



# **ROMANIA**

## **Confidence Building Measure Return (covering data for 2012)**

**Convention on the Prohibition of the Development,  
Production and Stockpiling of Bacteriological  
(Biological) and Toxin Weapons and on their  
Destruction, 10 April 1972**

**Declaration form on Nothing to Declare or Nothing New to Declare for use in the information exchange**

Measure	Nothing to declare	Nothing new to declare	Year of last declaration if nothing new to declare
A, part 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A, part 2 (i)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A, part 2 (ii)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A, part 2 (iii)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
G	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(Please mark the appropriate box(es) for each measure with a tick, and fill in the year of last declaration in the last column where applicable.)

Date: **12 April 2013**

State Party to the Convention: **ROMANIA**

Date of ratification/accession to the Convention: **25 July 1979**

National point of contact: **OSCE, Asymmetrical Risks and Non-Proliferation Directorate**

**Ministry of Foreign Affairs**

**Tel: +40 21 431 1262, Fax: +40 21 319 2367**

**E-mail: don@mae.ro**

## **Active promotion of contacts**

The Third Review Conference agreed that States parties continue to implement the following:

"Active promotion of contacts between scientists, other experts and facilities engaged in biological research directly related to the Convention, including exchanges and visits for joint research on a mutually agreed basis."

In order to actively promote professional contacts between scientists, joint research projects and other activities aimed at preventing or reducing the occurrence of ambiguities, doubts and suspicions and at improving international cooperation in the field of peaceful bacteriological (biological) activities, the Seventh Review Conference encouraged States parties to share forward looking information, to the extent possible,

- on planned international conferences, seminars, symposia and similar events dealing with biological research directly related to the Convention, and
- on other opportunities for exchange of scientists, joint research or other measures to promote contacts between scientists engaged in biological research directly related to the Convention,

including through the Implementation Support Unit (ISU) within the United Nations Office for Disarmament Affairs.

# Confidence-Building Measure "A"

## Part 1 Exchange of data on research centres and laboratories

At the Third Review Conference it was agreed that States Parties continue to implement the following:

"Exchange of data, including name, location, scope and general description of activities, on research centres and laboratories that meet very high national or international safety standards established for handling, for permitted purposes, biological materials that pose a high individual and community risk or specialize in permitted biological activities directly related to the Convention."

### Modalities

The Third Review Conference agreed on the following, later amended by the Seventh Review Conference:

Data should be provided by States Parties on each facility, within their territory or under their jurisdiction or control anywhere, which has any maximum containment laboratories meeting those criteria for such maximum containment laboratories as specified in the latest edition of the WHO<sup>1</sup> Laboratory Biosafety Manual and/or OIE<sup>2</sup> Terrestrial Manual or other equivalent guidelines adopted by relevant international organisations, such as those designated as biosafety level 4 (BL4, BSL4 or P4) or equivalent standards.

States Parties that do not possess a facility meeting criteria for such maximum containment should continue to Form A, part 1 (ii).

### Form A, part 1 (i)

*Exchange of data on research centres and laboratories<sup>3</sup>*

1. Name(s) of facility<sup>4</sup> **Nothing to report**
2. Responsible public or private organization or company \_\_\_\_\_  
\_\_\_\_\_
3. Location and postal address \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
4. Source(s) of financing of the reported activity, including indication if the activity is wholly or partly financed by the Ministry of Defence  
\_\_\_\_\_

<sup>1</sup> World Health Organization

<sup>2</sup> World Organization for Animal Health

<sup>3</sup> The containment units which are fixed patient treatment modules, integrated with laboratories, should be identified separately.

<sup>4</sup> For facilities with maximum containment units participating in the national biological defence research and development programme, please fill in name of facility and mark "Declared in accordance with Form A, part 2 (iii)".

