



## “Niche markets for specialty industrial crops”

4<sup>th</sup> Thematic Workshop of Crops2Industry EU Project

September 2<sup>nd</sup> , 2011, Thessaloniki, GREECE



### *Vegetal Bioresources, from Ecological Cultures to Industrial Capitalization*

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Head of „Stejarul” Biological Research Centre



National Institute of Research and Development for Biological Sciences /  
„Stejarul” Biological Research Centre



**NATIONAL INSTITUTE OF RESEARCH AND DEVELOPMENT FOR BIOLOGICAL SCIENCES /  
„STEJARUL” BIOLOGICAL RESEARCH CENTRE**

**„STEJARUL” BIOLOGICAL RESEARCH CENTRE**

***Vegetal and Experimental Biology***

***Ecology, Resource and Environment***

**Departments**

- Induction of genetic variability (tissue cultures, experimental mutagenesis with gamma radiations and/or with alkylants;
- Biotechnologies for regeneration and micropropagation of medicinal and aromatic plant species;
- Identification of new active principles in medicinal plants and the evaluation of their bioproductivity;
- Analysis of new genotypes (chemotype/chemovariety) selected as a result of using techniques of experimental genetics.

- Technologies to detect natural resources, studies of hydrochemical and geochemical dynamics of the aquatic systems;
- Technologies for the epuration of some industrial, agricultural or urban residues; biotechnologies to obtain and capitalize useful substances from residues;
- Evaluating biochemical circuits responsible for the liberation of nutrients into aquatic and terrestrial ecosystems;
- The ecotoxicology of the anthropic impact on the ecosystems; evaluation of the action of abiotic factors in protected areas - impact and environment balance studies.

**Research Directions**

- Elaboration of biopreparation formulas to be used in phytotherapy, cosmetics, alimentation;
- Hydrochemical and qualitative analyses of active principles;
- Morfophytochemical and genetice researches;
- Conventional cultures of medicinal and aromatic plants;
- In vitro tissue cultures;
- Studying the stability of the genome in plant abiotic stress conditions;
- Characterizing the plant genetic resources using molecular markers;
- Molecular characterization of genetic modified organisms; their detection and identification.

- Maintaining and melioration of natural resources;
- The study of aquatic and terrestrial ecosystems;
- Impact and environment balance studies;
- Studies to elaborate new epuration technologies.

**Fields of activity**

- The activity is based on research projects with partners from universities, agricultural research and development institutions and processing companies of the Small and Medium Enterprises (Dacia Plant, Plantavorel), and the phytochemical researches are achieved in collaboration with the University of Medicine and Pharmacy “Gr.T.Popa” Iasi.
- The tradition medicinal plant research of our centre is also reflected by organizing the XI<sup>th</sup> edition of the national symposiums under the title “Medicinal plants – present and perspectives”.



## VEGETAL BIORESOURCES

A constant concern was to obtain vegetal raw material on several ways:

- ✓ prelevation from the wild flora correlated with the biodiversity evaluation and transfer of some species into conventional cultivation, as well as the cultivation of some medicinal and aromatic plant species aiming to improve the cultivation technology;

the ecological culture of some medicinal species and the obtaining of ecological certificates, cultures that were achieved by ARDS Secuieni (Agricultural Research and Development Station), Neamt County, SC Dacia Plant, VRDS Bacau.



ANEXA nr. 1 la Ordinul ministrului agriculturii, pădurilor și dezvoltării rurale nr. 219/2007  
**MINISTERUL AGRICULTURII ȘI DEZVOLTĂRII RURALE**  
**DIRECȚIA PENTRU AGRICULTURĂ ECOLOGICĂ**  
**ȘIA DE ÎNCERCĂRI**  
**A PRODUCĂTORILOR ÎN AGRICULTURA ECOLOGICĂ**  
**ANEXA nr. 1**

AFIRMAT: AVIZAT:  
 Director: \_\_\_\_\_ Responsabil agriculturii ecologice  
 Nume și prenume / Semnătura \_\_\_\_\_ Nume și prenume / Semnătura \_\_\_\_\_

