

Summary report on research accreditation

I. General information

Name of organization	Institute of Phtisiopneumology "Chiril Draganiuc"
Organization type (<i>to underline</i>)	Research institute High education institution <u>Ministerial research institute</u>
Research mission of organization	The institution's mission is to perform curative-prophylactic and scientific practical activity in the sphere of phtisiopneumology.
Strategic research direction (s)	Epidemiology, prophylaxis, diagnosis, treatment and medico-social recovery of the patients with tuberculosis and nonspecific pulmonary diseases.
Evaluated period	2005-2009
Web of organization	www.ifp.asm.md

II. Research capacity (annual average for evaluated period)

Total number of employees	89					
Number of scientific researches	44,4					
Number of researches who possess honorific titles, scientific degrees, scientific and scientific-didactical titles	ASM full members	ASM corresp. members	Professor	Associated professor	Dr.hab.	Dr. (PhD)
	-	-	2	24	9	21
Number of researches involved in international projects	FP7 3	STCU -	Bilateral -	Others 10		
Number of young researches (under 35 years old)	Dr. (PhD) -	PhD students -	Others 17			
Financial resources (thousand MDL)	Public budget 2656.0	International projects/grants -	Research contracts -			
Distribution of expenditures (thousand MDL)	Salary 2243.2	Infrastructure development 241.0	Other 18.0			
Expenditures for infrastructure development (thousand MDL)	Equipments 215.0	IT infrastructure 26.0	Endowment of experimental resorts -			
List of 3 basic research methods, installations, technologies (per accredited field)	BACTECMGIT 960; GenoType MTBDRPlus; GenoType MTBDRPlus, VER2.0, BDProbeTecTM ET Mycobacteria					
List of provided scientific services	<i>M.tuberculosis</i> isolation by using the classical method, the BACTECMGIT 960 method, the <i>M.tuberculosis</i> detection with GenoType MTBDRPlus test					

List of editorial activities	<p>Bronchoscopy, Immunological and histological examinations</p> <p>- collections (6/60,8)</p> <p>2005</p> <ol style="list-style-type: none"> 1. Up-to-dateness in the etiology, pathogenesis, prophylaxis, diagnosis and treatment of tuberculosis and nonspecific lung diseases. The materials of the III National Congress of Phtisiopneumology of the Republic of Moldova. Articles and theses collection. ASM Publishing. Chisinau, 27-28 October 2005, 363 p. (18,15). <p>2006</p> <ol style="list-style-type: none"> 1. Up-to-dateness in phtisiopneumology. The materials of the Scientific practical conference with international participation „Up-to-dateness in phtisiopneumology. Methods of clinical lymphology and endoecological rehabilitation in pneumology, phtisiology and general therapy”. Articles and theses collection. ASM Publishing. Chisinau, 19-20 September 2006, vol. I, 126 p. (6,3). 2. Methods of clinical lymphology and endoecological rehabilitation in pneumology, phtisiology and general therapy. The materials of the Scientific practical conference with international participation „Up-to-dateness in phtisiopneumology. Methods of clinical lymphology and endoecological rehabilitation in pneumology, phtisiology and general therapy”. Articles and theses collection. ASM Publishing. Chisinau, 19-20 September 2006, vol. II, 144 p. (7,2). <p>2007</p> <ol style="list-style-type: none"> 1. Up-to-dateness in the etiology, pathogenesis, prophylaxis, diagnosis and treatment of tuberculosis and nonspecific lung diseases. The materials of the XII Phtisiopneumology Conference of the Republic of Moldova. Articles and theses collection. ASM Publishing. Chisinau, 13 September 2007, 184 p. (9,2). <p>2008</p> <ol style="list-style-type: none"> 1. Up-to-dateness in the etiology, pathogenesis, prophylaxis, diagnosis and treatment of tuberculosis and nonspecific lung diseases. Articles and theses collection. ASM Publishing. Chisinau, 240 p. (12,0). <p>2009</p> <ol style="list-style-type: none"> 2. Up-to-dateness in the etiology, pathogenesis, prophylaxis, diagnosis and treatment of tuberculosis and nonspecific lung diseases. The materials of the IV National Congress of Phtisiopneumology of the Republic of Moldova with international participation. Articles and theses collection. ASM Publishing. Chisinau, 1-2 October 2009, 159 p. (7,95). <p>- category C journals</p> <p>2006</p> <ol style="list-style-type: none"> 1. Bulletin of the Academy of Sciences of Moldova. Medical Sciences. Scientific practical journals. ASM Publishing. Chisinau, 2 (6) 2006, 176 p (8,8). ISSN 1875-0011. <p>2007</p> <ol style="list-style-type: none"> 2. Bulletin of the Academy of Sciences of Moldova. Medical Sciences. Scientific practical journals. ASM Publishing. Chisinau, 3(12) 2007, 222 p. (11,1). ISSN 1875-0011. <p>2010</p>
------------------------------	--