5. Number of maximum containment units<sup>5</sup> within the research centre and/or laboratory, with an indication of their respective size (m<sup>2</sup>)

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6. Scope and general description of activities, including type(s) of micro-organisms and/or toxins as appropriate

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### **Form A, part 1 (ii)**

If no BSL4 facility is declared in Form A, part 1 (i), indicate the highest biosafety level implemented in facilities handling biological agents<sup>6</sup> on a State Party's territory:

Biosafety level 3 <sup>7</sup>	<b>no (35 sqM – under construction)</b>
Biosafety level 2 <sup>8</sup> (if applicable)	<b>yes (52 sqM)</b>

Any additional relevant information as appropriate:

**The facility operating the BSL2 containment laboratory is the Military Medical Research Center, located in Bucharest, C. A. Rosetti street no. 37, District 2. The public institution responsible for the reported activity is the Ministry of National Defence, which finances it completely. For daily activities, the specialists work in the Level 2 laboratory.**

### **Form A, part 1 (ii)**

If no BSL4 facility is declared in Form A, part 1 (i), indicate the highest biosafety level implemented in facilities handling biological agents<sup>9</sup> on a State Party's territory:

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<sup>5</sup> In accordance with the latest edition of the WHO Laboratory Biosafety Manual, or equivalent.

<sup>6</sup> Microorganisms pathogenic to humans and/or animals

<sup>7</sup> In accordance with the latest edition of the WHO Laboratory Biosafety Manual and/or the OIE Terrestrial Manual or other equivalent internationally accepted guidelines.

<sup>8</sup> In accordance with the latest edition of the WHO Laboratory Biosafety Manual and/or the OIE Terrestrial Manual or other equivalent internationally accepted guidelines.

<sup>9</sup> Microorganisms pathogenic to humans and/or animals

Biosafety level 3	no
Biosafety level 2 (if applicable)	yes

Any additional relevant information as appropriate:

The facility operating BSL2 containment laboratories is the research department of the National Society “PASTEUR INSTITUTE” SA (Giulesti street no. 333, District 6, Postal Code 060269, Bucharest). The source of financing of the reported activity is the Ministry of Education, Research, Youth and Sport and the Pasteur Institute.

The research regards animal viruses, bacteria and parasites: epidemiological and pathological aspects, diagnosis methods, prophylactic / therapeutic bio/medical products (Trichinella spiralis / pseudospiralis / nativa / britovi, Escherichia coli, Mycoplasma spp., porcine circovirus 2, porcine respiratory and reproductive syndrome virus, herpes viruses – Marek, Aujeszky, canine parvovirus, porcine parvovirus, porcine adenovirus, avian rhinotracheitis virus, Ornithobacterium rhinotracheale, avian coronavirus), and to medicine residues in animals (LC-MS/MS methods).

The laboratories’ activities are organized in accordance to ISO 9001:2008 and for some of their methods to ISO 17025:2005 requirements.

#### Form A, part 1 (ii)

If no BSL4 facility is declared in Form A, part 1 (i), indicate the highest biosafety level implemented in facilities handling biological agents on a State Party’s territory:

Biosafety level 3	no
Biosafety level 2 (if applicable)	yes

National Institute of Research and Development for Microbiology and Immunology (NIRDMI) “Cantacuzino”, Bucharest operates several BSL2 containment laboratories (totalling 739.42 sqm) within the Department of Microbiology for Public Health (Viral Respiratory Infections Laboratory, Vaccination Preventable Diseases Laboratory, Vector Borne Diseases Laboratory, Sexually Transmitted Diseases Laboratory, Bacterial Enteric Infections Laboratory, Nosocomial Infections Laboratory, Anaerobical, Fungal and Parazitological Infections Laboratory) and the Department of Research and Development (Innate Immunity Laboratory, Biotechnological Development Laboratory, Cellular and Molecular Immunity, Experimental Microbiology). These laboratories are used for diagnostic and applied research; including test validation, test development and surveys. Primary objectives are to have a capability allowing Romania to:

- survey of human health status in relation with circulating pathogenic strains (microbiological surveillance) ;
- identification of strains of certain micro-organisms not usually found in this country.

INCDMI “Cantacuzino”, Bucharest has no operational BSL4 or BSL3 facilities (one BSL3 facility is currently under construction).