1) PRODUCĂTOR  
 Persoana fizică/Persoana fizică asociată/Entreprinderea individuală/Entreprinderea familială/...  
 în calitate de producător ecologic în România, în conformitate cu Legea nr. 18/2002 privind  
 înființarea și reglementarea activității de producție ecologică, reprezentată de: CNP nr. \_\_\_\_\_  
 Persoană fizică \_\_\_\_\_ CNP nr. \_\_\_\_\_ Persoană fizică asociată \_\_\_\_\_  
 Persoană fizică asociată \_\_\_\_\_ Persoană fizică asociată \_\_\_\_\_  
 Titlu \_\_\_\_\_ BIC nr. \_\_\_\_\_ Email \_\_\_\_\_  
 Adresa \_\_\_\_\_  
 2) ANGAJAMENT Soluția împotriva a) și în scopul respectării dispozițiilor naționale și comunitare  
 privind metoda de producție ecologică, procesarea, comercializarea, depozitarea și etichetarea  
 produselor ecologice. Acest document este: \_\_\_\_\_  
 - Regulamentul (CE) nr. 853/2007 al Comisiei privind producția ecologică și etichetarea produselor  
 ecologice de origine agricolă și Regulamentul (CE) nr. 2008/09  
 - Regulamentul (CE) nr. 800/2008 al Comisiei de stabilire a normelor de aplicare a Regulamentului  
 (CE) nr. 1831/2003 privind produsele ecologice și etichetarea produselor ecologice  
 - Ordonanța de Urgență a Guvernului nr. 34/2006 privind produsele agricole ecologice,  
 modificată cu actul nr. 35/2007, cu modificările și completările ulterioare.  
 - 65/2018 pentru aprobarea regulilor privind organizarea sistemului de inspecție și certificare,  
 în vigoare de la data de 15.05.2018 și modificările și completările ulterioare și de reglementare a activității organizațiilor de  
 control ecologic nr. 3/2019 pentru sistemul național de inspecție și certificare privind producția ecologică și etichetarea produselor  
 agricole ecologice.  
 3) ALEXANDRU ORGANISMULUI DE INSPECȚIE ȘI CERTIFICARE AFIRMAT  
 Numele organizației de inspecție și certificare: \_\_\_\_\_  
 Codul organizației: \_\_\_\_\_  
 4) PRODUCȚIA VEGETALĂ (se va completa cu datele din fișa produsului cuprins în anexa 2, "Regulile  
 de producție ecologică")  
 Suprafața agricolă totală exploatată: \_\_\_\_\_ din care:  
 - suprafața totală în agricultură ecologică: \_\_\_\_\_ din care:  
 - suprafața în conversie: \_\_\_\_\_ din care:  
 - conversie anul 1: \_\_\_\_\_  
 - conversie anul 2: \_\_\_\_\_  
 - conversie anul 3: \_\_\_\_\_  
 Sunteți de acord cu preluarea datelor ca caracter personal. În conformitate cu dispozițiile legale în  
 vigoare:  
 Data: \_\_\_\_\_



SC Dacia Plant SRL  
<http://www.daciaplant.ro/>

**Confirmare**  
 ECONSPECT a respectat următorii operatori în conformitate cu sistemul de inspecție și  
 certificare reglementat CE 853/2007, CE 854/2007 și RD 65

NO 3022  
 Nume: S.C. Dacia Plant S.R.L.  
 Adresa: Loc. Doi, str. Tutoi Vasileviciu nr. 28, jud. Buzău

Pe baza inspecției făcute în data de 07.07.2018 și a contractului semnat în data de  
 04.03.2008 ECONSPECT confirmă, că activitatea desfășurată în cadrul său menționată  
 se desfășoară în conformitate cu:

Standardul Uniunii Europene CE 854/2007 și CE 859/2005 privind Agricultură  
 Ecologică

În conformitate cu Standardul menționat, suprafața agricolă exploatată nu și-a  
 încheiat încă al doilea an calendaristic de conversie. Prin urmare, produsele nu pot fi  
 etichetate și vândute pe piață cu specificația "produs ecologic" sau "Certificat de către  
 ECONSPECT" (doar dacă au fost verificate în vârstă, în conversie)

