



# **ROMANIA**

## **Confidence Building Measure Return (covering data for 2014)**

**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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A, part 2 (ii)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A, part 2 (iii)	<input checked="" 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: **15 April 2015**

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**

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## **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 (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>3</sup> on a State Party's territory:

Biosafety level 3 <sup>4</sup>	<b>no ( under construction)</b>
Biosafety level 2 <sup>5</sup> (if applicable)	<b>yes</b>

Any additional relevant information as appropriate:

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<sup>1</sup> World Health Organization

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

<sup>3</sup> Microorganisms pathogenic to humans and/or animals

<sup>4</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>5</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.

- The facility operating the BSL 2 containment laboratory is the Military Medical Research Center, located in Bucharest, Gr. Cobalcescu street no. 24/28, District 1. 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>6</sup> on a State Party's territory:

Biosafety level 3	<b>no</b>
Biosafety level 2 (if applicable)	<b>yes</b>

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 (*Escherichia coli*, *Mycoplasma meleagridis*, *M. iowae*, *M. gallisepticum*, *M. synoviae*, *M. hyorhinis*, *M. hyodisenteriae*, *M. floccularis*, porcine circovirus 2, porcine respiratory and reproductive syndrome virus, herpes viruses – Marek, Aujeszky, avian laringotracheitis, canine parvovirus, porcine parvovirus, porcine adenovirus, porcine sapelovirus, avian rhinotracheitis virus, *Ornithobacterium rhinotracheale*, avian coronavirus, avian leukosis viruses, avipox virus, avian bursitis virus, artemisinin in avian protozoal infections therapy), 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:

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

Biosafety level 3	<b>yes (not operational)</b>
Biosafety level 2 (if applicable)	<b>yes</b>

The 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 an operational BSL3 facility (totalling 175 sqm) within the Department of Microbiology for Public Health, intended for diagnostic and applied research; including test validation, test development and surveys. Currently the BSL facility is not operational due to several technical drawbacks.

INCDMI “Cantacuzino”, Bucharest has no operational BSL4.

### **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	<b>no</b>
Biosafety level 2 (if applicable)	<b>yes</b>

**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.

The types of the micro-organisms used in daily activities are mentioned in the following table:

No.	Micro-organism	Reference
1.	<i>Bacillus subtilis</i> subsp. <i>spizizenii</i>	ATCC 6633
2.	<i>Clostridium perfringens</i>	ATCC 13124
3.	<i>Citrobacter freundii</i>	ATCC 43864
4.	<i>Escherichia coli</i>	ATCC 8739
5.	<i>Listeria monocytogenes</i>	ATCC 19111
6.	<i>Listeria innocua</i>	ATCC 33090
7.	<i>Listeria ivanovii</i> subsp. <i>ivanovii</i>	ATCC 19119
8.	<i>Pseudomonas aeruginosa</i>	ATCC 27853
9.	<i>Staphylococcus aureus</i> subsp. <i>aureus</i>	ATCC 6538
10.	<i>Vibrio parahaemolyticus</i>	ATCC 17802
11.	<i>Rhodococcus equi</i>	ATCC 6939
12.	<i>Salmonella enterica</i> subsp. <i>enterica</i> serovar <i>enteritidis</i>	ATCC 13076
13.	<i>Salmonella enterica</i> subsp. <i>enterica</i> serovar <i>typhimurium</i>	ATCC 14028
14.	<i>Staphylococcus epidermidis</i>	ATCC 12228
15.	<i>Aspergillus brasiliensis</i>	ATCC 16404
16.	<i>Bacillus cereus</i>	ATCC 11778
17.	<i>Campylobacter jejuni</i> subsp. <i>jejuni</i>	ATCC 33291
18.	<i>Cronobacter muytjensii</i>	ATCC 51329
19.	<i>Enterococcus faecalis</i>	ATCC 29212
20.	<i>Saccharomyces kudriavzevii</i>	ATCC 2601
21.	<i>Yersinia enterocolitica</i> subsp. <i>enterocolitica</i>	ATCC 23715
22.	<i>E. coli</i> O103	ref. EURL VTEC B07
23.	<i>E. coli</i> O111	ref. EURL VTEC A07
24.	<i>E. coli</i> O157	ref. EURL VTEC C07
25.	<i>E. coli</i> O145	ref. EURL VTEC E07
26.	<i>E. coli</i> O26	ref. EURL VTEC D07
27.	<i>E. coli</i> O104:K-H12	ref. SSI H519
28.	<i>E. coli</i> O113:H21	ref. SSI 6182-50
29.	<i>E. coli</i> O55:H-	ref. SSI Su 3912-41
30.	<i>E. coli</i> O121:K-:H10	ref. SSI 39w
31.	<i>E. coli</i> O128ab:H2	ref. SSI Cigleris
32.	<i>E. coli</i> O146:K-:H21	ref. SSI CDC2950-54
33.	<i>E. coli</i> O91:K-:H-	ref. SSI H307B
34.	<i>E. coli</i> O104:H4	ref. SSI D4116
35.	<i>Salmonella Braenderup</i>	ref. SSI H9812
36.	<i>E. coli</i>	ref. EURL VTEC SSI-NN14
37.	<i>E. coli</i>	ref. EURL VTEC EA22
38.	<i>E. coli</i>	ref. EURL VTEC SSI-OO15
39.	<i>E. coli</i>	ref. SSI D2653