**Form A, part 1 (ii)**

If no BSL4 facility is declared in Form A, part 1 (i), indicate the highest biosafety level implemented in facilities handling biological agents on a State Party’s territory:

Biosafety level 3	no
Biosafety level 2 (if applicable)	yes

The Institute for Hygiene and Veterinary Public Health, located in Bucharest, Campul Mosilor street no. 5, postal code 021201, operates several BSL2 containment laboratories. Its source of financing comes only from the National Sanitary Veterinary and Food Safety Authority.

The Institute is the national reference laboratory in the field of animal origin products, food and animal feeding stuffs. Some of the main duties include activities of guidance, proficiency tests, technical co-ordination and control of the county Sanitary Veterinary Food Safety laboratories, sanitary veterinary expertise for animal origin foodstuffs, caring out of results confirmation for laboratory testing, participation in the development of guidelines, instructions and technical details in the field of food safety and participation in the assessment proceedings for the authorization of veterinary microbiology laboratory.

**Form A, part 1 (ii)**

If no BSL4 facility is declared in Form A, part 1 (i), indicate the highest biosafety level implemented in facilities handling biological agents on a State Party’s territory:

Biosafety level 3	no
Biosafety level 2 (if applicable)	yes

The Sanitary Veterinary and Food Safety Laboratory (LSVSA Bucharest), located in Bucharest, 16Y Iliora street, District 3, postal code 032125, operates a BSL2 Microbiological Laboratory (Salmonella spp, Campylobacter coli, Campylobacter

jejuni\_food and feed). Its source of financing comes only from the National Sanitary Veterinary and Food Safety Authority.

The responsible company is the Sanitary Veterinary and Food Safety Directorate Bucharest (DSVSA Bucharest).

## **Part 2 Exchange of information on national biological defence research and development programmes**

At the Third Review Conference it was agreed that States Parties are to implement the following:

In the interest of increasing the transparency of national research and development programmes on biological defence, the States Parties will declare whether or not they conduct such programmes. States Parties agreed to provide, annually, detailed information on their biological defence research and development programmes including summaries of the objectives and costs of effort performed by contractors and in other facilities. If no biological defence research and development programme is being conducted, a null report will be provided.

States Parties will make declarations in accordance with the attached forms, which require the following information:

- (1) The objective and summary of the research and development activities under way indicating whether work is conducted in the following areas: prophylaxis, studies on pathogenicity and virulence, diagnostic techniques, aerobiology, detection, treatment, toxinology, physical protection, decontamination and other related research;
- (2) Whether contractor or other non-defence facilities are utilized and the total funding provided to that portion of the programme;
- (3) The organizational structure of the programme and its reporting relationships; and
- (4) The following information concerning the defence and other governmental facilities in which the biological defence research and development programme is concentrated;
  - (a) location;
  - (b) the floor areas (sqM) of the facilities including that dedicated to each of BL2, BL3 and BL4 level laboratories;
  - (c) the total number of staff employed, including those contracted full time for more than six months;
  - (d) numbers of staff reported in (c) by the following categories: civilian, military, scientists, technicians, engineers, support and administrative staff;
  - (e) a list of the scientific disciplines of the scientific/engineering staff;
  - (f) the source and funding levels in the following three areas: research, development, and test and evaluation; and
  - (g) the policy regarding publication and a list of publicly-available papers and reports.



## **Form A, part 2 (i)**

### **National biological defence research and development programmes Declaration**

Are there any national programmes to conduct biological defence research and development within the territory of the State Party, under its jurisdiction or control anywhere? Activities of such programmes would include prophylaxis, studies on pathogenicity and virulence, diagnostic techniques, aerobiology, detection, treatment, toxinology, physical protection, decontamination and other related research.

**Yes**

If the answer is Yes, complete Form A, part 2 (ii) which will provide a description of each programme.

## **Form A, part 2 (ii)**

### **National biological defence research and development programmes**

#### **Description**

1. State the objectives and funding of each programme and summarize the principal research and development activities conducted in the programme. Areas to be addressed shall include: prophylaxis, studies on pathogenicity and virulence, diagnostic techniques, aerobiology, detection, treatment, toxinology, physical protection, decontamination and other related research.