Anexa confirmare este valabilă până la data de 04.08.2011

Comisariat: Dr. Ing. Claudiu Daciș Anca Director Executiv: Dr. Ing. Ștefan Lechină  
 Semnătură: \_\_\_\_\_ Semnătură: \_\_\_\_\_  
 Data: 03.08.2010 Data: 03.08.2010

Statutul: \_\_\_\_\_  
 Data înregistrării: 26.7.2009 Data anului: 14.12.2009  
 Numărul de autorizare: 87.2.10 Anul de: 20  
 Expired: \_\_\_\_\_

MINISTRY OF EDUCATION, RESEARCH, YOUTH AND SPORT  
National Authority for Scientific Research



National Institute of Research and  
Development for Biological Sciences  
"Stejarul" Biological Research Center  
Piatra Neamt

NATIONAL SYMPOSIUM



National Institute of Research and  
Development for Biological Sciences  
Bucharest

The XI<sup>th</sup> Edition

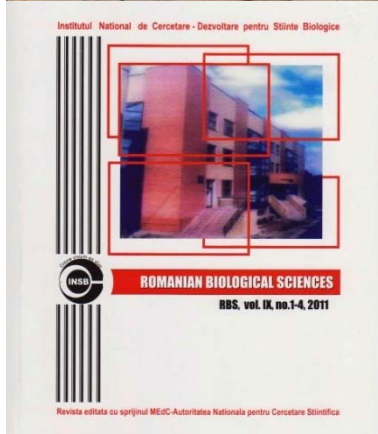
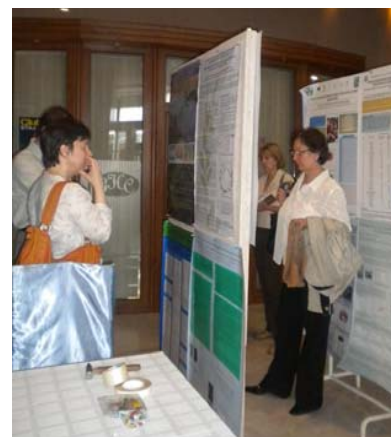
Piatra Neamt,  
8 - 10 June, 2011

# MEDICINAL PLANTS - PRESENT AND PERSPECTIVE

and  
The NIRDBS Annual Scientific Session



"Stejarul" Biological Research Center – Piatra Neamt, in collaboration with National Institute of Research and Development for Biological Sciences Bucharest, organized in Piatra Neamt, the days of 9 to 10 June 2011, the **eleventh edition** of National Symposium "MEDICINAL PLANTS–PRESENT AND PERSPECTIVE" and The NIRDBS Annual Scientific Session, to which we invite you to participate. The symposium is dedicated to the anniversary of 55 years of the "Stejarul" Biological Research Center- Piatra Neamt (separated from the former centre of "Stejarul" Biological, Geology and Geography Research Pangarati - Neamt, University "Al. I. Cuza" - Iasi).