	<p>3. Bulletin of the Academy of Sciences of Moldova. Medical Sciences. Scientific practical journals. ASM Publishing. Chisinau, 4(32) 2011, 232 p. (11,6). ISSN 1875-0011.</p> <p>2009</p> <p>1. Tudor E., Stici I., Haidarlî I., Cunițchi E. Institute of Phtisiopneumology „Chiril Draganiuc” – 50 years since its foundation. Publishing House. Chisinau, 2009, 372 p. (18,6).</p>
--	--

III. Distribution of number of research projects and themes during evaluated period

Institutional projects	2005 6	2006 6	2007 6	2008 6	2009 6
Projects in the frame of State Programmes	2005 -	2006 -	2007 -	2008 -	2009 -
Technological transfer projects	2005 -	2006 -	2007 -	2008 -	2009 -
Projects for equipment procurement	2005 -	2006 -	2007 -	2008 1	2009 -
Projects for young researches	2005 -	2006 -	2007 1	2008 2	2009 1
Projects in the frame of bilateral programmes	2005 -	2006 -	2007 -	2008 -	2009 -
International projects/grants	2005 -	2006 1	2007 -	2008 -	2009 2
List of 3 representative international projects/grants	<p>1. FP7-HEALTH-2007-B.TB-PAN-NET/ TBNET: <i>Clinical study of drug-resistant tuberculosis in Europe</i>. Coordinator: Daniela M. Cirillo, MD, Ph.D, Head, Emerging Bacterial Pathogens Unit Università Vita-Salute San Raffaele, Milan, Italy. The Research Center of Borstel, Germany. Period: 01/01/2009-31/12/2013.</p> <p>2. U01 AI077957-01. NIAID RFA-AI-08-001: “<i>Rapid tests for the resistance assessment and detection of extensive resistance tuberculosis</i>”. National Institute of Allergy and Infectious Diseases (US). San-Diego. Coordinator: Antonino Catanzaro, Professor. Period: 01/10/2009-31/06/2014.</p>				
Research contracts	2005 -	2006 -	2007 -	2008 -	2009 -
List of 3 representative research contracts	-				

IV. Scientific publications

Total number of publications abroad	Books -	Chapters in books 2	Journal papers 4
Total number of publications in ISI journals and books	Books -	Chapters in books -	Journal papers -

Total number of publications in the country	Books -	Chapters in books 2	Journal papers 89
Total number of conference abstracts	International abroad 78	International in the country 75	National 2
List of 5 representative publications (per accredited field)	<ol style="list-style-type: none"> 1. Soltan V., Henry A., Crudu V., Zatusovski I. Increasing tuberculosis case detection: lessons from the Republic of Moldova. Bulletin of the World Health Organization, January 2008, no. 86 (1), p.71-76 (0,3). 2. Sofronie S., Ghidirim Gh., Țibîrnă Gh., Tudor E., Bârdan L., Condrățchii D., Gonța E.. Clinical guide of thoracic surgical pathology. Chisinau, ASM Publishing, 2008, 172 p. (8,6). 3. Haidarli I., Sain D., Sofronie S., Timbalari V., Tudor E.. The mortality from tuberculosis dynamics and structure in the Republic of Moldova (y. 2004-2005). Respiratory Medicine, 2007; 1: Barnaul, ID Altapress 2007; 1: 55-57 (0,15). 4. Pisarenco S., Sain D., Crudu V., Iavorschi C., Brădișteanu C. TB control within DOTS strategy. Guide for phthisiopneumologists. Chisinau, 2008, 141 p. (7,05). 5. Crudu V. The microbiological service organization in tuberculosis diagnosis within DOTS strategy: Microscopy. Cultural method. Methodical instructions. Chisinau, 2006, 83 p. (4,15). 		
List of 5 citations			

V. Innovation outputs

Total number of patents	Registered in the country 3	Registered abroad -	Implemented 3
Total number of new developed methods and technologies	Registered 9	Non-registered -	Implemented 9
Total number of new scientific products	Registered 4	Non-registered -	Implemented 6
Total number of scientific outputs for central and local authorities (draft of law, strategies etc.)	<ol style="list-style-type: none"> 1. National Programme of Tuberculosis Prophylaxis and Control for the years 2006-2010. Government Decision No. 1409 of 30 December 2005 (M.O. 16-19 (1797-1800) of 27.01.2006). 2. The Law on the Control and Prevention of Tuberculosis. No. 1813-IV. Chisinau, July 29, 2008. (M.O. 143-144 (3228-3237) of 05.08.2008). 3. Botnaru V. Procopisin L., Rusu D., Munteanu O., Maximenco E. Bronchial Asthma in adults. National clinical Protocol. Chisinau, 2008, 60 p. (3,0). 4. Sofronie S., Moscovciuc A., Bârdan L. Maximenco E., Codreanu E. Chronic Obstructive Pulmonary Disease. National clinical Protocol. Chisinau, 2008, 66 p. (3,3). 5. Iavorschi C., Rotaru-Lungu C., Maximenco E. Tuberculosis in children. National clinical Protocol. Chișinău, 2008, 83 p. (4,3). 6. Iavorschi C., Țimbalari Gh., Sain D., Mogoreanu E., Crudu V., Rotaru-Lungu C., Maximenco E. Tuberculosis in adult. National clinical Protocol. Chisinau, 2009, 80 p. (4,0). 		
Total number of scientific outputs for	Handbooks for high education	Handbooks for pre-university	Delivered university courses