40.	E. coli	ref. SSI D3602
41.	E. coli	ref. SSI D3522
42.	E. coli	ref. SSI D3428
43.	E. coli	ref. SSI D3648
44.	E. coli	ref. SSI D3546
45.	E. coli	ref. SSI D3509
46.	E. coli	ref. SSI D3431
47.	E. coli	ref. SSI D4134
48.	Staphylococcus aureus	ref. EURL CPS FRI 137
49.	Staphylococcus aureus	ref. EURL CPS FRI 361
50.	Staphylococcus aureus	ref. EURL CPS A900322
51.	Staphylococcus aureus	ref. EURL CPS FRI S6
52.	Staphylococcus aureus	ref. EURL CPS FRI 326
53.	Listeria monocytogenes	ref. Anses 00EB248LM ref. collection Pasteur Institute Clip74902
54.	Listeria monocytogenes	ref. Anses EURL LM 00EB249LM ref. collection Pasteur Institute Clip74903
55.	Listeria monocytogenes	ref. Anses EURL LM 00EB250LM ref. collection Pasteur Institute Clip74904
56.	Listeria monocytogenes	ref. Anses EURL LM 00EB254LM ref. collection Pasteur Institute Clip74908
57.	Listeria monocytogenes	ref. Anses EURL LM 00EB256LM ref. collection Pasteur Institute Clip74910

### 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>7</sup> on a State Party's territory:

Biosafety level 3 <sup>8</sup>	yes
Biosafety level 2 <sup>9</sup> (if applicable)	yes

<sup>7</sup> Microorganisms pathogenic to humans and/or animals

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



Any additional relevant information as appropriate:

The Institute for Diagnosis and Animal Health (IDAH), located in 63, Dr. Staicovici Street, sector 5, Bucharest, Romania is functioning as a national reference institute and it is under the subordination of the National Sanitary Veterinary Authority and for Food Safety. Within IDAH operates a BSL3 containment laboratory. It is used for diagnostic in animal health; including test validation, and surveys. Main objectives are to have a capability allowing Romania to:

- demonstrate its animal health status; and
- demonstrate strains of certain micro-organisms not found in this country.

Institute for Diagnosis and Animal Health has no national biological defence research and development programme.

### **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>10</sup> on a State Party's territory:

Biosafety level 3 <sup>11</sup>	no
Biosafety level 2 <sup>12</sup> (if applicable)	yes

The Institute for Control of Veterinary Biological Products and Medicines (ICVBPM), located in 39, Dudului Street, sector 6, Bucharest, Romania, is a unit with juridical status, functioning as a national reference institute, under the technical subordination of the National Sanitary Veterinary and Food Safety Authority. ICVBPM has competence in the field of veterinary medicinal products, biocides, feed additives, diagnosis sets, other veterinary products (vitamins, mineral supplements and cosmetics).

