



**Europass**  
Curriculum Vitae

**Personal information**

First name / Surname **Daniela Mariana CIORBA**  
Address Seceratorilor 4 street, Cluj-Napoca, Romania  
Telephone +40-264-307030  
E-mail daniela.ciorba@ubbcluj.ro  
  
Nationality Romanian  
  
Date of birth February 17, 1969

**Work experience**

Dates *Mars 2004 → present (until September 2012)*  
Occupation or position held Lecturer  
Main activities and responsibilities Teaching and research focused on environmental exposure toxicity using in vitro-in vivo exposure models  
Name and address of employer Babeş-Bolyai University Cluj-Napoca, Faculty of Environmental Science and Engineering, Dept. of Environmental Science, 30 Fantanele street, 400294, Cluj-Napoca, Romania  
  
Type of business or sector Public University  
  
Dates *04-15 September 2014*  
Occupation or position held  
Main activities and responsibilities Postdoctoral position teaching mobility in Salzburg University, Science Faculty, Division of Physics and Biophysics  
Collaboration in field of Biological Dosimetry with Department of Physics and Biophysics from Salzburg University- interest looking to the skin radiosensitivity following the radioactive thermal water exposure. Assessing the deterministic effects at skin surface after the deposition/absorption/ penetration of Radon and its decay, based on noninvasive alternative methods.  
Name and address of employer Salzburg University, Cod Erasmus (A SALZBURG01)/Science Faculty (Division of Physics and Biophysics), Austria  
Type of business or sector Public University  
  
Dates *10-15 September 2011*  
Occupation or position held Postdoctoral position teaching mobility in Salzburg University, Science Faculty, Division of Physics and Biophysics

Main activities and responsibilities	To compare the results obtained until now using the in vitro irradiation system from Biophysics Laboratory of Environmental Science and Engineering (ESEF) with that obtained using the irradiation set up from Institute of Biophysics, Salzburg University To improve the experimental methods used currently in biodosimetry laboratory of ESEF To improve the teaching experience through increasing of personal standards: high efficiency and integrity
Name and address of employer	Salzburg University, Cod Erasmus (A SALZBURG01)/Science Faculty (Division of Physics and Biophysics), Austria Public University
Type of business or sector	
Dates	<i>June 2006 - August 2006</i>
Occupation or position held	Invited Researcher
Main activities and responsibilities	Study of individual sensitivities post irradiation in breast cancer patients based on chromosomes aberrations quantification
Name and address of employer	Institute of Molecular Radiation Biology, GSF - National Research Centre for Environment and Health, Munchen, Germany
Type of business or sector	Bavarian Health Research Institute
Dates	<i>Mars 1993 – February 2004</i>
Occupation or position held	Biochemist graduate of Health Ministry,
Main activities and responsibilities	BioDosimetry: Cells of human blood, ions and metabolites concentration in human blood, enzymes activity, proteins and lipids of human blood serum.
Name and address of employer	Diagnosis and Treatment Centrum, Cluj-Napoca
Type of business or sector	Public Health Institute
<b>Education and training</b>	
Principal subjects/occupational skills covered	<i>October 1989 - June 1992</i> <b>Bachelor degree</b> Chemistry and physique
Name and type of organization providing education and training	Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering
Dates	<i>March 1994 – December 2000</i>
Title of qualification awarded	<b>Doctoral degree in Biophysics</b>
Principal subjects/occupational skills covered	Interaction of Electromagnetic Fields with Life Systems
Name and type of organization providing education and training	Babeş-Bolyai University, Faculty of Physics

