scientific papers: 2
3. Karstology – transfer mechanisms & climate archives in karst; anthropogenic impact on karst
  - Grants: 4 national – collaborator
4. Ancient DNA, extinct species from caves
  - Scientific papers: 1

**RESEARCH INTERESTS (cont.)**

5. Processes occurring in the Endoplasmic Reticulum – glycoproteins maturation
- Grants: 1 international – collaborator; 1 national – collaborator.
  - Scientific papers: 8
- See:
- the List of publications (scientific papers and books chapters) in annex 1;
  - the List of grants and projects in annex 2;
  - the List of Conferences, Workshops and Scientific Meetings in annex 3;
  - the List of Professional Societies I am a member of in annex 4;
  - the List of Editorial Boards I am a member of in annex 5;

**FELLOWSHIPS, WORKING VISITS (see list in annex 6)**

- 1999 – 2015:
- 2 Fellowships: 1 DAAD<sup>1</sup>, 1 Marie Curie fellowship on protein glycosylation and folding;
  - 5 working visits at:
    - Max Plack Institute, Dortmund, Germany – on fluorescently labelled proteins obtained through the intein mediated ligation
    - Dep. Microbiology, University of Hamburg – on microbiology;
    - Max-Planck Institute for Evolutionary Anthropology, Leipzig, Germany – on ancient DNA isolation and analysis;
    - School of Life Sciences, University Warwick, UK – on methanogenic archaea communities from Movile Cave (Romania) biofilms and sediments
  - 2 academic exchanges at: - Institute of Soil Biology, ASCR<sup>2</sup>, Cescke Budejovice, Czech Republic  
- Institute of Microbiology, ASCR, Prague, Czech Republic  
Both on the microbial communities from caves with focus on fungi
  - 1 short term scientific mission at the Unity of Ecology, Systematics and Evolution (ESE, CNRS UMR8079), University Paris-Sud, Orsay, France – on protists from Movile Cave

**COURSES (see list in annex 7)**

- 1995 – 2012: Several courses on karstology and hydrogeology, molecular zoology, biospeleology and glycosciences organised in Romania, Greece, Russia and China

**OTHER INTERESTS**
**• ENVIRONMENT PROTECTION**

- 1994 – to date: Group for Underwater and Speleological Exploration (GESS<sup>3</sup>)
- since 2015: Director of the Protected Areas Department
  - since 2005: custodian of two natural protected areas that were later declared Natura2000 sites

**Courses on environment protection (see annex 8):** 3 thematic courses

**Achievements in the field of environment protection**

- Tentative list to declare Movile Cave and the sulphurous ecosystem of South Dobrogea UNESCO site;
- Regulations for the ROSCI114 *Hergheliei Swamp – Obantul Mare and Movile Cave*, ROSCI0191 *Limanu Cave* Natura2000 sites and *Izverna Cave* natural reserve;
- Management Plans for the ROSCI114 *Hergheliei Swamp – Obantul Mare and Movile Cave*, ROSCI0191 *Limanu Cave* Natura2000 sites and *Izverna Cave* natural reserve.

**Ecological education & communication**

**2010 – present** *SCUBA\_Speleo Adventure*<sup>4</sup>

**2012** Bucharest (Romania): *Dobrogea. Entre Terre Et Mer, L'Amprainte du Temps Et Du L'Homme* – conference

Lecture: *Le Monde Souterrain Invisible De Dobrogea Du Sud* – **Hillebrand-Voiculescu A.M.**

**2008** Sinaia (Romania): *Karstic Legacy Vulnerability in Natural Protected Areas* – workshop

Lecture (Ro): *Quo Vadis the Geopark Mehedinți Plateau?* - **Hillebrand A.**, Lascu C., Drăgușin V., Isverceanu E.

**2002 – present** Seminars for students of the Faculty of Biology of the *Ovidius* University, Constanța, Romania

<sup>1</sup> DAAD = Deutscher Akademischer Austauschdienst (German Academic Exchange Service)

<sup>2</sup> ASCR = Academy of Sciences of the Czech Republic

<sup>3</sup> GESS = Grupul de Explorări Subacvatice și Speologie

<sup>4</sup> *SCUBA\_Speleo Adventure* = kid camp for children (11 to 14) aiming to increase awareness about the ecological risks of underwater (by SCUBA diving), underground (by caving) and surface ecosystems by visiting and describing the underwater, underground and surface natural protected areas in South Dobrogea, Romania; - the field trips are complemented with laboratory activities (microscopy observation, chemistry) and documentaries on underwater/underground fauna

### Exploration

- 2004 – 2008** Member of the support team during the exploration of Izverna Cave and the nearby karstic area  
**1996 – to date** Member of the team making documentaries, photographic albums etc.