The main task with relevance on these issues is:

Quality control of veterinary immunopreparations (vaccines): bacterial, viral, parasites:

- Live vaccine against distemper, infectious hepatitis, infectious laryngotracheitis, parvovirus and parainfluenza in dogs,
- Vaccine against rabies, inactivated,
- Vaccine against panleucopenia, calicivirus and herpesvirus infection of cats,
- Live vaccine against rabies intended for oral immunization in foxes,
- Live vaccines against Aujeszky virus for pigs,
- Vaccine against IBR live and inactivated, BVD inactivated, BRSV live and inactivated,
- Live vaccine against myxomatosis and inactivated vaccines for Infectious Rabbit Hemorrhagic Disease,

<sup>10</sup> Microorganisms pathogenic to humans and/or animals

<sup>11</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>12</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.

- Live vaccine against infectious bronchitis in poultry, infectious bursitis in poultry (Gumboro disease), Newcastle disease in poultry, inactivated vaccine against the egg drop syndrome, Inactivated vaccine against Newcastle disease and infectious bursitis in poultry,
- Vaccine against porcine parvovirus, inactivated,
- Vaccine against leptospirosis in dogs and furry animals,
- Inactivated vaccine against equine influenza and tetanus,
- Vaccine against parvovirus and swine erysipelas
- Live vaccine against anthrax with B. Anthracis, attenuated strain – 1190 R
- Live vaccines for Salmonella spp. in poultry
- Live vaccines with Trichophyton verrucosum, attenuated strain
- Vaccines inactivated against anaerobic disease

Quality control of veterinary pharmaceutical products (antimicrobial, anti-inflammatory, antiparasitics, etc). To perform the quality control of pharmaceutical products is used the microorganisms test as below:

- Staphylococcus aureus ATCC 6538,
- Bacillus subtilis ATCC 6633, [NCTC 2589](#)
- Pseudomonas aeruginosa ATCC 9027,
- Clostridium sporogenes [ATCC 11437](#)
- Candida albicans ATCC 10231,
- Aspergillus brasiliensis ATCC 16404,
- Escherichia coli ATCC 8739, ATCC 10536, [ATCC 1133](#)
- Salmonella enterica subsp. Enterica serovar typhimurium ATCC 14028
- Saccharomyces cerevisiae [ATCC 2601](#)
- Micrococcus luteus ATCC 10240, ATCC 9341
- Bordetella bronchiseptica ATCC 4617
- Bacillus pumilus NCTC 8241, CIP 76.18
- Staphylococcus epidermitis NCIMB 8853, CIP 68.21, ATCC 12228
- Candida tropicalis CIP 1433-83, NCYC 1393
- Bacillus spizizenii ATCC 6633
- Bordetella bronchiseptica ATCC 4617
- Streptococcus faecalis 8043

Diagnostic test kits: for viral, bacterial and parasites disease by following tests: ELISA, immunodiffusion test, complement bond reaction, slow and quick agglutination, immunofluorescent test, immunoperoxidase test.

Any additional relevant information as appropriate:

The activity of the Institute's laboratories is to perform the quality control of veterinary biological products and medicines. The laboratories' activities are organized according to ISO 17025:2005 requirements and ISO 9001:2008 requirements. The main methods are accredited by Accreditation national body from Romania.

## 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 2014 ongoing international research projects

1. 35 / PAR 42-05 (2014-2016) *Meningitis differential diagnostic method based on cytokine pattern detection using a rapid detection device in care settings.*
2. 126 / PAR 43-05 (2014-2016) *Complex epidemiological modelling of West Nile infections with interdisciplinary correlations using image data from sensor systems and drones.*
3. 34 / PAR 44-05 (2014-2016) *Laser techniques for biosensor manufacturing based on real time detection microfluidic systems.*
4. 147/2014 PAR 46-05 (2014-2016) *Immunobiosensors for rapid detection of carbamic pesticide residues in horticultural products.*
5. 295 / PAR 47-05 (2014-2016) *REAL TIME PCR multiplex kit for detection and identification of several tick borne viral (FHCCv si TBEv) and bacterial (Francisella tularensis, Borrelia burgdorferi) agents.*
6. 104 / PSTAR 05 (2013-2016) *Advanced monitoring system for mosquito borne diseases in Romania based on space and in-situ data integration.*
7. AquaVIR 604069 - AQU05 *Portable Automated Analyzer for Virus in Water AquaVir.*
8. BARDA - IDRI 05 *Development and Sustainable Manufacturing of Adjuvanted Pandemic Influenza Vaccines in 4 Developing Countries*
9. EPICONCEPT (EPICO 05) / IMOVE+ *To carry out an influenza vaccine effectiveness study in Romania, contributing to the I-MOVE multicentre case-control-study.*