Dates	<i>March 1994</i>
Title of qualification awarded	<b>Postgraduate Specialization in Field of Clinical Chemistry</b>
Name and type of organization providing education and training	Medicine and Pharmacy University, Cluj
Dates	<i>April 2008</i>
Title of qualification awarded	<b>Post-doctoral training</b>
Principal subjects/occupational skills covered	Health Risk Assessment I: Principles and Applications
Name and type of organization providing education and training	Karolinska Institute, Sweden, RA-COURSES MARIE CURIE actions in Stockholm, in collaboration with CASCADE Network of Excellence for Research and the Postgraduate Programme Environmental Factors and Health
Dates	<i>June 2009</i>
Title of qualification awarded	<b>Post specialization in field of Clinical Chemistry</b>
Principal subjects/occupational skills covered	The Laboratory Para Clinical Medical Services offered Ambulatory, Authorizing, Evaluation, and In the Contractual Relation with Health Assurance Authorities,
Name and type of organization providing education and training	Iuliu Hatieganu Medicine and Pharmacy University, Cluj-Napoca
Dates	<i>June 2009</i>
Title of qualification awarded	<b>Post-doctoral training</b>
Principal subjects/occupational skills covered	Toxicology I Cours
Name and type of organization providing education and training	Karolinska Institute, Sweden, RA-COURSES MARIE CURIE actions in Stockholm, in collaboration with CASCADE Network of Excellence for Research and the Postgraduate Programme Environmental Factors and Health
Dates	<i>June 2010</i>
Title of qualification awarded	<b>Post-doctoral training</b>
Principal subjects/occupational skills covered	Training courses in Health Risk Assessment II: Challenges in Risk Assessment, Karolinska Institute, Sweden, RA-COURSES MARIE CURIE actions in Stockholm, in collaboration with CASCADE Network of Excellence for Research and the Postgraduate Program Environmental Factors and Health.
Name and type of organization providing education and training	
Dates	<i>Mars 2011</i>
Title of qualification awarded	<b>Post-doctoral training</b>
Principal subjects/occupational skills covered	Training course in Health Risk Assessment,
Name and type of organization providing education and training	IRAS, Utrecht, The Netherlands, Risk ASSETs, Foundation course,

subjects/occupational skills covered  
 Name and type of organization providing education and training  
 Dates  
 Title of qualification awarded  
 Principal subjects/occupational skills covered  
 Name and type of organization providing education and training  
 Dates  
 Title of qualification awarded  
 Principal subjects/occupational skills covered  
 Name and type of organization providing education and training  
 Level in national or international classification

*April 2011*  
**Post-doctoral training**  
 Training course in Radiation Epidemiology and Radioecology,  
 Institute of Radiation Biology Helmholtz Centrum Munchen, DoReMi European Network of Excellence

*April 2012*  
**Post-doctoral training**  
 Training course in Interdisciplinary Radiation Research Focussing on Low Doses  
 German Federal Office for Radiation Protection (BfS) Munchen, DoReMi European Network of Excellence  
 Level 6 - Second stage of tertiary education

*May 2013*  
**Post-doctoral training**  
 Course TIETO: Non cancer effect  
 Institute of Radiation Biology Helmholtz Centrum Munchen, DoReMi European Network of Excellence  
 Level 6-Second stage of tertiary education

**Personal skills and competences**

Mother tongue(s) **Romanian**

Other language(s) self-assessment  
*European level (\*)*

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production		Written production	
<b>English</b>	C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user
<b>French</b>	B1 Basic user	B2 Independent user	A2 Basic user	A2 Basic user	A1 Basic user	A1 Basic user	A2 Basic user	A2 Basic user	A2 Basic user

(\*) [Common European Framework of Reference for Languages](#)

Organizational skills and competences  
 Experienced in quasi-independent organizing of research activity  
 An strong initiative in developing work tools and increasing efficiency and quality of work, such as: creating an electronic patient data base; developing the documentation for the quality-control system in the lab, etc.

Technical skills and competences  
 Use of lab and office equipment

Social skills and competencies  
 Used to working in multidisciplinary teams, with a significant component of independent activity  
 Great adaptability to new social environments and work demands; experience of working abroad  
 Highly developed spoken and written communication abilities, gathered through teaching, writing and editing papers, projects, reports, etc., and also due to the work in the commercial field

Computer skills and competences  
 Microsoft Office  
 Statistics  
 Various dedicated software