### • EDUCATIONAL SCIENCES AND VOCATIONAL COUNSELLING

#### Education in the field of educational sciences/counselling

- 2015 – 2016** Course of Career Counselling  
 NBCC – GCDF
- 2014 – 2016** MSc in Psychological Assessment and Intervention in Educational Sciences  
 Faculty of Psychology, Bucharest University, Romania

#### Achievements in the field of educational sciences/counselling

- 2016 NBCC 2016 GCDF award

## SKILLS

### • Foreign languages

	Understanding		Speaking		Writing	
	Listening	Reading	Conversation	Discourse		
French	C2	C2	C2	C2	C2	C2
English	C2	C2	C2	C2	C2	C2
German	C1	B2	C1	C1	C1	C1
Spanish	B2	B2	B1	A2	A2	

### • Communication Skills

Very good communication skills as a result of my selling (1 year), teaching (1 year – normal school; >20 years – university) expertise, lecturing during numerous conferences and workshops, as well as my training in the frame of the MSc program Psychological Assessment and Intervention in Educational Sciences (Faculty of Psychology and Educational Sciences, Bucharest University, Romania)

### • Management Skills

Very good management skills:

- certified Project Manager (since 2010; SC Ira Test Consult srl, Bucharest, Romania);
- coordinator of the Romanian research team in two international scientific projects;
- director of five national scientific projects;
- secretary of the Romanian Society of Biochemistry and Molecular Biology (2003 – 2004) – organiser of several international courses and conferences;
- member of the Management committee of the COST action *Origins TD1308: Origins and Evolution of Life on Earth and in the Universe*;
- director of the Dep. Protected Areas at GESS (since 2014);
- organiser of *SCUBA\_Speleo Adventure* (since 2010)

### • Teaching Skills

Exceptional teaching skills: 1 year biology professor school, since 1994 associate assistant at the Faculty of *Carol Davila* Medicine and Pharmacy, Bucharest; since 2016 member of a PhD coordinating team

### • Other Skills

- SCUBA diver (since 2008: Intro Cave Diver (IANTD); since 2006: Master Scuba Diver (NAUI))  
 Alpine Speleological Technique (since 2015; Romanian Federation of Speleology)  
 First Aid (since 2008, Red Cross Romania)

## MISCELLANEOUS

### • Certified person (ID no.25363150)

Main Activity:

- Research – Development in Biological Sciences and Engineering (CAEN<sup>5</sup>: 7219);

Secondary activities:

- Educational support (summer schools, laboratory activities; CAEN: 8560);
- Sporting activities (CAEN: 9319)
- Translations and interpreting (CAEN: 7430)

<sup>5</sup> CAEN = Clasificarea Activităților din Economia Națională, Nomenclature des Activités Économiques dans la Communauté Européenne