10. PN 09220102 - 032-05 Vector and environmental factors borne diseases diagnostic capacity development.
11. PN 09220103 - 033-05 Microbiological survey capacity enhancing regarding vaccine preventable diseases.
12. PN 09220104 PN 034-05 Anaerobical infections diagnostic capacity development.
13. PN 09220202 - 037-05 Nanostructured adjuvant substances for new generation vaccines.

- **List of 2014 published papers**

*List of the 2014 published papers In*

1. Dinu S, Panculescu-Gatej IR, Florescu SA, Popescu CP, Sirbu A, Oprisan G, Badescu D, Franco L, Ceianu CS. Molecular epidemiology of dengue fever cases imported into Romania between 2008 and 2013. *Travel Med Infect Dis.* 2014 Nov 13. pii: S1477-8939(14)00215-4. doi: 10.1016/j.tmaid.2014.11.001
2. Dinu S, Guillot S, Dragomirescu CC, Brun D, Lazar S, Vancea G, Ionescu BM, Gherman MF, Bjerkestrand AF, Ungureanu V, Guiso N, Damian M. Whooping cough in South-East Romania: a 1-year study. *Diagn Microbiol Infect Dis.* 2014 Mar; 78(3):302-6. doi: 10.1016/j.diagmicrobio.2013.09.017
3. Dinu S, Damian M, Badell E, Dragomirescu CC, Guiso N. New diphtheria toxin repressor types depicted in a Romanian collection of *Corynebacterium diphtheriae* isolates. *J Basic Microbiol.* 2014 Oct; 54(10):1136-9. doi:10.1002/jobm.201300686
4. Usein CR, Militaru M, Cristea V, Straut M. Genetic diversity and antimicrobial resistance in *Streptococcus agalactiae* strains recovered from female carriers in the Bucharest area. *Mem Inst Oswaldo Cruz.* 2014 Apr; 109(2):189-96
5. Panculescu-Gatej RI, Sirbu A, Dinu S, Waldstrom M, Heyman P, Murariu D, Petrescu A, Szmal C, Oprisan G, Lundkvist A, Ceianu CS. Dobrava virus carried by the yellow-necked field mouse *Apodemus flavicollis*, causing hemorrhagic fever with renal syndrome in Romania. *Vector Borne Zoonotic Dis.* 2014 May; 14(5):358-64. doi:10.1089/vbz.2013.1400

#### “PASTEUR” INSTITUTE

- **Scientific meetings / Scientific communications / posters (2014)**

**Leigh NAGY, Daniela BOTUS, Jarrett COTTER, Virgilia POPA, Marian CULCESCU, Eduard CAPLAN, Jenica BUCUR, Gheorghe STRATULAT 2015**, The evolution of respiratory diseases in poultry farms from Romania during 2013 – 2014 determined by ELISA and PCR assays, 2015 International Poultry Scientific Forum, Atlanta, Georgia, USA, January 26-27, 2015

**Virgilia POPA, Mirela POPA, Miliana PETROF, Daniela BOTUS, Marian CULCESCU, Costin RACOLTA, Jenica BUCUR, Gheorghe STRATULAT 2014**: Avian pox. Diagnostic and control through vaccination, SMVPAAMR quarterly meeting (Romanian Veterinarians Society in Avian and Small Animals Pathology), ASAS (Academy of Agricultural Sciences and Forestry), Bucharest, March 2014 /