part of nature

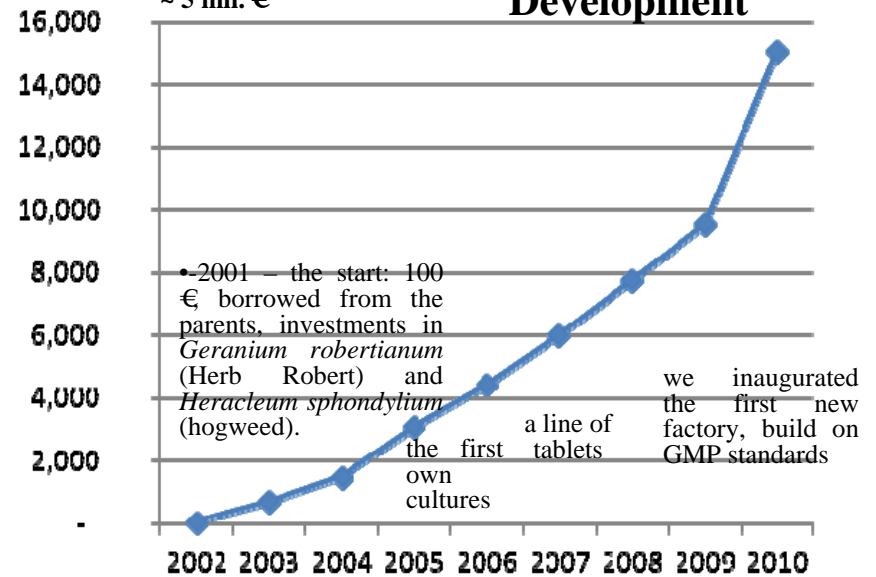


## Experience

- 10 years on the market
- Among the first 5 Romanian natural remedies producers
- Over 250 products, 7 ranges
- Using about 200 plants (MAP)
- Over 150 employees
- Present in 3000 naturist shops and pharmacies
- 2011 - Partnerships with pharmaceutical products distributors and with pharmacy chains; presence in supermarkets (para-pharmacies)



## Development

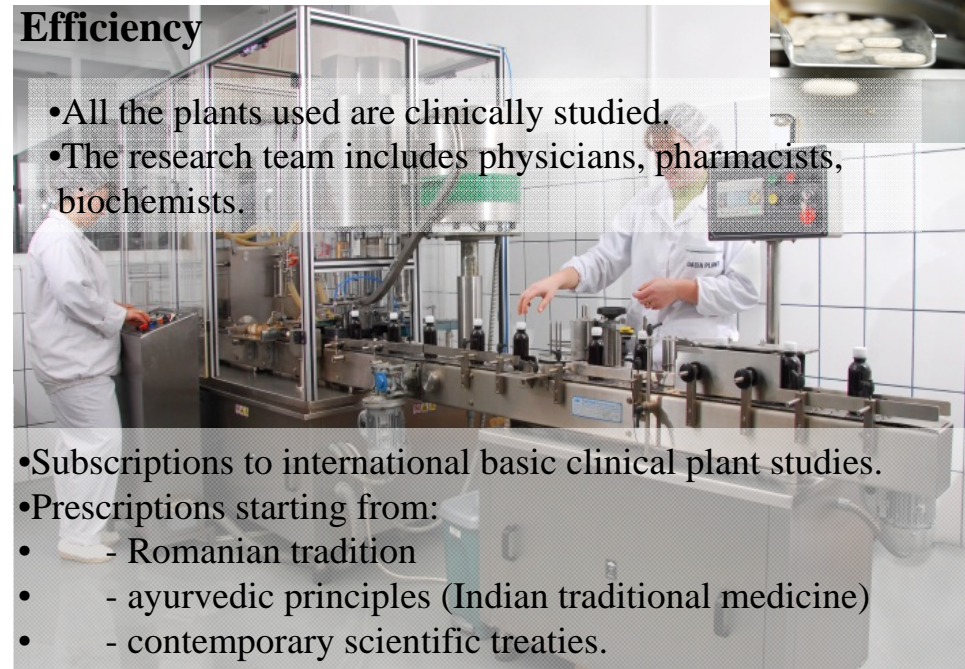


## Everything starts with plants



- 80% plants from Romania – cultivated and wild flora.
- 20% imported plants.
- Own cultures, glasshouse and solariums – 15 plants, 50 ha cultivated, 20 ha in conversion, out of which 4 ha bio-certificated.
- Registered mark for „hogweed” *Heracleum sphondylium* (fertility stimulating), introduced into cultivation.
- Patent for tablets exclusiveley from plants without excipients().

## Efficiency



- All the plants used are clinically studied.
- The research team includes physicians, pharmacists, biochemists.
- Subscriptions to international basic clinical plant studies.
- Prescriptions starting from:
  - - Romanian tradition
  - - ayurvedic principles (Indian traditional medicine)
  - - contemporary scientific treaties.