## Annex 1

## PUBLICATIONS

## SCIENTIFIC PAPERS

1. Kumaresan D., Stephenson J., Doxey A.C., Bandukwala H., Brooks E., **Hillebrand-Voiculescu A.**, Whiteley A.S., Murrell J.C. (2018) *Aerobic proteobacterial methylotrophs in Movile Cave: genomic and metagenomic analyses*, *Microbiome*, in press
2. Novakova A, Hubka V, **Hillebrand-Voiculescu AM** (2017) *Cultivable microscopic fungi from an underground chemosynthesis-based ecosystem. A preliminary study*, *Folia Microbiologica*, doi 10.1007/s12223-017-0527-6
3. 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, Joger U, Poinar H, Hofreiter M, Shapiro B (2017) *The evolutionary and phylogeographic history of woolly mammoths: a comprehensive mitogenomic analysis*, *Scientific Reports*, 7, 44585, doi: 10.1038/srep44585
4. Stephenson J, Kumaresan D, **Hillebrand-Voiculescu AM**, Murrell JC (2017) *Draft genome sequence of the methane oxidizing bacterium "Candidatus Methylomonas sp. LWB" isolated from Movile Cave*, *Genome Announc.*, 5: e01491-16 (<https://doi.org/10.1128/genomeA.01491-16>)
5. Kumaresan D, Wischer D, **Hillebrand-Voiculescu AM**, Murrell JC (2015) *Draft Genome Sequences of Facultative Methylotrophs, Gemmobacter sp. Strain LW1 and Mesorhizobium sp. Strain 1M-11, Isolated from Movile Cave, Romania*, *Genome Announc.*, 3:doi:10.1128/genomeA.01266-15
6. Wischer D, Kumaresan D, Johnston A, El Khawand M, Stephenson J, **Hillebrand-Voiculescu A.M.**, Chen Y, Murrell J.C. (2015) *Bacterial metabolism of methylated amines and identification of novel methylotrophs in Movile Cave*, *The ISME J.*, 9(1): 195-206; doi:10.1038/ismej.2014.102
7. **Hillebrand-Voiculescu A.M.**, Ițcuș C, Ardelean I, Pascu DM, Perșoiu A, Rusu A, Brad T, Popa E, Onac BP, Purcarea C. (2014) *Searching for Cold-Adapted Microorganisms in the Underground Glacier of Scărișoara Ice Cave, Romania*, *Acta Carsologica*, 43(2-3): 319-329;
8. Schirmack J., Mangelsdorf K., Ganzert L., Sand W., **Hillebrand-Voiculescu A.**, Wagner D. (2014) *Methanobacterium movilense sp. nov., a Hydrogenotrophic, Secondary Alcohol Utilizing Methanogen from the Anoxic Sediment of the Subsurface Lake in Movile Cave, Romania*, *Int. J. Sys. Evol. Microbiol.*, 64(Pt 2): 522-527; doi:10.1099/ijs.0.057224-0
9. Lars Ganzert L., Schirmack J., Alawi M., Mangelsdorf K., Sand W., **Hillebrand-Voiculescu A.**, Wagner D. (2014) *Methanosarcina spelaei sp. nov., a methanogenic archaeon isolated from a floating biofilm of a subsurface sulphurous lake*, *Int. J. Sys. Evol. Microbiol.*, 64(Pt 10): 3478-3484; doi: 10.1099/ijs.0.064956-0
10. Flot JF, Bauermeister J., Brad T, **Hillebrand-Voiculescu A.**, Sarbu SI, Dattagupta S. (2014) *Niphargus-Thiothrix associations may be widespread in sulfidic groundwaters: evidence from southeastern Romania*, *Molec. Ecol.*, 23(6): 1405-1417; doi: 10.1111/mec.12461;
11. Kumaresan D., Wischer D., Stephenson J., **Hillebrand-Voiculescu A.**, Murrell J.C., 2013, *Microbiology of Movile Cave – A Chemolithoautotrophic Ecosystem*, *Geomicrobiol. J.*, 31(3): 186 – 193, doi: 10.1080/01490451.2013.839764
12. **Hillebrand-Voiculescu A.**, Rusu A., Ițcuș C., Perșoiu A., Brad T., Pascu M.D., Ardelean I., Onac B.P., Purcărea C., 2013, *Bacterial 16S-rRNA Gene Clone Library from Recent Ice Stalagmites of Scărișoara Cave*, *Rom. J. Biochem.*, 50(2): 109–118
13. Chen Y., Boden R., **Hillebrand A.**, Baciu M., Kumaresan D., Moussard H., Murrell J.C., 2009, *Life Without Light: Microbial Diversity and Evidence of Sulfur- and Ammonium-Based Chemolithotrophy in Movile Cave*, *ISME J*, 3(9): 1093-104;
14. Falniowski A., Szarowska M., Sirbu I., **Hillebrand A.**, Baciu M., 2008, *Heleobia Dobrogica (Grossu & Negrea, 1989)(Gastropoda: Rissooidea: Cochliopidae) and the Estimated Time of its Isolation in a Continental Analogue of Hydrothermal Vents*, *Molluscan Research*, 28(3): 165–170;
15. Durek T., Alexandrov K., Goody R. S., **Hillebrand A.**, Heinemann I., Waldmann H., 2004, *Synthesis of Fluorescently Labeled Mono- and Diprenylated Rab7 GTPase*, *J. Am. Chem. Soc.*, 126(50): 16368-78;
16. J. Ciopraga, **Hillebrand A.**, L. Matei, 2004, *Disulfide Bonds Formation And Role In Prokaryotic And Eukaryotic Cells*, *Rom. J. Biochem.*, 41(1): 65-79
17. Ciopraga J., **Hillebrand A.**, 2003, *Protein Disulfid Isomerase: A Multifunctional Folding Oxidoreductase*, *Rom. J. Biochem.*, 40: 77-99
18. **Hillebrand A. M**, Petrescu S. M, Bulleid N. J., 2002, *Folding Of Tyrosinase In An In Vitro Translation System*, *Eur. J. Biochem.* 269 (suppl. 1): 64 (PS3-037);
19. Ciopraga, J, **Hillebrand A**, Petrescu S., 2002, *Protein Disulfid Isomerase Activity In Melanoma Cells*, *Rom. J. Biochem.*, 39: 3-11
20. **Hillebrand A. M.**, 2002, *Folding Enzymes In Glycoproteins Maturation*, *Rom. J. Biochem.*, 39: 71-82
21. Melcher R, **Hillebrand A**, Bahr U, Schroder B, Karas M, Hasilik A, 2000, *Glycosylation-Site-Selective Synthesis Of N-Acetyl-Lactosamine Repeats In Bis-Glycosylated Human Lysozyme*, *Biochem J.*, 348 (Pt 3): 507-515;
22. Iakovenko A., Rostkova E., Merzlyak E., **Hillebrand A.M.**, Thomä N.H., Goody R.S., Alexandrov K., 2000, *Semi-Synthetic Rab Proteins As Tools For Studying Intermolecular Interactions*, *FEBS Lett.*, 468(2-3): 155-8;