**Doina DANES, Stelian BARAITAREANU, Rodica Maria GURAU, Mihai DANES, Virgilia POPA 2014**, Emerging and re-emerging diseases transmitted by vectors, Symposium organized by the Romanian Society for Microbiology in partnership with I. Cantacuzino, "Vector-borne infections in the context of globalization and climate changes", Bucharest June 27, 2014 /

**Mihai DANES, Virgilia POPA, Doina DANES, Daniela BOTUS, Stelian BARAITAREANU, Rodica OTELEA, Dumitru MILITARU 2014**, Aspects of vector-borne diseases in animals, Symposium organized by the Romanian Society for Microbiology in partnership with I. Cantacuzino, "Vector-borne infections in the context of globalization and climate changes", Bucharest June 27, 2014 /

**Mirela POPA, Miliana Gabriela PETROF, Ionut SORESCU, Cristian FLOREA 2014**, Leptospira - new old problem, Symposium organized by the Romanian Society for Microbiology in partnership with I. Cantacuzino, "Vector-borne infections in the context of globalization and climate changes", Bucharest June 27, 2014 /

**Virgilia POPA, Eduard Marius CAPLAN, Jenica BUCUR, Marian CULCESCU, Gheorghe STRATULAT 2014**, rPCR detection of Salmonella spp presence in products of avian origin, SMVPAAMR quarterly meeting, ASAS, Bucharest, September 2014 /

**Virgilia POPA, Dumitru MILITARU, Beatrice STIRBU, Daniela BOTUS, Eduard CAPLAN, Marian CULCESCU, Mihai DANES 2014**, Studies on *in vitro* effect of artemisinin on zoonotic bacteria, 7th National Conference of Microbiology and Epidemiology, Bucharest, November 13 - 15, 2014 /

**Viviana CIUCA, Victorita BURGHELEA, Daniela NITA, Victor Viorel SAFTA 2014**, Microbiological validation of the vaccine "Ruvac", 7th National Conference of Microbiology and Epidemiology, Bucharest, November 13 - 15, 2014 /

▪ **Published papers 2014**

**CAPLAN M., PIETZKA A., POPESCU G., RAFILA A., RUPPITSCH W., STÖGER A., BORCAN A.M., MATEESCU A.I., ALLERBERGER F., MĂRUȚESCU I., HUHULESCU S. 2014**, Characterization of Romanian *Listeria monocytogenes* isolates from food and humans, Roum. Biotechnol. Lett., vol. 19, nr. 3, p. 9319-9329

**CAPLAN M.E., MATEESCU L.A., VASSU DIMOV T., RAFILA A., BORCAN A.M. 2014**, Antibiotic Susceptibility Profiles of *Listeria monocytogenes* Strains Isolated from Food Products and Clinical Samples, Rev. Rom. Med. Lab. 22 (2): 255-261

**Dumitru MILITARU, Virgilia POPA, Daniela BOTUS, Beatrice STIRBU, Eduard Marius CAPLAN**, *In vitro* evaluation of the potential antibacterial effect of artemisinin on *Campylobacter jejuni* (*in press*, Roum. Biotechnol. Lett.)

**Dumitru MILITARU, Virgilia POPA, Daniela BOTUS, Beatrice STIRBU 2014**, "Ex vivo" methodology for comparative evaluation of cytotoxicity of a soluble substance in organic solvents (DMSO, DMF) on chicken embryo fibroblasts (EGF) and Vero cell monolayer, Ministry of Agriculture and Rural development – Academy of Agricultural and Forestry Sciences (MARD-AAFS), The research offer for technology transfer in agriculture, food industry and forestry, vol. XVII, Coordinator Prof. Dr. Gheorghe SIN, President of AAFS, <http://www.asas.ro/wcmqs/academia/publicatii/Oferta%20cercetarii%202014.pdf> /

**Virgilia POPA, Daniela BOTUS, Emilia SIMION 2014**, Multiplex PCR classic assay for concomitant detection of *Mycoplasma meleagridis* (MM) and *Mycoplasma Iowa* (MI) , MARD-AAFS, The research offer for technology transfer in agriculture, food industry and forestry, vol. XVII, Coordinator Prof. Dr. Gheorghe SIN, President of AAFS, <http://www.asas.ro/wcmqs/academia/publicatii/Oferta%20cercetarii%202014.pdf/>