- **prophylaxis: vaccinology;**
- **studies on pathogenicity and virulence: No;**
- **diagnostic techniques: PCR, ELISA, MS MALDI TOF, IF, HAI, MiniApi, microscopy etc.;**
- **aerobiology: No;**
- **detection: No;**
- **treatment: antibacterial resistance;**
- **toxinology: SEB, botulinum toxin, ricinotoxin, aflatoxin (diagnostic and identification);**
- **physical protection: No;**
- **decontamination: new substances for decontamination bio-chem;**
- **and other related research: antiterrorist exercise in field.**

**The objective of research was to find out new approaches, diagnostic methods, prophylaxis and treatment for troops protection against biological weapons.**

2. State the total funding for each programme and its source.

- **Total funding in 2012 - 12000 EURO;**
- **Source of funding - Ministry of National Defence.**

3. Are aspects of these programmes conducted under contract with industry, academic institutions, or in other non-defence facilities?

**No.**

4. If yes, what proportion of the total funds for each programme is expended in these contracted or other facilities?

5. Summarize the objectives and research areas of each programme performed by contractors and in other facilities with the funds identified under paragraph 4.

6. Provide a diagram of the organizational structure of each programme and the reporting relationships (include individual facilities participating in the programme).

7. Provide a declaration in accordance with Form A, part 2 (iii) for each facility, both governmental and non-governmental, which has a substantial proportion of its resources devoted to each national biological defence research and development programme, within the territory of the reporting State, or under its jurisdiction or control anywhere.

### **Form A, part 2 (iii)**

## **National biological defence research and development programmes**

### **Facilities**

Complete a form for each facility declared in accordance with paragraph 7 in Form A, part 2 (ii).

In shared facilities, provide the following information for the biological defence research and development portion only.

1. What is the name of the facility?  
**- Microbiological and epidemiological Branch/ Military Medical Research Center**
2. Where is it located (include both address and geographical location)?  
**- Military Medical Research Center- Bucharest, , C. A. Rosetti street no. 37, District 2 and external facility “Cernica Fort” Bucharest**
3. Floor area of laboratory areas by containment level: **BSL 2 - 52 sqM**  
Total laboratory floor area **52 sqM**
4. The organizational structure of each facility.
  - (i) Total number of personnel - **12**
  - (ii) Division of personnel:  
Military - **1**  
Civilian - **11**
  - (iii) Division of personnel by category:  
Scientists - **6**  
Engineers - **0**  
Technicians - **6**  
Administrative and support staff - **0**
  - (iv) List the scientific disciplines represented in the scientific/engineering staff.  
**- Microbiology**  
**- Epidemiology**  
**- Veterinary**
  - (v) Are contractor staff working in the facility? If so, provide an approximate number.  
**- Nothing to report**
  - (vi) What is (are) the source(s) of funding for the work conducted in the facility, including indication if activity is wholly or partly financed by the Ministry of Defence?

**- 100% Ministry of National Defence**

(vii) What are the funding levels for the following programme areas:

Research - **12000 EURO**

Development - **0**

Test and evaluation - **0**

(viii) Briefly describe the publication policy of the facility:

- **Unclassified**

(ix) Provide a list of publicly-available papers and reports resulting from the work published during the previous 12 months. (To include authors, titles and full references.)