**BOOKS**

1. Gaman Laura, Gîlcă-Vasile Marilena, **Hillebrand Alexandra Maria**, Vârgolici Bogdana, 2013, *Practical Guide of Biochemistry*, 2<sup>nd</sup> edition, Coord. Dr. Stoian Irina, C.Davila University of Medicine and Pharmacy Publishing House, Bucharest-2013, ISBN: 978-973-708-714-0;

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2. Gîlcă Marilena, Gaman Laura, Panait Elena, **Hillebrand Alexandra**, Bogdana Vârgolici, 2011, *Practical Guide of Biochemistry*, Coord. Dr. Stoian Irina, Ediție revizuită, C.Davila University of Medicine and Pharmacy Publishing House, Bucharest-2011, ISBN: 978-973-708-638-9;

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3. Gîlcă Marilena, Gaman Laura, Panait Elena, **Hillebrand Alexandra**, Vârgolici Bogdana, 2010, Coord. Stoian Irina, *Practical Guide of Biochemistry*, C.Davila University of Medicine and Pharmacy Publishing House, Bucharest-2010, ISBN: 978-973-708-434-7;

**BOOKS CHAPTERS**

1. **Hillebrand-Voiculescu AM**, *in press, Researches in sulphide based ecosystems in Cave Ecology*, Oana Teodora Moldovan, Lubomir Kovac si Stuart Halse (Eds.) Springer

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2. Kumaresan D, **Hillebrand-Voiculescu AM**, Wischer D, Stephenson J, Chen Y, Murrell JC, 2015, *Microbial life in unusual cave ecosystems sustained by chemosynthetic primary production in Microbial Life of Cave Systems, Life in Extreme Environments*, Summers Engel, A. (Ed.), Berlin, Boston: De Gruyter, vol. 3, pg. 215 – 230, ISBN: 978-3-11-033988-8;

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3. **Hillebrand-Voiculescu Alexandra**, 2013, *L'Invisible Monde Souterrain de Dobrogea de Sud în Recherches Croisées en Dobrogea*, Coord. Jean-Paul Saint Martin, Ed. Amanda Edit, Bucharest, ISBN: 978-606-8567-14-3;

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4. **Hillebrand Alexandra**, 2008, *The Caves And Organisms' Adaptations To Their Environmental Conditions In Adaptation To Stress: Survival Condition And/Or Biodiversity Factor*, 205-217, Ed. Romanian Academy, ISBN: 979-973-27-1540-0;