**Virgilia POPA, Daniela BOTUS, Emilia SIMION 2014**, SYBR Green real-time PCR assays for avian leucosis viruses detection (ALV-A, B, C, D, E, ALV-A, ALV-J), MARD-AAFS, The research offer for technology transfer in agriculture, food industry and forestry, vol. XVII, Coordinator Prof. Dr. Gheorghe SIN, President of AAFS, <http://www.asas.ro/wcmqs/academia/publicatii/Oferta%20cercetarii%202014.pdf/>

**Virgilia POPA, Daniela BOTUS, Dumitru MILITARU, Beatrice STIRBU, Emilia SIMION, Constantin RACOLTA 2014**, SYBR Green real-time PCR assay for Fowlpox virus detection, MARD-AAFS, The research offer for technology transfer in agriculture, food industry and forestry, vol. XVII, Coordinator Prof. Dr. Gheorghe SIN, President of AAFS, <http://www.asas.ro/wcmqs/academia/publicatii/Oferta%20cercetarii%202014.pdf/>

**Mirela POPA, Miliana PETROF 2014**, Classic PCR methodology for the identification, characterization and classification of avian pox viruses (APV), MARD-AAFS, The research offer for technology transfer in agriculture, food industry and forestry, vol. XVII, Coordinator Prof. Dr. Gheorghe SIN, President of AAFS, <http://www.asas.ro/wcmqs/academia/publicatii/Oferta%20cercetarii%202014.pdf/>

**Mirela POPA, Miliana PETROF 2014**, Classic PCR methodology for genetic characterization of *Salmonella cholerae-suis*, MARD-AAFS, The research offer for technology transfer in agriculture, food industry and forestry, vol. XVII, Coordinator Prof. Dr. Gheorghe SIN, President of AAFS, <http://www.asas.ro/wcmqs/academia/publicatii/Oferta%20cercetarii%202014.pdf/>

**Ana CSUMA, Victorița BURGHELEA, Viviana CIUCA 2014**, HPLC methodology with fluorescence detection and confirmation by MS / MS for identification and quantification of eprinomectin B1a residues in animal tissues, MARD-AAFS, The research offer for technology transfer in agriculture, food industry and forestry, vol. XVII, Coordinator Prof. Dr. Gheorghe SIN, President of AAFS, <http://www.asas.ro/wcmqs/academia/publicatii/Oferta%20cercetarii%202014.pdf/>

**Ana CSUMA, Victorița BURGHELEA 2014**, Evaluation by HPLC - LC-MS / MS of the stability in the drinking water of antimicrobial pharmaceuticals based on ampicillin, erythromycin, gentamicin, lincomycin, neomycin, oxytetracycline, tetracycline and sulfadimethoxin, MARD-AAFS, The research offer for technology transfer in agriculture, food industry and forestry, vol. XVII, Coordinator Prof. Dr. Gheorghe SIN, President of AAFS, <http://www.asas.ro/wcmqs/academia/publicatii/Oferta%20cercetarii%202014.pdf/>

**Ana CSUMA, Victorița BURGHELEA 2014**, Evaluation by HPLC - LC-MS / MS of the stability of antiparasitic pharmaceuticals in liquid formulation based on albendazole, fenbendazole, ivermectin, levamisole,

oxyclozanide and cypermethrin, MARD-AAFS, The research offer for technology transfer in agriculture, food industry and forestry, vol. XVII, Coordinator Prof. Dr. Gheorghe SIN, President of AAFS, <http://www.asas.ro/wcmqs/academia/publicatii/Oferta%20cercetarii%202014.pdf> /

## 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	No	No	No	No
(d) Biosafety and biosecurity	Yes	Yes	Yes	No



**Name of legislation, regulations and other measures**

No	Specification	No	Year	Topic
1.	Commission Delegated Regulation (EU)	1382	2014	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.	Law	35	2013	Approving Government Ordinance No 12/2012
4.	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

## **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).**

**In 2014 there was no vaccine production in NIRDMI "Cantacuzino" due to several financial drawbacks. However, the manufacturing capacities are not affected and vaccine production could start anytime.**

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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; e-mail: [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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