**Additional information****Research Grants**

1. CEREXCONS, CEEEX, INCERC Bucharest, 2005 / The alignment of the structure and the experimental research objectives to the internal market demand as well as that commene European for construction.
2. PROECO, CEEEX, INCERC Bucharest, 2005 / Ecological projection, a new approach at European level of reutilising the buildings made from Ferro-concrete.
3. VAMNA-AGM, Project CEEEX-Manner Nr.749/2006 / The absolute age by nuclear methods with application in archaeology, geology, and environment.
4. SANBIMED-CEEEX-CERES-2, CEX 06-10-78/2006, Biomedical and environmental researches using nuclear and atomic methods.
5. RADROM, Project Manner 747/2006 / National filing studies about Radon, for population protection, in accord with international and U.E. legislation.
6. METEX, 31034/2007 / The experimental methods conventional and no conventional, for determination of material performance levels in elements and buildings structures
7. PROMED31052/2007 / Research fields for establishing the particular and global solutions for impact reduction, consolidation and post consolidation of buildings upon natural environment
8. 81023/14.09 2007 / Dangerous Substances Detection and Identify by Ionic Mobility Spectrometry coupled with Mass Spectrometry
9. 2007 / Environmental & Progress Conference Coordinator, Financed Project by National Authorities for Scientific Research
10. SERTIR, PN II 32149/2008 / Radon exposure- Experimental and Clinical Studies in some districts from Transylvania, and impact studies upon respiratory apparatus morphologies, in animals and humans.
11. LODRAHL, Bilateral Project Romania Austria, 2012-2014, Low Dose Risk Assessment For High Let Radiation

**Scientific activity**

Rewiever - Bioelectromagnetics Journal, ISI 2,7

Member in organizing committee of different scientific events:

Environment & Progress, vol III/2005, EFES, ISSN: 158-6733, Cod CNCSIS – 697/2006,  
Environment & Progress, vol XI/2007, EFES, ISSN: 158-6733, Cod CNCSIS – 697/2006,  
EcoTerra, vol 25, 2010, ISSN 1584-7071  
EcoTerra, vol 26, 2011, ISSN 1584-7071

**Affiliations**

Member of Romanian Biophysics Society  
Member of Romanian Clinical Chemistry Society  
Member of Romanian Radiation Protection Association

**Annexes****List of published papers****I. Books**

Daniela Ciorba, Ozunu Al., Environment and Progress, vol. XI, ISSN 1584-6733, Cod CNCSIS – 697/2006, 2007.

Daniela Ciorba, Biofizica Mediului (Environmental Biophysics), ISBN 978-973-7677-96-9, EFES, 2008.

Daniela Ciorba, Interacțiunea Câmpurilor Electromagnetice cu Sistemele Vii (Electromagnetic Field Interaction with Life Systems), ISBN 978-606-526-021-4, EFES, 2009.

Liviu Suci, Daniela Ciorba, Constantin Cosma, Environment and Progress, vol. 14, ISSN 1584-6733, Cod CNCSIS – 697, 2010.

**II. Papers published in ISI journals**

Morariu, V.V., **Ciorba, D.**, Neamțu, S., 1999, Life in zero magnetic field part II. *In vitro* human blood aging, Electro and Magnetobiology, 19(3), 289-302 (2000). ). ISI – 2.7

**Ciorba, D.**, Morariu, V.V., 2000, Life in zero magnetic field part IV. Enzymatic activity of aspartat aminotransferaze and alanin aminotransferaze during *in vitro* ageing of human blood, Electro and Magnetobiology, 20(3), 313-321 (2001). ISI – 2.7

V. Cosma, **D. Ciorba**, C. Cosma, The Use of Bluetooth Technology in Multiple Monitoring of Vital Signs-ECG and Pulse, Medical Physics, 32, 6, 1970, (2005). Impact Factor - 0.667

C. Cosma, A. Timar, V. Benea, I. Pop, T. Jurcuț, **D. Ciorba**, Using natural luminescent materials and highly sensitive sintered dosimeters MCP-N (LiF:Mg,Cu,P) in radiation dosimetry, Journal of Optoelectronics and Advanced Materials Vol. 10, No. 3, March p. 573 – 577, (2008).

Impact Factor 0.577.

Cosma C., Szacscai k., Dinu A., **Ciorba D.**, Suci I., Preliminary integrated indoor radon measurements in Transilvana (Romania), *Isotopes in Environmental and Health Studies*; 45 (2): 1–10 (2009) Impact Factor 1.016

C. Cosma, **D. Ciorba**, A. Timar, K. Szacsvai, A. Dinu, Radon Exposure and Lung Cancer Risk in Romania, ISSN 1311-5065, *Journal of Environmental Protection and Ecology*, (2009). Impact Factor 0.333

**Ciorba D.**, Morariu V., Cosma C., Neamtu S., Cuceu C., Quantification of DNA damage in human lymphocytes by comet assay, during in vitro ageing in the presence of Radon, *Romanian Journal of Biophysics*, vol. 20. No. 2, P.137-148, (2010).