## Annex 2

## SCIENTIFIC GRANTS AND PROJECTS

## I.1. INTERNAȚIONAL GRANTS AND PROJECTS

- **CO-APPLICANT** (Director of the Romanian team) (1 grant)  
2010 – 2013: *Microbial Food Webs In Movile Cave* (project no. NE/G017956/1)  
Director: Prof. Colin Murrell, Universitatea Warwick, Marea Britanie  
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* (proiect ERANET-LAC, nr.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 de proiect: Dr. Ofelia Gozia, Inst. de Biochimie, Bucharest, Romania  
Financed by European Community

## - NATIONAL GRANTS AND PROJECTS

- **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 the Romanian Academy
- 2003 – 2004: *Determination of Protein-Disulfid Izomerases Oxidative States in the ER* (project no. 79, 82)  
Financed by the Romanian Academy
- 2000: *ERp57 and other Protein Disulfid Isomerases Role in Tyrosinase Folding* (project no. 6136/B10)  
Financed by the Romanian Academy
- 1999 – 2000: *Study of Depigmentation Mechanisms in Movile Cave Organisms* (project no. 5204/B7; 6032/A7)  
Financed by the Romanian Academy
- 1999: *Study of ERp57 Involvement in Glycoprotein Folding Mechanism* (project no. 34/414)  
Financed by the 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: Dr. Constantin Marin, E.Racovița Institute of Speleology, Bucharest, Romania  
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: Dr. Cristina Purcărea, Institute of 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: Dr. Silviu Constantin, E.Racovița Institute of Speleology, Bucharest, Romania  
Financed by CNCSIS
- 2007 – 2008: *Study of Pollutants Transfer Mechanisms in Karst* (project no. 107)  
Director: Dr. Constantin Marin, E.Racovița Institute of 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: Dr. Silviu Constantin, E.Racovița Institute of Speleology, Bucharest, Romania  
Financed by National Agency for Research and Technology
- 2001 – 2002: *Role of Disulfide Isomerases in Glycoproteins Biosynthesis in Animal Cells* (project no. 33508)  
Director: Dr. Jeana Ciopraga, Institute of Biochemistry, Bucharest, Romania  
Financed by Romanian Ministry of Science 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: Dr. Ofelia Gozia, Institute of Biochemistry, Bucharest, Romania  
Financed by the Romanian Ministry of Science and Technology