1. **Ordeanu Viorel (coordinator), Bicheru Nicoleta Simona, Dumitrescu Victoria Gabriela, Ionescu Lucia Elena, Neculescu Marius, Ordeanu Viorel, Popescu Diana Mihaela, "Protectia medicala contra armelor biologice"/Medical Protection Against Biological Weapons (post-university learning manual) , ISBN:978-973-0-13973-0, Centrul de Cercetari Stiintifice Medico- Militare, Bucuresti, 2012, 420 pag.;**
2. **Ordeanu Viorel (coordinator), Bicheru Nicoleta Simona, Dumitrescu Victoria Gabriela, Ionescu Lucia Elena, Neculescu Marius, Ordeanu Viorel, Popescu Diana Mihaela, "Protectia medicala contra armelor biologice – vademecum / Medical Protection Against Biological Weapons ", ISBN:978-973-0-13782-8, Centrul de Cercetari Stiintifice Medico- Militare, Bucuresti, 2012, 38 pag.;**
3. **Serban Carmen, Mitrea Niculina, Ordeanu Viorel "Research on bacterial resistance to antibiotics, in suspicion of nosocomial infections, in major hospitals in Bucharest" Rev. Farmacia, vol.60, nr. 3, 2012, p.350-357 (ISSN 0014-8237, CNCSIS A, ISI)**
4. **Serban Carmen, Mitrea Niculina, Ordeanu Viorel "Statistical study on the bacterial sensibility tested in a sanitary microbiology laboratory" Rev. Farmacia, 2012, vol.60, nr. 5, p.652-661 (ISSN 0014-8237, CNCSIS A, ISI)**
5. **Bicheru Nicoleta Simona, Neculescu Marius, Dumitrescu Gabriela Victoria, Popescu Diana Mihaela, Ionescu Lucia Elena, Ordeanu Viorel "Epidemiologia infectiei cu virusul West Nile/ The Epidemiology of West Nile Infection " Rev.Rom.Med.Vet. vol. 23, nr. 2, 2012, p.49-56 (ISSN 1220-3173, CNCSIS B+);**
6. **Neculescu Marius, Bianca Cumpanasoiu, Ordeanu Viorel, Bicheru Nicoleta Simona, Popescu Diana Mihaela, Ionescu Lucia Elena, Dumitrescu Gabriela Victoria, E. Tirziu, "Modern method –MALDI-TOF MASS Spectrometry-used for the identification and characterization of biological agents from Brucella genus", Lucrari Stiintifice Medicina Veterinara, vol. XLV (2), p.35-43, (ISSN:-1221-5295)**
7. **Ordeanu Viorel, Neculescu Marius, Radut Cristian, Voicu Victor "Integrated platform for research and expertise for biological agents" PP133 Congress of the Balkan Military Medical Committee 17, Belgrade, Serbia, 29.05.-01.06.2012, vol. p.86**
8. **Voicu Victor, Ordeanu Viorel, Andries Adrian, Luta Nicolae, Barbulescu Emilia "Research for obtaining new biological decontaminated" PP134 Congress of the Balkan Military Medical Committee 17, Belgrade, Serbia, 29.05.-01.06.2012, vol. p.86**

5. Briefly describe the biological defence work carried out at the facility, including type(s) of micro-organisms<sup>10</sup> and/or toxins studied, as well as outdoor studies of biological aerosols.

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<sup>10</sup> Including viruses and prions.

## Confidence-Building Measure "C"

### Encouragement of publication of results and promotion of use of knowledge

At the Third Review Conference it was agreed that States parties continue to implement the following:

Encouragement of publication of results of biological research directly related to the Convention, in scientific journals generally available to States parties, as well as promotion of use for permitted purposes of knowledge gained in this research.

#### Modalities

The Third Review Conference agreed on the following:

1. It is recommended that basic research in biosciences, and particularly that directly related to the Convention should generally be unclassified and that applied research to the extent possible, without infringing on national and commercial interests, should also be unclassified.
2. States parties are encouraged to provide information on their policy as regards publication of results of biological research, indicating, *inter alia*, their policies as regards publication of results of research carried out in research centres and laboratories subject to exchange of information under item A and publication of research on outbreaks of diseases covered by item B, and to provide information on relevant scientific journals and other relevant scientific publications generally available to States parties.
3. The Third Review Conference discussed the question of cooperation and assistance as regards the safe handling of biological material covered by the Convention. It concluded that other international forums were engaged in this field and expressed its support for efforts aimed at enhancing such cooperation.

Romania encourages the publication of results of biological research directly related to the Convention, provided it is in compliance with good biosecurity practice.

