

## CURRICULUM VITAE of Dr. *Svitlana Dzyubak*

### INFORMATION FOR COMMUNICATION:

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### EDUCATION

(evaluated by Educational Credential Evaluators, Inc.)

- Ph.D., pharmaceutical chemistry and pharmacognosy (chemistry of natural substances); Graduate School of the National Scientific Center of Medicinal Substances, Kharkov, Ukraine, 1997.  
Thesis title: "Biologically active substances of several species of Goldenrod (*Latin name Solidago* genus)".
- M.S., Diploma with honors, medical chemistry; National University of Pharmacy, Kharkov, Ukraine, 1983.  
Thesis title: "Syntheses and pharmacological activity of dialkylaminoalkylamids of arenesulfonyloxaminic acids with different types of pharmacological activities" (patent).
- B.S., Diploma with honors, Qualified Pharmaceutical Chemist; National University of Pharmacy, Kharkov, Ukraine, 1978-82.

### PATENTS (Copyright certificates):

1. I.P. Bannyi, V.P. Chernyh, L.N. Voronina, S.N. Kovalyova. Copyright certificate #1056611 "n-butylamides of 4-(arenesulphamid)-benzolsulphonyloxaminic acids, which have potency to reduce blood-sugar level" (USSR) Inventions and discoveries, 43 (1983) P.240. (in Russian).
2. I.G. Levashova, N.P. Bublik, S.N. Dzyubak Copyright certificate. N1810326 A1 MKI c 07 c.54\34 "Method isolation of 1,6,8-trioxy-3-methyl anthraquinone". Inventions and discoveries, (1993) (in Russian).

### RESEARCH EXPERIENCE:

2003 – Present -- *Consultant* -- Ltd. "Sibervision", Moscow, Russia

Establishing a market for Russian natural substance and herbal medicine products in USA and Canada.

1986 – 2003 – *Research Scientist* -- National Scientific Center of Medicinal Substances, Kharkov, Ukraine:

- Monitoring of pre- and clinical investigative sites to ensure adherence to procedures, protocols, and project plans and ensuring that studies are conducted and documented in compliance with Health care Regulations, Good Clinical Practices Guidelines, and other requirements.
- Development of new medicines, standard substances (patent 2).
- Development of technological processes that better comply with GMP guidelines.
- Production optimization (cycle, time, components, equipment).
- Development of radioanalytical chemistry methods for control of the content of radiological components in herbal medicines.
- Analysis of herbal medicine market demands and development of manufacturing programs for Ukrainian companies.

1983 – 1986 -- *Researcher* -- National Scientific Center of Medicinal Substances, Kharkov, Ukraine  
-- Extraction and identification of biological active substances.

- Analytical studies in the field of natural and synthetic substances.
- 1982-1983 -- *Graduate student* research fellowship -- National University of Pharmacy, Kharkov, Ukraine
- Synthesizing new nonsteroidal hypoglycemic substances (patent 1).
- Microbiological testing of new substances.

#### THE EXPERIMENTAL TECHNIQUES and SKILLS:

1. Extraction and identification of biological active substances: chromatography (liquid-liquid, paper, TLC, column); distillation (dry, steam, vacuum); crystallization; cryogenic purification; precipitation; salt fractionation (salting-out); enzymatic cleavage (enzymatic splitting).
2. Analytical studies in the field of natural and synthetic substances: preparation of samples for analytical investigations; spectrophotometry studies (UV and IR spectrophotometry); titration; optical rotation analysis; statistical data processing.
3. Performing microbiological testing which included plating, media prep and other testing for various pathogens and non-pathogens in pharmaceutical products and raw materials.
4. Microscopical studying of herbal and animal tissues.
5. Radiochemical (qualitative and quantitative) analysis (alpha, beta, and gamma counters).
6. Plants nursing (field and greenhouse experience) and harvesting.
7. Knowledge and experience with lab safety procedures.
8. Creation and maintenance of databases.
9. Knowledge of statistical evaluation.
10. Computer skills: MS Windows, Linux, and UNIX operating systems and their application (word processing, databases, math, drawing, and presentation); relevant lab software programs; database and Internet searching.
11. Language skills: Russian, English, Ukrainian.
12. Personal skills: Organized, hard worker, and fast learner.

#### PUBLICATIONS - 27.

##### SYMPOSIUM AND CONFERENCES (total - 20, three of them - in USA):

1. O. Dzyubak, S. Dzyubak "Low level measurements of radioactive residuals as spin-offs from High Energy and Particle Physics to the Medicine and Nutrition Quality Control Service" 77-th Annual Meeting of the South Carolina Academy of Science, Rock Hill, SC, USA, March 15-th and 16-th (2005).
2. S. Dzyubak, A. Ulesov "From folk medicine to the scientific knowledge and back to folk in the form of Nutrition" SC Nutrition Research Summit 2004, Columbia, SC, USA, October 29 (2004).
3. S. Dzyubak, A. Ulesov "Phytochemistry and Nutrition in Ukrainian National Scientific Center of Medicinal Substances" SC Nutrition Research Summit, Columbia, SC, USA (2003).

#### CONCLUSION:

I have experience working in teams, collaborations, and as an independent researcher. I have also worked in a large variety of fields which provides a strong foundation for work in any of these fields.

Besides allowing me to work in any of the fields I have previously been involved in, I would be able to quickly adapt to a relatively similar field of study by using the interdisciplinary knowledge gained over the years. This knowledge also allows me to combine the advantages of each discipline to greatly improve the methodologies of a specific one.