## Products promotion

- Medical conferences, symposiums, visits of our medical representatives to physicians and pharmacists.
- Catalogues, quarterly magazine, folders and booklets.
- Specialized magazines (Formula AS, Green AS/AS-ul Verde, Health Click/Click Sanatate, PharmaFOOD, etc.)
- Other papers and magazines for women.
- Specialized TV shows and presentation National Televisions 1 and 2, Antena2, Antena3, PrimaTV, OTV, EtnoTV, MixTV network/Reteaua Mix TV.
- Media campaigns 2011



## Perspectives

- Presence in all the pharmacies and naturist magazines.
- A better knowledge of the specialized personnel of the benefits of our products.
- The Dacia Plant products perceived as an accessible alternative, natural and efficient.



## Syrups



- Content of **essential oils** that increase the action speed/velocity and the therapeutic efficiency.

- Delicious, healthy, natural and efficient.
- Achieved from **concentrated** natural ingredients.



- Conceived due to **Romanian and Indian** (ayurveda) traditional prescriptions.
- Easily to be taken.



## Remedies

- Hydroalcoholic extracts of the best **mixtures of medicinal plants**.



- The effect is much amplified by the **sinergic action** of the component plants.



Assures the **conservation** of the active principles (the healing power of plants).



- **Rapidly absorbed** by the organism.



## Teas



- **Attentively selected** plants for a maximum therapeutic efficiency.
- Plant harvesting is made in the periods the **therapeutic effect** is major.

- Plant harvesting from the **cleanest** areas, where the state of the plants is optimum.
- Only **medically tested** plants are used.



## Powders

- Efficient, **mild action**.
- Rendering the **wellfare** of the organism.
- Complex general effects.



- *Detoxicolon* eliminates the residues at level of the colon.

## Tinctures



- The **therapeutic effect** appears after a short time.
- A **rapidly and easily assimilated** form by the organism

- Assures the conservation of the active substances.
- Hydroalcoholic extracts with the greatest concentration of the active substances.



## Tablets



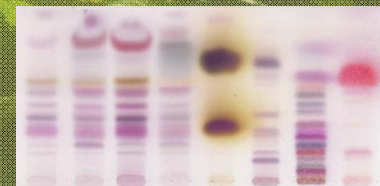
- Thermically and chemically **UNTREATED** plants.
- Presents the advantage of using the dried plant total extracts.
- Easily to be taken.

- The range with the greatest **concentration** of plant/tablet in Romania.
- 100% natural.
- Contain standardized extracts of high quality.



# 7 reasons to choose Dacia Plant

- Remedies of a high therapeutical efficiency at the most accessible prices.
- The range with the greatest concentration of plant/tablet in Romania.
- Achieved of 100% natural ingredients, do not contain dyes, conservants, artificial flavours or edulcorators/sweeteners.
- Plant not treated thermically or chemically.
- The plants from the product composition are attentively selected and studied from the medical point of view.
- Due to the European quality standards.
- Ten years of experience in developing natural remedies.





*ROMANIA – the legislation regarding the medicinal plants and the food supplements: present and perspective*

- One of the problems the medicinal plant processors have to face is the legislation that settles the use of these plants, legislation that must harmonize the European one. In Romania there are over 160 companies that deal with medicinal plants and their use as food supplements.
- Starting with March 2011, by a Government Decision project (obeying the EC directive 2002/46), the phytopreparations will be defined as food supplements not having any longer the quality of curing diseases, but are only used to improve the quality of life. Up to now, the food supplements were notified by the National Institute for Food Bioresources (IBA) and by the Ministry of Health from Romania and the notification was made on the basis of a file elaborated by the producer on its own responsibility, and now the products will be split into two categories: those considered as phytomedicines will be sent to the National Medicine Agency, and the food supplements that contain MAP and bee-products will be brought to the market on the basis of a commercialization certificate released by the previously mentioned entities.
- We consider that it will be a problem to harmonize the legislation as every country has its own rules, and, up to now, the countries of the European Union have not reached any concord to elaborate complex monographs to establish, on their behalf, a list of positive and negative plants.





**Greetings from Piatra Neamt!**