educational institutions	-	institutions -	4
List of 5 representative innovation outputs (per accredited field)	Method to prevent the samples superinfection in <i>M. tuberculosis</i> susceptibility testing by using the BACTEC MGIT 960 method. Method for determining the body adaptive reactions by using the leucoformula. Method of assessing the leukocyte index of allergy.		

VI. Major scientific and innovation achievements

Short description of main scientific results and its confirmation (by awards, citations, development of international projects etc.)	<ol style="list-style-type: none"> 1. There were determined the causes that contribute to the quotas formation of the patients with chronic forms of tuberculosis and actions were proposed for preventing the development of the chronic forms of tuberculosis. 2. As a result of the complex treatment, associated with the surgical methods of multidrug-resistant pulmonary tuberculosis it was obtained the non-bacillary of the patients in 100% of the cases. 3. The morphological picture of the tuberculosis inflammation in the resection material is characterized by the progressive phase prevalence of the specific process (54.5%). The high activity persistence of the tuberculosis inflammatory process is a direct indication for associating with the surgical treatment of the tuberculous lesions. 4. There were established the basic medical criteria that determine the work-force incapacity of the patients with bronchial asthma to assess the vitality reduction degree that will allow to establish the indications for aid and social protection which will improve the quality of life. 				
Number of organization' invited speakers at international conferences	2005 2	2006 4	2007 2	2008 3	2009 2
Short description of technological transfer and innovation results and its certification by implementation	<ol style="list-style-type: none"> 1. New technics of molecular Biology were approved (the study of bacterial genome) for the rapid resistance testing of <i>M. Tuberculosis</i> to anti-tuberculosis medications (especially, ethionamide), important for the opportune establishment of the resistant tuberculosis individualized treatment regimes. 2. Establishment and implementation method for preventing the samples superinfection in <i>M. tuberculosis</i> susceptibility testing and the microbiological diagnosis algorithm contributed to the essential TB MDR laboratory diagnosis testing improvement and speeding up the testing susceptibility. 3. It was demonstrated that BioR preparation (cyanobacterium <i>Spirulina platensis</i> CNM-CB-02 <i>CYANOPHYTA</i>, bioactive complex containing about 82% amino acid immunogenic: glycine, valine, alanine, glutamic acid, asparagic acid, serine and threonine, tryptophan, arginine and cysteine) enhances the immunological reactivity and the natural resistance in patients with specific and non-specific respiratory tract pathologies. (Silver medal International Specialized Exhibition of Inventions. Geneva, 3 April, 2009). 				
Number of defended dr.hab. and dr. theses per year	2005 2	2006 1	2007 1	2008	2009

VII. Present/further involvement in the Seventh Framework Programme (FP7): specific programmes (Cooperation, Ideas, People, Capacities) of interest and its subdivisions.

FP7-HEALTH-2007-B.TB-PAN-NET/TBNET: *Clinical study of the tuberculosis resistant to medications in Europe.*

Coordinator: Daniela M. Cirillo, MD, Ph.D, Head, Emerging Bacterial Pathogens Unit Università Vita-Salute San Raffaele, Milan, Italy.

Dr. Christoph Lange MD PhD, Research Centre Borstel. Germany.

Durata: 01/01/2009-31/12/2013.

Republic of Moldova: Institute of Phtisiopneumology „Chiril Draganiuc”, Laboratory of Microbiology and Tuberculosis Morphology: V. Crudu, Ph.D, Chief Executive Committee; N. Moraru, Doctor Habilitate in Medicine; E. Stratan, E. Ţurcan.

VIII. Accredited research field and its evaluation by the National Council for Accreditation and Attestation of the Republic of Moldova (very good/good/satisfactory)

Pneumophtisiology (Satisfactory)

IX. Category (A/B/C) attributed by the National Council for Accreditation and Attestation of the Republic of Moldova to the organization

Category B

X. Institutional development actions planned for the next 5 years (maximum ½ page).

1. To improve the method of precocious diagnosis of multidrug-resistant and extensively tuberculosis (XDR); to improve and adjust to the up-to-date epidemiological conditions the new treatment regimens of the resistant tuberculosis.
2. To evaluate the causal and management aspects of the anti-tuberculosis treatment abandonment and to develop preventive measures.
3. To develop measures for detection optimization and treatment organization of the patients with new cases of pulmonary tuberculosis nowadays.

Vice director on science:

Constantin Iavorschi, dr. hab. in medicine, professor

Scientific secretary:

Elena Tudor, dr. in medicine, associate professor

www.ifp.asm.md

stiintaifp@gmail.com