QUESTIONNAIRE

(*) – mandatory fields

	Details about organization
* **Organization name**	V.F.Kuprevich Institute of Experimental Botany of NAS of Belarus
Organisation acronym	
* **Organization Activity** Type (**RES** - Research, **HE** - University, **SME** - Small and Medium Enterprise, **IND** - Industry, **OTH** - Other)	**RES**
* **Keywords of main research areas**	**1. Flora:** taxonomy, herbarium **2. Vegetation:** sintaxonomy, ecology, productivity and sustainability of natural and artificial phytocenoses **3. Mycology:** fungi biodiversity, genetics **3. Especially protected natural areas:** monitoring of protected areas, the scientific basis of biodiversity conservation, cross-border cooperation, EEC Habitate Directive **4. Plant Physiology:** sustainability of plants to the adverse external environment factors, phytopathogeny, water treatment, artificial substrates for the growth and development of plants, the study of biochemical properties, functions and metabolism of proteins of various species of plants
* **Head of organization (first name, family name)**	Nikolaj A. Laman
* **Post code**	220072
* **Country**	Belarus
* **City**	Minsk
* **Street, House**	Academichesaja, 27
* **Telephone (+ country & city codes)**	(+375 17) 284 15 64 (head) (+375 17) 284 18 51
* **Fax (+ country & city codes)**	(+375 17) 284 18 53
* **E-mail**	expbot@biobel.bas-net.by

* **Description of organization and its research achievements for the last five years (~ 5000 signs)**
The Institute of Experimental Botany - leading research organization biological profile in Belarus. The main activities of the Institute are: development of adaptive methods of agriculture, protection and efficient use of biological resources, environmental management technology, monitoring of vegetation, the study of physiological and biochemical mechanisms of plant productivity and sustainability. The main results of studies over the past 5 years: • a critical systematic, morphological-anatomic and ecological-biological biodiversity study of angiosperms (tax. *Limoniaceae - Fabaceae*) and bryophyte (*Sphagnaceae, Andreaceae, Anthocerotaceae, Codoniaceae - Pallavicciniaceae*) with the assessment

of their condition, significance and protected status are carry out;
• compiled an inventory of rare and endangered plant species and on its basis issued Red Book of Belarus;
• conducted a comprehensive analysis of the mycobiota of Belarus, compiled and refined floral, and taxonomic nomenclature of the fungi;
• formulated the basic theory of the situation sustainability of forest ecosystems;
• an ecological-geographic and structural and functional analysis of vegetation Belarus, the first national prodromus vegetation at the higher level units (class-association) of floristic classification Brown-Blanke;
• developed scientific justification for the 10 key botanical territories, which are included in the European ecological network;
• established an inventory of plant diversity in western and central Belarus;
• study the dynamics of income radionuclide to various plants of wild flora, identified rates of transition and the accumulation of radionuclides in plants and their changes in the system soil-plant-soil;
• developed scientific basis for the formation agrophytocenosis with bioproduction of given the quality and resistant to adverse environmental factors;
• studied cytogenetic features of activate the cell cycle in the nuclei of embryos germinate seeds of crops due to differences in their maturity and quality;
• proposed a new composition for a membrane encrustation crops on the basis of waste production polyvinylivinilacetate paints and rectification by-products of ethanol;
• the use of new technology developed growth regulators on cereal crops, sugar beet, flax and potatoes;
• developed the concept of phytopatogenez, which views it as a process that included as a constituent sustainability and susceptibility;
• examined the physiological characteristics of forming productive morphotype potatoes in vivo in artificial conditions, with ion exchange substrates;
• ionic technology developed for year-round examination and obtain mini-tubers potatoes.
The Institute was created and maintained the largest herbarium in Belarus, with the status of National Heritage, which consists of: herbarium of vascular plants, bryophyte, algae, lichens, fungi, and paleobotany and karpology collection.

	Contact Information
* **Contact person (first name, family name)**	Dzmitry Grumo
* **Department / Laboratory**	
* **Position**	Deputy of Head of Institute
* **Qualification and research experience**	PhD
* **Post address (house, street, city, code, country)**	27, str. Academicheskaja, Minsk, 220072, Belarus
* **Telephone (+ country & city codes)**	(+375 17) 284 20 13 (+375 17) 284 18 51
* **Fax (+ country & city codes)**	(+375 17) 284 18 53
* **E-mail**	zm.hrumo@gmail.com

International co-operation / Participation in EU RTD programmes or other bilateral / multilateral actions INTAS, TACIS, TEMPUS, COST, EUREKA, other RTD programmes (please specify programme/s, project title/s and year/s
INTAS 1. "International cooperation for the protection of the marshes in Europe" (2009-2010's.) 2. "International cooperation for the establishment of cross-border network of specially protected natural areas along the eastern border of the European Union" (2009-2012)

	*** Please, use "X" to indicate the scientific area/s of your potential project**
CHEMISTRY	
SOCIAL AND HUMAN SCIENCES	
ECONOMIC SCIENCES	
ENGINEERING SCIENCE	
ENVIRONMENT	X
AGRICULTURE AND FOOD	X
HEALTH	
MATHEMATICS	
INFORMATION SCIENCE	
PHYSICS	
NANOTECHNOLOGIES	
ENERGY	
TRANSPORT	
SPACE	X

*** Summary of potential research project envisaged hosting of European researcher for the period of between 1 and 2 years**
I. One of the unique niches of Belarus, which could become the sphere of international cooperation - preserved in its natural state of the unique natural ecosystems. The Institute may act as a partner for joint research of flora and vegetation in order to conserve biodiversity and assess the dynamics due to human impact. For the successful implementation of the Institute is: a) highly qualified staff with knowledge of the English language, b) an extensive network of stationary objects in) a lot of experience to conduct such studies. The priorities of international cooperation are: 1) to study the biological diversity of flora; 2) rare and protected species of plants; 3) classification of vegetation; 4) protection and restoration of the marshes; 5) specially protected natural areas (including the creation of cross-border environmental protection facilities); 6) vegetation mapping; 7) to monitor vegetation, using imagery of space exploration; 8) inventory habitats, relevant EEC Habitate Directives II. The Institute was created and maintained the largest herbarium in Belarus, with the status of National Heritage, which consists of: herbarium of vascular plants, bryophyte, algae, lichens, fungi, and paleobotany and karpology collection. The Institute may accept foreign experts to work in the Herbarium and exchange herbarium material.

	Please, confirm your agreement on data publication and dissemination
I agree with the publication of the data on the web-site **http://www.inco-eeca.net**, and **dissemination** among Mobility National Contact Points of the EU MS and AC **(YES / NO)**	**YES**
Date	27.06.2008