#### NATIONAL INSTITUTE OF RESEARCH AND DEVELOPMENT FOR MICROBIOLOGY AND IMMUNOLOGY (NIRDMI) "CANTACUZINO"

##### • List of 2012 publications and/or research projects

1. "In vitro evaluation of the influence of compounds with tricyclic structure on the microbial growth and expression of virulence factors". Cristina Delcaru, Mariana Carmen Chifiriuc, Dracea Olguta, Carmen Iordache, Carmen Limban, George Mihai Nitulescu, Missir Alexandru Vasile, Ileana Cornelia Chirita, Carmellina Badiceanu, Coralia Bleotu, Robert Sakizlian and Anca Michaela Israil. African Journal of Pharmacy and Pharmacology Vol. 6(23), pp. 1631-1638, 22 June, 2012
2. "First Serologic Evidence for the Circulation of Crimean-Congo Hemorrhagic Fever Virus in Romania Vector-Borne and Zoonotic Diseases". Cornelia Svetlana Ceianu, Raluca Ioana Panculescu-Gatej, Daniel Coudrier, and Michele Bouloy. Mary Ann Liebert, Inc. September 2012, 12(9): 718-721. doi:10.1089/vbz.2011.0768.
3. "Rapid identification of international multidrug resistant *Pseudomonas aeruginosa* clones by multiple locus VNTR analysis (MLVA) and investigation of their susceptibility to lytic bacteriophages". Larché J, Pouillot F, Essoh C, Libisch B, Straut M, Lee JC, Soler C, Lamarca R, Gleize E, Gabard J, Vergnaud G, Pourcel C. Antimicrob Agents Chemother. 2012 Sep 17.

4. "Outbreak of West Nile virus infection in humans in Romania". Sîrbu A, Ceianu CS, Pănculescu-Gâtej RI, Vázquez A, Tenorio A, Rebreanu R, Niedrig M, Nicolescu G, Pistol A. *Eurosurveillance*, 16 (2): pii=19762. ISI Web of Knowledge® Thomson Reuters.

- **List of 2012 ongoing international research projects**

1. Biology and control of vector borne infections in Europe (FP7 EDENext).
2. A generic framework for FAST production and evaluation of emergency VACCines (DG SANCO/FASTVAC).
3. Development and Sustainable Manufacturing of Adjuvant Pandemic Influenza Vaccines in 4 Developing Countries (F16 SUB - 2010 BARDA 1 IDSE P 100008-01-00).
4. Combating flu in a combined action between the industry and the public sector in order to secure adequate and fast intervention in Europe (DG SANCO / FLUSECURE).

## **PASTEUR INSTITUTE**

- **Scientific meetings / Scientific communications / posters (2012)**

**Cismileanu Ana, Csuma Ana 2012:** Aspects of feed quality by assessing contaminants of various origins, Symposium organized by the Academy of Agricultural and Forestry Sciences „Achievements, priorities and perspectives in veterinary medicine”, Bucharest June 15th, 2012

**Popa Mirela, Petrof Miliana, Sorescu Ionut, Florea Cristian 2012:** Pathotyping of *Leptospira* spp. strains, Symposium organized by the Academy of Agricultural and Forestry Sciences „Achievements, priorities and perspectives in veterinary medicine”, Bucharest, June 15th, 2012

**Popa Virgilia, Militaru Dumitru 2012:** Identification / discrimination of *Trichinella* spp strains by classic multiplex PCR, Symposium organized by the Academy of Agricultural and Forestry Sciences „Achievements, priorities and perspectives in veterinary medicine”, Bucharest, June 15th, 2012

**Popa Virgilia, D. Militaru, Rodica Tanasuica, Sofica Apostu, Ofelia Tertis, C. Bria, Isabela Simion, P. Muntean, N. Poparlan, A. Nicolae, Ana Csuma 2012:** Validation of classic multiplex PCR method for species identification in *Trichinella* spp., The first international conference of comparative medicine, Romanian Academy, Bucharest, October 18-20, 2012

**Popa Mirela, Virgilia Popa, Miliana Petrof, Nicolae Alexandru, Marian Culcescu, Mihai Visan 2012:** A case study of lethal CPV new variants infection, Symposium organized by Faculty of Veterinary Medicine, Bucharest, November 22 - 23 2012