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

**Annex 3**
**CONFERENCES, WORKSHOPS**
**- INTERNAȚIONAL CONFERENCES, WORKSHOPS**

1. Porto, Portugal, 2015: *Habitability in the Universe: from the early Earth to exoplanets*, COST TD1308  
Poster: *Rich Underground Extra-Terrestrial Systems May Thrive In Oxygen's Absence* – [Hillebrand-Voiculescu A.](#), Sarbu S., Popa R
2. Montana, USA, 2013: The 5th International Conference on Polar & Alpine Microbiology  
*Diversity of Ice Embedded Microorganisms From Scărișoara Cave, Romania* – Ițcuș C, [Hillebrand-Voiculescu AM](#), Pascu D, Rusu A, Ardelean I, Perșoiu A, Brad T, Popa E, Onac BP, Purcărea C.
3. Leeds, United Kingdom, 2013: Workshop: *Life in The Cold*  
Poster: *Cultured And Uncultured Microorganisms From Perrenial Cave Ice* – C. Ițcuș, [A.Hillebrand-Voiculescu](#), D.M. Pascu, A.Perșoiu, T.Brad, C.Purcărea
4. South Hadley, MA, USA, 2013: Gordon Research Conference, Applied and Environmental Microbiology: *Exploring and Exploiting the Depths of the Microbial Biosphere*  
Poster: *The Microbiology of Movile Cave – A Unique Chemolithoautotrophic Ecosystem* – D. Kumaresan, D. Wischer, J. Stephenson, [A. Hillebrand-Voiculescu](#), A. Crombie, J.C. Murrell
5. Brno, Czech Republic, 2013: The 16<sup>th</sup> International Congress of Speleology  
Lecture: *Microfungal community of Movile Cave, Romania* – A. Nováková\*, V. Hubka, Š. Valinová, [A.M. Hillebrand – Voiculescu](#)
6. Brno, Czech Republic, 2013: The 16<sup>th</sup> International Congress of Speleology  
Lecture: *Unravelling Underground Ice Microcosms* – [A. Hillebrand-Voiculescu](#), C. Ițcus, A. Rusu, E. Popa, D. Pascu, I. Ardelean, A. Perșoiu, T. Brad, B. Onac, C. Purcărea
7. Brno, Czech Republic, 2013: The 16<sup>th</sup> International Congress of Speleology  
Poster: *Perennial Underground Ice Sediments Host A Diversity Of Microorganisms* – C. Ițcus, [A. Hillebrand-Voiculescu](#), D. Pascu, I. Ardelean, A. Perșoiu, T. Brad, B. Onac, C. Purcărea
8. Bucharest, Romania, 2012: International Scientific Session of the Institute of Biology  
Lecture: *Microbial Diversity in the Subterranean Ice Deposits of Scărișoara Cave* – [A.M. Hillebrand-Voiculescu](#), C. Ițcuș, A. Rusu, I. Ardelean, D. Pascu, A. Perșoiu, T. Brad, E. Popa, B. Onac, C. Purcărea
9. Bucharest, Romania, 2012: International Scientific Session of the Institute of Biology  
Poster: *Cell Growth and DGGE Analysis of Microorganisms from Ice Sediments in Scărișoara Cave* – [A.M. Hillebrand-Voiculescu](#), C. Ițcuș, A. Rusu, I. Ardelean, D. Pascu, A. Perșoiu, T. Brad, E. Popa, B. P. Onac, C. Purcărea
10. Kosice, Slovak Republic, 2012: The 21<sup>st</sup> International Conference on Subterranean Biology  
Lecture: *Preliminary Results On Microfungal Community Of Movile Cave, Romania* – Nováková, A., Hubka, V., [Hillebrand-Voiculescu, A.M.](#) (Lecture presented by dr. A. Nováková)
11. Barzio/Milano, Italy, 2012: The 5<sup>th</sup> International Workshop on Ice Caves (IWIC-5)  
Poster: *Microbial Biodiversity In Ice Sediments From Scărișoara Ice Cave (Romania)* – [A. Hillebrand-Voiculescu](#), C. Ițcuș, A. Rusu, A. Perșoiu, T. Brad, E. Popa, B.P. Onac, C. Purcărea
12. Bucharest, Romania, 2012: Conference *Dobrogea. Entre Terre Et Mer, L'Amprunte du Temps Et Du L'Homme*  
Lecture: *Le Monde Souterrain Invisible De Dobrogea Du Sud* – [A.M. Hillebrand-Voiculescu](#)
13. Bucharest, Romania, 2011: The 3<sup>rd</sup> International Symposium on Black Sea Region Geology  
Lecture: *Limanu And Movile Caves – Two Completely Different Natural Reserves, Parts Of One Natura2000 Site* – [A. Hillebrand](#)
14. Warwick, UK, 2011: Minisymposium of the School of Biological Sciences  
Lecture: *Looking For Bugs In Romania's Caves* – [A. Hillebrand](#)
15. Russia, 2010: Minisymposium of the 2<sup>nd</sup> Molecular Zoology summer school  
Lecture: *About the peculiar ecosystem of Movile Cave* – [A. Hillebrand](#)
16. Postojna, Slovenia, 2010: The 20<sup>th</sup> International Conference on Subterranean Biology  
Poster: *Microscopic Fungi Isolated From Several Caves In Romania* – A. Nováková, T. Brad, O. T. Moldovan, [A. Hillebrand](#)
17. Cairns, Australia, 2008: The 12<sup>th</sup> International Symposium of the Society for Microbial Ecology  
Edinburgh, UK, 2008: The 163<sup>rd</sup> Meeting of the Society of General Microbiology  
Poster: *Life Without Light: Bacterial, Archaeal And EMarea Britaniaryotic Communities In A Sulfur- And Methane- Driven Ecosystem (Movile Cave, Romania)* – Y. Chen, L-Q. Wu, R. Boden, [A. Hillebrand](#), D. Kumaresan, H. Moussard, M. Baciuc, Y-H. Lu, J.C. Murrell