**Ciorba D.**, Truta A., Cytotoxic Exposure of Green Algae *Chlamydomonas Peterfii* Gerloff in Radon Aerosols *Romanian Journal of Physics*, Volume 58, Number Suppl, 2013, Thomson ISI-JCR 2011: 0,414.

**Ciorba D.**, Moldovan M., Tataru Al., Avram A., Almasi A., Influence of Environmental Chloroform Concentrations on Biophysics Skin Parameters, *Farmacia*, Vol 63, (2), 313-317, 2015. ISSN: 0014-8237, ISI Thomson 1,251.

### III. Poster and Oral Communications:

#### Article, (BDI-index, CNCSIS):

The effect of low doses of radioactivity upon the in vitro ageing of lymphocytes from human blood, **Ciorba D.**, Cosma C., “ *Low doses of radiation- concepts, effects and health risk*”, IRPA Timișoara, p.56-58, 2005.

SKY Painting-one of the most new Fish Technologies suitable for study of chromosomal marker exposure in ionising radiation, **Ciorba D.**, Zitzelsberger H., “ *Low doses of radiation- concepts, effects and health risk*”, IRPA Cluj-Napoca, p.85, 2006.

Assessing of Past Exposure to Ionizing Radiation by Quantification of Chromosomal Aberrations, **Ciorba D.**, Cosma C., “ *Low doses of radiation- concepts, effects and health risk*”, IRPA Brasov, p39-40, 2007.

Lung cancer risk and residential radon exposure in Romania, Cosma C., Dinu A., Szacsvai K., **Ciorba D.**, Gurzău E., *Central European Journal of Occupational and Environmental Medicine*, Argumentum Publishing and Printing House (Budapest), Hu ISSN 1219-1221, p.19, 14 (1), 2008.

Environmental Electromagnetic field, Human Health and Threshold Exposure Levels, **Ciorba D.**, Morariu V.V., Cosma C., Marcu D., 2008, *Central European Journal of Occupational and Environmental Medicine*, Argumentum Publishing and Printing House (Budapest), Hu ISSN 1219-1221, p.22, 14 (1), 2008.

**Ciorba D.**, Garbo C., Cuceu C., Cosma C., Life Cycle of unicell *Chlamydomonas* in Different Radon Aerosols Concentrations, 14th International Congress of Radiation Research, ICRP Publication, poster, Warsaw, Poland, send for publication in 28 August, 2011.

**Ciorba D.**, Loghin F., *Chlamydomonas* System As A New Very Usefull Biotoool In Radiation Protection, Abstracts Book of the 2nd International Proteomics Workshop, P.17, pag 48, GSF-Munche, (2013).

**Ciorba D.**, Tataru A., Moldovan M., Screening test of individual sensitivity to environmental chloroform concentrations - the 1<sup>st</sup> INTERNATIONAL U.O.C. – B.EN.A. conference „The sustainability of pharmaceutical, medical and ecological education and research – SPHAMEER - 2013”, under section Public Health and Environmental Medicine - Food safety -Ovidius University Annals of Medical Sciences – Pharmacy, Ovidius University Press, ISSN 1583-896x (see <http://sphameer2013.univ-ovidius.ro/publication/>), (2013).

**Ciorba D.**, Moldovan M., Moldovan M., Thermal Water and Radon Exposure Through the Skin, SEERAS Niss, Book of Abstracts, p 65, <http://rad2014.elfak.rs/papers.php>, (2014).

**Ciorba D.**, Tataru A., Pipas C., Reti K., Decreased the incidence of skin cancer with distance to the main roads in Cluj-Napoca, between 2007 and 2010, Abstract Book, p.110, CEECHE Cluj-Napoca, (2014).

#### Article, (peer-reviewed):

Gamma Radiation and the Life, **Ciorba D.**, *Eco Terra Rev.*, Journal of Environmental Research and Protection, ISSN 1584-7071, Nr.1-2, Cluj-Napoca, 2004.