- **Published papers 2012**

**Turcu Alecu Alexandrina 2012:** Diagnostic methods of paratuberculosis in ruminants, *Romanian Journal of Veterinary Medicine* 4: 27 – 40

**Lorin Daniela 2012:** Techniques for isolation and identification of fungal strains from livestock farms, *Romanian Journal of Veterinary Medicine* 4: 41 – 50

**Fodor Ionica, Virgilia Popa, V Herman, Ioana Groza, N. Catana 2012:** Marker discrimination of APEC strains - Congo red, *Romanian Journal of Veterinary Medicine* 4: 75 – 78

**Fodor Ionica; Popa Virgilia; Groza Ioana; Catana Nicolae 2012:** Zoonotic risk of APEC strains isolated from broilers in Western Romania, *Journal Of Biotechnology* vol 161S : 33

**Fodor Ionica, Popa Virgilia, Groza Ioana, Catana N. 2012:** Molecular typing of Avian pathogenic Escherichia coli (APEC) using multiprimer PCR, Scientific Research and Essays 7(32): 2868-2873

**Popa Virgilia, Eduard Caplan, Marian Culcescu, Jenica Bucur, Nicolae Catana, Ionica Fodor, Nicolae Alexandru, Valer Teusdea 2012,** PCR test results performed in S.N. Pasteur Institute S.A. for the diagnosis in birds during January-November 2012, Newsletter of SVMDAPSA 24 (92) / Avicol Magazine 39: 12-17, ISSN 1841-0472

**Popa Virgilia, Eduard Caplan, Marian Culcescu, Daniela Botus, Jenica Bucur, Ionica Fodor 2012:** PCR tests for diagnosis of respiratory disease in birds, Newsletter of SVMDAPSA 23 (90/91)/ Avicol Magazine 37/38: 6 – 12, ISSN 1841-0472

**Popa Virgilia 2012:** PCR gene amplification tests in the diagnosis of diseases in birds, Newsletter of SVMDAPSA 21 (89) / Avicol Magazine 36, ISSN 1841-0472

**Cătana N, Virgilia Popa, Ioana Groza, Oana Petrec, Ionica Fodor 2012:** Observations on the evolution of an outbreak of colibacillosis in broilers, / Avicol Magazine 39: 6-11, ISSN 1841-0472 Newsletter of SVMDAPSA 24 (92)

**Popa Virgilia, Daniela Botus, Carmen Moisoiu, Vica Burghilea 2012:** Evaluation of in vitro efficacy of oral solution "Enrofloxacin 10%", Newsletter of SVMDAPSA 24 (92) / Avicol Magazine 39: 18-22, ISSN 1841-0472

- **International cooperation in scientific research**

**List of projects from “Pasteur Institute”**

<b>Responsible from Pasteur Institute</b>	<b>Project</b>	<b>Cooperation</b>
Virgilia Popa / Mihai Danes	Discontools, A European technology platform for global animal health, Development of the most effective tools to control infectious diseases in animals.	FP7-KBBE-2007-1

## Confidence-Building Measure "E"

### Declaration of legislation, regulations and other measures

At the Third Review Conference the States parties agreed to implement the following, later amended by the Seventh Review Conference:

As an indication of the measures which they have taken to implement the Convention, States parties shall declare whether they have legislation, regulations or other measures:

(a) To prohibit and prevent the development, production, stockpiling, acquisition or retention of the agents, toxins, weapons, equipment and means of delivery specified in Article I of the Convention, within their territory or anywhere under their jurisdiction or under their control anywhere;

(b) In relation to the export or import of micro-organisms pathogenic to man, animals and plants or of toxins in accordance with the Convention;

(c) In relation to biosafety and biosecurity.

States parties shall complete the attached form (Form E) and shall be prepared to submit copies of the legislation or regulations, or written details of other measures on request to the Implementation Support Unit (ISU) within the United Nations Office for Disarmament Affairs or to an individual State party. On an annual basis States parties shall indicate, also on the attached form, whether or not there has been any amendment to their legislation, regulations or other measures.