18. Cluj, Romania, 2006: The 18<sup>th</sup> International Congress of Biospeleology: *100 Years of Biospeleology*  
Poster: *Preliminary Data On Depigmentation Mechanism In An Endemic Leech Species Living In Movile Cave - Haemopsis caeca* – [A. Hillebrand](#)
19. Istanbul (Turkey), 2002: Forum of Young Scientists  
Lecture: *Folding Of Tyrosinase In An In Vitro Translation System* – [A. Hillebrand](#), Ș. Petrescu, N. Bulleid
20. Spetses (Greece), 2002: FEBS advanced course - *Chemical Probes in Biology*  
Istanbul (Turkey), 2002: The 28<sup>th</sup> FEBS Meeting  
Poster: *Folding Of Tyrosinase In An In Vitro Translation System* – [A. Hillebrand](#), Ș. Petrescu, N. Bulleid
21. Cluj (Romania), 2001: The 2<sup>nd</sup> International Conference of the Romanian Society of Biochemistry and Molecular Biology  
Poster: *Maturation of Tyrosinase in the Endoplasmic Reticulum* – [A.M. Hillebrand](#), N. J. Bulleid
22. Spetsai (Greece), 2000: FEBS course, *New dimensions in the regulation of gene expression*  
Bucharest (Romania), 2000: The 29<sup>th</sup> International Conference of Immunology  
Poster: *Chemo-Enzymatic Synthesis Of The Fluorescent Complex Rab7:GDP Dissociation Inhibitor* – A.Ceacăreanu; [A.Hillebrand](#); K.Alexandrov
23. Bologna (Italy), 1999: European Cell Biology (ECBO 99)  
Poster: *Tyrosinase Interacts With ERp57 During Its Maturation* – [A. Hillebrand](#); N.Nichita-Brânză; J.Ciopraga; S.Petrescu
24. Edinburgh (UK), 1998: The 7<sup>th</sup> International Congress of Plant Pathology  
Bucharest (Romania), 1998: The 1<sup>st</sup> Interantional Conference of the Romanian Society of Biochemistry and Molecular Biology  
Poster: *Mechanism Of Potato Tuber Defense Induced By Fusarium Oxisporum Lipids* – O.Gozia; J.Ciopraga; [A. Hillebrand](#); R.Tudor; F.Nițu; M.Lungu; L.Brezuică
25. Bucharest (Romania), 1997: Romanian – British Workshop: *Perspectives in Glycobiology*  
Poster: *In Vitro Studies Of Peroxidases Involvement In Potato Tuber Defense* – [A. Hillebrand](#); L.Brezuică; O.Gozia
26. Bucharest (Romania), 1995: The 7<sup>th</sup> International Conference of Immunology  
Poster: *Immunomodulatory Properties Of A Bacterial Extract – Cantastim* – A. Sălăgeanu; [A. Hillebrand](#); G.Szegli

#### - NATIONAL CONFERENCES & MEETINGS

1. Bucharest, Romania, 2010: Annual Scientific Session of the Institute of Biology of the Romanian Academy  
Poster: *Diversitatea Microorganismelor În Stratul De Gheață Izolat Din Ghețarul Scărișoara (Microorganisms Diversity In Ice Layers Isolated From Scărișoara Glacier)* – A. Rusu, R. Filimon, E. Popa, [A. Hillebrand](#), A. Perșoiu, B. P. Onac, C. Purcărea
2. Bucharest, Romania, 2008: : Annual Scientific Session of the E. Racoviță Institute of Speleology  
Lecture: *Molecular Techniques used in the study of underground ecosystems* – [A. Hillebrand](#), A. Dragu
3. Călimănești - Căciulata, Romania, 2008: The 30<sup>th</sup> National Conference of Chemistry  
Poster: *Study on Some Pollutants Transfer in Karstic Environment* – A. Tudorache, C. Marin, [A. Hillebrand](#), V. Drăgușin
4. Sinaia, Romania, 2008: Workshop interdisciplinar: *Karstic Elements Vulnerability in Natural Protected Areas*  
Lecture: *Quo Vadis Mehedinți Plateau Geopark? -* [A. Hillebrand](#), C. Lascu, V. Drăgușin, E. Isverceanu;
5. Sinaia, Romania, 2008: Interdisciplinary Workshop: *Karstic Elements Vulnerability in Natural Protected Areas*  
Poster: *Characterisation of Karstic Aquifers' Pollutants Behaviour* - A.Tudorache, C.Marin, [A.Hillebrand](#), V. Drăgușin, I. Povară
6. Bucharest, Romania, 2008: Workshop: *Extremophilic Microorganisms: Molecular Adaptations And Bionanotechnological Applications*  
Lecture: *The Caves, Peculiar Habitats For Microorganisms -* [A. Hillebrand](#)
7. Bucharest, Romania, 2007: Advanced course: *Adaptation to stress: survival condition and/or biodiversity factor*  
Lecture: *The caves and the organisms' adaptations to their peculiar environmental conditions* – [A. Hillebrand](#)
8. Bucharest, Romania, 2006: *85 Years of the Emil Racoviță Institute of Speleology Foundation*  
Lecture: *Management Plan of Limanu Cave Natural Protected Area* – [A. Hillebrand](#)
9. Bucharest, Romania, 2003: Annual meeting of the Romanian Society of Biochemistry and Molecular Biology  
Poster: *In Vitro And In Vivo Study Of PDIs From B16-F1 Melanoma Cells* – J.Ciopraga, [A. Hillebrand](#)
10. Bucharest (Romania), 2002: Annual meeting of the Romanian Society of Biochemistry and Molecular Biology  
Poster: *Thiol Oxidoreductase From Mouse Melanoma Cells* – J.Ciopraga, [A. Hillebrand](#), L. Matei
11. Bucharest (Romania), 2000: Annual meeting of the Romanian Society of Biochemistry and Molecular Biology  
Poster: *ERp57 Cooperation With Chaperon Molecules During Tyrosinase Folding* – [A. Hillebrand](#); N.Nichita-Brânză;