Breast Cancer - Radiation & Environment, **Ciorba D.**, *Eco Terra Rev.*, Journal of Environmental Research and Protection, ISSN 1584-7071, Nr.3-4, Cluj-Napoca, 2004.

The alpha immunotherapy a successful solution in cancer treatment, **Ciorba D.**, Cosma C., 2005, *Studia Physica*, ISSN: 0258-8730, 2005.

The influence of the magnetic environment on terrestrial life, Morariu, V., **Ciorba D.**, Neamtu S., *Environment and Progress*, 3/2005 -p.239-243, *Carpatica*, ISSN 1584-6733, 2005.

Electrical field influence upon the health of dislipidemia subjects, **Ciorba D.**, Boboș, L.,

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Puşcaş, P., Tahîş, F., Environment and Progress, 3/2005 - p.75-79, Carpatica, ISSN 1584-6733, 2005.

Low doses of gamma radiation's effect on leucocytes, **Ciorba D.**, Cosma C., Environment and Progress, 3/2005, p. 79-85, Carpatica, ISSN 1584-6733, 2005.

RADONUL, a risk factor in lung cancer incidence, **Ciorba D.**, Cosma C., Environment & Progress, 4/2005, p. 105-109, EFES, ISBN 973-8254-77-9, 2005.

Very low electromagnetic field and its effect at cellular level, **Ciorba D.**, Morariu V., Ristoiu D., Cosma C., Environment & Progress, 5/2005, p. 95-100, ISSN 1584-6733, EFES, 2005.

The bystander effect- a new paradigm for radiation biology, **Ciorba D.**, Cosma C., Environment & Progress, 6/2006, p. 58-62, ISSN 1584-6733, EFES, 2006.

The Environment and Cancer, **Ciorba D.**, Cosma V., Morariu V., Ristoiu D., Cosma C., Environment & Progress, 8/2006, p. 73-77, ISSN 1584-6733, EFES, 2006.

Leukaemia and exposure to non ionizing radiation of very low electromagnetic field from environment, **Ciorba D.**, Morariu V., Cosma C., Environment & Progress, 9/2007, p. 119-125, EFES, ISSN 1584-6733, Cod CNCSIS – 697/2006.

Acute exposure to Radon by in vitro ageing of human blood like biokinetic model, **Ciorba D.**, Cosma C., Environment & Progress, 9/2007, p. 119-125, EFES, ISSN 1584-6733, Cod CNCSIS – 697/2006, 2006.

Molecular analysis of in vitro induced effects on Brumariu leafs by low doses irradiation, **Ciorba D.**, Keul A., Marcu D., Coste A., Environment & Progress, 11/2007, p. 102-107, EFES, ISSN 1584-6733, Cod CNCSIS – 697/2006, 2007.

Ageing of Lymphocytes Culture in ZMF – Study of chromosomes aberrations induction, **Ciorba D.**, Morariu V.V., Militaru M., Cosma C., Environment & Progress, 11/2007, p. 97-107, EFES, ISSN 1584-6733, Cod CNCSIS – 697/2006, 2007.

Unele aspecte ale poluării fonice urbane din Cluj-Napoca, Horvath Z., **Ciorba D.**, Brisan N., Moldovan M., Begy R., Environment & Progress, 26-28 oct. 2007.

Indoor radon and lung cancer risk in Romania, C. Cosma, K. Szacsvai, A. Dinu, **D. Ciorba**, Studia Universitatis Babes-Bolyai, Geologia, 52, 1, p. 10-11, 2007.

Integrated Indoor Radon Measurements in Transylvania (Romania), C. Cosma, K. Szacsvai, Dinu A., **D. Ciorba**, Proceedings of ESIR 2007, p. 23-28, 2007.

Radon exposure and lung cancer risk in Romania, C. Cosma, **D. Ciorba**, Dinu A., Proceedings of B.EN.A-ICAI, 18-20 iulie 2007, Alba Iulia, 2007.

The risk characterization for carcinoma and melanoma malignant skin cancer in relation with heavy metal exposure in Baia Mare town, **Ciorba D.**, I. Haiduc, D. Marcu, C. Roba, C. Cosma, Buletinul Universității Transilvania Braşov, p.77-79, ISBN 978-973-598-324-6, 2008.