### Form E

### Declaration of legislation, regulations and other measures

Relating to	Legislation	Regulations	Other measures	Amended since last year
(a) Development, production stockpiling, acquisition or retention of microbial or other biological agents, or toxins, weapons, equipment and means of delivery specified in Article I	Yes	Yes	No	No
(b) Exports of micro-organisms and toxins	Yes	Yes	No	Yes
(c) Imports of micro-organisms and toxins	Yes	Yes	No	No
(d) Biosafety and biosecurity	Yes	Yes	Yes	No

### Name of legislation, regulations and other measures

No	Specification	No	Year	Topic
1.	Regulation (EU) of the European Parliament and of the Council	388	2012	Amending Council Regulation (EC) No 428/2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items
2.	Government Ordinance	12	2012	Modifying Government Ordinance No 119/2010
3.	Order of the Minister of Foreign Affairs	914	2012	Approving the regulation for implementing the provisions of Government Ordinance No 119/2010 regarding the control regime of dual-use operations
4.	Order of the Minister of Health	1226	2012	On approving The Technical norms regarding the management of the waste resulted from the medical activities and The Methodology of collecting data for the national database regarding the waste resulted from the medical activities
5.	Order of the Minister of Transport and Infrastructure	506	2011	Adopting of the necessary amendments to adapt for the first time, to the scientific and technical progress of the Annexes of the Government Decision no. 1.326/2009 on the transport of dangerous goods in Romania
6.	Order of the minister of the environment and forests / minister of public finance	1160/2902	2010	Approving The Procedure for controlling the import, export and transit of genetically modified organisms



## **Confidence-Building Measure "G"**

### **Declaration of vaccine production facilities**

To further increase the transparency of biological research and development related to the Convention and to broaden scientific and technical knowledge as agreed in Article X, each State party will declare all facilities, both governmental and non-governmental, within its territory or under its jurisdiction or control anywhere, producing vaccines licensed by the State party for the protection of humans. Information shall be provided on Form G attached.

### **Form G**

#### **Declaration of vaccine production facilities**

1. Name of facility: **National Institute of Research and Development for Microbiology and Immunology (NIRDMI) "Cantacuzino"**

2. Location (mailing address): **Independentei 103 – 105, 050096, District 5, Bucharest**

3. General description of the types of diseases covered: **Influenza vaccine (trivalent, pandemic – monovalent), BCG**

**Northern Hemisphere Influenza vaccine (Trivalent) is manufactured at this facility - Cultivation of egg adapted influenza virus is performed. During the last influenza pandemic (A/H1N1v) monovalent vaccine has been manufactured.**

**Vaccine against tuberculosis is manufactured at this facility (using Calmette Guerin strain).**

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### **Form G**

#### **Declaration of vaccine production facilities**

1. Name of facility: **National Society "Pasteur Institute" SA**

2. Location (mailing address): 333, Giulesti Str., 060269 Bucharest, district 6, Romania, phone: 40212206920; fax: +40212206915; email: [pasteur@pasteur.ro](mailto:pasteur@pasteur.ro)/ [office@pasteur.ro](mailto:office@pasteur.ro) / [biomol.pasteur@pasteur.ro](mailto:biomol.pasteur@pasteur.ro)

3. General description of the types of diseases covered: animal diseases (viral, bacterial, parasitic and nutritional diseases).

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## **Form G**

### **Declaration of vaccine production facilities**

1. Name of facility: **S.C. Romvac Company S.A.**
2. Location (mailing address): **Șos. Centurii, no. 7, Voluntari**
3. General description of the types of diseases covered: **animal diseases (viral, bacterial, parasitic and nutritional diseases)**

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## **Form G**

### **Declaration of vaccine production facilities**

1. Name of facility: **S.C. Pasteur Filiala Filipești S.R.L**
  2. Location (mailing address): **Strada Principală 944, Filipeștii de Padure, Prahova**
  3. General description of the types of diseases covered: **animal diseases (viral, bacterial, parasitic and nutritional diseases)**
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