J.Ciopraga; S.Petrescu

12. Bucharest (Romania), 2000: Minisymposium on techniques used in biochemistry and molecular biology  
Lecture: *In Vitro Protein Ligation As A Method For Studying Intramolecular Interactions* – [A.Hillebrand](#)
13. Bucharest (Romania), 2000: Minisymposium on techniques used in biochemistry and molecular biology  
Lecture: *Western, Southern & Northern Blot Techniques In Biochemistry And Molecular Biology* – [A.Hillebrand](#)

#### Annex 4

##### PROFESSIONAL SOCIETIES

2014 – 2018	COST TD1308: <i>Origins and Evolution of Life on Earth and in the Universe (ORIGINS)</i> - member of the Management Committee
2011 – present	Society of General Microbiology
1998 – present	Romanian Society of Biochemistry and Molecular Biology (RSBMB) - 2003, 2004: secretary of RSBMS
1998 – present	Romanian Federation of Speleology

#### Annex 5

##### EDITORIAL BOARDS

2014 – present	<i>Romanian Journal of Clinical and Experimental Dermatology (ROJCED)</i> ISSN 2392-7461 and ISSN-L 2392-7461
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#### Annex 6

##### COURSES ON ENVIRONMENT PROTECTION

- 2007, Constanța, Romania: *Managing NATURA 2000 sites* - TAIEX Workshop
- 2004, Bucharest, Romania: *Role of environment NGO to support Natura2000 network implementation in Romania* - course organised by RSF<sup>6</sup>, ROS<sup>7</sup>, UNESCO Pro-Natura<sup>8</sup>, WWF, Natura 2000 Romania
- 2002, Jupânești, Romania: *Course for Protected Areas Custodians* - organised by Green Cross Romania in the frame of the project LIFE2000Nat/RO/7187 REV *Bats Protection and Conservation of their Underground Habitats in SW Carpathians*

#### Annex 7

##### GRANTS AND PROJECTS ON ENVIRONMENT PROTECTION

###### - COLLABORATOR:

- 2001 – 2004: *Bats Protection and Conservation of their Underground Habitats from Meridional Carpathians* (LIFE2000Nat/RO/7187 REV)  
Director: GESS  
Financed by the European Community
- 2003 *A Life Buoy for the Sea* (RER/01/G33: BSERP/SGP/ ROM2)  
Director: dr. Florian Baciu, GESS  
Financed by the European Community
- 1997 *Sustainable Development of Mangalia Touristic Region*  
Director: Cătălin Ghiță, GESS  
Financed by the Soros Open Society

<sup>6</sup> RSF = Romanian Federation of Speleology

<sup>7</sup> ROS = Romanian Ornithological Society;

<sup>8</sup> UNESCO-ProNatura = Romanian environmental NGO