Sensitivity, Genetic Susceptibility, Health Risk and Relationship with Environmental Exposure, **Ciorba D.**, Cosma C., Marcu D., Roba C., Environment & Progress, 12/2008, p. 107-113, EFES, ISSN: 158-6733, Cod CNCSIS – 697/2006, 2008.

Evaluarea expunerii ambientale la un câmp electromagnetic de 50 Hz, **Ciorba D.**, Cosma C., Santo C., Marcu D., Csabo F., Environment & Progress, 12/2008, p. 101-107, EFES, ISSN: 158-6733, Cod CNCSIS – 697/2006, 2008.

Epidemiology and Surveillance for Related Frequency of Electromagnetic Fields: Low Frequency, Intermediate Frequency, Radio Frequency, **Ciorba D.**, Cosma C., Marcu D., Onca A.M., 2008, Environment & Progress, 13/2008, p 90/366-94/366, EFES, ISBN: 973-8254-77-9; Cod CNCSIS – 697/2006, 2008.

Daily Variation of Radon concentration from atmosphere, inside of a building with 4 floor from Zorilor district, Moldovan M., **Ciorba D.**, Cosma C., Marcu D., 2008, Environment & Progress, 13/2008, p.248/366 – 250/366, EFES, ISBN: 973-8254-77-9, Cod CNCSIS – 697/2006, 2008.

Zero Magnetic Field versus Radon Exposure Studies upon Ca, Mg concentrations when human blood ageing in vitro, **D.Ciorba**, Morariu V.V, Cosma C., Romanian Journal of Biophysics, p. 46, 2009

Difference in human sensitivity starting with zero magnetic field, **Ciorba D.**, Morariu V.V., Cosma C., 2009, Ambientum, vol II, p.27-35, ISSN 1843-3855, 2009.

Quantification of DNA Damage in human lymphocytes by Comet Assay, during aging in vitro in presence of Radon, **D. Ciorba**, V. Morariu, C. Cosma, C. Cuceu, Romanian Journal of Biophysics, vol. 20. No. 2, P.137-148, (2010).

Expunerea la Radonul Rezidential si Riscul de Cancer Pulmonar in Transilvania, Cosma C., Dinu A., Popa A., Szacsvai K., **Ciorba D.**, Suciuc L., Grigore V., Environment & Progress, vol XIV, p.45-55, EFES, ISBN: 973-8254-77-9, Cod CNCSIS – 697/2006, 2010.

Chloroform, environmental exposure and exposure toxicity, (Expunerea ambientală la chloroform și toxicitatea de expunere), **Ciorba D.**, Almași A., Kovacs M., Ristoiu D., Eco Terra Rev., Journal of Environmental Research and Protection, ISSN 1584-7071, (8)26, 33-38, 2011.

Aplicabilitatea Sistemului Biofizic Chlamydomonas Peterfii Gerloff In Analiza Expunerii, Garbo C., (Chlamydomonas Peterfii Gerloff as biophysical system and its applicability in exposure analysis), **Ciorba D.**, Environment & Progress, vol XV, 54-57 , EFES, ISBN: 973-8254-77-9, Cod CNCSIS – 697/2006, 2011.

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	<p>Radon System of Irradiation In Vitro- RADOSIV 2, Ambientum, <b>Ciorba D.</b>, Moldovan M., vol III, ISSN 1843-3855, 2011.</p> <p>Perturbatorii endocrini si expunerea din mediu, (Endocrine disrupted compound and environmental exposure), <b>Ciorba .</b>, Armencea A., Gifu G., David P.,Mihai F., Journal of Environmental Research and Protection, Nr. 29, pp 13-16, ISSN 1584-7071, 2011.</p> <p>Italian Foreign Direct Investments In Environment or Related Fields, Case Study: Cluj County, Rusu I., <b>Ciorba D.</b>, Journal of Environmental Research and Protection, 10(36), 41-46, 2013.</p> <p>The advantage of UV Irradiation of Environmental Samples in conjunction with ecotoxicity studies, <b>Ciorba D.</b>, Cioica R., Journal of Environmental Research and Protection (ISSN printed 1584-7071, ISSN on line 2248-3128), 11(3), 1-4, 2014.</p>